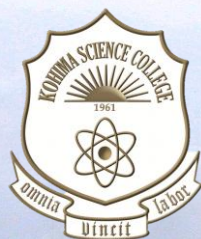


KOHIMA SCIENCE COLLEGE

JOTSOMA, KOHIMA

NAGALAND-797002

(An Autonomous Government PG College)



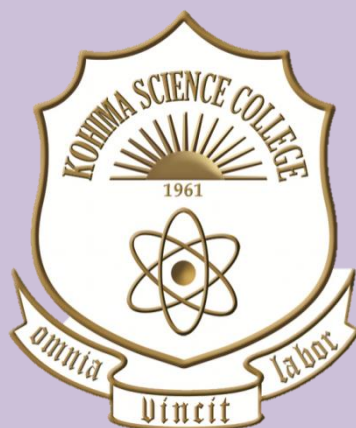
SELF STUDY REPORT

Re-Accreditation: 2nd Cycle
(2012-2016)

Submitted to
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
BENGALURU-560072

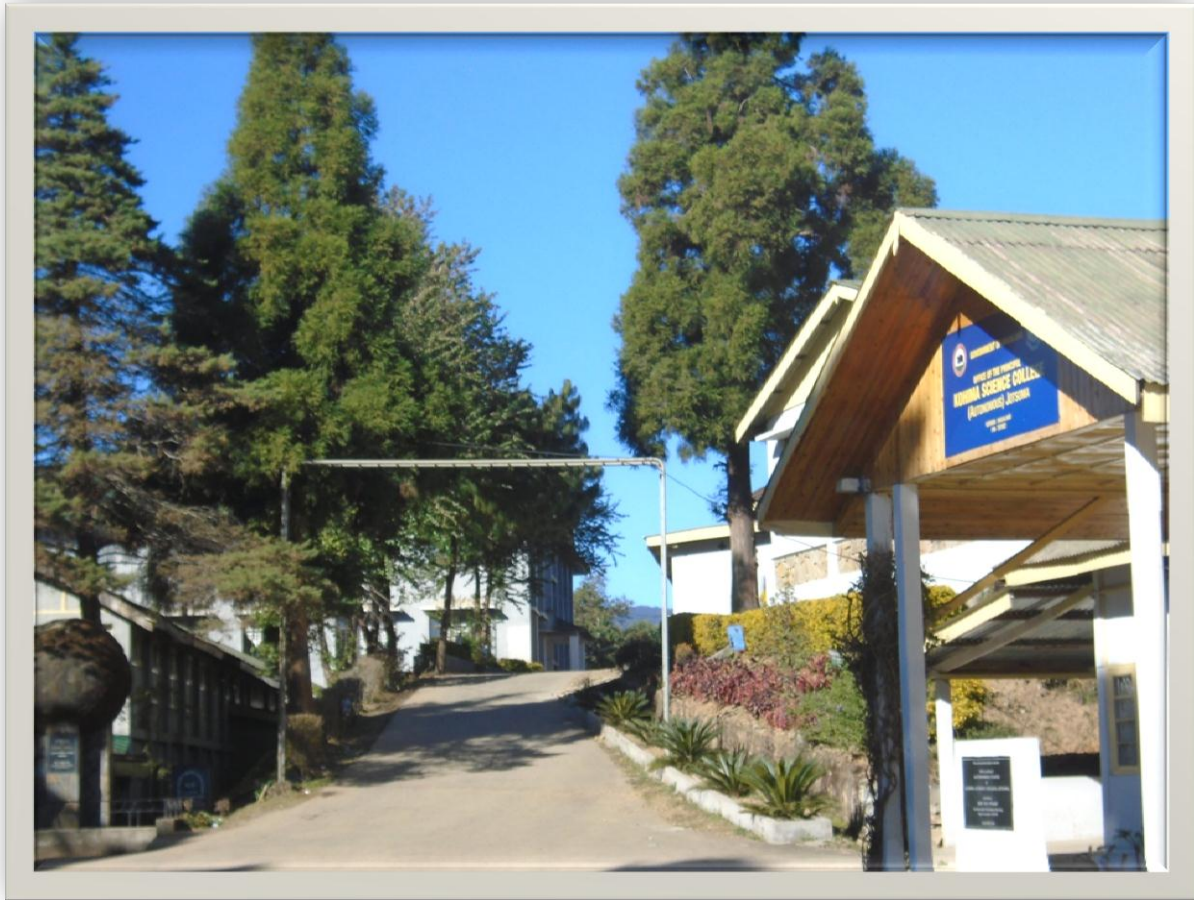
**KOHIMA SCIENCE COLLEGE
JOTSOMA, KOHIMA
NAGALAND-797002**

(An Autonomous Government PG College)

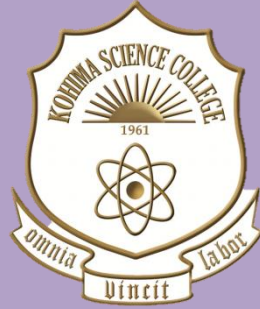


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The College Anthem

Science College, Kohima

Thy name we adore, we do;

To thee we come, all in unity

Let us find the truth we seek.

To the unknown as we go sailing,

With our god as our Captain,

Omnia Vincit Labor

Let thy motto be our guide.

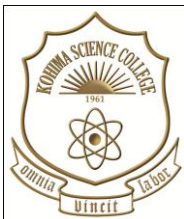
VISION

To Develop the College into a Research Driven Education Hub of National and International Repute.

MISSION

Kohima Science College, Jotsoma (KSCJ) started in the year 1961 with a mission to encourage and impart science education. It is a premier college in the state of Nagaland, where science education occupies the central focus. With the changing time, the college has charted its own mission to respond to the emerging needs of the contemporary society by expanding its focal areas without losing its focus on science education as the central mission. We are continuously striving to fulfil our mission in the following identified areas:

- To utilize academic autonomy to develop and maintain high academic standards in accordance with the national framework and changing academic and social benchmarks.
- To be an enabling agency for the students to develop their potentials to the fullest and become productive and responsible citizens of the contemporary society and the country.
- To promote and strengthen skill based courses in the curriculum.
- To promote student-centric technology enabled teaching and learning along with the core conventional methodology.
- To promote original and quality research with an emphasis on interdisciplinary approach.
- To encourage and support the faculty members to enhance their academic proficiency in accordance with the contemporary benchmarks.
- To encourage a sense of teamwork and community service amongst the students and faculty members.
- To foster and institutionalize innovative and best practices in the workplace by using transparent and decentralized working environment.



GOVERNMENT OF NAGALAND
Office of the Principal
Kohima Science College, Jotsoma, Kohima,
Nagaland- 797002
(An Autonomous Government PG College)

PREFACE

Kohima Science College, we adore, is a premier institute of science education in the state. It was established on 15th September 1961. The college celebrated its golden jubilee in 2011. Initially, the college was affiliated to Gauhati University, Guwahati and subsequently to North Eastern Hill University, Shillong and finally in 1994 to Nagaland University. The vision statement of the college is “to develop the college into a research driven education hub of national and international repute”. The college motto *Omnia Vincit Labor* is a guiding force in our long journey to fulfil the vision statement. The college was assessed and accredited by the NAAC in 2011 with an “A” grade. Now, the college is charting its way to sail through the upcoming challenges of new benchmarks of excellence. The assessment report of the peer team during 1st cycle provided a roadmap to prepare ourselves for 2nd cycle of NAAC assessment. All the stakeholders rose to the occasion and started working for the same. Within the last five years, the college attained several milestones such as, conferment of the autonomous status by UGC, introduction of the choice based credit systems at the undergraduate level as per the national framework, starting of the postgraduate program in six disciplines and the award of the prestigious MHRD funded *RUSA* research project. In the coming years, it will be a mammoth challenge to strengthen the quality of these programs. In near future, the college is looking forward to start a Ph D program and new courses in undergraduate and postgraduate programs. I appreciate all the stakeholders for their tireless and unflinching support for 2nd cycle of NAAC assessment. As an academic fraternity, we are glad to present ourselves for 2nd cycle of assessment by the NAAC. We look forward to receive the NAAC nominated peer team in our campus for an enriching experience.

Kohima Dated: 20-12-2016

Dr. I. Anungla Aier
(Principal)

EXECUTIVE SUMMARY

The college attained an autonomous status in 2014. The college offers undergraduate (UG) and postgraduate (PG) programs. Under the UG and PG programs, there are 10 and 06 courses respectively in various disciplines. The faculty members are selected as per the UGC guidelines through tests and interviews conducted by the Nagaland Public Service Commission. The college has 83 permanent (Male:51, Female: 32) and 17 temporary (Male: 06, Female: 11) teachers. Total 25 faculty members have doctoral degree. Amongst the faculty members, 18 teachers are from outside the state. There are total 15 ministerial (Male:7, Female:8), 14 technical (Male; 09, Female: 04) and 49 supporting staff. In the last four years, average number of admitted students per year is around 771.

CRITERION I: CURRICULUR ASPECTS

The college has introduced a Choice Based Credit System (CBCS) in the UG program from the academic session 2016-17 onwards. The curriculum is as per the national framework suggested by the UGC. The CBCS curriculum, has five components, namely core course (84 credits), discipline specific elective (24 credits), generic elective (24 credits), ability enhancement electives (4 credits) and ability enhancement compulsory (4 credits). The total credit offered for the honours course is 140. The theory and practical components have 96 and 44 credits respectively. In addition to this, the college also offers add-on courses in floriculture, apiculture, electronics circuit repairing & design of 2 credit each. The Computer Science department in collaboration with NIELIT, Govt of India, offers a six months course on computer concept. The PG program is of 72 credits. The curriculum of these programs takes care of employability, innovation, and research. The college has sought independent feedback on the curriculum from subject experts of other universities. The feedbacks by and large are positive.

CRITERION II: TEACHING-LEARNING AND EVALUATION

Admission in the UG and PG programs is through a regulated entrance examination. For admission, the college provides reservation as per the central as well as state government rules. A good number of teachers use ICT tools for teaching. Under the quality improvement programs, during the last five years, the faculty members have attended total 85 programs, including the 20 workshops/seminar/symposium/training programs organized by the college. As an affiliated college under the Nagaland University, academic performance of the students is commendable. During the last four years (2012-15), average pass percentage of the students is 86% (67% with 1st division) with 29 gold medals. Under autonomous system, the first batch of pass out students will come out in 2017. The mechanism for mentoring of the students is in place. A group of 10-15 students is attached to a teacher for their continuous interaction. There is a provision for the evaluation of teachers by the students.

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

The college has a research committee to monitor and address the issues of research. The college has a stated research policy. During the last five years 12 faculty members (14% of the total strength) have availed the study leave to pursue Ph.D program. During the last five years, the faculty members have research projects worth Rs. 340.94 lakhs through extramural funding from UGC, DBT, ISRO and MHRD. They have presented 32 research papers in national and international conferences in the country and abroad. They have published 51 research papers in national and international research journals with total impact factor (Thomson Reuter) of 19.25 and 24 research articles in an in-house journal entitled "RÜSIE: A Journal of Contemporary Scientific, Academic and Social Issues". Faculty members have published 07 reference books and 10 chapters in the edited books. Total 05 books and 03 chapters in the books are in press. Faculty members have also written 07 textbooks and laboratory manual. The college has organized 03 national conferences. The faculty members have research collaboration with 18 institutes/organization of national and international repute. Total 5 MOU have been signed with national and international organizations for research collaboration. Few teachers are involved in guiding Ph.D students.

An Atmospheric Science Research Center (ASRC) in the college is conceptualized as an incubator to promote interdisciplinary research in the state. The centre has a data depository, which is shared with researchers from other institutions. In order to develop a structured mechanism, the Govt, of Nagaland has constituted a seven member expert committee to promote interdisciplinary research through ASRC. The college also has an Institutional Biotech Hub, funded by the DBT, to promote the biotechnology teaching and research. Total 27 researchers of eminence visited the college during last five years. The faculty members of the college have been recognized by research awards and members of the professional bodies.

The Directorate of Higher Education has identified the college as a consultant to Phek Govt College for its preparation to NAAC accreditation. The college has contributed in drafting the “National Education Policy” at a state level. Teachers at individual levels are engaged in the consultancy service at a modest level in the field of (i). Fresh water fishery (ii). River ecology (iii). Floristic study (iv) Water quality check.

The college has taken several initiatives to strengthen its outreach programs. Social commitments are fulfilled by the faculty members, vibrant students’ body, NSS, NCC, YRC units, and the Evangelical Union of the college. To list few of these, activities are (i) participation in blood donation camps (ii) social works in the campus and outside the campus. (iii) visit of the group of students to orphanages house (iv) tree plantation drives and (v) organize awareness programs on various social issues. The college takes pride of the fact that the college NSS unit has been given the sobriquet “*Blood Bank of Kohima*” by the Naga Hospital Authority. Teachers take part in programmes organized by the state education department and central government institutions from time to time. These include the resource persons and mentors for National Children Science Congress (NCSC) activities, science exhibitions and scientific presentations. The faculty members are also involved as reviewers for various national/international research journals and resource persons to many government agencies.

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

The college has a campus area of 133.75 acres (academic complex: 6.17 acres). In the academic complex, the built up area is about 163247 sq. ft. The college has one girls’

hostel (rooms 34; capacity 78) and three boys' hostels (rooms: 106; Capacity 181). In the college campus, there is a primary health centre (1 full time doctor, 1 full time pharmacist, 2 full time nurses), a bank with ATM facility and a post office. The college has both indoor and outdoor games facilities. During the last five years, major construction works have been: (i) construction of a faculty club (completed) (ii) construction of a day home for girls students (completed) (iii) construction of 4 class rooms (completed) (iv) construction of a water tank (completed) (v) construction of a central library building (in progress) and (vi) construction of two girls hostels (in progress) and (vi) installation of 4 units of 10 KVA solar powered UPS (in progress).

The total area of the library is 450 sq. mts and its seating capacity is fifty. The library has total 23,000 print volumes and also 80409 e-books and 3828 e-journals through INFLIBNET. The special collection of reference books is of 4,000 volume. Access to a collection of books through OPAC is available. The library is under surveillance through CCTV. The Bar-coding facility is in place. The library subscribes scientific journals of various disciplines and it has a separate broadband-internet connections for students. During the last five years, the total library budget is of 23.29 lakhs. An additional grant in aid for books for PG program is 30.00 lakhs. The academic departments and library of the college has 180 desktops/laptops. In addition to this, the Principals' office and exam branch have 10 computers. In the college, there are a total of 44 printers and 12 photocopiers, 06 online UPS of 3KVA, 01 solar powered UPS of 10 KVA and one electric generator of 50 KVA.

All the academic departments, library, college office and computer laboratory are networked by 10 Mbps LAN with high speed 4 Mbps broadband internet connectivity through secured client-server system. The college also has Wifi facility. Nine honours classrooms with 30 to 40 seating capacity are fitted with interactive smart board with LCD projector. Six PG classrooms are equipped with LCD projectors.

CRITERION V: STUDENT SUPPORT AND PROGRESSION

For student support and mentoring, the following committees are in place headed by the respective convener (i). Student Mentoring Committee (ii) Career Guidance (iii) Student Counselling Committees (ii). Student's Grievance Redressal

Committee (iii). Anti Sexual Harassment Committee (iv). Disciplinary and Anti Ragging Committee (v). “Good Samaritan Fund” (Support fund by the teachers for economically challenged meritorious students) (vi) Jubilee Trust (institutionalization of corpus fund for financially poor students is in the process) (vii). Earn While You Learn (viii). Parent –Teacher Association.

The NCC contingents (army and air wings) consistently bring laurels to the college. Two cadets were selected at the national level to represent the country in international Youth Exchange Program (YEP), and one of them visited Sri Lanka in 2016. The college NCC contingents regularly participates in the state level independence and republic day parades at the state secretariat complex. In the last five years they have bagged 1st/2nd positions six time in an unarmed marching category. In the last five years, 42 NCC cadets have qualified for a “C” certificate, the highest certificate for a NCC cadet. A “B” certificate is awarded to NSS volunteers who faithfully clocks 120 hours of service in one academic program. The Science Club, Photography Club and Nature’s Club provide a platform and encourage the students to take part in the activities of the respective club. In 2016, three students participated in the Tech Exp under the TECHNICHE festival at IIT Guwahati and their project on Tea Leave Cutting Machine (TLCM) was adjudged amongst the best five projects of the festival.

An updated prospectus and a handbook are published annually. The Literary Committee publishes following: (i) Illume (Annual college magazine) (ii) Scintilla (monthly bulletin) and (iii) Esprit (Winfest daily bulletin). To further encourage the students to excel in their respective disciplines, the teachers sponsor cash awards and certificates to gold medallists and toppers of different disciplines. The college organizes a week long annual *WinFest* which is held to promote self development of the students. *Dr. S.K.Dey Literary Award*, is awarded to the best original poem/essay/short story. *Rock Star Award* is awarded to a student of geology honours for overall best academic performance. The college has a strong student body that takes part in various co-curricular and extra curricular activities. This body is an interface between the authority and students of the college. The college has a registered vibrant Alumni Association. They are presently onto their Project Alpha 2, where a 50-bedded girls’ hostel is under construction.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

The college management is participative in nature. The college has four statutory bodies, namely Governing Body (GB), Academic Council (AC), Board of Studies (BOSs) and Finance Committee (FC). The GB is headed by Prof. (Mrs) Temsula Ao, *Padmashree*, and chairman of Nagaland State Women Commission. The AC and FC are headed by the Principal of the college and BOSs are headed by the respective head of the department. The general administrative management system consists of various committees headed by the respective conveners. The following committees are in place: IQAC, College Development Committee, Examination Committee, NAAC Steering Committee, Planning and Evaluation Committee, Construction Committee, RUSA Coordination and Monitoring Committee, Internal Audit Committee, Event Management Committee, Disaster Management Committee, Technical and IT Committee, Canteen Management Committee.

A system is in place to analyse performance of the departments and individual teachers. Various welfare schemes are in place for teaching and non teaching staff.

During the last five years, the college has received Rs. 5812.58 lakhs under plan, non plan and grants in aid from the Govt of Nagaland. The college also received. Rs. 87.75 lakhs from UGC under various heads and Rs. 27.76 from MHRD under infrastructure and vocationalization schemes. The college has also collected Rs. 36.39 lakhs from the students as the college development fee. Under the research projects, the college has received Rs. 349.00 lakhs. The accounts for the fund received from the MHRD, UGC and DBT are operated through the Public Financial Management Systems (PFMS), a web portal under the Ministry of Finance, Govt of India.

CRITERION VII: INNOVATION AND BEST PRACTICES

The college has conducted a green audit of its campus and adjoining area through GIS and remote sensing technique. The college and surrounding area of 21 km², has 84% forest cover, including the dense, open and shrub forests. The college has taken the following initiatives to make the campus eco-friendly: (i) Use of LED bulbs in a phase manner (ii) Installation of solar powered UPS systems (04 units of 10KVA each) (iv)

Introduction of LPG for cooking in the hostels (v) Tree plantation in and around the campus. (vi) Waste management including hazardous and e-waste management.

The college has adopted following innovations (i). Research Incubation Centre (ii). CBCS, for its UG Programme. (iii). Introduction of PFMS (iv). Orientation for Freshers on the first day of college (v). Dry Run: Internal Quality Audit (vi). Spoken Tutorial. Under the best practices “ Desktop SMS”and “Good Samaritan Fund” schemes are in place.



PROFILE OF THE COLLEGE

1. Name and Address of the College

| | | |
|---------------------|-------------------------------------|-----------------|
| Name: | Kohima Science College (Autonomous) | |
| Address | Jotsoma, Phezhu | |
| City: Kohima | Pin: 797002 | State: Nagaland |
| Website | www.kscj.ac.in | |

2. For Communication

| Designation | Name | Telephone with STD code | Mobile | Fax | Email |
|---------------------------------|-------------|-------------------------|------------|-----|--------------------------------|
| Principal | Aier I A | 0370-2227026 | 9612308099 | NA | principal_ksc07@rediffmail.com |
| Vice Principal | Longkumer Y | NA | 9862223023 | NA | principal_ksc07@rediffmail.com |
| Steering Committee Co-ordinator | Sharma S | NA | 9436010366 | NA | sanjay_sharma11@hotmail.com |

NA: Not Available

3. Status of the Autonomous College by Management

1. Government : Yes

2. Private : No

4. Constituent college of the University : No

5. Name of University to which the College is Affiliated: Nagaland University (NU)

6. a. Date of establishment, prior to the grant of 'Autonomy' : 14-09-1961

b. Date of grant of 'Autonomy' to the College by UGC : 19-06-2014 (*Annexure I*)

7. Type of Institution

a. By Gender

i. For men

ii. For Women

iii. Co-education

| |
|---|
| x |
| x |
| √ |

| |
|---|
| √ |
|---|

- b. By Shift**
- | |
|---|
| x |
| x |
- i. Regular
- ii. Day
- iii. Evening

- c. Source of funding**
- | |
|---|
| √ |
| √ |
| x |
| x |
- i. Government
- ii. Grant-in-aid
- iii. Self Financing
- iv. Any other (Please specify)

- 7. Is it a recognised minority institution ?**
- i. Yes
- ii. No
- | |
|---|
| x |
| √ |

8. a. Details of UGC Recognition

| Under Section | Date , Month & year | Remarks (if any) |
|---------------|---------------------|--|
| i. 2(f) | 23-01-2012 | The latest certificate of recognition under 2(f) and 12 (B) was issued by the UGC on Jan23 rd , 2012. It was issued due to change of college name from “ <i>Science College Kohima</i> ” to “ Kohima Science College, Kohima ” (<i>Annexure 2</i>) |
| ii. 12 (B) | 23-01-2012 | |

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

b. Details of recognition/approval by statutory/regulatory bodies other than UGC

(AICTE, NCTE, MCI, DCI, PCI, RCIetc.) : NA

9. Has the college recognized

a. By UGC as a college with potential for Excellence (CPE) : No

b. For its contribution/performance by any other governmental agency ? : No

10. Location of the campus and area:

| Location | Semi-urban/Tribal/Hilly Area |
|---------------------------------|--|
| Campus area in sq.mts. or acres | 133.75 acre (Academic Complex: 6.17 acres) |
| Builtup area. | 163247 sq.ft |

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Does the College have the following facilities on the campus (Tick the available facility)? In case the College has an agreement with other agencies in using such facilities provide information on the facilities covered under the agreement.

Sports facilities

Play ground √

Swimming pool x

Gymnasium x

Hostel

Boys' hostels √

Girls' hostels √

Residential facilities

for teaching staff √

for non teaching staff √

Cafeteria √

Health centre –

First aid facility √

Inpatient facility x

Outpatient facility √

Ambulance facility x

Emergency care facility x

Health Centre Staff

Qualified Doctor: Full Time: 01 Part Time: Nil

Qualified Nurse: Full Time: 02 Part Time: Nil

Other facilities

Bank √

ATM √

Post Office √

Book Shops √ (Stationery Shops)

Transport facilities

for students √

for staff √

Power house

√ (Separate transformer for the College &
Generator 50 KVA)

Waste management facility

√

12. Details of programmes offered by the institution: (Give data for current Academic Year)

| Sl. No | Program Level | Name of the Programme/ Course | Duration | Entry Qualification | Medium of Instruction | Sanctioned /Approved Student intake | No. of Students admitted |
|--------|---------------|------------------------------------|----------------------------|---------------------|-----------------------|-------------------------------------|--------------------------|
| 1. | UG | [a]. Program: Honours in; | Three Years (Six Semester) | Higher Secondary | English | | |
| | | (i). Anthropology | -Do- | -Do- | -Do- | 50 | 50 |
| | | (ii). Botany | -Do- | -Do- | -Do- | 50 | 50 |
| | | (iii). Chemistry | -Do- | -Do- | -Do- | 50 | 50 |
| | | (iv). English* | -Do- | -Do- | -Do- | 10 | 06 |
| | | (iv). Geography | -Do- | -Do- | -Do- | 50 | 50 |
| | | (v). Geology | -Do- | -Do- | -Do- | 50 | 50 |
| | | (vi). Mathematics | -Do- | -Do- | -Do- | 60 | 60 |
| | | (vii). Physics | -Do- | -Do- | -Do- | 50 | 50 |
| | | (viii). Statistics | -Do- | -Do- | -Do- | 50 | 50 |
| | | ix. Zoology | -Do- | -Do- | -Do- | 50 | 50 |
| | | [b]. Course: (i). Computer Science | -Do- | -Do- | -Do- | 50 | 50 |
| 2. | PG | (i). Anthropology* | Two Years (Four Semester) | B.Sc. (Honours) | English | 12 | 12 |
| | | (ii). Botany* | -Do- | -Do- | -Do- | 12 | 12 |
| | | (iii). Geology* | -Do- | -Do- | -Do- | 08 | 08 |
| | | (iv). Mathematics* | -Do- | -Do- | -Do- | 10 | 08 |
| | | (v). Physics* | -Do- | -Do- | -Do- | 08 | 08 |
| | | (vi). Zoology* | -Do- | -Do- | -Do- | 12 | 12 |
| 3. | Integrated | **NA | NA | NA | NA | NA | NA |

| | | | | | | | |
|-----|----------------------------|--|----------|------------------|---------|----|----|
| | Masters | | | | | | |
| 4. | M. Phil | NA | NA | NA | NA | NA | NA |
| 5. | Ph.D. | NA | NA | NA | NA | NA | NA |
| 6. | Integrated Ph.D | NA | NA | NA | NA | NA | NA |
| 7. | Certificate | (i). Electronic circuit designing & repairing | 6 months | Higher Secondary | English | 20 | 20 |
| | | (ii). Floriculture | -Do- | -Do- | -Do- | 20 | 20 |
| | | (iii). Apiculture | -Do- | -Do- | -Do- | 12 | 12 |
| 8. | Diploma | NA | NA | NA | NA | NA | NA |
| 9. | PG Diploma | NA | NA | NA | NA | NA | NA |
| 10. | Any other (Please Specify) | NA | NA | NA | NA | NA | NA |

* Started from 2016-17 academic session; **NA: Not Available

13. Does the institution offer self financed programmes: No

14. Whether new programmes have been introduced during the last five years: Yes

03: MSc, BA and Certificate Program)

15. List the departments: (Do not list facilities like library, Physical Education as departments unless these are teaching departments and offer programmes to students

| Particulars | Number | Number of students |
|--------------------|--------|------------------------------|
| Science | | |
| Under Graduate | 10 | 811 |
| Post Graduate | 06 | 60 |
| Research Centre(s) | 01 | 03 (Regular); 04 (Part Time) |
| Arts | | |
| Under Graduate | 01 | 06 |
| Post Graduate | Nil | Nil |

| | | |
|-------------------------------|-----|-----|
| Research Centre(s) | Nil | Nil |
| Commerce | | |
| Under Graduate | Nil | Nil |
| Post Graduate | Nil | Nil |
| Research Centre(s) | Nil | Nil |
| Any other | | |
| Short term certificate course | | |
| Under Graduate | 03 | 54 |
| Post Graduate | Nil | Nil |
| Research Centre(s) | Nil | Nil |

16. Are there any UG and/or PG programmes offered by the College, which are not covered under Autonomous status of UGC? Give details. : No

17. Number of Programmes offered under (Programme means a degree course like BA, MA, B.Sc, MSc, B.Com etc)

| | |
|---------------------|-----|
| a. Annual system | Nil |
| b. Semester system | 03 |
| c. Trimester system | Nil |

18. Number of programmes with

| | |
|-------------------------------------|-----|
| a. Choice Based Credit Systems | 03 |
| b. Inter/Multidisciplinary Approach | Nil |
| c. Any other (specify) | Nil |

19. Unit cost of Education

(unit cost= total annual recurring expenditure(actual) divided by total number of student enrolled)

- a. Including the salary component : Rs. 1.59 Lakhs.
- b. Excluding the salary component : Rs. 0.072 Lakhs.

20. Does the college have a department of teacher education offering NCTE recognized degree programmes in Education? : No

21. Does the college have a teaching department of Physical Education offering NCTE recognized degree programmes in Physical Education? : No

22. Whether the college is offering professional programmes: No

23. Has the college been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon:

Yes (a). by the NAAC in 2011 and (b). by the UGC expert committee (to evaluate the performance and academic attainments of the college for the conferment of fresh autonomous status to the college). For detail, please refer Table below

| Sl. No. | Agency | Reccommendations/suggestions | Action Taken upon |
|---------|--------------------------|--|---|
| 1. | NAAC Peer Team (2011) | Introduce a few more job oriented, self finance courses at UG and PG levels. | The newly introduced CBCS curriculum from the academic session 2016-17 onward at UG level, take care of job oriented courses. It consists of ability enhancement electives and compulsory with 8 credits. There is an effort to strengthen this aspect at PG level also. In addition to these, the college has also introduced job oriented Add-On courses of 2 credits each in three disciplines, namely (a) Floriculture (b) Apiculture and (c) Electronics Repairing & Circuit Design. |
| | | Increase the number of computers and internet nodes in the departments. | There is a significant increase in the computers and internet nodes in the departments. At present there are total 180 desktop/laptop, whereas during the 1 st cycle assessment the numbers were 133. |
| | | Computerize library services so as to be user friendly. | The following initiatives have been taken for the computerization of the library service (i). Introduction and commencement of OPAC (ii). Introduction and commencement of bar coding systems for books. (iii) Separate broadband connections for students. (iv) Strengthening of INFLIBNET service to the faculty and students. |
| | | Student support services need to be augmented further. | The college has taken initiative to strengthen the students mentoring systems, where each teacher is assigned |

| | | | |
|--|--|--|---|
| | | | 10 to 15 students. There is a closer interaction of students and teacher, with personal attention to each of the student. |
| | | Take initiative to develop communication and soft skills of students (e.g. Language Lab) | As a major step, the college has upgraded the English department from 2016-17 academic session onwards. Now the English department offers Honours course to the undergraduate students. Opening a Language Laboratory is under active consideration. In addition to these initiatives, students are encouraged to participate in literary activities such as easy writing, debates, quiz etc. |
| | | More research projects need to be obtained from UGC, CSIR, DST, etc. | The college has taken strong initiative to encourage the faculty members to pursue research work which has resulted in the quantum jump in the total outlay of the extramural research funding. During the last five years, the college received research funding worth of Rs. 343.24 lakhs, whereas during the 1 st cycle of assessment period, there were research projects worth of Rs. 153.86 lakhs. |
| | | Generate more funds through highly placed and affluent Alumni | The alumni association of the college is quite active, and resources are generated under the Alpha-II project. This is a project to construct a girls hostel with a capacity of 50 students. The work under the project is in progress. The total budget of the project is Rs. 100.00 Lakhs. |
| | | Motivate students and faculty to use ICT as the principal learning resources. | The college has established a technical and IT committee to look into the use of ICT as a principal learning resource. The committee organizes training programs and also provides consultancy to the departments and faculty members for the use of smart board and development of PPT based lecture notes. At present the college has set of nine smart boards and LCD projectors in the honours classrooms. In addition to this the six PG classrooms are equipped with LCD projector and screens. |
| | | IQAC needs to play a greater role to create a vibrant study environment | The college IQAC plays a proactive role to create a vibrant study environment. The following are the major decisions of the IQAC |

| | | | |
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| | | | <p>(i). To go for the autonomous status of the college as per the UGC guidelines.</p> <p>(ii) To introduce the CBCS curriculum at the undergraduate level from the academic session 2016-17 onward as per the UGC recommended template.</p> <p>(iii). To start BA program with English (Honours) course from the academic session 2016-17 onward as per the UGC recommended template</p> <p>(iv). To start PG programs in six subjects, namely, Anthropology, Botany, Geology, Mathematics, Physics and Zoology from the academic session 2016-17 onward.</p> <p>(v) To introduce job oriented Add-On courses of 2 credits each in three disciplines, namely (a) Floriculture (b) Apiculture and (c) Electronics Repairing & Circuit Design.</p> <p>(vi) To enhance and strengthen ICT based teaching and learning.</p> |
| 2. | UGC nominated Expert Committee for the conferment of fresh autonomous status to the college (2014) <i>(For detail, please refer section 6.1.11)</i> | <p>The committee feels that the teachers of the college should undertake visits to establish autonomous colleges in India to implement their vision for autonomy.</p> | <p>In accordance with this recommendation, a five member team of the senior faculty members, including the controller of examination visited St. Xavier College, Kolkata, an autonomous institute of national repute, to get an insight of the system of an autonomous college. The visit was carried out during Aug 17th – 18th, 2015.</p> |
| | | <p>The college may develop curricula to make optimum use of the natural resources of the state</p> | <p>The newly introduced CBCS curriculum at UG level, take care of job oriented courses. It consists of ability enhancement electives and compulsory with 8 credits. Apart from this the college has introduced the add on course on Floriculture, Apiculture and Electronic Design and repairing of 2 credits each..</p> |
| | | <p>The college may continue to associate its alumni for its development and resource generation.</p> | <p>The alumni association of the college is quite active, and resources are generated under the Alpha-II project. This is a project to construct a girls hostel with a capacity of 50 students. The work under the project is in progress. The total budget of the project is Rs. 100.00 lakhs.</p> |

| | | | |
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| | | <p>Special attention needs to be given towards further development of the library.</p> | <p>The following initiatives have been taken for the development of of the library</p> <ul style="list-style-type: none"> (i). Construction of a new library building is in progress. (ii). New books have been procured. (iii). Introduction and commencement of the OPAC (iv). Introduction and commencement of bar coding systems for books. (v). Strengthening of the INFLIBNET service to the faculty and students. (vi). Separate broadband-internet connections for students. |
| | | <p>The college may undertake specific programs for the empowerment of women</p> | <p>The present chairperson of the governing body of the college is Prof. (Mrs) Temsula Ao, <i>Padmashree</i> and chairperson of the Nagaland State Women Commission (NSWC). The chairperson of Academic Council and the principal of the college is Dr. I. Anungla Aier. The college has 26 women faculty members, including the Head of the three departments (Anthropology, English and Geology). They constitute 31% of the total strength of permanent faculty. The women faculty members are the part of the decision making process through various academic and administrative bodies. The girls constitute average 47 % of the total student strength in the last four years. In an office, laboratory and ground staff, they constitute around 46%, 19% and 15%, respectively.</p> |

24. Number of teaching and non teaching positions in the college

| Positions | Teaching Faculty | | | ** Non Teaching Staff (<i>Ministerial Staff+ Librarian</i>) | **Technical Staff (<i>Laboratory Assistants+ Technical Assistant</i>) |
|-----------|------------------|---------------------|----------------------|--|--|
| | Professor | Associate Professor | Assistant Professor. | | |
| | | | | | |

| | *M | *F | M | F | M | F | M | F | M | F |
|---|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|
| Sanctioned by the UGC/University/State Government <i>Recruited</i> | 00 | 00 | 16 | 10 | 35 | 22 | 07 | 08 | 09 | 05 |
| <i>Yet to recruit</i> | 00 | | 00 | | 00 | | 00 | | 00 | |
| Sanctioned by the Management/society or other authorized bodies <i>Recruited</i> | N/A | N/A | N/A | NA | N/A | N/A | N/A | N/A | N/A | N/A |
| <i>Yet to recruit</i> | | | | | | | | | | |

*M-Male; *F-Female.; N/A: Not Applicable

** In addition to the ministerial and laboratory assistant, there are other supporting staff in the non teaching category (peons, bus drivers, watchmen, hostel cooks, gardeners) and lab bearers). In the supporting staff, under sanctioned and temporary category, there are total 49 employees (Male: 43 and Female: 06)

25. Qualification of the teaching staff

| | Professor | | Associate Professor | | Assistant Professor | | Total |
|--------------------------------|-----------|-----|---------------------|-----|---------------------|-----|-------|
| | *M | *F | *M | *F | *M | *F | |
| Permanent Teachers: 83 | | | | | | | |
| DSc/D.Litt | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| Ph.D | Nil | Nil | 03 | 03 | 11 | 02 | 19 |
| M. Phil | Nil | Nil | Nil | Nil | Nil | 01 | 01 |
| PG | Nil | Nil | 13 | 07 | 24 | 19 | 63 |
| Temporary Teachers: 17 | | | | | | | |
| Ph.D | Nil | Nil | Nil | Nil | 03 | 03 | 06 |
| M.Phil. | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| PG | Nil | Nil | Nil | Nil | 03 | 08 | 11 |
| Part-time Teachers: Nil | | | | | | | |

26. Name of Visiting/Guest faculty engaged by the college: Nil

27. Students enrolled in the college during the current academic year, with the following details:

Integrated Master M.Phil, Int. PhD, Ph.D, DLitt/ D.Sc, Diploma and PG diploma course/programs are not available in the college

| Students | UG | | PG | | Certificate | |
|---|-----|-----|----|----|-------------|----|
| | M | F | M | F | M | F |
| From the state where the college is located | 391 | 387 | 15 | 33 | 24 | 26 |
| From other states of India | 17 | 16 | 02 | 01 | 03 | 01 |
| Foreign students | 00 | 00 | 00 | 00 | 00 | 00 |
| Total | 408 | 403 | 17 | 34 | 27 | 27 |

28. Dropout rate in the UG and PG (Average for the last two batches:

UG: (a) 21% (last two years) (b) 13% (last five years)

PG: Not Available (first batch admitted in 2016)

29. Number of working days during the last academic year: 240 days

30. Number of teaching days during the last academic year: 180 days

31. Is the college registered as a study centre for offering distance education program for any university: No

32 Provide the Teacher-Student ratio for each of the program/course offered:

(a) BSc 1:10; (b) BA 1:1; (c) M. Sc. 1:1

33. Is the college applying for ?

Accreditation:

| | | | | | | | |
|---------|---|---------|---|---------|---|---------|---|
| Cycle 4 | x | Cycle 2 | √ | Cycle 3 | x | Cycle 1 | x |
|---------|---|---------|---|---------|---|---------|---|

Re-Assessment:

34. Date of Accreditation (applicable for Cycle 2, Cycle 3, Cycle 4 and re assessment only): Cycle 1: 30/11/2011 (dd/mm/yyyy), Awarded “A Grade” (*Annexure 3*)

35. a. Date of establishment of Internal Quality Assurance Cell (IQAC): 01/05/2008

b. Dates of submission of Annual Quality Assurance Report (AQARs)

- (i). AQAR for year 2011-12 on 15/12/2012 (dd/mm/yyyy)
- (ii). AQAR for year 2012-13 on 15/12/2013 (dd/mm/yyyy)
- (iii). AQAR for year 2013-14 on 18/07/2015 (dd/mm/yyyy)
- (iv). AQAR for year 2014-15 on 26/10/2016 (dd/mm/yyyy)

36. Any other relevant data, the college would like to include (Not exceeding one page): No.

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CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Design and Development

1.1.1 How is the institutional vision/mission reflected in the academic programmes of the College?

The institutional vision/mission is to develop the college into a research driven education hub in accordance with the national framework and changing academic and social benchmark. The newly introduced academic curriculum in undergraduate (UG) program is based on the Choice Based Credit System (CBCS) as per the national framework suggested by the UGC. In the curriculum, along with the core course, the emphasis is on advance level innovative, interdisciplinary and skill based courses. The systematic implementation of new programs will be able to fulfil the demand and the aspiration of the people of the state.

1.1.2. Describe the mechanism used in the design and development of the curriculum? Give details on the process. (Need Assessment, Feedback, etc.)

The whole process of designing a new curriculum started from 2014-15 academic session onward, when the college acquired autonomous status through the UGC letter vide number F.22-1/2014(AC) dated 19 June 2014. The first batch of the students under autonomous system was admitted in the academic session 2014-2015 with the existing syllabus of NU, the affiliating university.

With the UGC guideline of implementing the CBCS at the UG level and coupled with the student feedback on the curriculum (subsection 1.4.1), it was recommended at the IQAC meeting to introduce the CBCS at the undergraduate level and subsequently it was approved in the first meeting of the governing body (GB) which was held on Oct 14th 2015. Thereafter, the curriculum was designed and developed by the Board of Studies (BOS) of the respective departments. The developed curriculum was referred to the Academic Council (AC) and it was approved on April 6th 2016, in their first meeting. The whole process resulted in the introduction of CBCS from 2016-17 academic session onward.

A Similar process was followed for the Postgraduate (PG) program also in the six departments, namely Anthropology, Botany, Geology, Mathematics, Physics and Zoology. The PG program was also started from the academic session 2016-17. At present The PG program has started with the existing syllabus of Nagaland University (NU) and the North Eastern Hill University (NEHU) with some minor changes. In due course of time, a new curriculum will be adopted as per the national framework.

1.1.3. How does the College involve industry, research bodies, and civil society in the curriculum design and development process? How did the College benefit through the involvement of the stakeholders?

At present there is no involvement of industry, research bodies, and civil society in the curriculum design and development process. Apart from the faculty members of the college, the BOSs consist of external members, who are either university nominee or distinguished alumni.

1.1.4. How are the following aspects ensured through curriculum design and development?

***Employability:** Introduction of skill enhancement courses for skill development in each discipline

* **Innovation:**(i) Introduction of advance level and modern innovative discipline specific elective courses (in addition to core courses) and inter disciplinary courses
(ii) Practical paper with each theory paper.

* **Research :** Emphasis is on research oriented project work and field work

The details of the courses offered to address these three issues are provided below

| Table 1.1: Course Offered at Undergraduate Level to Address the Issues of Employability, Innovation and Research | | | | |
|---|--|---|---|--|
| Department | Employability | Innovation | | Research |
| | Skill enhancement course offered by the department (4 credits) | Discipline Specific Elective (DSE) (Advanced level elective innovative courses) (24 credits) | Generic Elective (Inter-Disciplinary) offered to the students of other discipline (24 credits) | Dissertation (Project/field work) |
| Anthropology | Tourism Anthropology, Field work | (i). Sports & Nutritional Anthropology, (ii). Forensic Dermatoglyphics, (iii). Anthropology of health, (iv). Tribal culture of India, (v). Indian Archaeology, (vi). Paleo Anthropology | (i). Foundation of Physical Anthropology (ii). Foundation of social and cultural Anthropology (iii). Foundation of Archaeological Anthropology (iv). Tools and technique of research methodology | Project and Field work |
| Botany | Floriculture, Mushroom culture Technology | (i). Plant breeding (ii). Natural resource management (iii). Research methodology (iv). Biostatistics | (i). Biodiversity (ii). Plant Ecology and Taxonomy (iii). Plant anatomy and Embryology (iv). Economic Botany and Biotechnology | Project and Field work |
| Chemistry | Pesticide chemistry, Fuel Chemistry, Pharmaceutical Chemistry, Chemistry of Cosmetics and Perfumes | (i). Analytical methods in Chemistry (ii). Green Chemistry (iii). Industrial Chemical and Environment (iv). Industrial Importance of Inorganic Materials | (i). Atomic Structure, Bonding, General Organic Chemistry, Aliphatic Hydrocarbons 2. Chemical Energetics, Equilibria and Functional Organic Chemistry - I 3. Solutions, Phase Equilibria, Conductance, Electrochemistry, & Functional Group Organic Chemistry - I | Project work |

| | | | | |
|-----------|---|--|---|-------------------------------|
| | | | <p>4. Transition Metal & Coordination Chemistry, States of Matter & Chemical Kinetics</p> <p>5. Organometallics, Bio-inorganic Chemistry, Polynuclear Hydrocarbons & UV, IR Spectra</p> <p>6. Quantum Chemistry, Spectroscopy & Photochemistry.</p> | |
| English | <p>(i).English Language Teaching (ii) Soft skills (iii) Translation studies (iv) Creative writings (v). Business communication (vi) Technical writing</p> | <p>(i) Modern Indian writing in English Translation (ii) Literature of the Indian Diaspora (iii) British Literature: Post world war II (iv) Nineteenth century European Realism (v). Literary Theory (vi) Science fiction and detective literature (vi) Literature and cinema (vii) Research methodology (ix) Travel writing (x) Autobiography</p> | <p>(i). Academic writing and composition (ii) Media and communication skills (iii) Text and performance (iv) Language and Linguistics (v). Contemporary India: Women and Empowerment (vi). Language, literature and culture.</p> | |
| Geography | <p>Remote Sensing, Advanced Spatial statistical Technique, Geographical Information Systems (GIS),</p> | <p>(i). Demography and Cartographic Technique (ii). Geography of Health and Wellbeing (iii). Social Geography (iv). Geography of Tourism (v). Agriculture Geography (vi). Urban Geography (vii). Political Geography.</p> | <p>(i). Introduction to Physical Geography (ii). Human Geography (iii). Geography of India (iv) Regional Geography of North-East India</p> | <p>Project and field work</p> |
| Geology | <p>Field work: Basic field training, Precambrian Geology field, Tertiary geology field, Economic</p> | <p>(i). Exploration Geology/. Evolution of Life through Time(ii). Geology of Nagaland/Introduction to Geophysics (iii). Environmental</p> | <p>(i). Essential of geology/Earth surface processes (ii). Rocks and mineral/ Soil: Present and Past (iii). Fossils and</p> | <p>Project and field work</p> |

| | | | | |
|-------------|---|---|---|--------------|
| | Geology field | Geology/Urban Geology (iv) Fuel Geology/Earth and Climate | their Application/Earth resources (iv). Natural Hazards and Disaster Management/ Nuclear Waste Management | |
| Mathematics | Logic and sets, Computer Graphics, Graph Theory, Operating system : Linux | (i). Portfolio optimization/Number Theory/ Analytical Geometry (ii). Industrial Mathematics/ Boolean Algebra Automata Theory/ Probability and Statistics (iii). Theory of equations/Bio-Mathematics/ Linear Programming (iv). Mathematical modelling/Mechanics/Differential Geometry | (i). Object orienteinite Element Methods (ii). Mathematical Finance/Econometrics (iii). Cryptography and Network Security/ Information Security (iv). Application of Algebra/ Combinatorial Mathematics. | Project work |
| Physics | Computational Physics, Electric circuits and network skills, Basic instrumentation skills, Weather Forecasting. | (i). Experimental technique (ii). Embedded Systems: Introduction to Microcontrollers (iii). Physics of Device and Instruments (iv). Advance Mathematical Physics-I (v). Advance Mathematical Physics-II (vi). Communication Electronics (vii). Digital Signal Processing (viii). Astronomy and Astrophysics (ix). Atmospheric Physics | (i). Mechanics (ii). Electricity and Magnetism (iii). Thermal Physics and Statistical Mechanics (iv). Wave and Optics (v). Digital, Analog Circuit and Instrumentation (vi). Elements of Modern Physics (vii). Mathematical Physics (viii). Solid State Physics (ix). Quantum Mechanics (x). Embedded Systems: Introduction to Microcontrollers (xi). Nuclear and Particle Physics. | Project work |
| Statistics | Statistical data analysis using software package, Statistical technique for research method. | (i). Operation Research (ii). Time Series Analysis (iii). Demography and Vital Statistics (iv). Project Work | (i). Statistical Method (ii). Introductory Probability (iii). Basic of Statistical Inferences (iv). Applied Statistics | Project work |

| | | | | |
|---------------------|---|--|---|------------------------------|
| Zoology | Apiculture, Medical Diagnostic | (i). Biology of insects (ii). Parasitology (iii). Fish and Fisheries (iv). Immunology | (i). Aquatic Biology (ii). Environment and Public Health (iii). Human Physiology (iv). Food, Nutrition and Health | Project and field work |
| Computer Science | PHP programming, Computer Graphics, Electronic commerce, Database Management System | N/A | (i). Computer Fundamentals (ii). MS. Office Tools (iii). HTML programming (iv). Web and E- Commerce Technologies | Project work |

How does the college ensure that the curriculum developed address the needs of the society and have relevance to the regional / national developmental needs?

The present curriculum ensures the three important components for the students. These components are (i) Employability (ii) Innovation and (iii) Research

To what extent does the College use the guidelines of the regulatory bodies for developing or restructuring the curricula? Has the College been instrumental in leading any curricular reform, which has created a national impact?

The college has adopted the UG curriculum as per the CBCS template suggested by the UGC with a modification of courses, ranging from 10-20%. The total credit is 140. **We feel that the college is few institutes in the country which has implemented the CBCS in its undergraduate program.** The detail of the structure of the CBCS is provided in the Table below

1.2 Academic Flexibility

Give details on the following provisions with reference to academic flexibility

(a) Core / Elective options

The present curriculum, based on CBCS, has sufficient academic flexibility in

| Table 1.2; Template for CBCS | | | | | | |
|---|--------------------|-----------------------|--------------|-------------------|-----------------------|--------------|
| Component of the course | Credits* | | | | | |
| | Theory + Practical | | | Theory + Tutorial | | |
| | Paper Type | Credit for each paper | Total credit | Paper Type | Credit for each paper | Total credit |
| Core papers (14 papers) | Theory | 4 | 14x4 =56 | Theory | 5 | 14x5=70 |
| | Practical | 2 | 14x2 =28 | Tutorial | 1 | 14x1=14 |
| Discipline Specific Elective (4 papers) | Theory | 4 | 4x4 =16 | Theory | 5 | 4x5=20 |
| | Practical | 2 | 4x2 =8 | Tutorial | 1 | 4x1=4 |
| Generic elective/interdisciplinary (4 papers) | Theory | 4 | 4x4 =16 | Theory | 5 | 4x5=20 |
| | Practical | 2 | 4x2 =8 | Tutorial | 1 | 4x1=4 |
| Ability enhancement elective (discipline wise) (2 papers) | | 2 | 2x2 =4 | | 2 | 2x2=4 |
| Ability enhancement Compulsory | | 2 | 2x2=4 | | 2 | 2x2=4 |
| Total credit | | | 140 | | | 140 |

terms of core/elective papers, namely core courses (84 credits) in addition to Discipline specific elective (24 credits), Generic elective (24 credits), ability enhancement electives (4 credits) and ability enhancement compulsory (4 credits). The total credit offered for the Honours course is 140. The detail course structure is as follows. Wherever there is practical, there will be no tutorial and vice-versa

(b) Enrichment courses

Electronics circuit repairing and design

Floriculture

Apiculture

Course on Computer Concept (CCC)

(c) Courses offered in modular form

The add on course is of modular form of two credits each.

(d) Credit transfer and accumulation facility

At present there are no credit transfer and accumulation facility. As such, there is no uniformity in the curriculum in the country, there is little scope in the credit transfer. But it is a step forward to achieve this goal.

(e) Lateral and vertical mobility and across programmes and courses

With the introduction of PG programs in six subjects (Anthropology, Botany, Geology, Mathematics, Physics and Zoology) from 2016-2017 academic session, there will be an option for vertical mobility of the students within the program. For lateral mobility there is no option within and across the programs and courses.

Have any courses been developed specially targeting international students? If so, how successful have they been? If 'no', explain the impediments.

As of now, no.

Does the College offer dual degree and twinning programmes? If yes, give details.

No

Does the College offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?

As of now, no.

Has the College adopted the Choice Based Credit System (CBCS)? If yes, how many programmes are covered under the system?

Yes. At present the college has introduced the CBCS in the undergraduate program. The college provides honours program in 10 disciplines, namely Anthropology, Botany, Chemistry, English, Geology, Geography, Mathematics, Physics, Statistics, and Zoology. In the near future, CBCS as may be suggested under the national framework, will also be introduced in the PG program.

What percentage of programmes offered by the College follow:

- * Annual system: 0%
- * Semester system: 100%
- * Trimester system: 0%

What is the policy of the College to promote interdisciplinary programmes? Name the programmes and what is the outcome?

At present there is no full fledged interdisciplinary program in the college. In the near future interdisciplinary program will be added to the curriculum.

1.3 Curriculum Enrichment

How often is the curriculum of the College reviewed for making it socially relevant and/or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?

Before the autonomous status the college was following the syllabus prescribed by the NU for its affiliated colleges. The last syllabus was effective from the academic session 2012. Under the autonomous status (awarded in 2014), the college constituted its own Board of Studies (BOSs) and other statutory bodies. It was decided to introduce the CBCS as per the national framework for the UG program. The whole process resulted in the introduction of CBCS curriculum from the academic session 2016-17 onward. Effectively, it took six years to review the curriculum. Under the autonomous system, now there is a provision to review the curriculum in two years. Similarly, the curriculum for the PG program in six departments is also introduced from the academic session 2016-17 onward.

How many new programmes have been introduced at UG and PG levels during the last four years? Mention details.

- * **Interdisciplinary:** None
- * **Programmes in emerging areas:** None

What are the strategies adopted for revision of the existing programmes? What percentage of courses underwent a major syllabus revision?

In the academic session 2014-15, for the first batch of undergraduate students under the autonomous system, the college continued with the syllabus in operation under the affiliating system. In the academic year 2016-17, the college has adopted a new syllabus under CBCS in its undergraduate program. The new CBCS has completely different structure and credit systems compared to the syllabus of 2014-15 session. Broadly, the syllabus under CBCS consists of 140 credits, whereas under the old syllabus it was of total 120 credits. As far as the structure of the course is concerned, it is completely a new curriculum, making it around 100% change.

What are the value-added courses offered by the College and how does the College ensure that all students have access to them?

The college offers add-on courses in the following three disciplines of 2 credit each.

Electronics circuit repairing and design (offered by the department of Physics)

Floriculture (offered by the department of Botany)

Apiculture (offered by the department of Zoology)

In addition to these three courses, the college also offers a module course on Computer Science i.e. Course on Computer Concepts (CCC). This course is offered by the Computer Science department of the college in collaboration with the National Institute of Electronics & Information Technology (NIELIT), Kohima, an Autonomous Scientific Society under the administrative control of Ministry of Electronics & Information Technology Government of India. This course is designed to provide a basic level IT Literacy programme to the students. In future, there is a plan to introduce more add on courses in other disciplines also in order to give more access to the students.

Has the College introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?

At undergraduate level, the syllabus under CBCS takes care of the skill development aspect. Please refer the section 1.1.4 and Section 1.2 for details.

1.4 Feedback System

1.4.1 Does the College have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

Yes, through a set of questionnaires. Feedback on the curriculum is taken from the students through a set of total of seven questions along with the overall rating. It may be mentioned that the feedback was on the previous syllabus, which college inherited from the NU during the transition from an affiliated college to autonomous status. The college has adopted a new curriculum from the academic session 2016-17 as a CBCS according to the template provided by the UGC. The details of the analysis of the feedback are furnished below. Overall, 80% of the samples have rated the syllabus as “Satisfactory”, which is a grade C. The results from the said feedback also justify the transition from the old curriculum to new CBCS.

| Table 1.3: Students Feedback on the Previous UG Syllabus | | | | | |
|---|---|----------------|-----------|-------------------|---------------------|
| Sl. No. | Parameters | A Very good | B Good | C Satisfactory | D Unsatisfactory |
| 1 | The Depth of the course content, including project work if any | 00 | 40% | 60% | 00 |
| 2 | Extent of coverage of course | 00 | 80% | 20% | 00 |
| 3 | Applicability/relevance to real life situations | 00 | 00 | 40% | 60% |
| 4 | Learning value (in terms of knowledge, concepts, manual skills, analytical abilities and broadening perspectives) | 00 | 20% | 60% | 20% |
| 5 | Clarity and relevance of textual reading material. | 00 | 20% | 60% | 20% |
| 6 | Relevance of additional source material (Library) | 00 | 00 | 20% | 80% |
| 7 | Extent of effort required by students | 20% | 00 | 80% | 00 |
| 8 | Overall rating | | 20% | 80% | |

1.4.2 Does the College elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods adopted to do the same - (conducting webinar, workshop, online forum discussion etc.). Give details of the impact on such feedback.

The college has sought the independent feedback on the curriculum from subject experts from other universities through e-mail communication from the HOD (Chairman of board of Studies) of each department. As the college has adopted the new CBCSs, the feedback from the external subject expert on the curriculum is by and large positive.

| Table 1.4: Name of the experts for comments on the newly adopted UG and PG syllabus | | |
|--|-------------------|--|
| Sl. No | Department | Name and address of the expert to whom Syllabus is sent for review |
| 1. | Anthropology | Dr. Lucy Zehol Head, Department of Anthropology, NEHU, Shillong |
| 2. | Botany | Prof. A K Misra Department of botany NEHU, Shillong Prof Chitanarayan Department of botany NEHU, Shillong |
| 3. | Chemistry | Prof. R. K. Bhobon Singh Department of Chemistry Manipur University, Imphal, Manipur |
| 4. | English | Dr. N Das Head, Dept. of English, NU |
| 5. | Geography | Dr. Hombok Head, Dept. of Geography, NEHU |
| 6. | Geology | Prof. N. Pandey HOD, Department of Earth Sciences, Assam University. |
| 7. | Mathematics | Prof. B.R. Sarma Department of Mathematics, Dibrugarh University, Dibrugarh Assam |
| 8 | Physics | Abhijeet Das, Assistant Professor |

| | | |
|-----|------------------|--|
| | | Assam University (Diphu campus) |
| 9. | Statistics | Prof. Jiten Hazarika Department of Statistics Dibrugarh University, Dibrugarh, Assam |
| 10. | Zoology | Dr. J. Meren Ao, Principal, St. John College, Dimapur, Nagaland |
| 11. | Computer Science | Prof. B S Purkayastha, Dept. of Computer science, Assam University, Silchar |

1.4.3 Specify the mechanism through which alumni, employers, industry experts and community give feedback on curriculum enrichment and the extent to which it is made use of.

At present, feedback is sought from the students and subject experts from other universities. Alumni participate in the curriculum development process as members of the board of studies of each department.

1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the institution in ensuring effective development of the curricula?

The college has already completed the process of change in favour of the CBCS. The feedback from the experts have already been sought. From the coming session onward, the process will start to get feedback on the CBCS from the students. The college will also look for guidance and instruction from the UGC through its website (www.ugc.ac.in)

Any additional information regarding Curricular Aspects, which the institution would like to include.

The college is exploring possibility to change the existing M.Sc course (4 semester) to an integrated M.Sc program (10 semesters) coupled with the undergraduate program.

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CRITERION II: TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 How does the College ensure publicity and transparency in the admission process?

The College ensures wide publicity to the admission process through

- (i). Advertisements in the mass media (local newspapers)
- (ii). Announcement on the College website
- (iii). Sale of prospectus

Transparency is ensured through strict adherence to the admission policy of the College. The process is overseen by the Admission Committee. The selection is done through a tightly regulated Entrance Examination conducted by the Examination Committee.

Table 2.1: Composition of Admission Committee

| Sl. No. | Name | Designation |
|---------|------------------------------|------------------|
| 1 | Aier I A, (Principal) | Convener |
| 2 | Longkumer Y (Vice Principal) | Member Secretary |
| 3 | Megoneitso | Member |
| 4 | Zao V | Member |
| 5. | Sema L | Member |

2.1.2 Explain in detail the process of admission put in place for UG, PG and Ph.D. programmes by the College. Explain the criteria for admission.

The process is overseen by the Admission Committee. The selection is done through a tightly regulated Entrance Examination conducted by the Examination Committee. The Entrance Examination is conducted using 3 (three) series of question papers to ensure that no unfair means is practised in the examination halls. The questions are of MCQ type with negative marking. The candidates answer in OMR sheets. The result is declared by the midnight of the examination day itself and posted on the College website and on the campus notice boards. Three lists are published:

- (i). Overall results giving the scores obtained by each candidate.
- (ii). Selected list in order of merit.

(iii). Waiting list in order of merit.

Admission is done on the day, the results are announced in order of merit. If some selected candidates forfeit their seats, the vacant seats are filled up the next day by those on the waiting list in order of merit.

2.1.3 Does the College have a mechanism to review its admission process and student profiles annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

Yes, The admission committee monitors the number of the received applications from the eligible candidates and their rejection in the entrance exams for each honours course. It was observed that year wise the numbers of rejected applications were increasing due to limited intake capacity of 30 students in each course. On the basis of this observation, the intake capacity of the students in each honours course is increased to 50 with the upgradation of the infrastructure facility.

2.1.4 What are the strategies adopted to increase / improve access to students belonging to the following categories

*** SC/ST**

The college provides 15% reservation for SC and 7.5% reservation for ST candidates. Most of the students of the college are from the SC/ST group. The reservation policy of the Govt of Nagaland with respect to backward tribes of Nagaland is also applicable for the admission process.

*** OBC**

The college provides 27% reservation for OBC candidates.

*** Women**

The girl-boy ratio is healthy, therefore special reservation is not considered.

*** Different categories of persons with disabilities**

The college has special consideration for requests from this group of applicants.

*** Economically weaker sections**

They are given special consideration. The college has a “Samartian Fund” to provide financial assistant to economically challenged meritorious students. (for detail, please refer subsection 7.3.1 under best practices)

*** Outstanding achievers in sports and extracurricular activities**

None

2.1.5 Furnish the number of students admitted in the College in the last four academic years.

| Table 2.2: Number of Students admitted in the College during the last four academic years | | | | | | | | |
|--|----------------------------|-----------|----------------------------|----------|----------------------------|----------|----------------------------|----------|
| Categories | 1st Year | | 2nd Year | | 3rd Year | | 4th Year | |
| | M* | F* | M | F | M | F | M | F |
| SC | 05 | 03 | 04 | 03 | 03 | 02 | 04 | 09 |
| ST | 337 | 349 | 363 | 384 | 352 | 358 | 391 | 387 |
| OBC | 00 | 00 | 02 | 02 | 02 | 01 | 01 | 03 |
| General | 23 | 22 | 15 | 17 | 15 | 10 | 12 | 04 |
| Others | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |

*M: Male; F: Female

2.1.6 Has the College conducted any analysis of demand ratio for the various programmes offered by the College? If so, indicate significant trends explaining the reasons for increase / decrease.

No

2.1.7 Was there an instance of the College discontinuing a programme during last four years? If yes, indicate the reasons.

No

2.2 Catering to Student Diversity

2.2.1 Does the College organize orientation / induction programme for freshers? If yes, give details of the duration of programme, issues covered, experts involved and mechanism for using the feedback in subsequent years.

Yes. On the first day, an orientation programme is conducted for the freshers. The programme varies from year to year. Typically, the freshers are welcomed by the principal and the teachers. The annual student handbook is distributed to each of the students. Various presentations are given. These include a brief history of the college, an overview of the course structure of the programmes being offered, the various co-curricular activities on the campus, etc. The freshers are also offered a brief tour of the campus and a visit to the various departments.

2.2.2 Does the College have a mechanism through which the “differential requirements of student population” are analyzed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?

Basing on their performance in the Entrance Test and HSSLC Examination, the selected candidates are counseled on the spot, if and when necessary, on which subject combination would best suit them. Furthermore, since we have a higher secondary section, the students are sufficiently trained at this stage to cope with the degree programme. They are also pre-informed and motivated by the teachers as well as by the career-guidance cell about the subjects in the BSc programmes and the career prospects they offer.

2.2.3 Does the College provide bridge /Remedial /add - on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?

Yes, The mechanism of mentoring of the students is in place. A group of 10-15 students are attached to a teacher for their continuous interaction. Based on the performance in the entrance test and qualifying examination, every department provides necessary remedial help to students requiring it through additional interactions and assignments. In Addition, there are tutorial classes allotted in which students can get help from faculty members. The college also offers skill enhancement add-on courses in Floriculture (Botany), Apiculture (Zoology) and Electronics circuit designing and repairing (Physics) from 2014 academic session onward.. One course coordinator is nominated for each course. The First batch of the students has completed the course and the second batch is continuing. Each add-on course is of two credits. The classes for the course are conducted on Saturday afternoon during 14 to 16 hrs.

2.2.4 Has the College conducted a study on the incremental academic growth of different categories of students; - student from disadvantaged sections of society, economically disadvantaged, physically challenged and slow learners etc.? If yes, give details on how the study has helped the College to improve the performance of these students.

Students from disadvantage backgrounds are given extra attention in the mentoring programme by the respective departments. Under this mentoring program a group of students (around 10 students) is attached to a teacher. There are regular mentoring sessions conducted by the teachers. It is a newly introduced program and the analysis of the improvement in the performance of the students is yet to carry out.

2.2.5 How does the institution identify and respond to the learning needs of advanced learners?

The advanced learners are identified through their performance in the entrance test and the qualifying examinations and through their progress in the internal continuous evaluation. These learners are given added projects and assignments through which they receive preparations for an advanced study of the subject area they are good at and thus enable them to go beyond the curriculum as per their ability.

2.2.6 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

As and when the case arises, the concerned students are given additional attention by the concerned department and their special needs are taken care of. Recently all the departments were surveyed by the Social Welfare Department, Govt of Nagaland for catering to such special need. It is under process.

2.3 Teaching-Learning Process

2.3.1 How does the College plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan and evaluation blue print, etc.)

The basic teaching-learning and evaluation schedules are planned by the office of the principal in consultation with the IQAC. After its approval in a staff council meeting at the beginning of the academic session, it is circulated to all the departments. It is also published in the college prospectus. The syllabus is divided proportionately among the teachers or in accordance to their area of specialization as far as possible. Hard copies of the syllabi are made available to the students at a nominal cost at the beginning of the academic session. All facets vital for the holistic growth of the students are incorporated in the academic almanac. It includes a schedule of weekly tests, midterm and promotion examinations, declaration of examination results, seminars, freshers' and parting socials, sports and cultural week, field trips and filling of forms for examinations, etc. The college follows a grading system in evaluation. Students are continuously assessed through class tests, midterm, selection and promotion examinations, laboratory assignments, seminars, field study and report-writing. Teaching plan and evaluation blueprint are also highlighted to all the teachers during this meeting by the IQAC.

2.3.2 Does the College provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

Yes. The course outlines are given to the students during the orientation programmes at the beginning of the course. Additionally, at the beginning of every semester, the syllabus and the course schedules are given to the students. The course schedules are also published on the college notice boards and in the respective classrooms.

2.3.3 What are the courses which predominantly follow the lecture method? Apart from classroom interactions, what are the other methods of learning experiences provided to students?

In every course and subject, there is a theory as well practical components, the bulk of which is imparted to the students through the lecture method. In addition, each subject will have a practical component which is performed in the laboratories. In the UG program the theory component has 96 credits and practical component has 44. Other methods of learning are student seminars, project works and field studies.

A good number of teachers use modern teaching aids such as interactive boards with supporting DLP/LCD projectors and laptops to deliver seminar-like method of teaching. Power point presentation and computer animated materials are used to enhance teaching-learning experience, especially when dealing with complex topics like 3D structure of molecules, shapes, etc. This method is apparently enjoyed by students and leaves more time for interaction. It is supplemented with home assignments on the topics taught to make students write notes at home.

Intensive field trips lasting 1 to 7 days, depending on the departments and courses are organised on an annual basis. Fieldworks promote experiential learning for students and improves student-teacher rapport. After the trip, students are supervised on writing a project report on the field experience.

2.3.4 How is 'learning' made more student-centric? Give a list of participatory learning activities adopted by the faculty that contribute to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

Several activities have been adopted in different departments to make 'learning' student-centric. Such participatory learning activities are:

- In some courses, certain portions are allotted to the students to be managed by themselves. The students are guided through the process, given the detailed topic outlines, reference book and reading work.
- Accompanying assignments and projects are given out and these are carefully assessed and graded.
- Open tests are conducted in which students are allowed to use reference notes. These tests are structured in a way to really test the learning progress of the students.
- Certain projects are given out to be done in groups which help in academic cooperation among the students.
- Projects that are introductions to research work are also given in several honours papers which inculcate in the students an interest in experiments and research.
- Seminars, group discussions, peer group teaching, etc. are conducted.

- The college provides various platforms such as the Students' Union, NSS, NCC, EU, Students Clubs (Nature, Science, Literary, and Photography). Students are encouraged to actively plan and organise annual events like WinFest, Freshers' and Parting Socials, Special Camping, Summer Camps etc. Special provisions are made for students to attend Summer Mega Camps, *Sainik* Camps, Inter-Collegiate events etc.
- The group assigned topical issues are debated.

2.3.5 What is the College policy on inviting experts / people of eminence to provide lectures / seminars for students?

The college has an open and receptive policy. The college invites experts from other institutes who are eminent and renowned in their area of expertise. (For detail, please refer subsection 3. 1.6)

2.3.6 What are the latest technologies and facilities used by the faculty for effective teaching? Ex: Virtual laboratories, e-learning, open educational resources, mobile education, etc.

Nine classrooms have been fitted with a LAN-linked interactive smart boards, LCD projectors and supporting laptops. Other facilities include overhead and slide projectors. Study materials are also provided. Students also benefit from the library and high-speed Internet connectivity. The college also has the EDUSAT transmission hub on a trial basis.

2.3.7 Is there a provision for the services of counsellors / mentors/ advisors for each class or group of students for academic, personal and psycho-socio guidance? If yes, give details of the process and the number of students who have benefitted.

Each department has a mentoring programme. Each student is assigned one of the faculty members as a mentor. Weekly/monthly meetings form part of this programme. Students find help in their academic as well as personal challenges through these programmes. Each department also imparts career guidance to their respective students on an annual basis.

The college also has a Career Guidance and Student Counselling Cell which regularly conducts programmes, seminars and professional counselling clinics for the students.

2.3.8 Are there any innovative teaching approaches/methods/ practices adopted/put to use by the faculty during the last four years? If yes, did they improve the learning? What methods were used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?

Some innovative teaching approaches employed by teachers are as follows:

- In some courses, certain portions are allotted to the students to be managed by themselves. The students are guided through the process, given the detailed topic outlines, reference book and reading work.
- Accompanying assignments and projects are given out and these are carefully assessed and graded.
- Open tests are conducted in which students are allowed to use reference notes. These tests are structured in a way to really test the learning progress of the students. Open tests have been popular with students, especially in aiding self-assessment when encountering a new topic in their course.
- The departments conduct internal tests to gauge the impact of these practices. Students' feedback is also collected by the college on teachers and departments, at the end of the academic year to assess these practices.

These methods have shown promising results in terms of improving learning and engagement of students. Departments and teachers employing innovative methods successively are well commended by the college through the Annual Performance Appraisal Report (APAR) by the principal. The reports are sent annually to the Department of Higher Education, the nodal department.

2.3.9 How does the College create a culture of instilling and nurturing creativity and scientific temper among the learners?

The college makes an attempt to create a culture of instilling and nurturing creativity and scientific temper among the learners. Candidates making

substantial achievements are annually awarded in several departments (Please refer table in section 5) . The college also promotes various clubs, namely science club, nature club, literary club and photography club for nurturing the creativity amongst the students.

2.3.10 Does the College consider student projects a mandatory part of the learning programme? If so, for how many programmes is it made mandatory?

Projects are mandatory in all the subjects offering honours programme.

*** Number of projects executed within the College**

Annually, all the nine departments, offering an honours programme, make projects a mandatory part of one or more of their papers. The number of projects varies according to the departments varying from 5 to 10 in a department.

*** Names of external institutions associated with the College for student project work**

At present, none

*** Role of the faculty in facilitating such projects**

Each project is allotted and guided by the concerned teacher.

2.3.11 What efforts are made to facilitate the faculty in learning / handling computer-aided teaching/ learning materials? What are the facilities available in the College for such efforts?

Training sessions and workshops are conducted periodically for the faculty members to handle smart boards and other computer aided gadgets. Nine classrooms have been fitted with a LAN-linked interactive smart boards, LCD projectors and supporting laptops. The IT and Technical committee facilitates the training program in handling the computer related material. The library committee also organizes the session to impart the training on the use of the INFLIBNET facility in the library. For teaching purposes, soft copies of the study materials are also provided to the students. . Students also benefit from the library and high-speed internet connectivity.

2.3.12 Does the College have a mechanism for evaluation of teachers by the students / alumni? If yes, how is the evaluation used in achieving qualitative improvement in the teaching-learning process?

Two types of teacher-evaluation by students are conducted by the college annually. These are:

- Evaluation of each teacher by the students in the classes he/she goes to.
- Evaluation of the college as a whole, the respective departments and the teachers by the outgoing students/alumni on completion of their respective courses.

The feedback collected and received by the college and the concerned department/teacher has been found invaluable in self-assessment of performance and perception, mid-course correction, and overall improvement of the teaching-learning process.

2.3.13 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If yes elaborate on the challenges encountered and the institutional approaches to overcome these.

The amount of material that is required to be covered in a course, the number of teaching hours available, the required evaluation days, the necessary amount of co-curricular and extra-curricular activities, all of these are competing elements in the academic schedule. The college over the years has been successfully maintaining a balance in all aspects and meeting the challenges of completing the curriculum through proper planning.

2.3.14 How are library resources used to augment the teaching-learning process?

The central and respective departmental libraries are valuable resources for the teachers as well as the students. The libraries have books, journals, field reports, laboratory notebooks, topo-sheets and maps, old records etc. Reprographic and ICT facilities are also available. The College has an INFLIBNET facility where teachers and students can have free access to e journals and e-books. The teachers and the students regularly make use of these books and journals for seminars, lectures and researches.

These facilities are managed by the librarians, teachers-in-charge and the library staff. Every programme is structured with accompanying textbooks and reference books all of which are made available in the library.

2.3.15 How does the institution continuously monitor, evaluate and report on the quality of teaching, teaching methods used, classroom environments and the effect on student performance?

The institution continuously monitors and evaluates the quality through feedback collected from the students through the developed questionnaires. The process is coordinated by the IQAC which meets frequently to discuss the state of progress on all fronts that affect the quality and performance of the students as well as the institution itself. The whole process has resulted to develop a mentoring system, where a group of 10-15 students are attached to a teacher for their regular interaction.

2.4 Teacher Quality

2.4.1 What is the faculty strength of the College? How many positions are filled against the sanctioned strength? How many of them are from outside the state?

The college has a faculty strength of 102 teachers. All the sanctioned posts have been filled. 18 are from outside the state.

2.4.2 How are the members of the faculty selected?

Vacant posts are advertised in the newspapers and over local radio. The members of the faculty are selected as per the existing UGC guidelines through tests and interviews conducted by the Nagaland Public Service Commission (NPSC).

2.4.3 Furnish details of the faculty

| Table2.3: Number of faculty position in the college | | | | | | | |
|--|------------------|-----------|----------------------------|----------|----------------------------|----------|--------------|
| Highest Qualification | Professor | | Associate Professor | | Assistant Professor | | Total |
| | M* | F* | M | F | M | F | |
| | | | | | | | |

| Permanent Teachers: 83 | | | | | | | |
|--------------------------------|----|----|----|----|----|----|----|
| D.Sc./D.Litt | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| Ph.D | 00 | 00 | 03 | 03 | 11 | 02 | 19 |
| M.Phil | 00 | 00 | 00 | 00 | 00 | 01 | 01 |
| PG | 00 | 00 | 13 | 07 | 24 | 19 | 63 |
| Temporary Teachers: 17 | | | | | | | |
| D.Sc./D.Litt | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| Ph.D | 00 | 00 | 00 | 00 | 03 | 03 | 06 |
| M.Phil | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| PG | 00 | 00 | 00 | 00 | 03 | 08 | 11 |
| Part Time Teachers: Nil | | | | | | | |
| D.Sc./D.Litt | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| Ph.D | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| M.Phil | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| PG | 00 | 00 | 00 | 00 | 00 | 00 | 00 |

M: Male; F: Female

2.4.4 What percentage of the teachers have completed UGC-CSIR-NET, UGC-NET, and SLET exams? In that what percentage of teachers are with PG as highest qualification?

There are total 83 permanent faculty members. Out of which around 15% of the teachers have completed UGC-CSIR-NET/UGC-NET/ SLET exams. 77% of the teachers (including the NET) have PG as the highest qualification. Some of these teachers have M Phil also.

2.4.5 Does the College encourage diversity in its faculty recruitment? Provide the following departments-wise details.

The diversity of the College is achieved as per the reservation and recruiting policies of the Government of Nagaland.

| Table 2.4: Diversity of the faculty | | | | |
|--|---|--|---|---------------------------------|
| Department | % of the faculty who are the product of the same college | % of the faculty from other colleges within the state | % of the faculty from other states | % of faculty from abroad |
| Anthropology | 100 | 00 | 00 | 00 |

| | | | | |
|------------------|-----|----|-----|----|
| Botany | 100 | 00 | 00 | 00 |
| Chemistry | 57 | 00 | 43 | 00 |
| Computer Science | 67 | 00 | 33 | 00 |
| English | 17 | 83 | 00 | 00 |
| Geography | 100 | 00 | 00 | 00 |
| Geology | 100 | 00 | 00 | 00 |
| Mathematics | 56 | 11 | 33 | 00 |
| Physics | 60 | 00 | 40 | 00 |
| Statistics | 00 | 00 | 100 | 00 |
| Zoology | 100 | 00 | 00 | 00 |

2.4.6 Does the College have the required number of qualified and competent teachers to handle all the courses for all departments? If not, how do you cope with the requirements? How many faculty members were appointed during the last four years?

The College has the required number of qualified and competent teachers to handle all the courses offered by the college. 14 faculty members were appointed in the last four years.

2.4.7 How many visiting Professors are on the rolls of the College?

None.

2.4.8 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, nomination to national/ international conferences/Seminars, in-service training, organizing national/international conferences etc.)

A teacher is provided with a study leave of three years with full pay to undertake research (Ph.D.) work. The management also grants post-doctoral study leave with full pay. The authority encourages the faculty to attend national and international conferences and present papers in these. They can attend other professional development programmes such as workshops, seminars, orientation programmes, refresher courses etc. at any time of the year.

2.4.9 Give the number of faculty who received awards / recognitions for excellence in teaching at the state, national and international level during the last four years.

None

2.4.10 Provide the number of faculty who have undergone staff development programmes during the last four years. (Add any other programme if necessary)

| Table 2.5: participation of the faculty in the Academic Development Program | |
|--|--------------------------|
| Academic Staff Development Programmes | Number of faculty |
| Refresher courses | 21 - Table 2.6 (a) |
| HRD programmes | 12 - Table 2.6 (b) |
| Orientation programmes | 02 -Table 2.6 (c) |
| Staff training conducted by the College | All - Table 2.6 (d) |
| Staff training conducted by University/ other Colleges | 18 - Table 2.6 (e) |
| Summer / winter schools, workshops, etc. | 14 -Table 2.6 (f) |
| Any other (please Specify) | |
| Seminar/conference conducted by the college and | All -Table 2.6 (g) -i |
| seminar/conference conducted by other university/college | 22 -Table 2.6 (g) -ii |

| Table 2.6 (a): Refresher Courses attended (2012-2015) | | | | |
|--|--|---|-------------------------------------|---|
| Sl. No | Name | Course | University | Duration |
| 1. | Odyuo A (<i>Geology</i>) Nuh M K (<i>Geology</i>) Veyie N M (<i>Computer Sci</i>) | Refresher course in Geography (Interdisciplinary) | NEHU-ASC Shillong | Nov 28 th –Dec 18 th , 2016 |
| 2. | Neikha T, Therie W (<i>Botany</i>) | Refresher course in Botany | ASC Mizoram University Aizwal | Nov 26 th –Dec 20 th , 2016 |
| 3. | Nyienu V, Imlisunep (<i>Physics</i>) | Refresher Course in Physics | JNU- ASC New Delhi | Aug 29 th – Sep 23 rd , 2016 |

| | | | | |
|-----|---|---|--|--|
| 4. | Barman P (Statistics) | Refresher Course <i>Disaster Management (ID)</i> | GU-ASC - Guwahati | March 10 th – March 30 th , 2014 |
| 5. | Kachhara C (Physics) | Refresher Course <i>Information & Communication Technology (ID)</i> | MU-ASC University of Mumbai | 27 Jan – 15 Feb, 2014 |
| 6. | Ali M J, Ahmed S F (Statistics) | Refresher Course <i>Mathematics & Statistics</i> | Guru Jambheshwar University of Science & Technology, ASC, Hisar | Dec 11 th – 31 st , 2013 |
| 7. | Konwar H (Mathematics) | Refresher Course in Mathematics | NEHU-ASC Shillong | March 18 th – April 07 th , 2013 |
| 8. | Limatemjen (Zoology) | Refresher Course <i>Zoology</i> | NEHU -ASC, Shillong | Nov 26 th – Dec 16 th , 2012 |
| 9. | Choudhury V K (Chemistry) | Refresher Course <i>Chemistry</i> | Kumaun University (KU), Nainital | Nov 19 th – Dec 09 th , 2012 |
| 10. | Ahmed S F (Statistics) | Refresher Course <i>Mathematics & Statistics</i> | Guru Jambheshwar University of Science & Technology, Hisar | Nov 02 nd – 22 nd , 2012 |
| 11. | Jamir T T, Kuotsu N B, Longkumer R (Multidisciplinary) | Refresher Course <i>Environmental Science</i> | JNU –ASC New Delhi | April 02 nd – 27 th , 2012 |
| 12. | Meyase T G (Mathematics) | Refresher Course <i>Mathematics</i> | NEHU -ASC, Shillong | March 22 nd – April 11 th , 2012 |
| 13. | Puro S (Geography) | Refresher Course <i>Natural Resource Management & Earth Sciences</i> | Mizoram University, ASC Aizawl | March 15 th – April 4 th , 2012 |
| 14. | Ali M J (Statistics) | Refresher Course <i>Environmental Science (ID)</i> | University of Kerala, ASC Trivendrum | Feb 1 st – 22 nd , 2012 |

**Table 2.6 (b): HRD Programmes attended
(2012-2016)**

| Sl. No | Name | Course | University | Duration |
|--------|---|---|--|---|
| 1. | Ahmed S F, (Statistics) Konwar H (Mathematics) | Short-term course on Disaster Management (Interdisciplinary) | UGC, HRD Centre University of North Bengal, Darjeeling | Nov 13 th – 19 th , 2015 |

| | | | | |
|-----|---|---|-----------------------------------|--|
| 2. | Punyü K, (<i>Chemistry</i>) Whiso S (<i>English</i>) | Special Winter School (<i>Interdisciplinary</i>) | UGC, HRD Centre NEHU, Shillong | Oct 26 th – Nov 15 th , 2015 |
| 3. | Jamir T T (<i>Chemistry</i>) Ali M J (<i>Statistics</i>) | Short-term Course in Environmental Sciences (<i>Interdisciplinary</i>) | UGC, HRD Centre NEHU, Shillong | Oct 05 th – 10 th , 2015 |
| 4. | Remmei K, (<i>Zoology</i>) Vizo S, Choudhary V K (<i>Chemistry</i>) | Short-term Course in Research Methodology (<i>Interdisciplinary</i>) | UGC HRD Centre NEHU, Shillong | Aug 17 th – 22 nd , 2015 |
| 5. | Pillai R V (<i>Chemistry</i>) | Short-Term Course in disaster Management (<i>Interdisciplinary</i>) | UGC-ASC, Univeristy of Kerala, | Feb 14 th -18 th , 2012 |
| 6.. | Angami D (<i>Zoology</i>) | Special Winter School (<i>Interdisciplinary</i>) | UGC-ASC NEHU, Shillong | Oct 20 th – Nov 19 th , 2014 |
| 7. | Pongener A (<i>Zoology</i>) | Certificate in Environmental Studies (<i>Interdisciplinary</i>) | IGNOU | New Delhi June 2012 |

Table 2.6 (c): Orientation Programmes Attended (2012-2016)

| Sl. No | Name | Course | University | Duration |
|--------|----------------------------------|-----------------------|-----------------------|--|
| 1. | Whiso S (<i>English</i>) | Orientation Programme | NEHU, ASC Shillong | Feb 4 th – March 3 rd , 2013 |
| 2. | Dzüvichü R (<i>English</i>) | Orientation Programme | NEHU, ASC Shillong | Feb 13 th – March 11 th , 2012 |

**Table 2.6 (d): Staff Trainings Conducted by the College
(2012-2016)**

| Sl No | Name | Name of event | Sponsoring Agency/ Organiser | Place & Dates |
|-------|---|--|--|---|
| 1 | Thirty five (35) faculty members from the various departments of the college. | A training program on ICT aided teaching | IQAC, KSCJ | KSCJ, Kohima Nov 15 th -18 th , 2016 |
| 2. | All the faculty members of the Botany department and the honours students | Awareness program on “Medicinal plant” under National Campaign on Medicinal plant | National Medicinal Plant Board, Ministry of Ayush, Govt of India and State Medicinal Plant Board, Nagaland | KSCJ, Kohima Nov 8 th , 2016 |
| 3. | All the faculty members of the college | One day workshop on “Research Methodology”. | IQAC, KSCJ | KSCJ, Kohima 14 th May, 2016 |
| 4. | Sharon J, Longkumer M, Puro S, Barman P, Longchar I, Ahmed S F | Workshop on “Official Statistics in North Eastern States” | ISI, Kolkota; KSCJ, Kohima | KSCJ, Kohima Nov 02 nd – 04 th , 2015 |
| 5. | Ao S, Meripeni Ezung M, Imlisunep, Choudhury V K, Jha R K, Sharma S, Whiso S | Introductory Workshop on Astronomy and Astrophysics | UGC- NERO, Guwahati; Dept. of Physics, KSCJ, Kohima | KSCJ, Kohima July 15 th , 2015 |
| 6. | Angami D, Doulo V, Dominic R (Zoology) | Workshop of Basic Scientific Bee Keeping | Dept. of Higher Education; Nagaland Beekeeping & Honey Mission; | Dept. of Zoology KSCJ, Kohima Oct 24 th – 27 th , 2014 |
| 7. | All the faculty members of the Physics department | A regional workshop on “ Basic Astronomy and telescope making for school children” | Inter University Consortium for Astronomy and Astrophysics (IUCAA), Pune | KSCJ, Kohima Sep 26 th -27 th , 2014 |
| 8. | All the faculty members of the college | Workshop on Methodology of Teaching | IQAC, KSCJ, Kohima | KSCJ, Kohima Sept 14 th , 2013 |

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|-----|---|---|--|---|
| 9. | Tetso D, Chase S, Vilehuno, Vizomeno, Changkakoti P, Sinha P | “One day workshop on Cyber Security” | IQAC KSCJ, Kohima & Computer Science Department | KSCJ, Kohima Aug 12 th , 2013 |
| 10. | All the faculty Members of the College | One day workshop on “Student Counselling for Faculty” | IQAC, KSCJ, Kohima | KSCJ, Kohima May 28 th , 2013 |
| 11. | Puro S, Longkumer R, Lohe S | GIS Training Certificate | Jiya Infotech, Kolkata | KSCJ, Kohima June 18 th – 20 th , 2013 |
| 12. | Sinha P, Longchar I, Barman P, Ali M J, Remmei K, Sharma S, Hesielle R, Vizo S, Chubarenla A, Lohe S, Longkumer A, Pienyü K, Linyü, K, Limatemjen, Nuh M, Doulo A, .Yanthan T, Ralimongla, Lily Sema L, Tiwari K K, Choudhury V K, Rhetso V, Kuotsu N B, Pongener A, Zao V, Nagi, Longkumer, Liezietsu M | Workshop on “Student Counselling for Faculty” | Student Counselling Cell, KSCJ | KSCJ, Kohima May 28 th , 2013 |
| 13. | Doulo V | Workshop on Screen Printing | KSCJ Printing Press | KSCJ, Kohima Oct 27 th , 2012 |
| 14. | Katinsinliu, Zao V, Pongen A, Doulo V, Angami D, | Workshop on Paper Recycling | Dept. of Zoology, KSCJ | KSCJ, Kohima Oct 13 th , 2012 |
| 15. | Ali M J, Sharma S, Kezo V, Linyü K, Longkumer R | Workshop on Mushroom Cultivation | Institutional Biotech Hub, DBT; Dept. of Botany, KSCJ | KSCJ, Kohima Sept 27 th , 2012 |

Table 2.6 (e): Staff Training Conducted by Other University/College (2012-2016)

| Sl No | Name | Name of event | Sponsoring Agency/ Organiser | Place & Dates |
|-------|--|--|---|--|
| 1. | Sharma S (<i>Physics</i>) | Forecasting Severe Convection I | European Severe Storm Laboratory (ESSL) | Wiener Neustadt, Austria June 20 th -24 th , 2016 |
| 2. | Yhor S (<i>Chemistry</i>) | Attended Pre Commission Course (PRCN-SD/160) | NCC-OTA, Kamptee | Nagpur, Jul 8 th – Oct 9 th , 2016 |
| 3. | Whiso S (<i>English</i>) | Orientation Course of NSS | Ministry of Youth Affairs & Sports, GoI | Indian Insitute of Entrepreneurship (IIE), Guwahati Feb 08 th – 14 th , 2015. |
| 4. | Dzüvichü R, Ms. Linyü K (<i>English</i>) | Orientation Course for Teachers of English | Dept. of English, NU | Alder College, Kohima May 3 rd – 4 th , 2014 |
| 5. | Angami D (<i>Zoology</i>) | Training of Trainers programme on social Harmony and National Unity | RGNIYD, NSS | Dimapur July 26 th – 30 th , 2014 |
| 6. | Longkumer M (<i>Anthropology</i>) | Training on “Gender Issue in Disaster Management” | Govt of Nagaland | ATI, Kohima, May 20 th – 22 nd May, 2014 |
| 7. | Pongener A (<i>Zoology</i>) | Training on “Rights of Persons with Disability” | ATI, Govt of Nagaland | Kohima May 16 th , 2014 |
| 8. | Angami D (<i>Zoology</i>) | Inter State Youth Exchange and Home Stay Programme | RGNIYD, NSS | Visakhapatnam Jan 22 nd – 31 st , 2014 |
| 9. | Sharma S (<i>Physics</i>) | Special Training course on Geoinformatics for Meteorology and Climatology Applications | IMS-DC; IIRS, ISRO | IIRS, Dehradun Nov 18 th – 29 th , 2013 |
| 10. | Teruno N | Community First Responder Training | Nagaland State Disaster Management | Kohima, Aug 29 th - |

| | | | | |
|-----|--|--|--|---|
| | | | Agency, Nagaland | 31 st , 2013 |
| 11. | Pienyü K (English) | Capacity Building of Women Managers in Higher Education: Sensitivity/Awareness/Motivation Workshop | UGC; NU | NU, Meriema campus July 16 th – 20 th , 2012 |
| 12. | Pongener A (Zoology) | Advanced Biblical Counseling – Level 1 | PTP Institute for Christian Counseling | Kohima July 2 nd – 7 th , 2012 |
| 13. | Linyü K, Whiso S, Longkumer A, . Dzüvichü R, Pienyü K (English) | Professional Development Program on Activating the EFL Classroom | Embassy of the USA, New Delhi | St. Joseph's College, Jakhama May 17 th – 18 th , 2012 |
| 14. | Whiso S (English) | Material Production of Clas-12 Textbook | NBSE, | ATI, Kohima Jan 17 th - 24 th , 2012 |

Table 2.6 (f): Workshops attended (2012-2015)

| Sl No | Name | Name of event | Sponsoring Agency/ Organiser | Place & Dates |
|-------|---|---|---|--|
| 1. | Moaakmu (Botany) | First Collaboration in Indian Chemical Ecology | DBT, Govt of India | TIFR, Bengaluru Sep 10 th - 13 th , 2016 |
| 2. | Aier I A, (Principal) Sharma S (Physics) | One day workshop on “National Academic Depository” | MHRD, Govt of India | Vigyan Bhawan, New Delhi, Sep 9 th , 2016 |
| 3. | Sharma S (Physics) | Workshop on “Effective use of space technology based tools” | Nagaland GIS & Remote Sensing Center, (Govt of Nagaland) and NESAC, Shillong, Dept. of Space Govt of India. | Capital Convention Centre, Kohima, 6 th April, 2016 |
| 4. | Aier I A, Sema, L Sharma S | Consultative meet on “National Education Policy” | Directorate of Higher Education, Nagaland | Conference Hall of the Directorate, 2015. |

| | | | | |
|-----|--|--|--|--|
| 5. | Sharma S (<i>Physics</i>) | One day workshop on “Quality Enhancement Initiatives” | Directorate of Higher Education, Nagaland | Capital Convention Centre, Kohima Sep 29 th , 2015 |
| 6. | Tetso D (<i>Anthropology</i>) | Short term course cum Workshop on “History, Science & Technology of Stone Beads” | Archaeology Science Centre IIT, Gandhinagar, | IIT, Gandhinagar Aug 10 th - 14 th , 2015 |
| 7. | Limatemjen (<i>Zoology</i>) | National Workshop on Applications of Biotechnology Tools and Bioinformatics | Institutional Biotech Hub & Bioinformatics Infrastructure Facility Centre, NU | NU, Lumami, March 30 th – April 4 th , 2015. |
| 8. | Ahmed S F (<i>Statistics</i>) | Workshop on “Statistical Meta Analysis and Assessment of Agreements” | Dept. of Statistics, DU, Dibrugarh | DU, Dibrugarh Jan 5 th , 2015 |
| 9. | Tetso D (<i>Anthropology</i>) | Regional Workshop on “Experimental Lithic Knapping & Microwear Studies” | Dept. of History & Archaeology, NU; ICHR, New Delhi | Dept. of History & Archaeology, NU March 15 th – 22 nd , 2014 |
| 10. | Sharma S (<i>Physics</i>) | Workshop on “Development of Micro-hydel Capability” | DST, GoI; Nagaland Science & Technology Council | Kohima Nov 21 st , 2012 |
| 11. | Sinha P (<i>Computer Science</i>) | NE Regional Workshop on Natural Language Processing | Dept. of Comp. Sc. & Eng., Sikkim Manipal Institute of Technology, Sikkim. Dept. Comp. Sc., Assam University, Silchar | Sikkim Manipal Institute of Technology, Sikkim Feb 21 st – 22 nd , 2014 |
| 12. | Pillai R V (<i>Chemistry</i>) | Workshop on “Profiling Research Publications for Quality Research” | Cochin University of Science & Technology (CUST) | Kochi Jan 3 rd , 2012 |
| 13. | Limatemjen (<i>Zoology</i>) | Workshop on “Improvement of Question Paper and Scoring Pattern” | Pearson Education India | NBSE, Kohima July 26 th – 27 th , 2012 |
| 14. | Sharma S (<i>Physics</i>) | Short Course on Millimeter Wavelength Radars | McGill University | Toulouse, France June 24 th , 2012 |

**Table 2.6 (g) –(i): Seminar/ Conference attended in the college
(2012-2016)**

| Sl No | Name | Name of event | Sponsoring Agency/ Organiser | Place & Dates |
|-------|--|---|--|---|
| 1. | Ao N M, Tiwari K K, Vizo S, Choudhary V K, Hiesiele R, Chubarenla A, Rhetso V, Yhor S, Jamir T T, Kibami D, Pillai R V. (Chemistry), Sema L (Geology) | National Level Seminar on Interdisciplinary Research in Chemical Sciences (NSIRCS-2016) | UGC and Dept. of Higher Education, Nagaland | KSCJ, Kohima, Sep 28 th -29 th , 2016 |
| 2. | Nagi K, Ayemi Z, Doulo V, Ezung M, Whiso S, Longkumer A, Kelhouletuonuo, Nakro S, Sharon K, Longkumer M, Khriekemhie-ü K. Mary L, Jamir R M, Angami D | National Seminar on “Cultural Heritage of Nagaland” | IGRMS, Bhopal; Dept. of Anthropology, KSCJ, Kohima | KSCJ, Kohima Sept 29 th – 30 th , 2015 |
| 3. | All the faculty members of the college | Seminar on “An insight of the administrative and academic management of an Autonomous College: a case study of St. Xavier College, Kolkata” | <i>IQAC</i> | KSCJ, Kohima Sep 2 nd , 2015, |
| 4. | All the faculty members of the college | Seminar on “CBCSs at Undergraduate level in the context of UGC National framework” | <i>IQAC</i> | KSCJ, Kohima Sep 2 nd , 2015 |
| 5. | Dzüvichü R, Longkumer A, Pienyü K, Whiso S, . Linyü K, Mekro V, Sema L, Ahmed S F, Longkumer M, Mary K, Nagi K, Jamir R M, Ali M J, Longchar I, Changkakoti P, | Seminar on “Society, Culture and Development: Emerging Issues in Nagaland” | The Asiatic Society, Kolkata; | KSCJ, Kohima March 14 th – 15 th , 2012 |

| | | | |
|--|-------------------|--|--|
| | Remmei K, Sinha P | | |
|--|-------------------|--|--|

| Table 2.6 (g)- (ii): Seminar/Conferences conducted by the other university /college (2012-2016) | | | | |
|--|---|---|---|---|
| Sl No | Name | Name of event | Sponsoring Agency/ Organiser | Place & Dates |
| 1. | Kapfo W (<i>Botany</i>) | Regional Conference on Higher Education | MHRD Govt of India | GU, Guwahati, April 18 th 2016. |
| 2. | Kapfo W, Jamir S, Wabang, Sema L, Nagi K, Vizo S, Whiso S, SharmaS (<i>Multi Department</i>) | 11 th symposium and Surin International Folklore Festival | Surindra Rajabhat University, Surin | Surindra Rajabhat University, Surin, Thailand Jan15 th - 25 th , 2016 |
| 3. | Jamir S, (<i>Botany</i>) Sema L (<i>Geology</i>) | Board meeting of the 11 th Surin International Folklore Festival and Symposium (SIFFS) | Surindra Rajabhat University (SRU) Surin, Thailand | Surindra Rajabhat University (SRU) Surin, Thailand Jan 18 th , 2016 |
| 4. | Doulo V (<i>Zoology</i>) | National seminar on “National Education Policy Perspective” | State College of Teacher Education and Dept. of Education, NU | State College of Teacher Education, Kohima, Sep 12 th – 13 th , 2013. |
| 5. | Moaakum (<i>Botany</i>) | National Conference on ‘Recent Trends in Plant Diversity and Conservation Strategies’ | East Himalayan Society for Spermatophyte Taxonomy. | Department of Botany, NU, Lumami, Sept 29 th – 30 th , 2012, |
| 6. | Kapfo W (<i>Botany</i>) | National Conference on ‘Recent Trends in Plant Diversity and Conservation Strategies’ | East Himalayan Society for Spermatophyte Taxonomy | Department of Botany, NU, Lumami, Sept 29 th – 30 th , 2012, |

| | | | | |
|-----|--|--|---|--|
| 7. | Pillai R V (<i>Chemistry</i>) | National Seminar on “Recent Advances and Future Challenges in Geochemistry & Geophysics: the Indian Scenario” | Dept. of Geology, Centre of Advanced Study, BHU, Varanasi | BHU, Varanasi 2012 |
| 8. | Sinha P (<i>Computer Science</i>) | National Seminar on “Ethnic Integration in the NE India: Issues & Challenges” | UGC; Dept. of Political Sc., Netaji Subhash Mahavidyalaya, Udaipur, Tripura | Udaipur, Tripura Dec 21 st – 22 nd , 2012 |
| 9. | Sinha P (<i>Computer Science</i>) | Seminar on “Good Governance in Tripura: Issues & Prospects” | Dasaratha Deb Memorial College, Khowai, Tripura | Khowai, Tripura Dec 7 th – 8 th , 2012 |
| 10. | Meyase T G (<i>Mathematics</i>) | Seminar on “Mathematics in India: Past, Present & Future” | DEO, Govt of Nagaland | Baptist High, Kohima August 3 rd , 2012 |
| 11. | Ali M J, (<i>Statistics</i>) | NE Graduate Congress | University of Science & Technology, Meghalaya; CSIR-NEIST, Jorhat | Regional Institute of Science & Technology, Baridua May 29 th – 30 th , 2012 |
| 12. | Jamir T T (<i>Chemistry</i>) | National Seminar on Materials Science | UGC; School of Agricultural Scienc & Rural Development, NU | Patkai Christian College (Autonomou s), Chumukedim a – Seithekiema Feb 17 th – 18 th , 2012 |
| 13. | Whiso S (<i>English</i>) | National Level Seminar on “Writing and its Interdisciplinary Nature” | UGC; Nagaland College Principals’ Forum; | Tetso College, Dimapur Feb 03 rd – 04 th , 2012 |
| 14. | Sema L (<i>Multidisciplinary</i>) | Seminar on “Life & Work of Rabindranath Tagore” | Indigenous Cultural Society, Nagaland; Ministry of Culture, GoI | Dimapur Jan 13 th – 14 th , 2012 |

2.4.11 What percentage of the faculty have

*** been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies**

2%

*** participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies**

81%

*** presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies**

39%

*** teaching experience in other universities / national institutions and others**

Nil

*** industrial engagement**

None

*** international experience in teaching**

1% (Under the short term visit to Dept of Environmental Sciences, Busan National University, South Korea)

2.4.12 How often does the College organize academic development programmes for its faculty, leading to enrichment of teaching-learning process?

* Curricular Development

02: . Please refer Table 2.6 g (i) (serial no. 3, 4)

* Teaching-learning methods

03: Please refer Table 2.6 d (serial no.1, 3, 8)

* Examination reforms

01: Please refer Table 2.6 g (i) (serial no. 3)

* Content / knowledge management

Nil

* Any other (please specify)

Please refer Table 2.6 (d)

The college deputed five faculty members from the college including the controller of examinations to visit St. Xavier college Kolkata) during 2015. The team studied the academic and administrative management of an Autonomous college and

its examination system. Detail report was present in the staff council meeting on Aug 17th -18th, 2015.

2.4.13 What are the teaching innovations made during the last five years? How are innovations rewarded?

The following initiatives have been taken for teaching innovation

- Introduction of CBCSs at undergraduate level from the academic session 2016-17 onward
- Use of ICT facilities in the honours courses
- Introduction of the project/dissertation work and student seminar
- Providing the soft copy of the class lecture notes

These initiatives have resulted in the improvement of the teaching learning environment.

2.4.14 Does the College have a mechanism to encourage

*** Mobility of faculty between institutions for teaching?**

*** Faculty exchange programmes with national and international bodies?**

If yes, how have these schemes helped in enriching quality of the faculty?

No

2.5 Evaluation Process and Reforms

2.5.1 How does the College ensure that all the stakeholders are aware of the evaluation processes that are operative?

The Rules and Regulations of Examination are published and the copy is made public to all departments and students. The examination and test schedules for the year/semester is published and notified well in advance. The relevant dates are published in the academic calendar at the beginning of the session itself.

2.5.2 What are the major evaluation reforms initiated by the College and to what extent have they been implemented in the College? Cite a few examples which have positively impacted the evaluation management system?

Evaluation reforms initiated by the college include:

- Semester system was introduced with evaluation, including 30% for internal assessment.
- Introduction of grading system. The college started with an absolute grading system and is working to start using the relative grading system soon.
- Recognition of the course attendance of the students during the evaluation process.
- The use of Scoring Sheets for evaluation during the external evaluation.

The semester system has enabled students to study more topics in their respective subjects in each programme. This has also resulted in evaluation, which reflects the progress of the students better. The recognition of students' attendance in the evaluation has resulted in a marked improvement in classroom attendance. The use of Scoring Sheets has ensured that any subsequent re-evaluation of a script is unbiased to the first evaluation.

2.5.3 What measures have been taken by the institution for continuous evaluation of students and ensuring their progress and improved performance?

The academic programs of the college have semester system, wherein each semester internal assessment has 30 % weightage and end term written exam has 70% weightage. In internal assessment, 20% weightage is to written test, 5% to home assignment and remaining 5% to class attendance. Each department conducts three tests per semester for internal assessment. The average of the best two performance is taken into account. The regular observance of the students ensures a comprehensive, continuous assessment of each student.

2.5.4 What percentage of marks is earmarked for continuous internal assessment? Indicate the mechanisms strategized to ensure rigour of the internal assessment process?

30% of the evaluation is done internally by the subject teacher through regular tests, class work, assignments, projects, seminars, attendance monitoring, etc. The teacher has to constantly evaluate the students and record their progress. Centralised

internal tests are also scheduled during the course of the semester. The teacher has to submit the record of the evaluation to the Controller of Examination before the commencement of the external examinations. These marks will also be used as one of the criteria to see if a student qualifies to sit for the external examinations.

2.5.5 Does the College adhere to the declared examination schedules? If not, what measures have been taken to address the delay?

Yes, the College makes sure that the declared examination schedules are strictly adhered to. In the event of an external unavoidable circumstance, the schedule is not changed, only the affected paper(s) is moved to a later date duly announced in advance.

2.5.6 What is the average time taken by the College for declaration of examination results? Indicate the mode / media adopted by the College for the publication of examination results e.g., website, SMS, email, etc.

The average time taken by the College for declaration of examination results is 3 weeks from the last date of the examination. The result is published on the campus notice boards and on the college website.

2.5.7 Does the college have an integrated examination platform for the following processes?

- * **Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.**
- * **Examination process –Examination material management, logistics.**
- * **Post examination process – attendance capture, OMR based exam result, auto processing, generic result processing and certification.**

All the processes, involved in the conduct of examination, are carried out following the guidelines enshrined in the “Rules and Regulations for Conduct of Examination”. The pre-examination process starts with the solicitation of question paper setting and the registration of candidates, followed by a declaration of the examination schedule and the list of invigilators. During the exam the care of examination material

management and logistic is taken care by the examination committee. The post examination process consists of evaluation and scrutiny of the exam script, tabulation and declaration of results. The results are declared within a month of the completion of the examination.

2.5.8 Has the College introduced any reforms in its Ph.D. evaluation process?

As of now, it is not applicable.

2.5.9 What efforts are made by the College to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved process and functioning of the examination division/section?

A senior teacher is appointed to the post of Controller of Examinations. He has been provided an office section of his own with the Examination Committee consisting of teachers assisting him. Besides these, his office has been staffed with full time non-teaching staffs who assist in all clerical works involved in the conduct of examination. The office has been furnished with dedicated machinery, technical resources, stationery, etc.

2.5.10 What is the mechanism for redressal of grievances with reference to evaluation?

Ample provisions for re-evaluation, review/correction of marksheets, issue of duplicate certificates, the retaking of specific examination papers are given in the Rules and Regulations for the conduct of examinations. Forms and fees for each procedure are duly published and each is carried out in a time-bound manner.

2.6. Student Performance and Learning Outcomes

2.6.1 Does the College have clearly stated learning outcomes* for its programmes? If yes, give details on how the students and staff are made aware of these?

The learning outcomes are implied in the syllabus for each paper which are given to the students and staff at the beginning of the session.

2.6.2 How does the institution monitor and ensure the achievement of learning outcomes?

The institution regularly monitors the internal assessments of the students and their attendance. The question papers for the external examinations are solicited for internal and external subject experts and are carefully moderated to ensure quality. The evaluation is also moderated for transparency and adherence to the norms laid out to ensure the achievement of the learning outcomes.

2.6.3 How does the institution collect and analyse data on student learning outcomes and use it for overcoming barriers of learning?

All the examination performances of the registered students are recorded over the course of the entire programme. These exam records are analysed regularly by the exam branch. The exam records are shared with the mentors of each group of students. It is used as reference during the mentor-mentee interaction sessions to study the students learning outcomes in a particular subject or paper or examination

2.6.4 Give Programme-wise details of the pass percentage and completion rate of students.

Out of the three existing programs, namely B.Sc, BA and M.Sc, the latter two are introduced from the academic session 2016-17 onward only. Therefore the pass percentage and completion rate are provided for B.Sc. program only. The composite results of the last four years are provided in the following table:

| Table 2.7: Pass % of the B.sc. Students during the last four years | | | | | | | | | |
|---|----------|----|-------|--------|----|-------|-----------------------|----|-------|
| Year | Appeared | | | Passed | | | Passed with above 60% | | |
| | M | F | Total | M | F | Total | M | F | Total |
| 2012-13 | 59 | 73 | 132 | 56 | 67 | 123 | 38 | 58 | 96 |
| 2013-14 | 61 | 53 | 114 | 59 | 50 | 109 | 45 | 38 | 83 |
| 2014-15 | 112 | 98 | 210 | 97 | 82 | 179 | 63 | 62 | 125 |
| 2015-16 | 56 | 71 | 127 | 46 | 42 | 88 | 35 | 42 | 77 |

In order to have more insight on the performance of students in last four years, the performance of students in terms of their order of merit for each course is provided in the following table.

| Table 2.8: Order of merit during the last four years | | | | | | | | |
|---|-------------------|---|-------------------|---|-------------------|------------------|-------------------|--|
| | 2012-13 | | 2013-14 | | 2014-15 | | 2015-16 | |
| | Gold Medal | Uni. Rank | Gold Medal | Uni. Rank | Gold Medal | Uni. Rank | Gold Medal | Uni. Rank |
| Anthropology | Yes | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 | Yes | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10(1), 10(2), 11, 12, 13, 14, 15, 16 | Yes | 01 | Yes | 1, 2, 3(1), 3(2), 4, 5(1), 5(2), 6, 7, 8 |
| Botany | Yes | 1, 2, 4, 8, 9, 10, 14, 17, 18(1), 22, 24, 27, 28, 29, 31, 33(1), 33(2), 35, 36, 37, 38(1) | Yes | 1(1), 2, 3, 6(1), 6(2), 8, 9, 16, 20(1), 20(2), 24, 26(2), 30 | Yes | 01 | Yes | 1, 2, 7, 8 |
| Chemistry | No | 0 | No | 0 | Yes | 01 | Yes | 1, 7, 8 |
| Geography | Yes | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, | Yes | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 | Yes | 01 | Yes | 1,2,3,4,5 |
| Geology | Yes | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10(1), 10(2), 11, 12. | Yes | 1, 2, 3, 4, 5, 6(1), 6(2), 7, 8, 9, 10, 11 | Yes | 01 | Yes | 1, 2,3, 4, 5 |
| Mathem | Yes | 1, 2 | No | 0 | Yes | 1 | Yes | 1, 2 |

| | | | | | | | | |
|------------|-----|--|-----|---------------------------------------|-----|---|-----|-------------------------|
| atics | | | | | | | | |
| Physics | Yes | 1,2 | Yes | 1, 3 | Yes | 1 | No | 0 |
| Statistics | Yes | 1, 2 | Yes | 1 | Yes | 1 | Yes | 1 |
| Zoology | Yes | 1, 2, 3, 8, 9, 10, 11, 14, 17(1), 17(2), 19, 23,25(1), 28, 36(1), 39, 42 | No | 2(1), 5, 8,12,14, 15, 21, 25, 28 | No | 0 | No | 2(2), 5(1), 5(2), 6,8,9 |
| General | Yes | 1, 2, 4, 5, 6, 8 | Yes | 1, 2, 3,4, 5, 6, 8, 9(1), 9(2),10, 11 | Yes | 1 | Yes | 1, 3, 8, 10 |

Uni.: University

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CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the College have a research committee to monitor and address the issues of research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Yes. The following faculty members constitute the research committee:

| Sl. No | Name | Department | Designation |
|---------------|----------------|-------------------|--------------------|
| 1 | Sharma S | Physics | Convener |
| 2 | Tetso D | Anthropology | Member |
| 3 | Yanthan M | Botany | Member |
| 4 | Kelhouletuonuo | English | Member |
| 5 | Pandey S N | Mathematics | Member |
| 6 | Ralimongla | Geology | Member |
| 7 | Limatemjen | Zoology | Member |

Recommendations that have been implemented:

- (i). Drafted the research policy for the faculty members of the college.
- (ii). The major decision of the committee was to start a College Research Journal entitled "*RÜSIE: A Journal of Contemporary Scientific, Academic and Social Issues*". The committee has completed the process of ISSN number for the journal [2348-0637]. Two volumes of the journal have been published with a total no of 15 and 12 articles in the year 2014 and 2015 respectively. The faculty members of the college actively contribute articles to the Journal.
- (iii). Organized seminars on research methodology in the college.
 - (i). One day seminar on "Research Methodology" on May 14th, 2016.
 - (ii). One day seminar on "Teaching and Research: A Symbiotic Existence in Emerging Scenario" on Aug 14th, 2013.

3.1.2 What is the policy of the College to promote research culture in the College?

(i) The college encourages the new faculty members to avail the study leave with pay to pursue the Ph.D. program. The following faculty members have been pursuing or completed the Ph.D under this facility

| Sl. No | Name | Department | Name of the University | Remark |
|--------|----------------|-------------|------------------------------|-----------|
| 1 | Temjenwabang | Botany | NU, Lumami | Ongoing |
| 2 | Kapfo W | Botany | NU, Lumami | Ongoing |
| 3 | Samadangla | Botany | University of Minnesota, USA | Ongoing |
| 4 | Kuotsu N B | Chemistry | NU, Lumami | Ongoing |
| 5. | Dzuvichu R | English | NEHU, Shillong | Ongoing |
| 6. | Rongdensungla | Geography | NU, Lumami | Ongoing |
| 7. | Lohe S | Geography | NU, Lumami | Completed |
| 8. | Yimchungar J R | Mathematics | NIT, Dimapur | Ongoing |
| 9. | Konwar H | Mathematics | DU, Dibrugarh | Completed |
| 10. | Talinungsang | Physics | NIT, Dimapur | Ongoing |
| 11. | Changkakati P | Statistics | DU, Dibrugarh | Ongoing |
| 12. | Barman B | Statistics | GU, Guwahati | Completed |

(ii). The college provides leave to participate in conferences and research workshops.

(iii) The college provides seed money to organize research related workshop and conferences.

(iv). The college gives an appreciation certificate to the faculty members for their publications in SCI journals.

3.1.3 List details of prioritized research areas and the areas of expertise available with the College.

| Sl. No. | Department | Area of research/expertise |
|---------|--------------|---|
| 1 | Anthropology | Folklore Study, Gender Study, Archaeology |
| 2 | Botany | Molecular Biology, Plant Systematic & Ecology, Mycology, Phycology, Agriculture, Ginger Taxonomy. |

| | | |
|----|------------------|--|
| 3 | Chemistry | Medical Chemistry, Water Chemistry, Geo Chemistry |
| 4 | Computer Science | Natural Language Processing (NLP) |
| 5 | English | Literature and Language |
| 6 | Geology | Sedimentology, Structural Geology and Paleontology |
| 7 | Geography | Physical Geography |
| 8 | Mathematics | Differential Geometry, Fluid Dynamics |
| 9 | Physics | Material Science, Atmospheric Physics, Astrophysics, Application of Artificial Neural Networks in Atmospheric Science. |
| 10 | Statistics | Social Science and Demography |
| 11 | Zoology | Zootherapeutic, Soil Arthropods, Fishery |

3.1.4 What are the proactive mechanisms adopted by the College to facilitate smooth implementation of research schemes/projects?

*** advancing funds for sanctioned projects**

At present there is no provision for providing advance funds to the sanctioned projects.

*** providing seed money**

At present there is no provision for providing seed money to the sanctioned projects. Seed money is provided to organize research workshops and related activities in the college.

*** autonomy to the principal investigator/coordinator for utilizing overhead charges.**

The overhead charges are utilized in consultation with the PI of the project.

*** timely release of grants**

Grants are immediately released, whenever there is a request from the PI of the project.

*** timely auditing**

It is the responsibility of the PI of the project to arrange the auditing of the completed project through the external chartered Accountant.

*** submission of utilization certificate to the funding authorities**

The college facilitates and forward the utilization certificate for onward submission to the funding agencies. The primary responsibility is with the PI of the project.

3.1.5 How is interdisciplinary research promoted?

- * **between/among different departments of the College and**
- * **collaboration with national/international institutes / industries.**

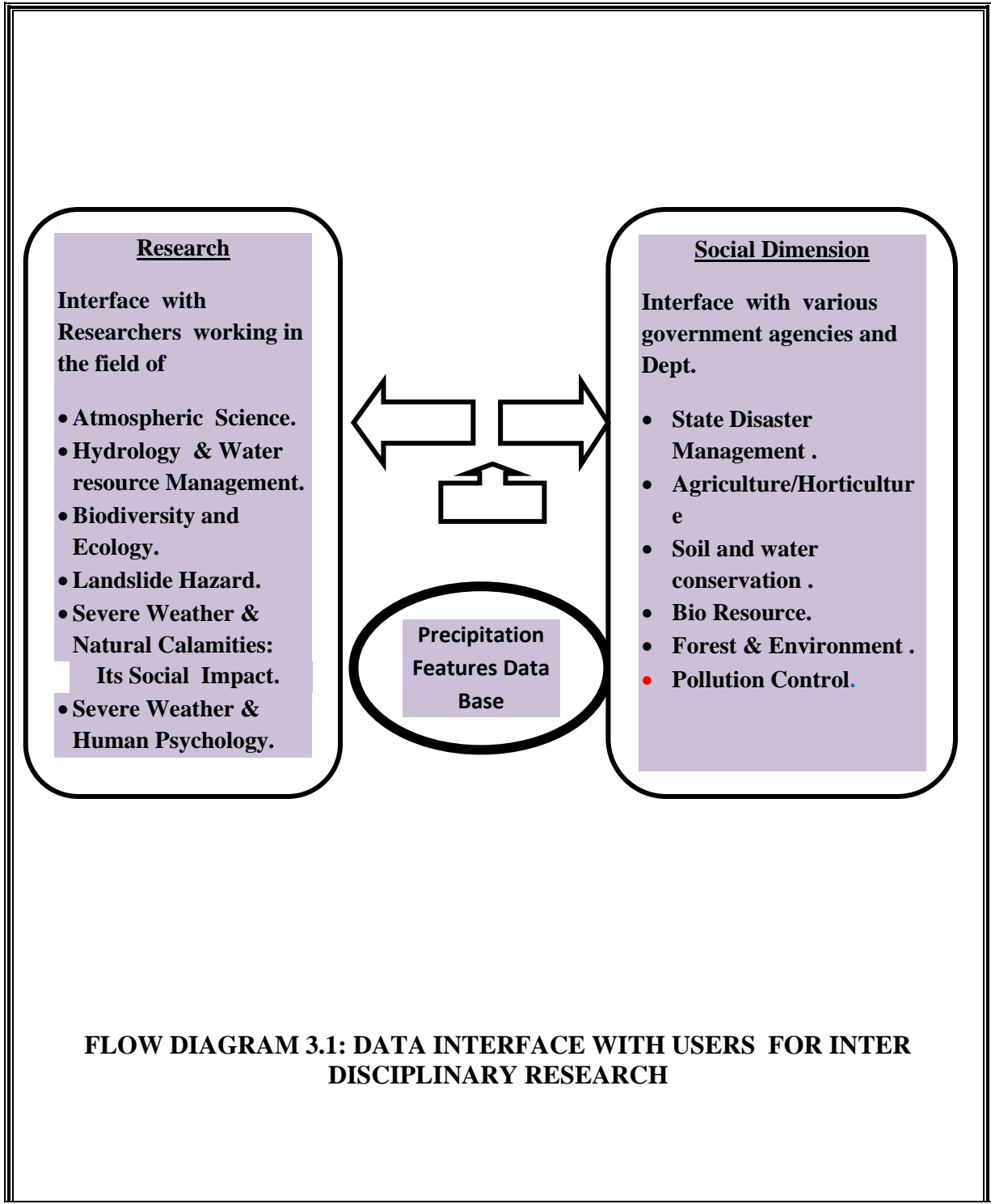
(i) Promotion of interdisciplinary research

The interdisciplinary research is being promoted through the State *RUSA* (Research, Innovation & Quality Improvement) project funded by the MHRD, Govt of India. The title of the project is “An investigation of high resolution spatio-temporal variation of morphological, microphysical and rainfall properties of precipitating systems and its social impact: An integrated multi sensor and multi institutional approach”. One of the objectives of the research project is to develop a comprehensive “Precipitation Features & Atmospheric Data Base” with the help of satellite and ground based observations. The developed data set will be utilized by the faculty members of the Kohima Science College and other government colleges under the department of Higher Education in the state to further accelerate the growth of the allied field and interdisciplinary research. The faculty members of the colleges are going to be involved with the project as “Associated Members”. This has the administrative approval from the government of Nagaland. The conceptual diagram of the data interface with the various research field and government agencies are provided in flow diagram 3.1.

(ii) Collaboration with national/international institutes

Collaboration

- (i) Zoological Museum and Institute, University of Hamburg, Germany
- (ii) Space application centre (SAC), ISRO, Ahmedabad.
- (iii) NARL, Department of Space, GOI, Gadanki.
- (iv). ISRO Radar Development Cell, Bengaluru.
- (v) Department of Environmental Sciences, GU, Guwahati.
- (vi) Department of Environmental Sciences, JU, Kolkata.
- (vii). Department of Physics, AU, Silchar.
- (viii) Department of Forest, Environment and climate change, Govt of Nagaland.
- (ix) Department of Art and Culture, Govt of Nagaland.
- (x) Department of Health and family welfare, Govt of Nagaland.
- (xi) NSDMA, Govt of Nagaland.



- (xii) NASTEC, Govt of Nagaland
 (xiii) IGRMS, Bhopal
 (xiv) Department of Zoology, NEHU, Shillong
 (xv) Department of Geology and Geography, NU Lumami

[For details, please refer subsection 3.2.5 (Table 3.10) and subsection 3.7.1. (Table 3.27)]

MOUs

- (i) Centre for Atmospheric Studies, Department of Physics, DU, Dibrugarh
 (ii) Department of Environmental Psychology, Salzburg University, Austria
 (iii) Surindra Rajabhat University, Surin, Thailand
 (iv) Department of History and Archaeology, NU, Kohima

(For further detail, please refer subsection 3.7.3)

3.1.6 Enumerate the efforts of the College in attracting researchers of eminence to Visit the campus and interact with teachers and students?

| Table 3.4: Researchers of eminence who visited the college | | | |
|---|--|--|---|
| Sl. No | Name of the researcher/policy maker | Institute/organization | Date of visit |
| 1 | Dr. Suryakant B. Gupta, | Scientist- G , Institute for Plasma Research, Ahmadabad, An autonomous Institute of Dept. of Atomic Energy, Govt of India, Gandhi Nagar | Oct 14 th , 2016 |
| 2. | Prof. R. H. Duncan Lyngdoh | Department of Chemistry, NEHU, Shillong | Sep 28 th , 2016 |
| 3. | Prof. R. K. Bhubon Singh | Department of Chemistry, MU, Imphal | Sep 28 th , 2016 |
| 4. | Dr. E. S. Rajagopal | Prof of Eminence , IISc., Bengaluru Former Director NPL, New Delhi. | Sep 16 th , 2016 |
| 5. | Dr. Sandhya Mishra DST-Young Scientis | Birbal Sahni Institute of Palaeo Botany, Lucknow | March 21 st , 2016 |
| 6. | Prof. Phanurath Achhara | President Surindra Rajbhat University, Surin, Thailand | Nov 29 th -30 th , 2015 |

| | | | |
|-----|---------------------------------|--|---|
| 7. | Prof. . Zonkit | Director Asia Studies Institute Surindra Rajbhat University, Surin, Thailand | Nov 29 th -30 th , 2015 |
| 8. | Prof. Satya R. Chakaravarty | Sampling & Official Statistics Unit ISI, Kolkata-700108 | Nov 2 nd -4 th , 2015. |
| 9. | Prof. Prasanta Pathak | Sampling & Official Statistics Unit ISI, Kolkata-700108 | Nov 2 nd -4 th , 2015. |
| 10. | Dr. Himadri Sekhar Das | Asso. Prof. Department of Physics, AU, Silchar Assam | July 15 th , 2015 |
| 11. | Dr. Aravind Ranade | Scientist E <i>Vigyan Prasar</i> , DST Noida | July 15 th , 2015 |
| 12. | Prof. Gazi A. Ahmed | Department of Physics, TU, Tezpur | Sep 26 th -27 th , 2014 |
| 13. | Dr. Rupjyoti Gogoi | Department of Physics, TU, Tezpur | Sep 26 th -27 th , 2014 |
| 14. | Dr. Samir Dhurde | IUCAA, Pune | Sep 26 th -27 th , 2014 |
| 15. | Prof. Sarit Kumar Chaudhuri, | Director, IGRMS, Bhopal | Sep 29 th , 2015 |
| 16. | Dr. Hauriet V. Kuhnlein | Emeritus Professor, McGill University, Montreal, Canada | Aug 8 th , 2015 |
| 17. | Dr. Rachunliu G. Kamei | Mari Sklodowska Curie Post Doctoral International Incoming, Dept. of Life Sciences, The Natural History Museum, London (UK) | Aug 7 th , 2015 |
| 18. | Dr. T. Madhan Mohan | Advisor, NER Department of Biotechnology New Delhi. | April 19 th , 2016 |
| 19. | Mr. Vinod Kumar | Dy. Manager Biotech Consultative India Limited, New Delhi | April 19 th , 2016 |
| 20. | Dr. Esterine Kire | Former Associate Prof. Dept. of English, Nagaland University (Winner of Hindu Literary Prize, 2015) | March 22 nd , 2015 |
| 21. | Prof. Tandon | Former Vice Chancellor, NEHU, Shillong | May 21 st , 2014 |
| 22. | Peter Hemphill | Fullbright-Nehru Fellow Associate Prof. University of Oregon, USA | Dec 10 th , 2014. |

| | | | |
|-----|-------------------------|---|--------------------------------|
| 23. | Prof. Chauhan | Pro Vice Chancellor, NU, Lumami | Oct 18 th , 2012 |
| 24. | Prof. M.K. Chakrabarti, | General Secretary Asiatic Society, Kolkata | March 14 th , 2012 |
| 25. | Prof. B.K. Konwar | Vice Chancellor, NU | March 14 th , 1012. |
| 26. | Prof. A.C. Bhagbati | Former Vice Chancellor, Rajiv Gandhi Central University, Itanagar, Arunachal Pradesh. | March 15 th , 2012 |

In order to develop a structured mechanism for sustained interaction of the experts with the stakeholder, the college has constituted an expert committee with external and internal members under the RUSA (Research, Innovation & Quality Improvement) projects. The committee members are expected to review the project and interact with the associate members under the project and the faculty of the colleges. The list of the expert committee members is as follows. The expert committee has the administrative approval of the Govt of Nagaland.

(i) External members

| Table 3.5: External Members of the Expert Committee | | | |
|--|---|--|----------------------------------|
| Sl. No | Name | Address | Area of specialization |
| 1 | Prof. Animesh Maitra (Chairman) | Professor, Institute of Radio Physics and Electronics, University of Calcutta, 92 Acharya Prafulla Chandra Road Kolkata 700009 | Remote sensing of the atmosphere |
| 2 | Shri Hargobinda Pathak Scientist-E (Retd) Member | Deputy Director General of Meteorology (Retd) Regional Meteorological Centre, Guwahati IMD, Guwahati-781017 | Meteorology |
| 3 | Prof. Glen Thong (Member) | Department of Geology NU, (Kohima campus) Kohima 797004 | Landslide Studies |
| 4. | Prof. M.S. Rawat (Member) | Head, Department of Geography NU, Lumami, Lumami-798601 | Water Shade Studies |
| 5 | Nominee | Nagaland State Disaster Management Authority Department of Home, Nagaland. Kohima, Nagaland-797004 | Disaster Management |

(i) Internal members

| Table 3.6 Internal members of the Expert Committee | | | |
|---|--|--|--|
| Sl. No | Name | Address | Area of Specialization |
| 1 | Dr. I. Anungla Aier, Principal | KSCJ, Kohima Nagaland-797002 | Social Anthropology |
| 2 | Dr. Sanjay Sharma PI –RUSA (R & I) Project | Department of Physics, KSCJ, Kohima Nagaland-797002 | Remote Sensing of the Atmosphere and Meteorology |

3.1.7 What percentage of faculty have utilized sabbatical leave for research ‘activities? How has the provision contributed to the research quality and culture of the College?

Nil. On the other hand, 12 faculty members have availed the study leave to pursue Ph. D. program in the last five years. It constitutes around 15% of the total number of faculty in the college. [For details, please refer subsection 3.1.2]

3.1.8 Provide details of national and international conferences organized by the College highlighting the names of eminent scientists/scholars who participated in these events.

The following national conferences, seminars and awareness programs have been organized in the college

| Table 3.7: List of the conferences/seminar organized by the college. | | | | |
|---|-------------------------------|-------------|-----------------------|---------------------|
| Sl. No | Name of the conference | Date | Funding Agency | Participants |
| | | | | |

| | | | | |
|----|---|--|---------------------|---|
| 1. | National Level Seminar on Interdisciplinary Research in Chemical Sciences (NSIRCS-2016) | September 28 th -29 th , 2016. | UGC | <p>(i). Prof. R. H. Duncan Lyngdoh,, Department of Chemistry, NEHU, Shillong.</p> <p>(ii). Prof. R. K. Bhubon Singh Department of Chemistry, MU, Imphal</p> <p>(iii). Prof. Ghanashyam Bez Department of Chemistry, NEHU, Shillong.</p> <p>(iv). Dr. Utpal Bora Department of Chemical Sciences TU, Tezpur</p> <p>(v). Dr. Upasana Bora Sinha NU, Lumami</p> |
| 2. | Cultural Heritage of Nagaland [Anthropology] | 29th-30th Sept. 2015. | IGRMS, Bhopal | <p>(i). Prof. Temsula Ao, Padmashree, Chairperson Nagaland State Women Commission.</p> <p>(ii). Prof. Sarit Kumar Chaudhuri, Director, IGRMS, Bhopal.</p> <p>(iii). Dr. Alok Kumar Kanungo, IIT Gandhinagar.</p> <p>(iv). Shri Amba Jamir, Executive Director, Sustainable Development Forum Nagaland and Policy Analyst.</p> <p>(v). Dr. Tiatoshi Jamir, NU, Lumami.</p> <p>(vi). Dr. Kanato Choppy, JU, Ranchi.</p> |
| 3. | Society, Culture and Development: Emerging Issues in Nagaland | March 14 th -15 th , 2012 | The Asiatic Society | (i). Prof. M.K. Chakrabarti, General Secretary, Asiatic Society, Kolkata. |

| | | | | |
|--|----------------|--|---------|---|
| | [Anthropology] | | Kolkata | (ii). Prof. Bhaghabati, Former Vice Chancellor of RGCUItanagar. (iii). Shri Alemtemshi Jamir (IAS Rtd) Former Chief Secretary, Nagaland. (iv). Shri Khekiye Sumi (IAS Rtd) Former Commissioner and Secretary, Nagaland. |
|--|----------------|--|---------|---|

3.1.9 Details on the College initiative in transferring/advocating the relative findings of research of the College and elsewhere to the students and the community (lab to land).

The research finding of the faculty members of the college is communicated to the students and the community through the college journal entitled “ RÜSIE: A Journal of Contemporary Scientific, Academic and Social Issues” [For details, please refer subsection 3.1.1 and Table]

3.1.10 Give details on the faculty actively involved in research (Guiding student research, leading research projects, engaged in individual or collaborative research activity etc.)

| Table 3.8: Name of the faculty members involved in research activities | | | |
|---|-------------|-------------------|---|
| Sl. No. | Name | Department | Activities |
| 1. | Aier I A | Anthropology | Engaged in individual and collaborative research work with various national and international institutes and state government agencies. |
| 2. | Tetso D | Anthropology | Engaged in individual and collaborative research work with various national and state government agencies. |
| 3. | Jamir R M | Anthropology | Engaged in collaborative research work with the state government agencies. |

| | | | |
|-----|-------------|------------------|--|
| 4. | Nagi K | Anthropology | Engaged in collaborative research work with the state government agencies. |
| 5. | Moaakum | Botany | (i). Part of a major research project as a CO-PI. (ii) Engaged in individual and collaborative research work with various national and state government agencies. |
| 6. | Yanthan M | Botany | Engaged in individual research work. |
| 7. | Jamir T T | Chemistry | Engaged in individual research work. |
| 8. | Pillai R V | Chemistry | (i). Engaged in individual research work. (ii). Guiding research students. |
| 9. | Kuotsu N B | Chemistry | Engaged in individual research work. |
| 10. | Sinha P | Computer Science | (i) Leading a minor research project. (ii). Engaged in individual research work. |
| 11. | Pienyu K | English | (i). Engaged in individual research work. (ii). Guiding research students. |
| 12 | Sema L | Geology | Engaged in individual research work. |
| 13 | Mekro M | Geology | Engaged in individual research work. |
| 14. | Lohe S | Geography | Engaged in individual research work. |
| 15. | Sharma S | Physics | (i). Leading a major research project. (ii). Guiding research students. (iii). Engaged in individual and collaborative research work with various national and international institutes. |
| 16. | Kachara C | Physics | (i). Leading a minor research project. (ii). Engaged in individual research. |
| 17. | Ahmed S F | Statistics | (i). Completed a minor research project. (ii). Engaged in individual research work. |
| 18. | Ali M J | Statistics | (i). Completed a minor research project. (ii). Engaged in individual research work. |
| 19. | Limatemjen, | Zoology | (i). Leading a minor research project. (ii). Engaged in individual and collaborative research work. |
| 20. | Doulo V | Zoology | (i). Leading a minor research project. (ii). Engaged in individual and |

| | | | |
|--|--|--|------------------------------|
| | | | collaborative research work. |
|--|--|--|------------------------------|

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial) allocation and actual utilization for last four years.

At present, the college does not have any budget provision for research. Research funding is from external agencies. [For details, please refer the subsection 3.2.5 and 3.2.7]

3.2.2 What are the financial provisions made in the College budget for supporting student research projects?

At present, the college does not have any provision for supporting student research projects. The college only provides logistic support and seed money to facilitate field trips of students for their project work, which is a part of their curriculum.

3.2.3 Is there a provision in the institution to provide seed money to faculty for research? If so, what percentage of the faculty has received seed money in the last four years?

At present, there is no provision of seed money for faculty research. Seed money is provided only to organize research workshops and research related activities.

3.2.4 Are there any special efforts made by the College to encourage faculty to file for patents? If so, provide details of patents filed and enumerate the sanctioned patents.

At present, No

3.2.5 Provide the following details of ongoing research projects:

A) College Funded

None

B) Other agencies-national and international (specify) Minor Research Project

| Table 3.9: Ongoing Minor Research Project (2012-2016) | | | | | |
|--|---------------------------|---|-----------------------|-----------------|----------------------|
| Sl. No | PI/ Department | Title of research project | Funding agency | Duration | Budget (Lakh) |
| 1. | Kachhara C (Physics) | Timing and spectral analysis of accretion powered pulsars | UGC | 2015-17 | Rs. 2.30 |
| 2. | Limatemjen (Zoology) | Physico chemical ... Chate river | -Do- | 2015-17 | Rs. 3.00 |
| 3. | Kuotsu N B (Chemistry) | Studies on certain new environment friendly pathways | -Do- | 2015-17 | Rs. 3.30 |
| 4. | Sinha P (Computer Sci) | Part of speech tagging with computational approach | -Do- | 2014-16 | Rs. 4.39 |
| 5. | Doulo V (Zoology) | Butterflies of Kohima District, Nagaland | -Do- | 2014-16 | Rs. 4.00 |

Major research Project

| Table 3.10: Ongoing Major Research Project (2012-2016) | | | | | |
|---|-------------------------------|---|--|-----------------|----------------------|
| Sl. No | PI/ Department | Title of research project | Funding agency | Duration | Budget (Lakh) |
| 1 | Sharma S (Physics) | An investigation of high resolution spatio-temporal variation of morphological, microphysical and rainfall properties of precipitating systems and its social impact: An integrated multi sensor and multi institutional approach | MHRD | 2016-19 | Rs. 227.34 |
| 2 | Vesa H (PI) & Moaakum (Co-PI) | Establishment of biotech Hub | DBT (under special program for the North Eastern state of India) | 2010-16 | Rs.40.11 |

| | | | | | |
|---|---------|---|-----|---------|-----------|
| 3 | Moaakum | Chemical ecology study of Dezo Nha: A potent anti-rheumatic plant | DBT | 2015-21 | Rs. 11.38 |
|---|---------|---|-----|---------|-----------|

Table 3.11: List of the ongoing Collaborating Research Projects

| Sl. No | PI/ Department | Title of research project | Funding Agency (Approved Budget) | Duration | Implimenting Institute/ agency) |
|--------|--|---|--|----------|---|
| 1. | Hiese V Co-Investigator (Botany) | Pilot scale optimization for standardization of processing and Technologies of selected high value aromatic and medicinal plants including technology demonstration and extension for socio economic upliftment | DST, Govt of India (Rs. 414.75 lakhs) | 2015-17 | IIIM, (ICAR), Srinagar & NASTEC, Kohima. |
| 2. | Moaakum (Co-Investigator) (Botany) | Development of In vitro clonal propagation of Forestry species <i>Dipterocarpus macrocarpa</i> Vesque and <i>Duabanga grandiflora</i> (DC.) Walp. | DBT, Govt of India (Rs.49.91 lakhs) | 2015-18 | Department of Forest& Environment, Govt of Nagaland |
| 3. | Nagi K (PI) Longkumer M (Co-Investigator) (Anthropology) | Cultural history, ethnography and physical characteristics of the Nagas of Nagaland (<i>Festivals and associated rituals: A symbolic representation of cultural values</i>) | Dept. of Art and Culture, Govt of Nagaland (Rs. 8.0 lakhs) | 2011-16 | Anthropologic al Society of Nagaland, Kohima |
| 4. | Tetso D (Co-Investigator) (Anthropology) | Cultural history, ethnography and physical characteristics of the Nagas of Nagaland (<i>ZPK, PLK, TSK, PTL, Prehistoric Rock Shelters and Caves Sites in Kipheri District, Nagaland.</i>) | Dept. of Art and Culture, Govt of Nagaland (Rs.19.0 lakhs) | 2011-16 | Anthropologic al Society of Nagaland Kohima |

| | | | | | |
|----|--------------|--|---|---------|--|
| 5. | Mekro V (PI) | Status of Environment and related Issues, Nagaland | Ministry of Environment , Forest & Climate Change (MoEF& CC) (Rs. 13.00 lakhs) | 2015-16 | Nagaland Institute of Health, Environment & Social Welfare (NIHESW) Kohima |
|----|--------------|--|---|---------|--|

C. Industry sponsored

None

3.2.6 How many departments of the College have been recognized for their research activities by national / international agencies (UGC—SAP, CAS, DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthrough due to such recognition.

The Physics department of the college has been recognized by the MHRD Govt of India under the *RUSA* (Research, Innovation and Quality Improvement) component for research activities. The approved fund is Rs 227.34 Lakhs and the college has received 50% of the total approved budget. The significant outcome under the approved project are:

- The department is in the formative stage to develop a research facility for core research in Atmospheric Science and allied fields.
- The college is in a position to work as an incubator to promote research activities in the college and other government colleges in the state. For this purpose, the concept of “Associate Members of the Project” from different departments of the college and other government colleges of the state is envisaged.

3.2.7 List details of completed research projects undertaken by the College faculty in the last four years and mention the details of grants received for such projects (funded by Industry/ National/International agencies).

The following research projects are completed by the college faculty:

| Table 3.12: Completed Major Research Project (2012-2016) | | | | | |
|---|-----------------------|---|---|-----------------|-----------------------|
| Sl. No | PI/ Department | Title of research project | Funding agency | Duration | Budget (Lakh) |
| 1 | Sharma S (Physics) | Study of clouds and rain characteristics with SARAL/ALTIKA sensors. | Indian Space Research Organization (ISRO) | 2011-15 | Rs. 12.17 |
| 2. | Sharma S (Physics) | Study of microphysics of rain and quantitative perception estimation. | ISRO | 2011-14 | Rs. 9.00 |
| 3. | Sharma S (Physics) | Study of mesoscale convective system by passive microwave sensors | ISRO | 2007-12 | Rs. 23.80 |

| Table 3.13: Completed Minor Research Project (2012-2016) | | | | | |
|---|--------------------------------|---|-----------------------|-----------------|-----------------------|
| Sl. No | PI/ Department | Title of research project | Funding agency | Duration | Budget (Lakh) |
| 1 | Ahmed, S F(Statistics) | A statistical analysis of some aspects of health scenario in Nagaland with special reference to its rural set up. | UGC | 2013-15 | Rs. 1.10 |
| 2 | Ali M J(Statistics) | A study of economic and demographic pattern of the Rengma tribe of Nagaland : A statistical analysis. | -Do- | 2011-13 | Rs. 0.50 |
| 3 | Changkakoti P (Statistics) | Statistical.... Assam | -Do- | 2011-13 | Rs. 0.85 |
| 4. | Jamir T T (Chemistry) | A study of impact of coal mining on water quality in Mangkolemba region of Mokokchung District, Nagaland. | DST, Govt of Nagaland | 2014-16 | Rs. 1.00 |

3.3 Research Facilities

3.3.1 What efforts are made by the College to keep pace with the infrastructure requirements to facilitate Research? How and what strategies are evolved to meet the needs of researchers?

The internally generated laboratory development fund allocated to the departments are utilized to procure research grade instruments. The laboratories are also upgraded under special grants and schemes from various external funding agencies, namely the UGC, DST, NEC, DBT. Research laboratories are primarily developed by the extramural research funding from ISRO, MHRD and DBT. Faculty members are encouraged to apply for the extramural research funding to upgrade research infrastructure. The list of the available equipments in the various departments are as follows:

| Table 3.14: List of major Equipments/ Facilities for Teaching & Research | | |
|---|--------------------------------------|--|
| Sl. No | Department | Name of the Equipment |
| 1 | Anthropology | Theodolite |
| | | GPS receiver |
| | | Video camera |
| | | Still Digital Camera |
| | | Voice Recorders |
| 2 | Botany and Institutional Biotech Hub | <i>Please refer subsection 3.3.4</i> |
| 3 | Chemistry | Ultraviolet Spectrophotometer |
| | | Spectrophotometer |
| | | Rotatory Vacuum Evaporator Centrifuge Rotator |
| | | Water distillation plant |
| | | Conductivity meter |
| | | Calorimeter |
| | | Digital weighing balance |
| 4 | Computer Science | Server (1), Desktop (30) with compiler C, C++. C++ visual, Pascal, Cobol |
| 5 | Geology | Trinocular Polarizing Petrological microscope |
| | | Binocular microscope |
| | | Single Polisher Disk |
| | | Sieve Shaker |
| | | Parallel X bar |
| 6 | Geography | Theodolite with tripod stand |
| | | Dumpy level with tripod stand |
| | | Altimeter |
| | | Digital Anemometer |
| | | Digital Planometer |
| | | Pedometer and Rotameter |

| | | |
|---|---|--|
| | | Prismatic compass with stand |
| 7 | Mathematics | Desktops loaded with C and C++ compilers |
| 8 | Physics & Atmospheric Science Research Lab | Physics Laboratory: |
| | | Babinet Compensator |
| | | Diode Laser & Power supply and Kinematic mount |
| | | Fabry Perot Interferometer |
| | | Michelson Interferometer |
| | | Spectrometers, |
| | | Hall Effect setup |
| | | Short focal length telescope |
| | | Stefan's Constant Apparatus (02 units) |
| | | Ultrasonic Interferometer |
| | | Zeeman Effect setup and complete assembly |
| | | Cathode Ray Oscilloscope (06 units), |
| | | Function Generator (03 units), |
| | | LCR meter, |
| | | Telescope; Star Trek 25 x 75; |
| | | Sky Master Binocular |
| Computing lab: 10 desktops (with Windows operating system) and 15 laptops (with <i>UBUNTU</i> (Linux) operating system) | | |
| | Atmospheric Science Research Centre: | |
| | For detail, please refer subsection 3.3.4 | |
| 9 | Statistics | Desktops SPSS software |
| 10 | Zoology | Cooling Centrifuge |
| | | Deep Freezer (-40 °C) |
| | | Spectrophotometer (Visible) |
| | | Hot Plate with magnetic Stirrer |
| | | Cyclomixer |
| | | Binocular microscope with camera |
| | | Dissection microscope |
| | | Projection microscope |
| | | Spectrophotometer |
| | | Kjeldahl distillation unit |
| | | Kjeldahl digestion unit |
| | | Digital PH meter |
| | | Microtome; Flame photometer |

Table 3.15: Other Support facilities in the college

| Sl. No | Facility |
|--------|--------------------------|
| 1 | Power generator (50 KVA) |

| | |
|---|--|
| 2 | Solar paneled UPS 10 KVA (01), online UPS 3 KVA (08) |
| 3 | Broadband 8 Mbps dedicated line with LAN connectivity along with the WiFi connectivity |
| 4 | Total number of computers: 180 |
| 5 | Photocopiers: 14 |

3.3.2 Does the College have an information resource centre to cater to the needs of researchers? If yes, provide details on the facility.

The college has a UGC sponsored INFLIBNET facility. With the help of this facility, faculty members can download the available research papers and E-Books.

3.3.3 Does the College provide residential facilities (with computer and internet facilities) for research scholars and faculty?

No

3.3.4 Does the College have a specialized research centre/ workstation to address challenges of research programmes? If yes, give details.

The college has one specialized research centre and one specialized work station in the department of physics and botany respectively. The research facility (Atmospheric Science Research Center) is developed with the help of external funding from ISRO and MHRD. The specialized work station (Institutional Biotech Hub) is developed with the help of the funding from DBT. The details of the available facilities are as follows:

| Sl. No | Name of the centre | Facility Available (Data depository / Instruments) | | |
|--------|--|---|--|--------------------------|
| 1 | Atmospheric Science Research Centre (Specialized Research Center) | 1. Data Depository | | |
| | | (i). Satellite data/imagery | | |
| | | Name of the satellite | Name of the sensors | Availability of the data |
| | | Tropical Rainfall Measuring Mission (TRMM) (Polar Satellite) | 1. TRMM- Precipitation Radar 2. TRMM Microwave Imager | 1998-2014 |
| | Cloudsat (Polar satellite) | Cloud Profiling Radar | 2006-2016 (latest) | |

| | | | | |
|---|---------------------------|--|---|--------------------------|
| | | Global Precipitation Measurement (GPM) Mission (Polar satellite) | 1. Dual Frequency Radar 2. GPM Microwave Imager | 20014-2016 (latest) |
| | | INSAT -3D (Geostationary Satellite) | Visible, and IR bands | 2014-2016(latest) |
| | | (ii). Radar Data | | |
| | | Name of the radar | Name of the sensors | Availability of the data |
| | | Doppler Weather Radar (DWR) at Shriharikota | S-Band Scanning Radar | 2007 and 2008 |
| | | Wind profiler At National Atmospheric Research Laboratory (NARL) Gadanki | Very High Frequency(VHF; 53 MHz) Vertical profiles | 1999 and 2000 |
| | | Wind Profiler At NARL Gadanki | (Ultra High Frequency (UHF;1,8 GHz) vertical profiles | 1999 and 2000 |
| | | (iii). Meteorological data | | |
| | | Gridded daily rainfall over India | | 1950- 2015 |
| | | National Centre for Environmental prediction (NCEP) Reanalyzed Data | | 1950-2015 |
| | | Rain drop size distribution from Disdrometer (at NARL Gadanki) | | 1999 and 2000 |
| | | 2. Instruments* | | |
| | | Name of the instruments | | Number of the unit |
| | | Micro Rain Radar (MRR) (Germany) | | 01 |
| | | Disdrometer (Germany) | | 02 |
| | | Electric Field Mill (EFM-100) | | 02 |
| | | LD 350-220 V Single point Lightning Detector | | 02 |
| | | Automatic Rain Gauges | | 10 |
| | | Automatic Weather Station | | 06 |
| | | Workstation | | 2+1 (existing) |
| | | Desktop/Laptop | | 3+5(existing) |
| | | Online UPS (3 K Watt) | | 02+01 (existing) |
| | | Camera and LCD Projector | | 01 |
| 2 | Institutional Biotech Hub | Instruments and facility | | |
| | | Name of the instruments/facility | | Units |

| | | |
|----------------------------|---|----|
| (Specialized Work Station) | Trinocular Microscope with digital camera (Olympus) | 02 |
| | Electrophoresis unit | 01 |
| | Ultra Violet Transilluminator | 01 |
| | Laminar flow cabinet | 02 |
| | Vertical Autoclave | 02 |
| | Deep Freeze (-40 ⁰ C) | 01 |
| | Rotary Flask Shaker | 02 |
| | Tissue culture racks | 04 |
| | PH meter | 02 |
| | Digital balance with wind draft shield | 01 |
| | Hot air oven | 02 |
| | Incubator | 02 |
| | Distillation Unit | 02 |
| | Lieca Microscope | 01 |
| | Water atomizer | 01 |
| PCR (Bio Rad) | 01 | |

- Order has been placed for the instruments with an estimated cost of around 80 lakhs with a total budget of instruments around 100.00 lakhs

3.3.5 Does the College have research facilities (centre, etc.) of regional, national and international recognition/ repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

Yes, the college has a well established Atmospheric Physics Research Centre, where researchers from other colleges/institute, are associated, apart from collaborative work with other universities and institutes. The following researchers from outside are directly associated with the Atmospheric Physics Research Center by using the Data Depository and computing facility of the research centre.

| Table 3.17: List of the Researchers Using the Data Depository of the Research Centre | | | |
|---|--------------------------------|---|---|
| Sl. No | Name of the Researcher | Address | Remark |
| 1 | Prof. Kalita S K | Department of Environmental Science GU, Guwahati, Assam | Utilizing the data depository for research work |
| 2. | Choudhury H Associate Prof. | Department of Physics, North Gauhati College, Guwahati, Assam (NAAC Accredited –B Grade) | Utilizing the data depository for research work |

| | | | |
|----|-----------|---|--|
| 3. | Misra U | Department of Physics Patkai Christian College (Autonomous), Dimapur Nagaland (NAAC Accredited –A Grade) | Utilizing the data depository and computing facility of the centre for research work |
| 4. | Sarma A C | Department of Physics Patkai Christian College (Autonomous), Dimapur Nagaland (NAAC Accredited –A Grade) | Utilizing the data depository and computing facility of the centre for research work |

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the College through the following:

- * major papers presented in regional, national and international conferences
- publication per faculty

| Table 3.18: List of Papers Presented in Conferences by the Faculty Members | | | |
|---|---------------------------|--|--|
| Sl. No. | Name | Title | Conference title /venue/date |
| 1 | Mekro V (Geology) | A study on the mineral spring and mud used by humans and wildlife in Viswema, Kohima district, Nagaland | <i>Hutton Lectures</i> , Kohima, Dec, 8 th -9 th , 2016. |
| 2. | Mekro V (Geology) | Petrography of the Disang Siliciclastics from Kohima Synclinorium, Nagaland | <i>National Seminar on Geology, Geochemistry, Tectonics, Energy and Mineral Resources of North East India</i> , Dept. of Geology, NU, Kohima, Nov 9 th -11 th , 2016. |
| 3. | Punyu K (Chemistry) | Enhancement of heterogeneous photocatalytic degradation of Azure by using non metal doped SnO ₂ . | <i>NSIRCS-2016</i> , KSCJ, Kohima Sep 28 th -29 th , 2016. |
| 4. | Kuotsu N B (Chemistry) | Theoretical studies of some quaternary ammonium tribromides. | <i>NSIRCS-2016</i> KSCJ, Kohima Sep 28 th -29 th , 2016. |

| | | | |
|-----|------------------------------------|---|---|
| 5. | Konwar H (<i>Mathematics</i>) | Chemical reaction, solet and dufour effects on flow, heat and mass transfer over a stretching surface in presence of uniform magnetic field. | <i>NSIRCS-2016</i>) KSCJ, Kohima Sep 28 th -29 th , 2016. |
| 6. | Roy P | A study of the spatio-temporal variability of the properties of intense precipitation features over the South Asian region: An integrated multi sensor approach | NESAC-Academia and Students Interaction meet, at Shillong June 24 th , 2016. |
| 7. | Biswasharma R | A study of convective systems over North-Eastern India using INSAT-3D Imager | NESAC-Academia and Students Interaction meet, at Shillong June 24 th , 2016. |
| 8. | Sharma S (<i>Physics</i>) | Role of weather satellites in the study of spatio-temporal variability of rainfall: fundamental, science and applications | <i>1st Surin International Science Symposium</i> , Surindra Rajabhat University, Surin, Thailand Jan 20 th , 2016. |
| 9. | Whiso S (<i>English</i>) | Mehouviu and Morusa, a Naga folktale from Mima village | <i>3rd Surin International Storytelling Festival</i> , Surindra Rajabhat University, Surin, Thailand Jan 22 nd , 2016. |
| 10. | Tetso D (<i>Anthropology</i>) | An ethnohistorical account on human –animal dynamaism among Angami Nagas. | <i>Cultural Heritage of Nagaland</i> , KSCJ, Kohima Sept.29 th -30 th , 2015. |
| 11. | Moaakum (<i>Botany</i>) | Ethno botanical approaches of traditional medicine, religious and supernatural beliefs of gingers among Naga tribes. | “ <i>Cultural Heritage of Nagaland</i> ”; KSCJ, Kohima Sept.29 th -30 th , 2015. |
| 12. | Nagi K (<i>Anthropology</i>) | Transformative aspects of the Feast of Merit | <i>Cultural Heritage of Nagaland</i> , KSCJ, Kohima Sept.29 th -30 th , 2015. |
| 13. | Limatemjen (<i>Zoology</i>) | Traditional knowledge and practices associated with Carpenter worm: An indigenous food habit | <i>Cultural Heritage of Nagaland</i> , KSCJ, Kohima Sept 29 th -30 th , 2015. |
| 14. | Barman P (<i>Statistics</i>) | Sub-state Life Expectancy Estimation Using the Methodology for Small Population | <i>3rd Asian Population Association Conference</i> , University of Malaya, Kuala Lumpur, Malaysia July 27 th -30 th , 2015. |
| 15. | Ali M J (<i>Statistics</i>) | Scenario of higher education in Nagaland after 50 years of statehood | <i>Transforming higher education in North East India</i> , Thoubal college, |

| | | | |
|-----|---------------------------|---|--|
| | | | Thoubal Manipur. May 8 th -9 th , 2015. |
| 16. | Kuotsu N B (Chemistry) | An environmental benign strategy for solvent free Brominations through reactivity assessment of quaternary Ammonium Tribromide reagents. | <i>National seminar on Globalization, Development and Environment with Special Reference to North-East India</i> ; NU, Lumami March 19 th -20 th , 2015. |
| 17. | Kapfo W (Botany) | Litterfall in Pulie Badze wildlife sanctuary and Jotsoma community forest. | <i>National seminar on Globalization, Development and Environment with Special Reference to North-East India</i> ; NU, Lumami March 19 th -20 th , 2015. |
| 18. | Konwar H (Mathematics) | MHD flow, Heat and mass transfer about a vertical flat plate in the presence of radiation and chemical reaction with temperature viscosity | <i>National Seminar on Mathematical Modelling with Fluid and Plasma</i> , DU, Dibrugarh, March 19 th -20 th , 2015. |
| 19. | Pillai R V (Chemistry) | Geochemical variation of rare earth elements and clay minerals in Disang shales of Kohima, Nagaland | <i>Development Goals at the grass roots: policy perspective and challenges</i> , Gandhigram Rural Institute, Dindigul, June 22 nd -23 rd , 2015. |
| 20. | Ahmed S F (Statistics) | A study of adult mortality by age and sex and cause in the same rural areas of Nagaland during 2000-11 based on a non - conventional data source. | <i>International Conference on “ Mortality and cause of death study in India: Requirement, availability and analysis during past four decades”</i> School of Social Sciences, JNU New Delhi. March 26 th -27 th , 2015. |
| 21. | Sharma S (Physics) | Preliminary results of SARAL onboard Ka-band Altika radar and 24/37 GHz radiometer observations over Indian ocean. [Lead Talk] | <i>18th National Space Science Symposium</i> , DU, Dibrugarh, Jan 29 th - Feb 1 st , 2014. |
| 22. | Sharma S (Physics) | The effect of rain on SARAL/ALTIKA derived sea wave height | <i>2nd ISRO-CNES International Meet on SARAL: Science and Applications</i> |

| | | | |
|-----|-------------------------------|---|---|
| | | | Space Application Centre (SAC), Ahmedabad April 22 nd -24 th , 2014. |
| 23. | Ahmed S F (Statistics) | Demographic socioeconomic and behavioural differential risks on the prevalence of any disease in rural Nagaland. | <i>International conference on recent advances in mathematical statistical and its application in applied sciences.</i> GU, Guwahati, Assam Dec 31 st , 2012 to Jan 2 nd , 2013. |
| 24. | Barman P (Statistics) | Estimation of life expectancy for Kohima and Dimapur (combined) district of Nagaland using the Methodology for small populations. | <i>International Conference on Recent Advances in Mathematical, Statistical and its Application in Applied Sciences.</i> GU, Guwahati Dec 31 st , 2012 to Jan 2 nd , 2013. |
| 25. | Ahmed S F (Statistics) | Factors influencing the Non- communicable diseases in rural Nagaland: A cross sectional study. | <i>XXXV annual conference of Indian Association for the study of population,</i> Rohtak, Haryana. Dec 15 th -17 th , 2013. |
| 26. | Sinha P (Computer Science) | Towards an integrated language model: A North-East Indian perspective. | <i>Ethnic Integration in the NE India: Issue & Challenges,</i> NS Mahavidyalaya, Udaipur, Tripura Dec 21 st -22 nd , 2012. |
| 27. | Sharma S (Physics) | Study of Hail Storm features in Mesoscale Convective Systems by TRMM – Precipitation Radar and Microwave Imager over South East Asia. | <i>7th European conference on Radar in Meteorology and Hydrology,</i> Toulouse, France. June 24 th -29 th , 2012. |
| 28. | Mekro V (Geology) | The sugar mill that destroyed the great forest at Seithekema | <i>Society, Culture and Development: Emerging issues</i> KSCJ, Kohima March 14 th -15 th , 2012. |
| 29. | Aier I A (Anthropology) | Development and Change: Dimension of Change and value conflicts in Naga Society | <i>Society, Culture and Development: Emerging issues</i> |

| | | | |
|-----|-----------------------------|---|---|
| | | | KSCJ, Kohima March 14 th -15 th , 2012. |
| 30. | Whiso S (English) | Bilingualism among Naga Students: Cultural constraints and opportunities. | <i>Society, Culture and Development : Emerging issues</i> , KSCJ, Kohima March 14 th -15 th , 2012. |
| 31. | Jamir R M (Anthropology) | Comparative study of anthropometric features of the Angami Naga | <i>Society, Culture and Development : Emerging issues</i> , KSCJ, Kohima March 14 th -15 th , 2012. |
| 32. | Nagi K (Anthropology) | Women in Naga Society: Traditions and contemporary developments | <i>Society, Culture and Development: Emerging Issues</i> , KSCJ, Kohima March 14 th -15 th , 2012. |

Table 3.19: Number of Publications per Faculty Members

| Sl. No | Name | Department | No. of Papers | | Books | Chapters in Books |
|--------|------------|--------------|---------------|-----------------|-------|-------------------|
| | | | Peer Review | Non Peer Review | | |
| 1. | Aier I A | Anthropology | 01 | 01 | - | 04 |
| 2. | Ahmed S F | Statistics | 02+01 | 01 | | |
| 3. | Ali M J | Statistics | - | 01 | | |
| 4. | Barman P | Statistics | 07 | 01 | | |
| 5. | Dominic R | Zoology | 02 | - | | |
| 6. | Ezung M | Physics | - | 01 | | |
| 7. | Jamir T T | Chemistry | 01 | 01 | | |
| 8. | Jamir R M | Anthropology | - | 02 | 02 | |
| 9. | Jha R K | Physics | 01 | - | | |
| 10. | Kachhara C | Physics | 01 | 02 | | |
| 11. | Kibami D | Chemistry | 01 | - | | |
| 12. | Konwar H | Mathematics | 08 | - | | |
| 13. | Kuotsu B | Chemistry | 01 | - | | |
| 14. | Limatemjen | Zoology | 03 | - | | |
| 15. | Lohe S | Geography | 04 | 02 | | |
| 16. | Mekro V | Geology | 01 | 01 | 02 | 02 |
| 17. | Moakum | Botany | 04 | - | | 01 |
| 18. | Odyuo A | Geology | - | 01 | | |

| | | | | | | |
|-----|------------|------------------|----|----|----|----|
| 19. | Pienyu K | English | 01 | 01 | | |
| 20. | Pillai R V | Chemistry | - | 01 | | |
| 21. | Sema L | Geology | - | - | - | 01 |
| 22. | Sharma S | Physics | 08 | 03 | | |
| 23. | Sinha P | Computer Science | 03 | 01 | | |
| 24. | Tetso D | Anthropology | 04 | 01 | 02 | 02 |
| 25. | Yanthan M | Botany | 02 | 01 | | |

*** faculty serving on the editorial boards of national and international journals**

| Table 3.20: Name of the Faculty members associated with the Editorial Boards | | |
|---|-------------|--|
| Sl. No | Name | Name of the journal |
| 1 | Mekro V | (i). Editor, Environment Information System (ENVIS) Newsletter, Nagaland (2013), MoEF& CC, Govt of India (ii). Chief editor, ENVIS Newsletter, Nagaland (2014-15) MOEFF & CC, Govt of India |
| 2 | Pandey S N | (i). Advisory Board, Journal of Progressive Science. |

*** faculty members on the organization committees of international conferences, recognized by reputed organizations / societies.**

None

3.4.2 Does the College publish research journal(s)? If yes, indicate the composition of the editorial board, publication policies and whether, it is listed in international database?

Yes. The college publishes an interdisciplinary journal by the name *RÛSIE: A Journal of Contemporary Scientific, Academic and Social Issues*, The editorial board consists of the following members-

- (i). Sharma S
- (ii). Ralimongla
- (iii). Yanthan M
- (iv). Limatemjen
- (v). Kelhouletuonuo
- (vi). Pillai R V

(vii). Pandey S N

(viii) Tetso D

1.4.2 Give details of publications by the faculty:

| Table 3.21: List of papers published by faculty members | | | | |
|--|---|---|--|---------------------------------------|
| Sl. No | Authors | Title | Journal | Impact Factor (Thomson Reuter) |
| 1 | Aier A (<i>Anthropology</i>) | Culture, Customary laws and Gender: Emerging issues in Nagaland | <i>Journal of the Asiatic Society</i> Vol. LIV No 2 (2012) | NA |
| 2 | Alimenla B , Kuotsu B , Sinha U B (<i>Chemistry</i>) | Tetrapropylammounium Tribromide- An efficient reagent for solvent-free Bromination. | <i>Chemical Sciences Transactions</i> Vol 3(2) pp 826-832 (2014) | NA |
| 3 | Andreas SR , Limatemjen Yadav AK (<i>Zoology</i>) | Chordodes combiaerolatus, a new species of horsehair worms from Nagaland, India, with further comments on Chordedes mouton. | <i>Zootaxa</i> 3925 (2): 202 – 210 (2015) | 0.994 |
| 4 | Ahmed SF , Choudhary L (<i>Statistics</i>) | Factors associated with morbidity in the rural areas of Nagaland: A cross sectional study. | <i>Assam Statistical Review</i> , Vol 28 No 1, pp 41-61 2014 | NA |
| 5. | Ahmed SF , Choudhary L (<i>Statistics</i>) | Factors influencing the Non- communicable diseases in rural Nagaland: A cross sectional study, | <i>Global Research Analysis</i> , vol 3 issue 4 pp221-225 (2014) | NA |
| 6. | Barman P (<i>Statistics</i>) | Prevalence of Chronic Non - Communicable Diseases in Urban Population of Nagaland | <i>Middle East Journal of Age and Ageing</i> , Volume 13, Issue 1, pp: 22-28. (2016) | NA |

| | | | | |
|-----|---|---|---|------|
| 7. | Barman P , Choudhury L. (Statistics) | Health Expectancy Related to Chronic Non-communicable Diseases in Nagaland, India. | <i>Middle East Journal of Age and Ageing</i> , Vol11(1), pp: 23-31, (2014). | NA |
| 8. | Choudhury L, Barman P (Statistics) | Construction of life tables for the smaller North eastern states of India (2001-2005) | <i>Assam Statistical Review</i> , Volume 27, No. 1, pp: 34-54. (2013) | NA |
| 9. | Choudhary L, Sarma R, Biswas S and Barman P (Statistics) | Indirect estimation of district level health life expectancy of India, 2001. | <i>Middle East Journal of Age and Ageing</i> , vol 10 issue 1 pp 4-11 (2013) | NA |
| 10. | Choudhury L, Ahmed SF and Mannam A (Statistics) | Occupational differential risks of mortality among pensioners in Nagaland, India. | <i>Middle East Journal of Age and Ageing</i> vol 9 issue 6 pp 36-43 (2012) | NA |
| 11. | Choudhary L, Barman P and Sarma R (Statistics) | Estimation of life expectancy at birth for the smaller North eastern states of India (2001-2005) | <i>International Journal of Public Health Research and Development</i> , vol. 4 (1), pp: 143-146.(2012) | NA |
| 12. | Choudhury H , Roy P , Kalita S, Sharma S (Physics) | Spatio-temporal variability of the properties of mesoscale convective systems over a complex terrain as observed by TRMM sensors. | <i>International Journal of Climatology</i> , DOI10.1002/joc.4516 (2015) | 3.61 |
| 13. | Chubaakum P, Kibami D , Rao KS, Sinha D (Chemistry) | Synthesis and characterization of activated Carbon from the Biowaste of the plant <i>Manihot Esculenta</i> . | <i>Chemical Science Transactions</i> , 4(1) pp59-68 (2015) | NA |
| 14. | Dominic R , Ramanunjam S N (Zoology) | Traditional knowledge and ethnobotanical uses of piscidal plants of Nagaland, Northeast India | <i>Indian Journal of Natural Products and Resources</i> , 3, pp 582-588 (2012) | NA |

| | | | | |
|-----|---|--|---|------|
| 15. | Dutta D, Sharma S Kannan BAM, Venketswarulu S, Rao TN Gairola RM Viswanathan G (Physics) | Sensitivity of Z-R relations and spatial variability of error a Doppler weather radar measured rain intensity | <i>Indian Journal of Radio and Space Physics</i> , pp 448-460 (2012) | NA |
| 16. | Dutta D, Sharma S , Das J, Gairola RM (Physics) | Development of a regional rain retrieval algorithm for exclusive mesoscale convective systems over peninsular India | <i>Advance in Space Research</i> , pp 1750-1762 (2012) | 1.41 |
| 17. | Dutta D, Sarma D K Sharma S (Physics) | A multi sensor analysis of the life cycle of bow echoes over Indian region. | <i>International Journal of Atmospheric Sciences</i> , DOI.10.1155/20 14/207064 (2014) | NA |
| 18. | Jamir T T (Chemistry) | Impact of coal mining on water quality in Mankolemba region under Mokokchung district Nagaland, India. | <i>Journal of Environmental Research and Development</i> , vol. 10 No 03 pp 436-444 (2016) | NA |
| 19. | Kachhara C, Jha R K (Physics) | Timing and spectral analysis of Centaurus X- 3 as seen by Suzaku | <i>Journal of Progressive Sciences</i> , vol. 5 No. 1 pp34-41 (2014) | NA |
| 20. | Kalita BR, Hazarika R, Kakoti G, Bhuyan PK, Chakrabarty D, Seemala GK, wang K, Sharma S , Yokoyama T, Supnithi P, Komolmis T, Yatini CY, Huy ML, Roy P (Physics) | Conjugate hemispheric ionospheric response to the St. Patrick's Day storms of 2013 and 2015 in the 100° E longitude sector. | <i>Journal of Geophysical. Research. (Space Physics)</i> , 121 doi 10.1002/2016/ 6JA023119 (2016) | 3.43 |
| 21. | Kazuhiril E, Adani L, Doulo V (Zoology) | Morpho-Taxonomic studies on genus <i>Radula</i> <i>dumort</i> (Radulaceae: Hepaticae) from Nagaland, North East India. | <i>Indian Journal of Plant Sciences</i> , vol 2(3), pp 66-72, (2013) | NA |
| 22. | Kibami D (Chemistry) | Linear correlation study and regression analysis of drinking water quality in Mokokchung town, Nagaland, India. | <i>International Journal of Engineering Research and Management</i> , | NA |

| | | | | |
|-----|---|--|---|------|
| | | | vol. 1 issue 3, (2014) | |
| 23. | Limatemjen, Paul S and Dey SC (Zoology) | Length-weight relationship condition factor of <i>Schizothorax richardsonii</i> (Gray, 1832) from some water bodies of Nagaland. | <i>Environment & Ecology</i> , 30 (4A) pp: 1506-1508 (2012) | NA |
| 24. | Limatemjen (Zoology) | Distribution trend of <i>Schizothorax richardsonii</i> (Gray, 1832) in Nagaland. | <i>The Clarion, International multidisciplinary journal</i> . vol 4 No.1 pp 5 – 7. (2015) | NA |
| 25 | Lohe S (Geography) | Pattern of agricultural food production in Phek district, Nagaland | <i>Hill Geographer</i> , the geographical society of north-eastern hill region (India) Shillong (2016) (Accepted for publication) | NA |
| 26. | Lohe S (Geography) | Cultural landscape of the tribal people of Phek district, Nagaland | <i>Journal of National Association of Geographers, India</i> vol. xxxv (No.1) pp 141-152 (2015) | NA |
| 27. | Lohe S, Rawat MS (Geography) | Land and water resources degradation in Phek district, Nagaland. | <i>Transactions</i> vol. 37 No.2 pp 213-221. (2015) | NA |
| 28. | Lohe S (Geography) | Morphometric analysis of Sopus catchment in Phek district, Nagaland. | <i>Indian Journal of Geomorphology</i> vol. 19(1) pp 67-80 (2014) | NA |
| 29. | Pienyu K (English) | Adolescent –parent relationship in Naga families a psychological perspective | <i>Journal of Advanced Research</i> , vol. 1 issue 1 pp 22-27 (2014) | NA |
| 30. | Pokharia AK, Jamir T, Tetso D and Venuh Z | First millennium BC to second millennium AD | <i>Current Science</i> vol. 104 No 10 | 0.83 |

| | | | | |
|-----|--|--|---|------|
| | (<i>Anthropology</i>) | agriculture in Nagaland: a reconstruction based on archaeological evidence and radiocarbon dates | pp: 1341-1353 (2013) | |
| 31. | Moaakum , Chatrurvedi S K (<i>Botany</i>) | A Checklist of angiospermic flora of Zunheboto district of Nagaland, India. | <i>Pleione</i> , 9 (1) pp 82-94 (2015) | NA |
| 32. | Moaakum , Dey S, Chatrurvedi S K and Jamir N S (<i>Botany</i>) | Diversity of the genus <i>Hoya</i> R. Brown (Apocynacea: Asclepiadoideae) in Tuensang and Zunheboto district of Nagaland, India. | <i>Pleione</i> 8 (2) 8 (2) pp 391-394 (2014) | NA |
| 33. | Moaakum and Dey S (<i>Botany</i>) | Rediscovery of <i>Hedychium longipedunculatum</i> A.R.K Sastry & D.M. Verma [Zingiberaceae] from Nagaland, India. | <i>Pleione</i> , 7 (1) pp 290-294 (2013) | NA |
| 34. | Ramanujam S N, Dominic R (<i>Zoology</i>) | Median lethal concentration (LC ₅₀) of piscidal plants and their utilization in aquaculture. | <i>Journal of Applied Aquaculture</i> , 24, pp 582-588 (2012) | 0.42 |
| 35. | Roy P, Sharma S , Gairola RM (<i>Physics</i>) | Detection of rain/cloud pixels by Ka-band Altika Altimeter over the tropical region: development of a rain /cloud flag algorithm and its validation. | <i>Marine Geodesy</i> DOI10.1080/01490419.2015.10008158 (2015) | 0.98 |
| 36. | Roy P, Biswasharma R , Deshamukhya A, Sharma S Gairola R M, | A study of the spatio-temporal variability of the properties of intense precipitation features over the South Asian region: An integrated multi sensor approach. | <i>International Journal of Climatology</i> , (Conditionally Accepted) (2016) | 3.61 |
| 37. | Sarma AC, Deshmukhya A, Rao TN, Sharma S (<i>Physics</i>) | A study of raindrop size distribution during stratiform rain and development of its parameterization scheme in the frame work of multiparameter observations | <i>Meteorological Application</i> DOI.10.1002/met.1551 (2016) | 1.27 |

| | | | | |
|-----|--|---|--|----|
| 38. | Sarma B, Sinha P and Purkasyasths B S (Computer Science) | A combined approach to part-of speech tagging using features extraction and hidden Markov model | <i>International Journal of Advance Research in Computer Engineering and Technology</i> , vol 2 issue 2 pp: 327-330 (2013) | NA |
| 39. | Sharma B R, Konwar H (Mathematics) | MHD flow, heat and mass transfer about a permeable rotating vertical cone in presence of radiation, chemical reaction and heat generation or absorption effects | <i>Latin American Applied Research</i> (Accepted for publication) 2016 | NA |
| 40. | Sharma B R, Konwar H (Mathematics) | Flow, heat and mass transfer due to indirect natural convection | <i>International Journal of Mathematics and Computer Application Research</i> , vol 4 issue 4 pp111 - 118 (2014) | NA |
| 41. | Sharma B R, Konwar H (Mathematics) | Effect of chemical reaction on mass distribution of a binary fluid mixture in unsteady MHD Couette flow | <i>International Journal of Innovative Research in Science, Engineering and Technology</i> vol 3 issue8 (2014) | NA |
| 42. | Sharma B R, Konwar H (Mathematics) | MHD Flow, heat and mass transfer about a Horizontal cylinder in porous medium | <i>International Journal of Innovative Research in Science, Engineering and Technology</i> vol 3 issue 10 (2014) | NA |

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| 43. | Sharma B R, Konwar H (<i>Mathematics</i>) | Flow, heat and mass transfer about a permeable vertical rotating cone | <i>International Journal of Fluids Engg.</i> vol 7 no 1 pp 25-40 (2015) | NA |
| 44. | Sharma B R, Konwar H (<i>Mathematics</i>) | Effect of chemical reaction on mass transfer due to a permeable rotating heated disk. | <i>International Journal of Computer Application</i> vol 119 No. 21, pp 5-9 (2015) | NA |
| 45. | Sharma B R, Konwar H (<i>Mathematics</i>) | MHD Flow, heat and mass transfer due to axially moving cylinder in presence of thermal diffusion, radiation and chemical reactions in a binary fluid mixture. | <i>International Journal of Computer Application</i> vol 110 No. 15 pp 52-59 (2015) | NA |
| 46. | Sharma B R, Konwar H (<i>Mathematics</i>) | Influence of chemical reaction and heat generation on heat and mass transfer due to a rotating heated sphere. | <i>Journal of Applied Mathematics and Fluid Mechanics</i> , vol 7, no 1 pp 39-49 (2015) | NA |
| 47. | Sinha P , Sarma B and Purkasyasths B S (<i>Computer Science</i>) | Kinship terms in Nepali language and its morphology | <i>International Journal of Computer application</i> , vol. 58, No 9 pp 43-50 (2012) | NA |
| 48. | Sinha P , Veyie N M, Purkayastha B S. (<i>Computer Science</i>) | Enhancing the performance of part of speech tagging of Nepali language through hybrid approach. | <i>International Journal of Emerging Technology and Advanced Engineering</i> , vol.5 issue 5, pp 354- 359 (2015) | NA |
| 49 | Yadav A K, Schmidt-Rhaesa, Limatemjen | First report of the Gondwana genus <i>Beatogordius</i> from India, with further records of two | <i>ZooKeys</i> Doi 10.3897/zookey s. @@.10506 (2016) | 0.94 |

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| | | <i>Chordodes</i> species (<i>Gordiida</i> , <i>Nematomorpha</i>) | | |
| 50. | Yanthan M , Misra A K (<i>Botany</i>) | Amplicon restriction patterns associated with nitrogenase activity of root nodules for selection of superior <i>Myrica</i> seedling. | <i>Journal of Biosciences</i> 38(4), pp 789-795 (2013) | 1.42 |
| 51. | Yanthan M , Misra A K (<i>Botany</i>) | Molecular approach to the classification of medicinally important <i>actinorhizal</i> genus <i>Myrica</i> | <i>Indian Journal of Biotechnology</i> , vol 12, ,pp 133 - 136. (2013) | 0.29 |

Table 3.22: List of Publication in the College Journal RÜSIE: A Journal of Contemporary Scientific, Academic and Social Issues,

| Sl. No | Name | Title |
|-----------------------|---|---|
| Volume 2, 2015 | | |
| 1. | Aier I A | Development scenario in Nagaland: An anthropological critique. |
| 2. | Ali M J | Estimation of wastage of pages in Nagaland University examinations. |
| 3. | Ahmed S F | Morbidity prevalence among the government employees in rural areas of Nagaland in 2011: A cross sectional study. |
| 4. | Ao J M | Development of <i>Hyla annectans</i> Jerdon, 1870 from Nagaland, India. |
| 5. | Barman P | Longer life but poor health? Measurement and dynamics. |
| 6. | Bhoopathi S, Periasamy C | Economic and environmental consequence of climatic change as a free rider problem: A case evidence from households, Erode district. |
| 7. | Ezung M, Roy P, Sharma S | Rain drop size distribution and its applications in rain retrieval from radar reflectivity measurements: A short note. |
| 8. | Kikon C | Effects of leptin on the plasma levels of Triiodothyronine (T3) and Thyroxine (T4) in the air -breathing fish <i>Clarias gariepinus</i> . |
| 9. | Lohe S | Human resource base -A case study of Phek district of Nagaland. |
| 10. | Pillai R V | Geochemical variation of rare earth elements in Disang shales |

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| | | of Kohima, Nagaland. |
| 11. | Sinha P | Part of speech tagging in Nepali language using a hybrid approach |
| 12 | Whiso K, Odyuo A | Early Eocene (Ypresian) marine transgression in Mikir hills, Karbi Anglong, Assam |
| Volume 1, 2014 | | |
| 13. | Barman P | Prevalence of chronic non-communicable diseases in Kohima and Dimapur town. |
| 14. | Doulo V, Kachhara C | Study of rainfall and temperature variation of Kohima, Nagaland. |
| 15. | Jamir R M | Women and land rights. |
| 16. | Jamir R M, Longkumer M, Tetso D | Blood pressure level among the teaching and non-teaching staffs of Kohima Science College, Jotsoma, Kohima. |
| 17. | Jamir T T | Assessment of surface water quality in Nagaland, India. |
| 18. | Kachhara C | X-ray astronomy: An insight into x-ray universe. |
| 19. | Khrienuo | New-sense <i>sans</i> nuisance: Unravel the potential secrets of algae |
| 20. | Lohe S | Degraded watershed systems in Phek district of Nagaland. |
| 21. | Mekro V | Recreating dinosaur days. |
| 22. | Pienyu K | Understanding the psychology of children in late childhood. |
| 23. | Pillai V | Trace element geochemistry of Disang shales: A case study from Kohima, Nagaland. |
| 24. | Sharma S | Microwave remote sensing of rain and clouds: fundamentals and applications. |
| 25. | Therie W | Bee – Friend of flowers |
| 26. | Whiso S | Future of English in Nagaland |
| 27. | Yanthan M | <i>Actinorhizals</i> : A review |

Table 3.23 (A): List of the Book/s Published by the Faculty Members (Reference Books)

| Sl. . No. | Name of Authors | Title of the Book | Name of the Chapter in the Book | Name of Publishers |
|-----------|-----------------|-------------------|---------------------------------|--------------------|
|-----------|-----------------|-------------------|---------------------------------|--------------------|

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|----|--|--|---|--|
| 1. | Aier I A & co-authors (<i>Anthropology</i>) | Shifting Cultivation and Environmental change: Indigenous people, Agriculture, Forest Conservation <i>Malcolm Cairns (Ed)</i> | Gender Analysis and indigenous fallow Management | Routledge Publication. pp: 921-957 (2015) |
| 2. | Aier I A & co-authors (<i>Anthropology</i>) | 50 years after Daojali Hading: Emerging Perspective in the Archaeology of Northeast India, <i>Tiatoshi Jamir and M. Hazarika (Ed)</i> | Oral Tradition and Archaeology of the Northeast: The Need for a dialogue' | Research India Press, New Delhi, 2014 |
| 3. | Aier I A (<i>Anthropology</i>) | North-East India: A Handbook of Anthropology, <i>T.B. Subba (Ed)</i> | Traditional Knowledge: Issues and Challenges | Orient Black Swan Pvt Ltd. 2012. |
| 4. | Aier I A (<i>Anthropology</i>) | Encounters and Memories of Fieldwork in south-east Asia, <i>S.K. Chaudhury (Ed)</i> | 'In search of Story Tellers: Memories of field work among the Khamniungan Nagas' | Sage Publication, 2014. |
| 5. | Chaturvedi, S K, Moakum, S Dey, Jamir N (<i>Botany</i>) | Diversity and Conservation of Plants and Traditional Knowledge. <i>Panda S & Ghosh C (Eds)</i> | <i>Papilionanthe vandarum</i> (Reichenbach f.) Garay [Orchidaceae]: A new record for Nagaland, India. | Bishen Singh & Maninder Pal Singh Dehradun (2012). |
| 6. | Jamir M R (<i>Anthropology</i>) | Physical Characteristics of Nagas of Nagaland Vol. I. ISBN:978-93-80500-75-1 | N/A | Heritage Publishing House, Dimapur, (2014) |
| 7. | Jamir M R (<i>Anthropology</i>) | Physical Characteristics of Nagas of Nagaland Vol. II. ISBN:978-93-80500-76-8 | N/A | Heritage Publishing House, Dimapur, (2014) |

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| 8. | Jamir, T, Vesa D and TetsoD. (<i>Anthropology</i>) | Archaeology of Naga Ancestral Sites: Recent Archaeological Investigation at Chungliyimti and Adjoining Sites (Vol. I). ISBN No. 9789380500775. | N/A | Heritage Publishing House, Dimapur, (2014) |
| 9. | Jamir, T, Tetso D , Venuh Z, Tripathy V M and Pokharia A K. (<i>Anthropology</i>) | Archaeology of Naga Ancestral Sites: Recent Archaeological Investigation in Phek and Kipheri Districts of Nagaland (Vol. II). ISBN No. 9789380500782. | N/A | Heritage Publishing House, Dimapur, (2014) |
| 10. | Jamir S, Angami K & Moaakum (Contributed) (<i>Botany</i>) | Blooming Tales: A Book of Floral Arrangement | N/A | Published by Nagaland Flower Growers Association, |
| 11. | Mekro V (<i>Geology</i>) | Recent Trends in Earth Sciences Research with Special Reference to N.E. India | Brine and other mineral Spring water from Kohima (Nagaland) and Senapati (Manipur) Districts | Nagaland University (2016) |
| 12. | Mekro V (<i>Geology</i>) | North East India Deforestation and its impact | The Cliffs of Chumukedima | Purbanchal Prakash Guwahati ISBN: 9788172311654 (2012) |
| 13. | Mekro V (<i>Geology</i>) | The fragile Ecosystem of Nagaland | N/A | Barkweaver Publications Parkgata, Norway ISBN: 978829332402 (2014) |
| 14. | Mekro V (<i>Geology</i>) | The Rocks of Nagaland | N/A | Mittal Publications, New Delhi ISBN: 8183244920 (2014) |
| 15. | Sema L (<i>Geology</i>) | Recent Trends in Earth Sciences Research with Special Reference to N.E. India | Modal composition of the palaeogene Disang-Barail transitional sandstones within the Kohima | Nagaland University (2016) |

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| | | | synclitorium, Nagaland. | |
| 16. | Tetso D & Co-authors (<i>Anthropology</i>) | 50 years after Daojali Hading: Emerging Perspective in the Archaeology of Northeast India, <i>Tiatoshi Jamir and M. Hazarika (Eds)</i> | Animal remains from Naga ancestral sites of Nagaland: a preliminary report (Anthropology) | Research India Press, New Delhi (2014) |
| 17. | Tetso D & Co-authors (<i>Anthropology</i>) | Kopia Excavation Report <i>A.K. Kanungo (Ed.)</i> | Faunal remains recovered during the second and third seasons's excavation at Kopia, Sant Kabir Nagar, Uttar Pradesh | Kerala Council for Historical Research, Trivandrum (2013) |

Table 3.23 (B): Forthcoming Books

| Sl. No. | Author | Title of the Book | Name of the Chapter in the Book | Publisher |
|---------|--|--|--|--|
| 1. | Aier I A (<i>Anthropology</i>) | Gender, (Dis)empowerment & Conflict in Northeast India and Nepal, <i>Ashild Kolas (Ed)</i> | Citizenship, Representation & Peace Negotiations in Naga Society. | Peace Research Institute of Oslo (PRIO), Norway (<i>In Press</i>) |
| 2. | Aier I A (<i>Anthropology</i>) | Studies in Naga Oral Traditions- Vol.1:: Memories and Telling of Origin Myths and Migration among the Aier. | N/A | Heritage Publishing House, Dimapur, (<i>In Press</i>) |
| 3. | Aier I A (<i>Anthropology</i>) | Studies on Naga Oral Traditions-Vol.II: A collection of Folk Stories. | N/A | Heritage Publishing House, Dimapur, (<i>In Press</i>) |

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| 4. | Aier I A & co-authors (<i>Anthropology</i>) | Shifting Cultivation and Environmental change: Indigenous people, Agriculture, Forest Conservation. <i>Malcolm Cairns (Ed)</i> | Women's Lives as Shifting Cultivators | Routledge Publication. London: <i>Earthscan</i> (2016) (<i>In Press</i>) |
| 5. | Aier I A and Chaudhary S (Co-ed), (<i>Anthropology</i>) | Cultural heritage of Nagaland | N/A | <i>IGRMS</i> , Bhopal (<i>In Press</i>) |
| 6. | Nagi K (<i>Anthropology</i>) | Traditional Festivals of the Nagas Vol. I | N/A | Heritage Publishing House, Dimapur, (<i>In Press</i>). |
| 7. | Nagi K & Longkumer M (<i>Anthropology</i>) | Traditional Festivals of the Nagas Vol. II. | N/A | Heritage Publishing House, Dimapur, (<i>In Press</i>). |
| 8. | Tetso D & Co-authors (<i>Anthropology</i>) | Pre-history of South Asia <i>Bakak Bishnupriya (Ed.)</i> | Recent archaeological investigation in the Naga Ophiolite belt of the Indo – Myanmar border: Summary of recent findings. | Centre for Archaeological Studies and Training, Eastern India Kolkata. (<i>In Press</i>) |

| Table 3.23 (C): List of the Book/s Published by the Faculty Members (Text Books) | | | | |
|---|---|--|--------------------------------------|--|
| Sl. No. | Name of Authors | Title of the Book | Name of the Chapter in a Book | Name of Publishers |
| 1. | Imlisunep and Veta N (<i>Physics</i>) | Physics laboratory Manual for class 12 | N/A | Academic Publisher, Kohima, Nagaland ISBN:9788193143315 |
| 2. | Imlisunep Talinungsang Ezung M and Veta N (<i>Physics</i>) | Physics laboratory Manual for class 11 | N/A | Academic Publisher, Kohima, Nagaland ISBN:9788193143353 |
| 3. | Choudhary V K, Punyü K | Chemistry laboratory Manual for class 11 | N/A | Academic Publisher, Kohima, Nagaland |

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| | (<i>Chemistry</i>) | and 12 | | ISBN: 9788193143322 ISBN: 9788183143360 |
| 4. | Doulo V, Therie W and Yhome R (<i>Biology</i>) | Biology laboratory Manual for class 12 | N/A | Academic Publisher, Kohima, Nagaland ISBN:9788193143339 |
| 5. | Jamir S, Mekro V, Temjenwabang, Therie W, Yanthan M, Samadangla, Angami D, Limatemjen, Remmei K, Doulo V, Yhome R (<i>Biology</i>) | Biology laboratory Manual for class 11 | N/A | Academic Publisher, Kohima, Nagaland ISBN:9788193143377 |
| 6. | Pandey S N, Doulo K, Yimchunger R J, Meyase T G (<i>Mathematics</i>) | Mathematics for class 11 | N/A | Academic Publisher, Kohima, Nagaland ISBN:9788193143308 |
| 7 | Murali M N, Pandey S N, Doulo K, Yimchunger R J, Meyase T G (<i>Mathematics</i>) | Mathematics for class 12 | N/A | Academic Publisher, Kohima, Nagaland ISBN: 9788193143346 |

3.4.4 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty.

| Table 3.24: List of Ph.D Supervisor | | | | | |
|-------------------------------------|--------------------------------------|--|-----------------------------------|------------|----------------------|
| Sl. No, | Name of Supervisor/ Subject | University | No of students, guiding for Ph.D. | | |
| | | | Completed | Registered | Yet to be Registered |
| 1. | Sharma S (<i>Physics</i>) | 1. JU Kolkata, 2.AU, Silchar, | 01 | 03 | 03 |
| 2. | Pillai R V (<i>Chemistry</i>) | Bharathair University, Coimbatore, | --- | 01 | --- |
| 3. | Kelhouletuonuo (<i>English</i>) | Bharathidasan University, Tiruchirapalli | --- | 01 | --- |

3.4.5 What is the stated policy of the College to check malpractices and misconduct in research?

To check malpractices and misconduct in research and to strengthen and promote research culture amongst the faculty members and students, the college has come out with a research policy. The salient features of the policy are :

- To promote original and quality research amongst the faculty members.
- To promote Interdisciplinary research amongst the faculty members
- To apprise and encourage the faculty members to apply to state/ national level funding agencies for minor/major research projects.
- To apprise and encourage the faculty members to publish their research work in Scientific Citation Index (SCI) Journals with good impact factor.
- To organize regional/national/international conferences in the college.
- To encourage the faculty members to participate in national and international conferences/workshops in the country and abroad.
- To encourage new faculty members to register for their Ph.D. with pay protected study leave.
- To give due weightage of the quality research output of the faculty members in their placement and promotions.
- To develop a research culture amongst the students by taking up the research oriented project work in their curriculum.
- To strongly discourage the various forms of plagiarism such as exact copying of material of other authors, misappropriating results/data of others with minor changes in language/presentation without giving credit to original source, and to publishing essentially the same information more than once.

3.4.6 Does the college promote interdisciplinary research? If yes, how many inter departmental /inter disciplinary research projects have been under taken and mention the number of departments involved in such an endeavor.

Yes. The interdisciplinary research is being promoted through the State *RUSA* (Research, Innovation & Quality Improvement) project funded by the MHRD, Govt of India. The detail is provided in previous subsection 3.1.5

3.4.7 Mention the research awards instituted by the College

The college awards an appreciation certificate to the faculty members who have published their research findings in SCI listed journals.

3.4.8 Provide details of

*** research awards received by the faculty**

- (i) Heino Tooming Award to : Keul, Alexander; Brunner, Bernhard; Korff, Melanie; Sharma, Sanjay; Roy, Partha; Allen, John; Bowden, Katie A.; Aini, Mat Said; Elistina, Abu Bakar; Ab Kadir, Mohd Zainal Abidin; Gomes, Chandima; Taszarek, Mateusz, for a presentation “Severe weather and psychology –Analysis of international survey data” in the 8th European Conference on Severe Storms (ECSS) at Wiener Neustadt, Austria during Sep14th -18th, 2015.
- (ii) Best paper Presentation Award [Partha Roy; Research Scholar] in the NESAC_Academia Interaction at NESAC Shillong on 24th June 2016.
- (iii) Acharya Jagdish Chandra Bose Post Doctoral Fellowship [Dr. Moakum] instituted by the MoEF, GoI and administered by the Botanical Survey of India (BSI), 2014-2017
- (iv) Travel Award [Dr. Sanjay Sharma] by UGC for participation in International conference [Toulouse, France] -2012
- (v) Travel award [Dr. Sanjay Sharma] by DST for participation in International conference [Palma De Mallorca, Spain] -2011

*** recognition received by the faculty from reputed professional bodies and agencies**

- Executive member of the IEEE Geoscience and Remote Sensing Society (GRSS), Kolkata Chapter [Dr. Sanjay Sharma, Department of Physics]

3.4.9 State the incentives given to faculty from receiving state national and international recognitions for research contributions.

As of now, none

3.5 Consultancy

3.5.1 What is the stated policy of the College for structured consultancy? List a few important consultancy services undertaken by the College.

At present there is no policy of the college on the structured consultancy. In the recent past as per the circular from the Directorate of Higher Education, Nagaland, the college carried out a massive exercise to draft the state contribution to National Education Policy. At first, the draft was prepared at department level and thereafter at college level. After completion, it was sent to the Directorate. The two faculty members (Dr. L Sema, department of Geology and Dr. S Sharma, Department of Physics) were deputed to the state level consultative meet on National Education Policy.

3.5.2 Does the College have College-industryconsultancy cell? If yes, what is its scope and range of activities?

No.

3.5.3 What is the mode of publicizing the expertise of the College for consultancy services? Mention the departments from whom consultancy was sought.

As of now, there is no provision for publicizing the expertise of the college for consultancy service. Teachers at individual levels are engaged in the consultancy service at a modest level. At present faculty members from Zoology (Dr. Limatemjen) and Botany (Dr. Moaakum) are consultants for projects under the Ministry of Development of North East Region (MoDONER) in partnership with GIZ (Germany) for the fishery and to the Department of Forest and Wildlife conservation, Govt of Nagaland for floristic studies, respectively.

3.5.4 How does the College encourage the faculty to utilise the expertise for consultancy services?

As such there is no stated policy of the college for consultancy services. The faculty members at individual level are engaged in consultancy service either on paid basis or on voluntary basis.

3.5.5 List the broad areas of consultancy services provided by the College and the revenue generated during the last four years.

- (i). fresh water fishery
- (ii). River ecology
- (iii). Floristic study

(iv) Water quality check

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the College sensitize the faculty and students on Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience.

Through exhortations and teacher-student interactions. The social commitments are largely fulfilled by the vibrant Students' Union body, the NSS unit and the Evangelical Union of the college. The college authority believes that such awareness to the needs of the society will bring about all round development of the students.

A list of some social outreach programmes is as follows

- a. Blood Donation Camps.
- b. Social works in the campus and outside the campus.
- c. Visit of the group of students to orphanages house.
- d. Tree plantation drives.
- e. Organize awareness programs on various social issues.
- f. The college provided Computer lab facility to APTECH Computer India Ltd. to conduct the computer based exam for the Union Public Service Commission.

3.6.2 How does the College promote College-neighborhood network and student engagement, contributing to holistic development of students and sustained community development?

The college rises to the occasion in the event of calamities affecting communities whether near or far. The need to aid and assist such needful communities are discussed and planned out in meetings convened by the college authority whenever the need arises or even among the students themselves as part of their yearly activity. The students' union, the evangelical union and the NSS unit of the college are socially conscious and often conduct outreach programmes directed at aiding the stricken, poor and marginalized sections of the society such as orphanages, poor villagers, victims of calamities and the like. Environment oriented projects are also taken up by the NSS unit and the Nature Club of the college. The NSS unit educates villagers on environmental care,

carry out tree plantation programmes, organize cleanliness drives in the campus and the neighbourhood, etc.

3.6.3 How does the College promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International agencies?

The college NSS unit was established in the 1970s. Since then it has been growing and now has an active membership of approximately 550 volunteers and three Programme Officers (PO). The Red Ribbon Club (RRC) has also been incorporated in the NSS. The major activities of the college NSS unit are blood donation, social works and organizing the awareness program. The college NSS unit has been given the sobriquet “*Blood Bank of Kohima*” by the Naga Hospital as the college unit constantly provides blood in time of need. The institution organizes an Orientation Programme annually so that the fresh students are properly oriented on the programmes of NSS, RRC. Students are encouraged to join these organizations and likewise their responses have also been healthy. We try our best to follow what is given in the NSS manual and ‘develop the personality of the student through community service’. At the moment, one PO of the NSS is also a Nodal Officer of the RRC. The NSS volunteers are also members of the RRC.

In the year 2015, the 1st Naga Girls Battalion NCC has adopted Kohima Science college under its unit. Special camps for NSS and Certificate Examinations for NCC are conducted annually. On an average 45-50 NSS Certificates are given annually. In NCC 20-25 cadets get through their *B* and *C* certificate exams annually. Some of them are now serving as officers in the military in various parts of India. The college also has the Evangelical Union (EU). Though membership is strictly voluntary, the EU is very effective.

Table 3.25: Participation of Students in Extension Activities (NCC)

| Year | Nature of activities | Activities |
|-------------|-----------------------------|-------------------|
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|------|-----|---|
| 2016 | NCC | <p>No.1 NL AIR SQN (FLG) NCC:</p> <ul style="list-style-type: none"> • CUO Mejungsungkum Longkumer was a part of Indian delegation (12 cadets) to Srilanka under Youth Exchange Program during Oct 12th – 26th, 2016. • Two cadets SUO Pfulo Magh and CUO Mejungsungkum Longkumer participated in Republic Day Camp, in New Delhi during Jan 1st– 28th, 2016. They participated in the Republic Day Parade at Rajpath, and met with the president, Vice President and Prime Minister of the country. • Four cadets participated in AIVSC at Jodhpur during Oct 15th -26th, 2016. • A contingent from the college participated in the Independence Day Parade at Secretariat Plaza, Kohima (State level) and bagged 2nd position in marching-unarmed category. • CUO Kholi Chalhei attended Air Force Academy attachment camp at Dundigal, Hyderabad during June 19th -Jul 2nd, 2016. • A contingent from the college participated in the Republic Day Parade at Secretariat Plaza, Kohima (State level) and bagged 2nd position in marching-unarmed category. |
| 2015 | NCC | <ul style="list-style-type: none"> • Participation in Map reading by the cadets of 1 Naga Girls Battalion, Army and Air Wing in the college auditorium on Sep 4th, 2015. <p>Naga Girl Battalion:</p> <ul style="list-style-type: none"> • Participation in Combined Annual Training Camp -I (CATC-I) (5 cadets) during Oct 15th -25th, 2015 at Medziphema. • Participation in CATC-IV- pre – Special National Integration Camp (SNIC) (8 cadets) during Dec 12th - 22nd, 2015 at Dimapur. • Participation in SNIC (6 cadets) during Dec 30th - Jan 10th, 2016 at Dimapur. <p>24th NL Naga (I) COY NCC (Army Wing):</p> <ul style="list-style-type: none"> • Participation in National Integration Camp (NIC) (5 cadets) during Dec 15th -28th, 2014 at Warangal |

| | | |
|------|-----|--|
| | | <ul style="list-style-type: none"> • Participation in Basic Leadership Camp (5 cadets) during Aug 26th - Sep7th, 2015 at Agartala. • Participation in CATC-I (8 cadets) during Oct 15th-25th, 2015 at Medziphema. • Participation in CATC-IV –Pre SNIC (6 cadets) during Dec 12th-22nd, 2015 at Dimapur. • Participation in SNIC (4 cadets) during Dec 30th, 2015-Jan 10th, 2016 at Dimapur. • Participation in NIC (10 cadets) during Jan 8th- 19th 2016 at Dimapur. <p>No.1 NL AIR SQN (FLG) NCC:</p> <ul style="list-style-type: none"> • Participation in NIC (10 cadets) during Jan 3rd- 14th, 2015 at Dimapur. • Participation in the 66th Republic Day parade, Jan 26th, 2015 at Secretariat complex, Kohima (<i>won first position</i>). • Participation in Basic Leadership Camp (5 cadets) during Aug 28th –Sep 6th 2015 at Swaldagan, Tripura.. • Participation in Pre <i>Vayu Sainik</i> Camp (PVSC), (12 cadets) Sep 14th -24th, 2015 at Umroi, Shillong. CATC (7 cadets) during 24th September- 3rd October, 2015 at Umroi Cant Shillong and All India <i>Vayu Sainik</i> Camp (AIVSC) (2 cadets) during Oct 5th -19th, 2015 at Jodhpur. |
| 2014 | NCC | <ul style="list-style-type: none"> • NCC Students participated in NIC (Silchar), CATC – I (Kohima), II (Dimapur), III (Dimapur), PVSC (Shillong) and AIVSC (Bengaluru). • NCC Air Wing: awarded 1st prize in Independence Day parade on Aug 15th, 2014 at Nagaland Secretariat, Kohima. |
| 2013 | NCC | <p>NCC (Air Wing)</p> <ul style="list-style-type: none"> • The Ministry of Youth Resources and Sports, Govt of Nagaland organized a Blood Donation Camp on July 30th, 2013, where 18 cadets attended the camp out of which 14 cadets donated their blood. • Under the aegis of social activities, 11 cadets from the college led by Group Commander Col. Paramveer Singh visited the Kohima Orphanage Home on Sep |

| | | |
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| | | 22 nd , 2013. |
| 2012 | NCC | <p>NCC (Air Wing)</p> <ul style="list-style-type: none"> • Two cadets attended the CATC, held at Nagaland Armed Police Training Centre (NAPTC), Chumukedima during Jan 20th to Feb 1st, 2013. • Ranking ceremony was hosted at the college campus, where 17 cadets were promoted to various ranks. • Four cadets attended the flying camp held at Umroi, Shillong during the July 7th - 17th, 2013. • The 2nd CATC was held at Imphal from August 8th to 20th, 2013. Four cadets from the college participated in the camp. • Cadets participated in the 66th Independence Day parade. The cadets also took part in the function at <i>Raj Bhavan</i>. • 9 cadets representing Nagaland took part in the selection round for the PVSC held at Guwahati from October 30th to 18th, 2013. Three cadets were further selected to compete at the AIVSC, Bengaluru, of which one cadet was selected as the main flyer for the North East Region, the first cadet from Nagaland to be selected as a flyer. <p>24th Naga (I) Coy NCC</p> <ul style="list-style-type: none"> • Participated in the CATC (9 cadets), during June 23rd - July 2nd, 2012 at Dimapur. • Participated in the SNIC (4 cadets) during July 19th - 30th, 2012 at Srinagar, Jammu & Kashmir • Participated (contingent) in the Independence Day parade at Secretariat Plaza, Kohima Aug 15th, 2012) • Participated (one cadet) in the TSC during August 16th - Oct 8th, 2012 at Dergaon, Assam. • Twenty three cadets cleared the B certificate. <p>NO 1 (NL) AIR SQN (FLG)</p> <ul style="list-style-type: none"> • CWO Mechieh Chirero attended the Republic Day Camp during October 29th - February 4th, 2012/13 in New Delhi. Participated in Prime Minister's March Pass. He was further selected for the Youth Exchange Program (YEP) held in Russia (the cadet |

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| | | <p>could not attend the YEP due to the university exam).</p> <ul style="list-style-type: none"> • Participated (2 cadets) at NIC during Jan 2nd-12th 2012 at Tezpur University. • Participated in Flying Camp (11 cadets) during July 24th – 30th, 2012 at Jorhat, Assam. • Participated in PVSC (14 cadets), during Sep 16th -26th, 2012 at Guwahati, Assam. • Participated in AIVSC (2 cadets) during Oct 8th -18th, 2012 at Jakkur Bengaluru. • Participated (contingent) in the Independence Day parade at New Secretariat Plaza Aug 15th, 2012. Bagged the 2nd position in unarmed category. |
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Table 3.26: Participation of Students in Extension Activities (NSS)

| Year | Nature of activities | Activities |
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| 2016 | NSS | <ul style="list-style-type: none"> • A team of 10 NSS volunteers from the college participated in “Winter Adventure Camp” at West Kaming, Arunachal Pradesh during Nov 1st -10th, 2016. • A team of 11 NSS volunteers participated in Digital India Program on Oct 31st, 2016. • The college unit celebrated NSS day by organizing blood grouping and blood donation camp on Sep 24th, 2016 in collaboration with the Naga Hospital Authority (represented by Dr V Khamo). 80 students tested their blood group and 08 students donated blood. |

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| 2015 | NSS | <ul style="list-style-type: none"> The college volunteers of the NSS took part in the massive cleanliness drive at various Directorates of the Government department under the <i>Swaachh Bharat Abhiyan</i> on 15th September 2015. The departments were (i) Fisheries, (ii) (iii) Art & Culture, (iv) Rural Development, (v) SIRD, (vi) Higher Education, (vii) Sericulture, (viii) Technical Education, (ix) Youth Resource and Sports, (x) Agriculture, (xi) Veterinary and Animal Husbandry and (xii) Public Works Department. Blood donation remained active throughout the year, donation to <i>Bethel</i> hospital, <i>Naga</i> hospital and <i>Oking</i> hospital |
| 2014 | NSS | <ul style="list-style-type: none"> NSS unit of the college organized several programs, namely NSS Special Camp (March 25th-30th, 2014), World Environment Day (June 5th, 2014), NSS orientation day (14th August, 2014), NSS Day (September 24th, 2014) National Blood Donation Day (1st October, 2014), <i>Swaachh Bharat Abhiyan</i> program (October 22nd, 2014) and World AIDS Day (October 1st, 2014). Participated in the “National Blood Donation Day” program (at Modern College, Kohima). NSS volunteers participated in the North East, NSS Festival (Imphal), National Youth Exchange and Home Stay Program (Vishakhapatnam), North-East Youth Festival (Aizawl) and Winter Adventure Camp (Manali). |
| 2013 | NSS | <ul style="list-style-type: none"> NSS volunteers participated in the program at Old MLA Hostel junction, where <i>Padma Shree</i> Neidonuo Angami and Shri Nicky Kire MLA spoke on the Theme: Getting to Zero: Zero New Infection, Zero Discrimination and Zero AIDS related deaths. The Snow adventure camp held in Shimla during March 5th -12th 2013. Seven NSS volunteers participated in the program. NSS Orientation Day was held for volunteers from B.Sc. 1st Semester on July 19th, 2013 Two volunteers participated in pre-Republic Day parade camp in Kolkata during October 21st - 30th, 2013. |

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| | | <p>The following are the activities taken up by the YRC Youth Red Cross (YRC) of the Kohima Science College:</p> <ul style="list-style-type: none"> • The 10 YRC Members participated in the painting competition organized by the Indian Red Cross Society, Nagaland Branch (IRCSNB) on June 14th 2013. The 1st and 3rd prize were begged by the two members of the college YRC. Appreciation certificates were presented to the outgoing YRC members of the college. • A special camp of the NSS was held at <i>Thekrunoma Khel</i> Jotsoma from April 1st to 13th, 2013 under the theme Healthy Living, Healthy Attitude. Sixty volunteers and three Program Officers (PO) participated in the camp. • World Environment Day was celebrated in the college by the NSS on June 5th, 2013. Volunteers planted shrubs and cleaned the college campus and distributed saplings provided by the Department of Land Resources, Govt of Nagaland • Social work was conducted in the college campus on 10th August, August 31st and October 21st, 2013. • The NSS volunteers participated in Blood Donation camp on 31st July, August 14th -15th 2013 • NSS Day was observed on September 24th, 2013 under the theme “STOP, LISTEN, TEST”. The <i>Kekhrie</i> Foundation and the Blood Bank, Naga Hospital Authority (NHA) conducted the blood test for HIV/AIDS. |
| | | <ul style="list-style-type: none"> • Teacher Councilor and 43 YRC members attended the World Blood Donors Day organized by the IRCSNB on June 14th 2013. Three students voluntarily donated blood on this day. |

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| 2012 | | <ul style="list-style-type: none"> • The NSS unit participated in the National Voluntary Blood Donation Day, which was organized by the Voluntary Blood Donors Association (October 1st, 2012). • The NSS unit participated in the World Habitat Day program (October 1st, 2012). • Volunteers of YRC Participated in the “World Red Cross Day” organized by the IRCSNB on May 8th, 2012. They carried out a tree plantation drive in and around the Civil Secretariat Complex, Kohima. • Participated (3 volunteers and teacher Councilor) in the 26th annual general meeting of the state IRCSNB on June 12th, 2012 held at the <i>Durbar Hall, Raj Bhavan</i>, Kohima. • Participated (2 Teacher Councilor) in the two days “Junior/YRC Counsellors’ Meet” on August 23rd-24th, 2012, at the Red Cross Conference hall, Kohima. • The YRC unit of the college observed an Induction and Pledge program on September 22nd, 2012. • The YRC unit of the college organized a one day “First Aid Training”, sponsored by the IRCSNB on October 16th, 2012. |
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The faculty members are also encouraged to take up extension activities. Teachers take part in science programmes organized by the state education department and central government institutions from time to time. These include the resource persons and mentors for National Children Science Congress (NCSC) activities, science exhibitions, scientific presentations, etc. The faculty members are also involved as reviewers for the research journal and resource persons to various government agencies. The details of the extension activities carried out by the faculty members of the college are listed below in the given table.

| Table 3.27: Participation of Faculty Members in Extension Activities | | |
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| Sl. No. | Name | Activities |

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| 1. | Ahmad, S F (Statistics) | <ul style="list-style-type: none"> Member of the interview board for “Engagement of UDC on a contract basis” under National Sample Survey Office, Ministry of Statistics and Programme Implementation, Field Operations Division, Kohima, Nagaland, held on Feb 10th 2012. Member of the interview board for “Engagement of LMV driver and peon on daily wage basis” under National Sample Survey Office, Ministry of Statistics and Programme Implementation, Field Operations Division, Kohima, Nagaland, held on May 14th, 2012. |
| 2. | Ali, M J (Statistics) | <ul style="list-style-type: none"> Advisory committee member, ENVIS centre-NIHESW (Nagaland Institute of Health, Environment & Social Welfare) under Ministry of Environment, Forest & Climate change. 2015 Paper presenter, on the occasion of the celebration of “Statistics Day” in the regional office, NSSO (FOD), Kohima, held on June 29th, 2012. |
| 3. | Angami, D (Zoology) | <ul style="list-style-type: none"> Organized NSS camp from May 25th- 30th, 2014 held under “Youth and Social Concerns” as Program Officer (2006-2014), National Service Scheme (NSS), Kohima Science College unit, Jotsoma under Nagaland University. Organized NSS camp from May 20th- 26th, 2015 held under “Current Affairs- Water Issue” as Program Officer (2010-2015), NSS, Kohima Science College Jotsoms unit, under NU. Voluntary Blood Donor to the Blood Bank, Government of Nagaland, on 11-4-12. PO, NSS, Kohima Science College, Jotsoma, attended the NSS camp held under ‘Youth for a more Sensitive Society’ from 10th April to 15th April, 2012. PO, NSS, Kohima Science College, Jotsoma, organized the NSS camp held under ‘Healthy Living Healthy Attitude’ from April 6th -12th, 2013. |
| 4. | Angami K (Botany) | <ul style="list-style-type: none"> Judge in the floral arrangement display during HornBill Festival, Nagaland, 2013. Co-authored the book “Blooming Tales” published by Nagaland Flower Growers’s Association in 2014. |
| 5. | Barman P (Statistics) | <ul style="list-style-type: none"> Peer-review member for <i>Indian Journal of Public Health</i> in assessing the manuscript “Breast and cervical cancer risk in India- An update”, 2013. Peer-review member for <i>Indian Journal of Public Health</i> in assessing the manuscript “Validation of short International physical activity” |

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| | | questionnaire Punjabi version in India ". 2013. |
| 6. | Doulo V (<i>Zoology</i>) | <ul style="list-style-type: none"> • 'Certificate of appreciation' received for rendering service during the 51st Parting Social of Kohima Science College Students Union on Nov 14th, 2012 • Master Trainer during the 12th Nagaland Legislative Assembly election in 2013. • Member, Board of Undergraduate studies, Department of Zoology, Patkai Christian College (Autonomous), Dimapur on Nov 20th, 2012. • Resource Person in the 49th General Session cum Golden Jubilee Pre-celebration of the Thetsumi Students Union' held from Oct 23rd - 24th, 2012. |
| 7. | Hiese V (<i>Botany</i>) | <ul style="list-style-type: none"> • Coordinator, Institutional Biotech Hub (DBT funded), KSCJ, Kohima. |
| 8. | Jamir S (<i>Botany</i>) | <ul style="list-style-type: none"> • CEO, Floriculture Unit, KSCJ, Kohima, 2016. • General Secretary, Nagaland Flower Grower's Society, 2016. • Co-authored "Blooming Tales: A Book on Flower Arrangement" by Nagaland Flowers Growers Association, 2014. • Judge in Science Exhibition under the theme "Green Environment" in commemoration of 53rd College Foundation Day on Sep 15th, 2014. |
| 9 | Jamir M R (<i>Anthropology</i>) | <ul style="list-style-type: none"> • Founding and life member of Anthropological Society of Nagaland. • Member of Red Cross Society, Nagaland. • Advisor of Beauty and Aesthetic Society of Nagaland. |
| 10. | Jamir T T (<i>Chemistry</i>) | <ul style="list-style-type: none"> • Resource Person in one day training workshop on Rashtriya Avishkar Abhiyan for Mathematics and Science Teachers and DIET Lecturers at Kohima on March 30th, 2016. • PO, International Australian Chemistry Quiz 2015 in India. |
| 11. | Kachhara C (<i>Physics</i>) | <ul style="list-style-type: none"> • Coordinator for a regional workshop on "Basic astronomy and telescope making school children" was organized in the college during Sep 26th -27th, 2014. The program was sponsored by IUCAA, Pune. • Coordinator for "Introductory Workshop on Astronomy and Astrophysics" sponsored by UGC-NERO, Guwahati. |
| 12. | Kapfo W (<i>Botany</i>) | <ul style="list-style-type: none"> • Member Music Task Force, Govt of Nagaland. • General Secretary of "Rattle and Hum Music |

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| | | Society”. |
| 13. | Kelhouletuonuo (<i>English</i>) | <ul style="list-style-type: none"> • Evaluator on the Ph.D. thesis titled “Plays of Tenyidie Literature: A case study” submitted by Neiphrezonuo, Dept. of Tenyidie under NU, 2014. • Co-supervisor of the Ph.D. work titled “Novels as philosophical explications: A critical study of Ayn Rand’s Novels” submitted by N. Selvaraj under Jamal Mohamed College (Autonomous), Tiruchirapalli, 2011. |
| 14. | Limatemjen (<i>Zoology</i>) | <ul style="list-style-type: none"> • Consultant for a project under Ministry of Development of North East Region (MoDONER) in partnership with GIZ in 2013. • Expert on the base line study on the river ecology of Dikhu river in Mokokchung and Zunheboto districts of Nagaland during Sep 10th - 15th, 2012. |
| 15. | Longkumer R (<i>Geography</i>) | <ul style="list-style-type: none"> • Head Examiner in Geography subject for HSSLC Examination 2013 under NBSE in 2013. |
| 16. | Longkumer A (<i>English</i>) | <ul style="list-style-type: none"> • Expert for selection of News Presenters for RNU, DDK, Kohima on June 25th & 26th, 2013. |
| 17. | Longkumer M (<i>Anthropology</i>) | <ul style="list-style-type: none"> • Member of Anthropological Society of Nagaland. |
| 18. | Meyase M Jamir S Mekro, V Hiese V Angami K Moaakum Therie W Yanthan M (<i>Botany</i>) | <ul style="list-style-type: none"> • Organized one day workshop on “Mushroom Cultivation” organized by the Department of Botany, and funded by Institutional Biotech hub, DBT at Kohima Science College, Jotsoma on Sep 27th, 2012. |
| 19. | Mekro V (<i>Geology</i>) | <ul style="list-style-type: none"> • Honorary Director, NIHESW from 2013 to till date. • Organized “Season watch” for school children in Kohima, as Honorary Director NIHESW in collaboration with WIPRO Bengaluru, May 16th, 2016. • Organized “Earthian 2016” for school Teachers of Kohima as Honorary Director NIHESW in collaboration with WIPRO Bengaluru, May 17th, 2016. • Nagaland state Govt nominee at the regional conference for Central Universities at GU, organized by the MHRD, Govt of India, 2016. • Coordinator, ENVIS for Nagaland under MoEF& CC, GOI • Principal Investigator and State Academic |

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| | | <p>Coordinator, NCSC for Nagaland under National Council for Science & Technology Communications (NCSTC) Network, Ministry of Science and Technology, GOI.</p> <ul style="list-style-type: none"> • Chief Editor, Published ENVIS Newsletter, Nagaland, under the MoEF & CC, GOI, 2013, 2014 and 2015. • Resource person at the State level workshop on Mathematics and Science on May 7th and 8th, 2015, organized by the State Council of Education, Research and Training (SCERT), Nagaland. • Academic Panellist at the Angami Students' Union conference on March 14th, 2015 on the topic "Our Fragile Ecosystem- Issues and Challenges". • Resource person at the 23rd State level NCSC on Oct 30th, 2015. Kohima, organized by NIHESW, Kohima, Nagaland. • Attended the North-East Connectivity Summit at Shillong from Nov 16th-17th, 2015, organized by the Federation of Indian Chambers of Commerce and Industries, North Eastern Council, Ministry of DONER and Government of Meghalaya. • Attended Coordination meeting of NCSC partners, during July 30th- 31st, 2015 at Chandigarh University, Mohali, Punjab, organized by NCSTC, Network, DST, GOI. • Attended the Regional Evaluation & Training workshop (Eastern & North Eastern) ENVIS Scheme in Guwahati on March 23rd and 24th, 2015, organized by the Assam Science Technology & the Environment Council (ASTECC), Guwahati and MoEF & CC, GOI. • Member, BOSSs in Geology, KSCJ, (Autonomous), Kohima. • Subject specialist at the celebration of "World Habitat Day" under the theme 'Changing Cities, Building opportunities' on Oct 1st, 2012. • Guest speaker on 'World Environment Day' organized by the DEO, Kohima in collaboration with the DST Nagaland, on June 5th, 2013. • Expert for a talk show in commemoration of 'World Environment Day' organized by the NIHESW, Kohima on June 5th, 2013. • Judge at the Kohima District Level Science Seminar commemorating the National Science Day held at St. Mary's Cathedral Higher Secondary School, Kohima on Feb 28th, 2012. • Resource person on the theme "Best Practices" in a seminar for Principals and Coordinators of secular |
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| | | <p>colleges in Nagaland, organized by the Directorate of Higher Education, Nagaland, Kohima on Sep 7th, 2012.</p> <ul style="list-style-type: none"> • Jurist in the Kohima district level science seminar to commemorate the celebration of National Science Day, organized by the The District Education Officer, Kohima in collaboration with the Directorate of Science & Technology, Nagaland, Kohima on Feb 28th, 2012. • Delivered a talk as a Guest of Honour during the 3-day National Seminar on the theme 'Impact of Commercialization and Communalization of Education in Naga Society' organized by the All India Forum for Right to Education and hosted by the Patkai Christian College, Seithekema-Chumukedima, 2016. • Delivered a talk on 'Environmental Concerns' during the workshop organized by the Angami Students' Union, 2016 • Panellist at a Television Talk Show during World Environment Day, organized by NIHESW Kohima, 2013. • Delivered 'Motivational Talk' to students at St. Joseph's College, Jakhama, 2013. • Member of the Nagaland State Biodiversity Board. • State Academic Coordinator, NCSC for Nagaland under NCSTC Network, DST, GOI. • Member, BOSS in Geology, Patkai Christian College (Autonomous) Seithekema, Nagaland. • Member of the Committee to review tenure posting policy for teachers and officers, Department of Higher Education, Govt of Nagaland. • Organized state level and Kohima district NCSC in 2012, 2013, 2014 and 2015. • Organized the Nagaland state team as the State Academic Coordinator to take part in the 23rd NCSC at Chandigarh University, Mohali, Punjab in 2015. • Chaired a session of the National Seminar on 'Society, Culture & Development: Emerging Issues in Nagaland', organized by the Asiatic Society, Kolkata and KSCJ Kohima, 2012. • Organized 'Hands on Science Workshop' for Science teachers of Nagaland as an Honorary Director of NIHESW, Kohima in collaboration with Vigyan Prasar, DST, GOI, 2016. • Attended the National Evaluation Workshop for ENVIS Centres in New Delhi, organized by World |
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| | | <p>Wild Life (WWF) India and sponsored by the MoEF &CC, GOI in 2016.</p> <ul style="list-style-type: none"> • Attended the Brainstorming session of ENVIS Centres of North Eastern and Eastern India at Gangtok, Sikkim, sponsored by the MoEF &CC, GOI. • Attended the INSPIRE State Level Science Exhibition as judge organized by the State Council of Educational Research and Training, Nagaland and sponsored by the DST, GOI in 2013. |
| 20. | Meyase, T G (<i>Mathematics</i>) | <ul style="list-style-type: none"> • Expert for a talk show in commemoration of 'World Environment Day' organized by the NIHESW, Kohima on June 5th, 2013. |
| 21. | Moaakum (<i>Botany</i>) | <ul style="list-style-type: none"> • Coordinator for "Awareness Program on "Medicinal Plant", organized by the National Medicinal Plant Board under the ministry of Ayush, Govt of India and State Medicinal Plant Board, Nagaland. • Resource Person during the "Conservation Assessment and Management Prioritization (CAMP) Process using IUCN Red List Categories and Criteria for Wild Medicinal Plants of Nagaland" workshop organized by the Department of Forest, Ecology, Environment and Wildlife, Govt of Nagaland and FRLHT, Bangalore during Sep 22nd -25th, 2015. • Judge, during Inter-class Debate Competition organized by the Department of Bachelor of Business Administration (BBA), St. Joseph College, Jakhama on Feb 20th, 2016. • Teacher-in-charge in Science Exhibition under the theme "Green Environment" in commemoration of 53rd College Foundation Day on Sep 15th, 2014. • Judge, Flower Arrangement Competition at the Hornbill Festival, Kohima, Nagaland in 2013. • Judge during the 52nd Freshers' Social Programme of KSCJ, Kohima Students' Union on July 25th, 2013. |
| 22 | Nagi K (<i>Anthropology</i>) | <ul style="list-style-type: none"> • Judge in the state level debate on "Which is Better: Energy Conservation or Power Generation", organized by the Nagaland State Designated Agency in collaboration with the Bureau of Energy Efficiency and Ministry of Power, Govt of India, Dec 15th, 2014. • A Master Trainer (Kohima District) for the 12th Nagaland legislative Assembly Election, 2013. • Executive member of Beauty and Aesthetic Society of Nagaland. |

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| | | <ul style="list-style-type: none"> • Founding member of Anthropological Society of Nagaland. • Principal Investigator of the unit “<i>Festivals and Associated Rituals: A Symbolic Representation of Cultural Values</i>” under the project “<i>Cultural History, Ethnography and Physical Characteristics of the Nagas of Nagaland</i>”, jointly undertaken by the Department of Art and Culture, Govt of Nagaland and Anthropological Society of Nagaland. |
| 23. | Neikha T (Botany) | <ul style="list-style-type: none"> • As Paper Presenter as a part of DNA Club Activity on the topic “Introduction to Biodiversity” at GHSS, Phek on July 22nd, 2013. • Resource Person, in Painting Competition on the theme “Genetically Modified Crops and Food Security” in commemoration of National Science Day at GHSS, Phek on April 19th 2013 • Teacher-in-charge in Science Exhibition under the theme “Green Environment” in commemoration of 53rd College Foundation Day on Sep 15th 2014. • Judge, in the District Level Science Exhibition on the theme “Wonders of Science” at Phek, on July 9th 2013. |
| 24. | Pandey S N (Mathematics) | <ul style="list-style-type: none"> • Evaluator of Ph.D. thesis of Jagannath Chowdhury, Dept. of Mathematics, Mizoram University. 2015. • Editorial Board Member (2011-2015) and Life Member of Jasper Progressive Science Society, Ballia, UP, India. |
| 25. | Pillai R V (Chemistry) | <ul style="list-style-type: none"> • Resource Person in a seminar on “Career Avenues” held at Baptist Mission Church on July 8th, 2012. • Evaluator for Ph.D. thesis submitted by J. Premakumari under Manonmaniam Sundaranar University, Tirunelveli, on July 31st, 2012. |
| 26. | Pongen A (Zoology) | <ul style="list-style-type: none"> • Organized the Science Exhibition 2014 under the theme “Green Environment” in commemoration of 53rd College Foundation Day, Sep 15th, 2014. |
| 27. | Punyu K (Chemistry) | <ul style="list-style-type: none"> • Panelist at the State Level Youth Convention 2013 organised by the Nehru Yuva Kendra Sangathan, Ministry of Youth Affairs (GOI), held on April 12th 2013. • Attended the 3rd School Board Meeting of the School of Engineering and Technology, Nagaland University on March 22nd, 2016. |
| 28. | Pusa N (Librarian) | <ul style="list-style-type: none"> • Resource person at Kohima College, Kohima, for the training on “the use and operation of Library software (Soul 2.0). • Organized a Book fair in the college in |

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| | | collaboration with Nimbus Book Distributer, Guwahati during Nov 9 th -11 th , 2016. |
| 29. | Puro S (<i>Geography</i>) | <ul style="list-style-type: none"> • PO, NSS, attended NSS camp from April 10th - 15th, 2012 held under “Youth for a more sensitive society”. |
| 30. | Sema L | <ul style="list-style-type: none"> • Participated in the state level consultative meeting on “National Education Policy” at the Directorate of Higher Education, 2015. • Member of the state level drafting committee of “National Education Policy”. |
| 31. | Sharma S (<i>Physics</i>) | <ul style="list-style-type: none"> • Executive member of the IEEE Geosciences and Remote Sensing Society, Kolkata Chapter. • Member of IEEE Geoscience and Remote Sensing Society (USA). • Member of European Severe Storm Laboratory (ESSL), Munchen Germany. • Life member of Indian Association of Physics Teachers (IAPT). • Life member of Indian Meteorological Society (IMS). • Member of School Board of Sciences of NU (2016-18). • Member of the Board of Examiners for evaluating the doctoral thesis entitled “Studies of Land Surface Microwave Emissivity using Satellite Observations”, submitted by Tinu Antony in the Faculty of Science, University of Kerala, Thiruvananthapuram, Kerala, India, February 2015. • Nodal Officer to the TWC (Technical Working Committee) on Climate, Kohima. • Resource Person on the topic “Use of soft Computing Techniques in Radar and Satellite Meteorology” from Nov 18th -24th, 2012 at the Department of Environmental Atmospheric Sciences, Pukyong National University, Busan, South Korea. • Reviewer in “Meteorological Applications” (2013,-14, -15, -16) (<i>Published by Wiley</i>). • As reviewer in “Theoretical and Applied Climatology” (in 2011, -12, -13). (<i>Published by Springer</i>). • Reviewer in “Advances in Space Research” in 2013 (<i>Published by Elsevier</i>). • Reviewer in “Atmospheric Research” (in 2012, -13, -14) (<i>Published by Elsevier</i>). • Reviewer in “Dynamic Meteorology and Oceanography” in 2014 (<i>Published by Tellus</i>). |

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| | | <ul style="list-style-type: none"> • Academic Counsellor for Bachelor Degree Programmes for course(s)- FST-1 at IGNOU Study Centre 2001, under IGNOU Regional Centre, Kohima, 2015. • Resource Person for Extended Contact Programme for PGDHE students of IGNOU Regional Centre Kohima on May 18th, 2014 on the topic “Examining <i>RUSA and</i> its implications for Higher Education”. • Member of organization committee for Science Exhibition 2014 under the theme “Green Environment” in commemoration of the 53rd College Foundation Day, Sep 15th, 2014. • State Representative to make a presentation on the State’s research proposal under “Component 8: Research, Innovation & Quality Improvement” • Resource Person in the training programme titled “Orientation of Master Trainers in Physics at the Higher Secondary Stage” from Feb 21st -25th 2012. • Subject Expert in the BUGS meeting of Patkai Christian College, Dimapur on Dec 1st, 2012 • Presiding Officer in the 12th Nagaland Legislative Assembly General Election on Feb 23rd, 2013. • Talk delivered on National Science Day 2014, organized by the Department of Science & Technology, Government of Nagaland and the District Education Officer, Kohima on Feb 28th, 2014. • Participated in the state level consultative meeting on “National Education Policy” at Directorate of Higher Education, 2015. • Member of the state level drafting committee of “National Education Policy”. • Department representative (Department of Higher Education Nagaland) to participate in a one day workshop on “Use of of Space Technology”, April 6th, 2016. • College representative for one day workshop on “Quality Enhancement Initiatives” organized by Department of Higher Education, Nagaland Sep 29th, 2015. • State representative for ‘ National Conference for Awareness on National Academic Depository’ at <i>Vigyan Bhawan</i>, New Delhi, Sep 9th, 2016. |
| 32. | Tetso D (<i>Anthropology</i>) | <ul style="list-style-type: none"> • Organizing secretary for the national Seminar “Cultural Heritage of Nagaland”, jointly organized by <i>IGRMS</i>, an autonomous organization of the Ministry of Culture, Govt of India, Bhopal and |

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| | | <p>KSCJ, Kohima, Sep 29th -30th, 2015.</p> <ul style="list-style-type: none"> • Supervisor in excavating and Dating Ancestral sites in and around Hutsu, village, Phek District, Nagaland in connection with Hutsu village Council, celebration of 50th years of the village re-establishment. • Teacher –in-charge in science exhibition under the theme “Green Environment” in commemoration of 53rd College Foundation Day on Sep 15th, 2014. • An invigilator for UGC NET exam held at Kohima Arts College, Kohima, June 29th, 2014. • Master Trainer (Kohima District) for the 12th Nagaland Legislative Assembly election, Feb, 2013. |
| 33. | Tokheni S (<i>Botany</i>) | <ul style="list-style-type: none"> • Organized one day workshop on “Mushroom Cultivation” organized by the Department of Botany, and funded by Institutional Biotech hub, DBT at Kohima Science College, Jotsoma on Sep 27th, 2012. |
| 34. | Veta N (<i>Physics</i>) | <ul style="list-style-type: none"> • Co-Coordinator for “Introductory Workshop on Astronomy and Astrophysics” sponsored by UGC-NERO, Guwahati |
| 35. | Whiso S (<i>English</i>) | <ul style="list-style-type: none"> • Organized NSS camp from May 20th- 26th, 2015 held under “Current Affairs- Water Issue” as PO (2010-2015), NSS, Kohima Science College unit, Jotsoma under Nagaland University. • Expert for a talk show in commemoration of ‘World Environment Day’ organized by the Nagaland Institute of Health , Environment & Social Welfare, Kohima on June 5th, 2013. • Attended the Orientation/ Refresher Course of National Service Scheme (NSS) organized by the Empanelled Training Institute, Ministry of Youth Affairs & Sports, Government of India and sponsored by The Indian Institute of Entrepreneurship, Feb 8th- 14th 2015. • Attended the three days Training of Trainers (ToT) on Gender Equity, organized by the RGNIFYD, Sriperumbudur, Tamil Nadu in collaboration with NSS cell, Department of Youth Resources & Sports, Nagaland, Kohima held at ATI, Kohima, March 26th -28th 2013. • Speaker in the 11th Symposium and Surin International Folklore Festival at Surindra Rajabhat University, Thailand during Jan 15th – 25th, 2016. |
| 36. | Yanthan M (<i>Botany</i>) | <ul style="list-style-type: none"> • UGC-NET exam invigilator held at the Kohima Arts College under Nagaland University, Centre |

| | | |
|-----|--|--|
| | | <p>Code 64 on Dec 28th, 2014.</p> <ul style="list-style-type: none"> • Guide, in supervising the M.Sc. dissertation titled “Overexploitation of wood in Kohima District, Nagaland” submitted by Neisevonuo Belho, Department of Environmental Science, The Global Open University, Nagaland in 2014. • Question Setter in connection with the recruitment of Secondary Teachers under <i>Rastriya Madhyamic Shiksha Abhiyan (RMSA)</i>, SCERT, Nagaland, Kohima in 2014. • Question Paper Setter for HSSLC Examinations conducted by the NBSE in 2013. • Liaison Officer to the Election Commission of India (ECI) Expenditure Observer for Kohima District during the 12th Nagaland Legislative Assembly election in 2013. • Liaison Officer to the ECI Counting Observer for Kohima District during the bye-election of the Nagaland Legislative Assembly election in 2014. • Judge, online photography contest series 1 “India Weaved in Frames” organized by the ‘Imagine’, Kerala, in 2014. • Judge, online photography contest series 2 “India Weaved in Frames” organized by the ‘Imagine’, Kerala, in 2015. • Judge, Indian Himalayan Photography competition, Kohima Summit, 2013. • Teacher-in-charge in Science Exhibition under the theme “Green Environment” in commemoration of 53rd College Foundation Day on Sept 15th 2014. • Involved in the conduct of Assembly of Voters to the Students’ Union Election, Kohima Science College (Autonomous), Jotsoma, 2012-2016. • Member, Redrafting Committee, Constitution, (Kohima Science College Teachers’ Association) KSCTA in 2012. • Judge, Flower Arrangement Competition at the Hornbill Festival, Kohima, Nagaland in 2012 • Judge, Cultural festival at St. Josephs’ College, Jakhama, 2014. • Advisor, Photography Club, KSCJ, Kohima, 2012-2016. |
| 37. | Zao V, Longkumer I Pongen A (Zoology) | 1. Organizer for the “ Three-Days Workshop on Basic Scientific Bee keeping ” held from Oct 24 th -27 th , 2014, in the Department of Zoology, KSCJ, Kohima, funded by the Directorate of Higher Education and Nagaland Bee-Keeping and Honey Mission (NBHM). |

3.6.4 Give details on social surveys, research or extension work (if any) undertaken by the College to ensure social justice and empower the under-privileged and most vulnerable sections of society?

Social survey of this kind is not carried out.

3.6.5 Give details of awards / recognition received by the College for extension activities / community development work.

Formally, the college has not received award/recognition for extension activities / community development work.

3.6.6 Reflecting on objectives and expected outcomes of the extension activities organized by the College, comment on how they complement students' academic learning experience and specify the values and skills inculcated?

Apart from classroom knowledge that the students acquire, the college strongly feels that extension activities provide hands-on experience which moulds them towards becoming more receptive to social responsibilities. Activities such as blood donation, aids during disasters, cleanliness drive, etc. are conducted from time to time or as and when such a need arises.

3.6.7 How does the College ensure the involvement of the community in its outreach activities and contribute to the community development? Detail the initiatives of the College which have encouraged community participation in its activities.

With a vision to provide science education to the mass the college was founded by the local community. Fifty acres of land were donated and the first approach road to the campus was cut by the Jotsoma villages, the present location of the college. The tradition of community participation towards the development of the college continues to this day.

The college has taken several initiatives in an effort to strengthen the outreach program to the neighbouring community. In this regard, the college Advisory Board was formed, headed by the Director, Higher education, the Principal of the college as member secretary and representative from the local community. The college has a provision for reservation of 5 seats for the local community of the Jotsoma village for admission to the college in its various programs. The NSS unit of the college has adopted the

“*ThekrunomaKhel*” of the Jotsoma Village for its outreach program. This outreach program provides an immense opportunity to the students of the college to have a first hand knowledge about the living condition of the people of the neighbouring area, to inculcate the sense of responsibility, in lifting the living standard of the people, and to develop leadership quality amongst the students. The NSS volunteers of the college conduct cleanliness drives in the public places, visit and interact with the aged people of the village and organize cultural programs involving the local community. The Youth organization of the local community has made the whole campus a tobacco free zone. The whole exercise of the outreach program towards the local community and their reciprocation has led to the academic development of the local society resulting in the best of the academic ambience and social harmony in the college campus, which is the prized treasure of the college. It is relevant to mention that the recently *Puli Badge Club* of the Jotsoma contributed towards beautification of the college.

In an effort to further extend its outreach program and to honour the “Founding Members” of the college, the college gives admission to students recommended by the family of the founding members (seven seats; one from each family), provided that the aspiring candidate fulfil the eligibility criteria for the admission. In recent times the college has been able to acquire the LAN, Broadband and the college website through the sponsorship of the family of one of its founding members. This has enabled all academic departments, library and the college office to be networked by the LAN which is fed by a Broadband connection of 2 Mbps. The entire academic campus is Wifi enabled through five access points.

The Alumni Association also plays an important role in its outreach program. The association is also contributing for the development of the college. In its second phase of fund drive code named “Project Alpha 2”. It has already initiated raising Rs. 1 crore for a girls’ hostel. The primary foundation work has already been laid with the ground floor almost completed. Efforts are on to further mobilize the fund drive so that the remaining works are completed on time.

3.6.8 Does the College have a mechanism to track the students’ involvement in various social movements / activities which promote citizenship roles?

As of now, there are no mechanisms in this regard.

3.6.9 Give details on the constructive relationships (if any) with other institutions in the nearby locality in working on various outreach and extension activities.

- As per the Govt notification no. HED/NAAC/Consultancy/2016, dated May 10th, 2016, the college is identified as a consultant to Phek Govt College for its preparation to NAAC accreditation.
- The college deputed the librarian to Kohima College, Kohima, for the training on “ the use and operation of Library software (Soul 2.0).
- Organized a Book fair in the college, in collaboration with *Nimbus Book Distributer*, Guwahati during Nov 9th -11th, 2016. Invitations were extended to other colleges of the town. The college representatives visited the stalls. There is a plan to make the book fair a annual event.
- The college organized a regional workshop on “ Basic astronomy and telescope making for school children” during Sep 26th -27th, 2014. The program was sponsored by IUCAA, Pune. The school students from the Nagaland and other the north east states participated in the program.
- The college extends help to other institutes by providing its sports ground facility for their annual sports meet. It is worth mentioning that due to the hilly terrain of the region, there are limited sports ground facility in Kohima.
- The college provides its computer lab facility to other Govt agencies for conducting the online exams.
- On invitation, the college students participate in various academic and cultural programs of other colleges.
- On invitation, the college students participate in special NSS and YRC, RRC activities of other colleges.
- Faculty of the college, help the school students of the locality to design and develop their science projects under various themes.
- The college opens its departmental museums to visiting school children.

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

As such, the college has not received awards for extension activities. Nevertheless

the college takes the pride by the fact that the college NSS unit has been given the sobriquet “*Blood Bank of Kohima*” by Naga Hospital, as the college unit constantly provides blood in time of need.

3.7 Collaboration

3.7.1 How has the College’s collaboration with other agencies impacted the visibility, identity and diversity of activities on the campus? To what extent has the College benefitted academically and financially because of collaborations?

The research collaboration has immensely enhanced the visibility and identity of the college by virtue of research publications in national and international journals and extramural research funding.

| Table 3.28: Name of the Departments Involved in Collaborating Research | | |
|--|--------------|--|
| Sl. No. | Department | Collaborating Agency |
| 1 | Anthropology | IGRMS, Bhopal. |
| | | Department of Health & Family Welfare, Govt of Nagaland |
| | | Department of Art & Culture, Govt of Nagaland. |
| | | Department of Planning & Coordination, Govt of Nagaland. |
| 2 | Botany | Department of Forest, Environment & Climate Change Govt of Nagaland. |
| | | NASTEC, DST, Nagaland. |
| | | IIM, Srinagar. |
| 3 | Physics | SAC, (ISRO), Ahmedabad. |
| | | NARL, Department of Space, Gadanki. |
| | | ISRO Radar Development Cell, Bengaluru. |
| | | Department of Psychology, University of Salzberg, Austria. |
| | | Department of Environmental Science, JU, Kolkata |
| | | Department of Environmental Science, GU, Guwahati. |
| | | Department of Physics, AU, Silchar. |
| | | Centre of Atmospheric Studies, DU Dibrugarh. |
| Department of Geography and Geology, NU. | | |

| | | |
|---|---------|---|
| | | Nagaland State Disaster Management Agency (NSDMA), Govt of Nagaland. |
| 4 | Zoology | Department of Zoology, NEHU Shillong. Zoological Museum and Institute, University of Hamburg, Germany. |

3.7.2 Mention specific examples of, how these linkages promote

- *Curriculum development : Nil
- *Internship, On-the-job training : Nil
- *Faculty exchange and development : Nil
- *Research, Publication: 11 (National and International)
- *Consultancy, Extension : 02
- *Student placement : Nil
- *Any other, please specify

3.7.3 Does the College have MoUs nationally / internationally ‘and with institutions of national importance/ other universities/ industries/corporate houses etc.? If yes, explain how the MoUs have contributed in enhancing the quality and output of teaching-learning, research and development activities of the College?

- The college has signed an MOU on behalf of the Physics Department with the Centre for Atmospheric Studies, Department of Physics, Dibrugarh University. Both the institutes have agreed to work together on the project “ Investigation of the structure and dynamics of the equatorial ionization anomaly along 95⁰E through a network of GNSS receiver” funded by the Department of Science and Technology, Government of India.
- An MOU signed between Department of Anthropology, KSCJ, Kohima and Department of History and Archaeology, NU, Lumami.
- An MOU signed between KSCJ, Kohima and with Surindra Rajabhat University Surin, Thailand for the cooperation in natural sciences and cultural exchange.
- An MOU signed on behalf of the Physics department, KSCJ Kohima with Surindra Rajabhat University Surin, Thailand, for the cooperation on application of remote sensing for the study of severe weather.
- An MOU signed on behalf of Physics department KSCJ, Kohima with

Department of Environmental Psychology, Salzburg University, Austria to study the psychological aspect in the context of preparedness and mitigation for severe weather.

3.7.4 Have the College industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?

N/A

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CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 How does the College plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

The college has a campus area of 133.75 acres (an academic complex of 6.17 acres). In the academic complex built up area is about 163247 sq. ft. Planning is need-based and all available infrastructures are fully utilized. The head of departments project their room/space requirements to the Principal, who in turn consults with the College Development Committee and Building-Construction Committee and based on need and availability, allotment is made. When the need arises the Conference Hall doubles as a lecture hall and the Auditorium is also used as an examination hall.

Each department maintains Stock Register which is constantly updated and all faculty members have access to it. Through this the status of the equipments/consumables is known to all the teachers.

4.1.2 Does the College have a policy for creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

Yes, some recent initiatives are given below:

- (i). Construction of faculty club is completed.
- (ii). Construction of girls day home is completed.
- (iii). Construction of the water tank is completed.
- (iv). Construction of separate central library building is in progress.
- (v). Construction of girls hostel is in progress
- (vi) Construction of two more classrooms to accommodate more students.
- (vii). An extension of one more floor for the construction of classroom (near Earth Science Building).
- (viii) Renovation and repairing of unutilized rooms.

(ix) Upgradation of classroom materials and equipments.

4.1.3 Does the College provide all departments with facilities like office room, common room, separate rest rooms for women students and staff?

The college has a common room and separate restrooms for women students.

4.1.4 How does the College ensure that the infrastructure facilities meet the requirements of students/staff with disabilities?

At the moment, the infrastructure is not a differently-abled friendly.

4.1.5 How does the College cater to the residential requirements of students? Mention

- * **Capacity of the hostels and occupancy (to be given separately for men and women)**
- * **Recreational facilities in hostel/s like gymnasium, yoga center, etc.**
- * **Broadband connectivity / wi-fi facility in hostel/s.**

The college has one girls' and three boys' hostels within the college campus. The details of each are given separately in the following table:

| Table 4.1: Available Government Hostel Facilities in the College Campus | | | | |
|--|----------------------------------|-------------------------------|---------------------------|-------------------------------|
| Hostels | Leone Hostel (Girls) | Lakeview Hostel (Boys) | Peak Hostel (Boys) | New Boys Hostel (Boys) |
| Capacity | 78 | 44 | 57 | 80 |
| Occupancy | 78 | 44 | 57 | 80 |
| Rooms | 34 | 18 | 38 | 50 |
| Recreational facilities | TV, Common room, Badminton court | TV, Common room | TV, Common room, T.T | TV, Common room |
| Broadband connectivity/wi-fi facility | No | No | No | No |

Two new buildings are under construction for women's hostel which will accommodate

300 students.

4.1.6 How does the College cope with the health related support services for its students, faculty and non-teaching staff on the campus and beyond?

There is a Primary Health Centre (1 full time doctor, 1 full time pharmacist, 2 full time nurses) set up in the college campus under the Department of Medical and Health, Government of Nagaland. A private pharmacy with doctor consultancy is also available in the vicinity of college campus,.

4.1.7 What special facilities are made available on the campus to promote interest in sports and cultural events?

The college has both indoor and outdoor games facilities such as table tennis, badminton, volleyball, football ground and basketball court. The college regularly organizes cultural programs where students participate in various programs such as ethnic dresses shows, ornament shows, singing and dances etc.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

The college has a Library Committee consisting of the

- i) Convener (a faculty nominated by the Principal)
- ii) Librarian (Member Secretary)
- iii) Members (one faculty from each department)

Some of the significant initiatives that have been implemented by the committee

- i) Replacement of old book racks.
- ii) Installation of Close Circuit Television (CCTV)
- iii) Purchase of Computers
- iv) Introduction and Commencement of OPAC.
- v) Introduction and Commencement of Automation (Bar-coding system)
- vi) Purchase of Newspapers (local as well as National), Magazines, Books and

Scientific journals.

vii) Separate broadband-internet connections for students in the library.

4.2.2 Provide details of the following:

- * **Total area of the library (in Sq. Mts.) = 350 sq. mts.**
- * **Total seating capacity = 50**
- * **Working hours (on working days, on holidays, before examination days, during examination days, during vacation)**

Working day = 7 hrs

Holidays = on request

Before Examination = 7 hrs

During Examination = 7 hrs

During vacation = 5 hrs

- * **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**

The layout is as follows:

i) Computer laboratory (IT) for browsing

ii) Science section room

iii) Room for Social Science and Reference books

iv) Separate room for OPAC

v) Room for Book Bank

- * **Access to the premises through prominent display of clearly laid out floor plan; adequate signage; fire alarm; access to differently abled users and mode of access to collection)**

i) Floor plan is clearly displayed at the entrance of the library.

ii) Signage (Sign and Symbol) are displayed

iii) Fire alarm system is not installed, but for precautions and safety

measures fire extinguishers are installed.

- iv) At the moment library is not differently-abled friendly.
- v) Mode of access to the library is through library card/ID card provided by the Librarian/College authority.

4.2.3 Give details on the library holdings Total No.

- | | |
|---|-----------------------------------|
| a) Print (Books, back volumes and thesis) | 24,500 Vol. |
| b) Non Print (Microfiche, AV) | Nil |
| c) Electronic (e-books, e-Journals) | e-books: 80409 e-journal: 3828 |
| d) Special collection (eg. Text book, Reference books, standards, patents) | 4,000 Vol. |

4.2.4 What tools does the library deploy to provide access to the collection?

- * Access to the collection through OPAC is available ✓
- * INFLIBNET is available for e- journal.
- * Through INFLIBNET e-publications can be accessed.

4.2.5 To what extent is the ICT deployed in the library?

- * Library automation is installed and functional ✓
- * Total number of computers for public access = 10 nos
- * Total numbers of printers for public access = 01 no
- * Internet bandwidth speed 2 mbps 10 Mbps 5B

4.2.6 Provide details (per month) with regard to.

- * Average number of walk-ins = 3000
- * Average number of books issued/returned = 780
- * Ratio of library books to students enrolled = 20:1
- * Average number of books added during last three years = 570
- * Average number of login to OPAC = No record (recently launched)
- * Average number of login to e-resources = 13 (last four years)

- * Average number of e-resources downloaded/printed = 2446 (last four years)
- * Number of information literacy trainings organized = 01

4.2.7 Give details of the specialized services provided by the library

- * Manuscripts = No service
- * Reference = Encyclopedia and various sciences related books
- * Reprography = One photo copier
- * Inter Library Loan (ILL) Service = No such service is available
- * Currently there is no Information Deployment but Notification services available
- * OPAC service is available through 10 computers
- * Internet Access is available through broadband and wifi
- * Download facility is provided
- * Print out facility is provided
- * There is no Reading list/ Bibliography compilation
- * There is no In-house/remote access to e-resources
- * User Orientation is held from time to time and guided by employees whenever assistance is required
- * Assistance in searching Databases services is given whenever required
- * INFLIBNET/IUC facilities are provided to institutional employees and students.

4.2.8 Provide details on the annual library budget and the amount spent for purchasing new books and journals.

| Table 4.2: Annual Library Budget | | | | |
|---|-------------------------------------|----------------------|--|--------------------|
| Year | Annual Library Budget (lakh) | Book purchase | Journal, Magazine & Newspaper | Amount (Rs) |
| 2012-2013 | 3.45 | 0.89 | 0.70 | 1.59 |
| 2013-2014 | 3.72 | 1.25 | 0.70 | 1.95 |
| 2014-2015 | 3.66 | 1.92 | 0.70 | 2.62 |

| | | | | |
|--------------|--------------|--------------|-------------|--------------|
| 2015-2016 | 4.77 | 0.70 | 0.70 | 1.40 |
| 2016-2017 | 7.70 | 2.34 | 0.70 | 3.04 |
| | 31.00* | 14.81 | NA | 14.81** |
| Total | 54.30 | 21.91 | 3.35 | 25.26 |

**Grant in Aid for PG program*

*** Further order of the books is under process.*

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services.

The college library maintains a register which records check-in and checkout. Along with this register, feedback about the library services has been initiated recently. The Library Committee analyse these feedbacks and work upon it. On the basis of these feedbacks, many new books have been procured. The Library Committee helps the faculty members for using INFLIBNET facility.

4.2.10 List the infrastructural development of the library over the last four years.

- i) Addition of book racks = 19 nos
- ii) Addition of tables and chairs = 20 +20 nos
- iii) Addition of computers = 3 nos
- iv) Addition of computer tables = 12 nos
- v) Addition of periodical racks = 3 nos
- vi) Room extension for OPAC
- vii) Addition of CCTV, drinking water facility & vacuum cleaner
- viii) Renovation of toilet
- ix) Additional room for book bank

4.2.11 Did the library organize workshop/s for students, teachers, non-teaching staff of the College to facilitate better Library usage?

Yes.

4.3 IT Infrastructure

4.3.1 Does the College have a comprehensive IT policy addressing standards on IT Service Management, Information Security, Network Security, Risk Management

and Software Asset Management?

No, at present the college does not have a comprehensive IT policy.

4.3.2 Give details of the College's computing facilities (hardware and software).

- **Number of systems with configuration**

| Table 4.3: Computing facility of the college | | | |
|---|----------------------|------------------------|--|
| Sl. No. | Particulars | No. of computer | Configuration/details |
| 1 | Computer lab | 20 | HP pavilion 21, all in one, core i3, 4gb RAM, 1TB HDD etc. |
| | | 33 | IBM, Intel P4, 80 HDD, 120MB RAM, 14" wide screen CRT Monitors, etc. |
| | | 1 | Server: Intel P4, 120 HDD, 512 DD RAM, 14" wide CRT Monitors, Combo drive etc. |
| 2 | Academic Departments | 79 | i) AMD, 120GB HDD, 1GB RAM, 14.5" LCD Monitor. ii) DELL: Intel core i3, 2GB RAM, HDD 320 GB, 18.5" LCD Monitor etc. |
| | | 33 | Laptops i) DELL: Intel corei3, 4 GB RAM, HDD 320 GB. ii) HP: Intel corei3, 2GB RAM, HDD 320 GB, iii) Acer laptop with similar configuration. |
| 3 | Library | 14 | i) Intel dual core, DDR3 2GB RAM. ii) Intel core i3, 2GB RAM, HDD 500 GB, 18.5" LCD Monitor etc. ii) Server: HP . |
| 4 | Printers | 39 (printers) | Products are from: RICOH, EPSON, HP, CANNON, HP with fax facility, Dot matrix, etc. |
| 5. | Software | | (i) Basic, Assembly, Fortran, C, Visual C++, C++, Perl, Oracle, Visual Studio, .Net, CASE Tools, In-Information Server (IIS), etc. (ii) MATLAB software along with the TOOL BOXES, (iii) RAOB, Windows 7 & 8, Windows Server 2003, (iv) SPSS. |

- **Computer-student ratio:** 1 : 1 (batch-wise)
- **Dedicated computing facility:** No
- **LAN facility:** All the academic departments, library, college office and computer laboratory are networked by 10 Mbps LAN with high speed 4

Mbps broadband connectivity through secured client-server system.

- **Wifi facility:** The college has Wifi facility.
- **Propriety software / Open source softwares:** No
- **Number of nodes/ computers with internet facility:** 94 computers in various departments, office, classroom, library, laboratories have internet connectivity with 2 Mbps and 4 Mbps broadband lines.
- **Any other:** None

4.3.2 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

Upgradation of existing IT infrastructure and purchase of new machines are as per need-based. At the moment only 15 class rooms (9 honours class room at UG level and 6 class room at PG level) are equipped with the ICT facilities. In future there is a plan to gradually equip more and more class rooms with the ICT facility. There is a plan to upgrade the internet speed also to have access to online classes.

4.3.3 Give details on access to online teaching and learning resources and other knowledge, and information provided to the staff and students for quality teaching, learning and research.

We offer a learning platform for software programme through spoken tutorials developed by IIT Mumbai.

4.3.4 Give details on the ICT enabled classrooms/learning spaces available within the College and how they are utilized for enhancing the quality of teaching and learning.

Nine honours classrooms with 30 to 40 seating capacity are fitted with interactive smart board with LCD projector for classroom teaching and demonstration.

PG Classes: 6 PG class rooms are equipped with the LCD projector.

4.3.5 How are the faculty facilitated to prepare computer aided teaching-learning

materials? What are the facilities available in the College or affiliating University for such initiatives?

The Faculty has been trained to use the Interactive Smart Board, animated clips, internet materials, etc, and how to prepare Power Point presentation. The faculty makes use of 4 Mbps Broadband service through the college LAN. The nine honours classrooms are fitted with interactive smart board with LCD projector for classroom teaching and demonstration.

4.3.6 How are the computers and their accessories maintained? (AMC, etc.)

Maintenance is through Annual Maintenance Contract (AMC).

4.3.7 Does the College avail of the National Knowledge Network connectivity directly or through the affiliating University? If so, what are the services availed of?

No.

4.3.8 Provide details on the provision made in the annual budget for update, deployment and maintenance of the computers in the College?

There is no specific budgetary allocation from the Govt for the upkeep of the facility. The repairing and maintenance is carried out by the concerned departments when the need arises. Some units are also covered under the AMC.

4.4 Maintenance of Campus Facilities

4.4.1 Does the College have an Estate Office/designated officer for overseeing maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

There is no such Estate Office/designated officer in the college, but the college has “College Development” and “Construction” Committees which oversee maintenance of buildings, class rooms and laboratories.

i) Extension/construction of rooms for classroom (near Earth Science Building)

ii) Construction of New Girls Common room (near English Dept)

- iii) Construction of new water reservoir of 25000 litres.
- iv) Overlaying of water pipeline to different departments.
- v) Extension of rooms for Examination branch.
- vi) White washing and painting of the college buildings.
- vii) Construction of flower beds.

4.4.2 Does the College appoint staff for maintenance and repair? If not, how are the infrastructure facilities, services and equipment maintained? Give details.

The Construction Committee of the college assesses the need and supervises the repair and renovation of physical infrastructure and related works. Services of trained professionals, private firms are also acquired for repair and maintenance of scientific equipments and machineries.

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CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the College have an independent system for student support and mentoring? If yes, what are its structural and functional characteristics?

For student support and mentoring, various committees are formed, headed by a convener of each committee. The details are provided in the table below.

| Table 5.1: List of Committees for Student Support and Mentoring | | |
|--|---|---|
| Sl. No | Name of the committee | Name of the convener |
| 1. | Student Mentoring Committee | Aier I A (Principal) |
| 2. | Student's Grievance Redressal Committee | Hiese V (Botany) |
| 3. | Anti Sexual Harassment Committee | Sema T (Botany) |
| 4. | Disciplinary and Anti Ragging Committee | Aier I A (Principal) |
| 5. | "Good Samaritan Fund" (Support fund for economically challenged meritorious students) | Nyienu V (Physics) |
| 6. | Corpus Fund for Poor student (Jubilee Trust) | Aier I A (Principal) |
| 7 | Earn While You Learn | Doulo V (Zoology) Kapfo W (Botany) Jamir S (Botany) |
| 8. | Parent –Teacher Association (PTA) | Er. Nakhro V, Supt. Engineer (Department of Power)-President |

- Yes. Each teacher is assigned a number of students to form a Mentoring Cell. The Mentoring Cells meet once in a month. During such meetings the Mentees are encouraged to open up issues relating to their academic progress and/or problems, personal problems and pursuance of professional career. The mentor keeps a record of the progress of their ward.

- The Student's Grievance Redressal committee helps to support a student in difficulty through advice, counselling and any other help if necessary so that his/her academic activities are not hampered in any manner.
- Disciplinary and Anti Ragging Committee was formed under the directives of the Hon'ble supreme court of India through the Nagaland university. Ragging has always been looked upon as a serious offence by the college and it shall continue to campaign against ragging. The college has zero tolerance towards the ragging. This committee also looks into any other disciplinary problems, which may arise in the college campus.
- With the initiative of the faculty members of the college, the "**Good Samaritan Fund**" has been established to support the economically challenged meritorious student. For this scheme, teachers contribute generously on an annual basis. The initial outcome of this scheme is positive. For example, a student supported under this scheme at Higher secondary level topped the board exam in class 12 and has taken the admission in BSc Mathematics (Honours) under CBCS. There is consistent effort to strengthen this scheme.
- Under "Earn While You Learn" scheme a mini printing press unit has been established to undertake minor printing works such as printing of bulletins, programme sheet, booklets, brochures and photo copying of books and journals. Students are also trained in mushroom spawn production and Cultivation. This scheme also includes Floriculture. The students participating in these schemes are paid from the proceeds of sales and service charges.
- The Parents Teachers Association provides a platform for the interaction between parents of the students and teachers. It provides an opportunity to discuss student related issues in a holistic way. The Parent Teacher Association conducts the meeting frequently. The meetings were generally attended by all the office bearer and a good number of parents. The important recommendation of these interactions is the establishment of the Corpus fund for the scholarship to the poor students of the college. This recommendation has led to the establishment of the " Good Samaritan Fund" for economically challenged meritorious student. This fund is sponsored by the faculty members of the college. Subsequently, it has resulted in an establishment of "Jubilee Trust Fund" a corpus fund" to support the economically challenged meritorious students. The Chief Minister of

Nagaland has contributed Rs. 2.0 lakhs for this fund. There is an effort to increase the base amount of the coupus fund.

5.1.2 What provisions exist for academic mentoring apart from class room work?

- The college provides career guidance, academic and personal counselling. Students also interact and consult with successful and resourceful alumni.
- Through the Mentoring Cell which meets once a month, students academic progress is monitored and remedial measure are taken wherever necessary.

5.1.3 Does the College provide personal enhancement and development schemes for students? If yes, describe techniques employed e.g., career counselling, soft skill development, etc.

Yes. The college has various vibrant committees headed by the respective teacher in-charge and represented by the students. The college has Career Guidance and Students Counselling Cell, NCC, NSS cell, various clubs and literary committee.

| Table 5.2: List of committees for personal development of the students | | | |
|--|---|------------------|--|
| Sl. No | Student related Committee/Council | | Staff Advisor and Student Representative |
| 1. | Career Guidance and Student Counselling Committee | | Devrani M (Physics) |
| 2. | NCC | Army wing | (i).Ao N M , (Chemistry) Care Taker Officer (ii). Senior Under Officer (Student) |
| | | Air force wing | (i). Hesielle R (Chemistry) Care Taker Officer (ii). Senior Under Officer (Student) |
| 3. | NSS and RRC | | (i). Angami D (Zoology) (PO) (ii). Therie W (Botany) (PO) (iii). Konyak S (Anthropology), (PO) (iv). Student leader |
| 4. | Club | Science Club | (i). Kachhara C (Physics) (ii). Secretary (Student) |
| | | Photography Club | (i). Yanthan M (ii). Secretary (Student) |
| | | Nature's Club | (i). Moaakum (Botany) (ii). Secretary (Student) |
| | | YRC | (i) Jamir TT (Chemistry) (ii) Secretary (Student) |
| 5. | Literary Committee | | (i) All the Faculty of the English Dept. |

| | | |
|--|--|-----------------------------------|
| | | (ii) Mr. Meyase T G (Mathematics) |
| | | (iii) Student representative |

- The “Career Guidance” and “Student Counseling” Committees conducts various programmes on career guidance and provide the platform for students to interact and consult with successful and resourceful alumni. Besides, the Cell also provides relevant academic and career information. Academically weak students are identified and mentored on a one-to-one basis.

- The NCC with the motto “Duty and Discipline” is considered one of the largest and the most disciplined youth organizations in the country. The college has a very strong unit and it has been regularly winning awards and recognition at the state and regional levels. The army wing of the college falls under the jurisdiction of 24th NAGA (INDED) COY. The air wing falls under the jurisdiction of No. 1 (NL) AIR SQN NCC (FIG). Joining the NCC is a good initiative for those who are inclined to choose careers in defense services. Cadets are encouraged to appear for B and C certificate examinations which helps them in getting into the defense services. Many of our Alumni have been able to get into defense service through the NCC. One of the most illustrious alumni of the college is **Capt. Kenguruse** recipient of *Maha Veer Chakra* (Posthumously) for his outstanding heroism during the *Kargil* war in 1999.

- The NSS with the moto “Not Me but You” helps to develop the personality of a student through community service. The main objective of the program is to inculcate a sense of duty among the students in nation building particularly in rural area. The NSS volunteers of the college earn a “B” certificate, which provides them an advantage in getting admission into higher classes in the university or getting jobs. The certificate is awarded to NSS volunteers who faithfully clocks 120 hours of service (including the special camping) in one academic program. The certificate bears the signature of the Vice Chancellor, NU and the State Liaison Officer, Department of Sports and Youth Affairs, Govt of Nagaland. The college has around 500 volunteers and it has adopted the *Thekrunoma Khel* in Jotsoma village under the NSS program. The RRC of the college is

also a part of the NSS unit.

- The Science Club, Photography Club and Nature's Club provide the platform and encourage the students to take part in the activities of the respective club. Various activities are carried out by each club throughout the year.

- The college has a unit of the YRC, which is an integral body of the Indian Red Cross Society. The objectives of the YRC are to inculcate in the students the ideal and profile of humanitarian service, especially in relation to the care of their own health and that of others, the understanding and acceptance of civic responsibility and the maintenance of the spirit of friendliness towards other youths all over the world. The four main thrusts of the YRC are (i). Promotion of life and health (ii). Community service (iii). International friendship and understanding and (iv) Dissemination of Red Cross and Red Crescent Principles and International Humanitarian Law.

5.1.4 Does the College publish its updated prospectus and handbook annually? If yes, what are the activities / information included / provided to students through these documents? Is there a provision for online access?

- Yes, an updated Prospectus and Handbook are published annually by the College. The prospectus along with the application form for admission is issued for all courses. The prospectus contains information about the UG and PG courses offered, admission rules, reservation rules, admission procedure, eligibility for admission, documents to be produced at the time of admission, fee schedule and hostel facilities.

Prospectus provides information on -

- A brief profile of the college, vision and mission of the college.
- Course design, admission procedures, reservation rules, eligibility and the fee structure to courses offered- UG and PG.
- Quality control systems
- Rules and regulations for the students
- Knowledge and learning resources
- Amenities available

- Extracurricular and extension activities
- Scholarship and awards
- Name of the faculty
- Academic calendar
- Social etiquettes
- College anthem

5.1.5 Specify the type and number of scholarships / freeships given to students (UG/PG/M.Phil/Ph.D./Diploma/others in tabular form) by the College Management during the last four years. Indicate whether the financial aid was available on time.

Faculty of the college encourages and helps economically weak and meritorious students by sponsoring under various categories:

(a). With the contributions from the Teaching staffs a fund called the ‘Good Samaritan Fund’ is made available for Meritorious students who are in need of financial support. Such students are identified and their studies are supported through this fund.

(b). To further encourage the students to excel in their respective disciplines the teachers sponsor cash awards and certificates to gold medallists and toppers of different disciplines –

| Sl. No | Name of the award | Discipline |
|---------------|--|-------------------|
| 1 | Neilhouzhü K. Angami Meritorious Award | Life Sciences |
| 2 | K. Sekhose Meritorious Award | Humanities |
| 3. | Rev. Haizotuo Munshi Meritorious Award | Mathematics |
| 4 | Akum Imlong Meritorious Award | Chemistry |
| 5 | J.B.Jasokie Meritorious Award | Earth Sciences |
| 6 | U.M. Deb Meritorious Award | Statistics |
| 7 | Vizol Meritorious Award | Physics |

The Campus Christian Fellowship (CCF) has also set up a separate fund to financially assist genuine cases in need of financial aid.

5.1.6 What percentage of students receives financial assistance from state government, central government and other national agencies? (e.g., Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)

The majority of the students are from Scheduled Tribes. Of the total number of students about 50% of them avail the Post Matric scholarship. Another 50% avail the Nagaland Merit Scholarship.

5.1.7 Does the College have an International Student Cell to cater to the needs of foreign students? If so, what measures have been taken to attract foreign students?

- No, but in future, necessary steps will be taken to attract foreign students.

5.1.8 What types of support services are available for

*** overseas students**

NA

*** physically challenged / differently abled students**

- The College abides by the Government of India Policy on Reservation where 3% of the seat is reserved for the Persons With Disabilities (PWD) during admission into the UG and PG courses.

*** SC/ST, OBC and economically weaker sections**

- The College abides by the Government of India Policy on Reservation where 15% of the seat is reserved for SC; 7.5% for ST and 27% for the OBC.
- The college provides necessary assistance for the students to apply for financial assistance from the government.
- A teacher funded scholarship is made available for the economically weak students.
- The 'Earn While You Learn' schemes also helps to the socially and economically weaker sections among the students.

*** students to participate in various competitions/ conferences in India and abroad**

- The college encourages and motivates the students and scholars to participate in various competitions, seminars, workshops and conferences held at the state, regional and national levels. The NCC cadets, from both Army and Air Wings, are encouraged to participate in the state level and national level selection camps and competitions.

- Relaxation in attendance is given to such students. Whenever need arises re-exams are conducted for such students.

* **health centre, health insurance etc.**

The institution has a health Sub-Centre at its premises which provides basic and urgent medical aid. The centre provides free First Aid, free medicines for common ailments, and gives special duty in the College during Board/ University exams besides others.

* **skill development (spoken english, computer literacy, etc.,)**

- The Department of Computer Science in collaboration with National Institute of Electronics & Information Technology (NIELIT) offers a three month Course on Computer Concept (CCC) for the Undergraduate students. The course is designed to impart basic knowledge in computers. The course is offered free of cost for the SC/ST students.

- Skill development is imparted in the field of: Electronics-Circuit design and Repairing; Apiculture; Floriculture; Mushroom spawn production and cultivation and basics of printing works under the “Earn While You Learn” scheme where the students not only learn the skill but are also paid from the proceeds of sales and charges.

* **performance enhancement for slow learners / students who are at risk of failure and dropouts**

- Through the “Mentoring Cell” the academically weak students are assisted.

* **exposure of students to other institutions of higher learning/ corporates/business houses, etc.**

- The college invites outstanding Alumni in various fields to give motivational talks

* **publication of student magazines**

The college has a Literary Committee comprising of teachers and a student representative as Literary Secretary. The Committee publishes the following:

- a) Illume (Annual College magazine)
- b) Scintilla (monthly bulletin) and
- c) Esprit (Winfest daily bulletin)

The students are encouraged to contribute articles and exhibit their skills and

improve their talents through the various magazines and bulletins published by the college. Dr. S.K. Dey Literary Award comprising of cash prize and Commendation Certificate is given to the best original work during the annual Literary Competition held at Winfest. This helps to encourage and promote students in creative skills. The award is sponsored by a group of teachers.

5.1.9 Does the College provide guidance / coaching classes for Civil Services, Defense Services, NET/SLET and any other competitive examinations? If yes, what is the outcome?

No. As of now there is no provision for any guidance/ coaching classes for competitive examination, but such guidance are given by the teacher in the classroom.

5.1.10 Mention the policies of the College for enhancing student participation in sports and extracurricular activities through strategies such as

- * **additional academic support, flexibility in examinations**

Concession, in attendance, is granted to the students and re-tests are conducted whenever required.

- * **special dietary requirements, sports uniform and materials**

No

- * **any other**

Blood Donation Day and Environmental Day are observed in the form of blood donation and tree plantation drives.

5.1.11 Does the College have an institutionalized mechanism for placement of its students? What services are provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?

- As of now there is no institutionalized mechanism for the placement of its students. The pass out students are primarily motivated to go for the postgraduate studies and other courses available at the university level.
- The Career Guidance and Students Counselling Cell provide advice and guidance to the students. Through this the students are provided up-to-date employment trends and

options.

- Entrepreneurial skills are imparted through various schemes – Electronics: Circuit design and Repairing; Apiculture; Floriculture; Mushroom spawn production and Cultivation and basics of Printing works.

5.1.12 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus annually for the last four years).

NA

5.1.13 Does the College have a registered Alumni association? If yes, what are its activities and contributions to the development of the College?

Yes, the institution has a registered “Alumni Association”. The association works closely with the college fraternity for all round development of the college. It has distinguished alumni occupying important positions within the state and outside the state. The list office bearers are provided in the Table below

| Table 5.4: Office Bearers of the Alumni Associations | | |
|---|-------------------------------------|--|
| Sl. No | Office Bearer | Name |
| 1 | President | Mr. Renthungo Jungio |
| | Vice President | Dr. Ketshukietuo Mr. David Koza |
| 2 | General Secretary | Ms. Avelu Ruho |
| | Joint Secretary | Ms. Asangla Imsong Mr. Nitho Kuotsu |
| | Treasurer | Ms. Rondensungla Longkumer |
| | Statistical secretary | Er. Imsanenla |
| | Publicity and Information Secretary | Mr. Ajen Joshua Lkr |
| | Finance Secretary | Mrs. Akunu S. Meyase |
| 3 | Executive members | Dr. Vituo Belho Dr. Lily Sema Mrs Thungbeni Ms. Sungtinaro, Mr. Asu Keyho, |

| | | |
|--|-------------------------|---|
| | Advisors | Er. Limanaro Er. Medozho Zango, Dr. Joyce Dr. Sukhato, Mr. Megoneitso |
| | District Representative | 1. Dimapur: Dr. Mughavi & Mr. Imkongmenla 2. Mokokchung: Mr. Tia Molier & Mr. Chiratho 3. Phek: Mr. Tosovil 4. Zunheboto : Mr. Nokchasashi & Mr. Shikato 5. Wokha: Mr. Chenithung 6. Tuensang: Mr. Sanglee 7. Mon: Mr. Mosa 8. Longleng: Mr. Ongshao 9. Kiphire : Mr. Zakabo 10. Peren : Mr. Imsongmeren |

The association offers guidelines to the students for higher education and employment opportunities. They are presently onto their Project Alpha 2 where a 50-bedded Girls' Hostel is being constructed.

5.1.14 Does the College have a student grievance redressal cell? Give details of the nature of grievances reported and how they were redressed.

Yes, the Students Grievance Redressal Cell provides its support to solve the problems of the students at various levels. After studying the case corrective measures are taken. So far grievances are verbal in nature which have been resolved amicably.

5.1.15 Does the College have a cell and mechanism to resolve issues of sexual harassment?

Yes, the *Anti Sexual Harassment Cell* is set up to look into such issues.

5.1.16 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes. The *Anti-Ragging Committee* is functioning effectively to prevent ragging. Regulations on curbing the menace of ragging are published in the college Hand Book and warning boards are displayed at various places on the campus. No case has been reported in the last four years.

5.1.17 How does the College elicit the cooperation from all stakeholders to ensure overall development of the students considering the curricular and co - curricular activities, research, community orientation, etc ?

The college gets the utmost co-operation and support from all the stakeholders to ensure overall development of the students. Parents Teachers Association (PTA) which meets annually facilitates and encourages parental participation in expressing their valuable suggestions for the development of the students. Teachers take efforts to implement the suggestions positively. The Alumni association has a close association with the college fraternity with a view to uplift the College. The students are encouraged to voluntarily take part in extension activities and various awareness rallies. The College Advisory Board comprising of representatives from the administration, academicians and the local area representatives and faculty member, provide their support and guidance for the development of the students.

5.1.18 What special schemes/mechanisms are in place to motivate students for participation in extracurricular activities such as sports, cultural events, etc?

- The college provides immense opportunity to participate in extracurricular activities in a wide range of domain, such as sports, cultural and academic cultural activities, through various cells and committees in the college. The activities are carried out under the teacher in-charge. There is vibrant NCC and NSS cell are there in the college. Their participation to various activities are summarized in the following table.
- The college organizes a week long annual *WinFest* which is an extracurricular activity held to promote self development and encourage maximum student participation. Various competitions in the field of sports, Literary, Flower Shows, Painting and Photography are conducted and prizes and commendation certificates are awarded to the achievers. Each activity is carried out with the supervision and active involvement of a Teacher/s in charge.
- The Dr. S K Dey Literary Award, sponsored by a group of his admirers and

friends, is awarded to the best original poem/essay/short story. The award comprises of a cash prize of Rs. 5000/-and a Commendation Certificate.

- The “*Rock Star*” Award to a student of Geology (honours) for his/her overall best performance. The award is sponsored by the alumni of the Geology department.
- Concession in attendance is granted to the students and re-tests are given, whenever required.

5.1.19 How does the College ensure participation of women in ‘intra’ and ‘inter’ institutional sports competitions and cultural activities? Provides details of sports and cultural activities in which such efforts were made?

There is no gender disparity in any competition or cultural activities. Female student takes equal participation in all ‘intra’ and ‘inter’ institutional sports competitions and cultural activities

5.2 Student Progression

5.2.1 Provide details of programme-wise success rate of the College for the last four years. How does the College compare itself with the performance of other autonomous Colleges / universities (if available)

As out of the three existing programs, namely BSc, BA and MSc, the latter two are introduced from the academic session 2016-17 onward only. Therefore the pass percentage and completion rate are provided for B.Sc. program only. The composite results of the last four years are provided in the following Table 5.5. In order to have a more insight of the performance of the students in last four years, the performance of the students in terms of their order of merit for each course is provided in the following table.

| Table 5.5: Pass % of the B.sc. Students during the last four years | | | | | | | | | |
|---|-----------------|----------|--------------|---------------|----------|--------------|------------------------------|----------|--------------|
| Year | Appeared | | | Passed | | | Passed with above 60% | | |
| | M | F | Total | M | F | Total | M | F | Total |
| 2012-13 | 59 | 73 | 132 | 56 | 67 | 123 | 38 | 58 | 96 |

| | | | | | | | | | |
|---------|-----|----|-----|----|----|-----|----|----|-----|
| 2013-14 | 61 | 53 | 114 | 59 | 50 | 109 | 45 | 38 | 83 |
| 2014-15 | 112 | 98 | 210 | 97 | 82 | 179 | 63 | 62 | 125 |
| 2015-16 | 56 | 71 | 127 | 46 | 42 | 88 | 35 | 42 | 77 |

In order to have more insight on the performance of students in last four years, the performance of students in terms of their order of merit for each course is provided in the following table

| Table 5.6: Order of merit during the last four years | | | | | | | | |
|---|-------------------|---|-------------------|---|-------------------|------------------------|-------------------|---|
| | 2012-13 | | 2013-14 | | 2014-15 | | 2015-16 | |
| | Gold Medal | University Rank | Gold Medal | University Rank | Gold Medal | University Rank | Gold Medal | University Rank |
| Anthropology | Yes | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 | Yes | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10(1), 10(2), 11, 12, 13, 14, 15, 16 | Yes | 01 | Yes | 1, 2, 3(1), 3(2), 4, 5(1), 5(2) 6, 7, 8 |
| Botany | Yes | 1, 2, 4, 8, 9, 10, 14, 17, 18(1), 22, 24, 27, 28, 29, 31, 33(1), 33(2), 35, 36, 37, 38(1) | Yes | 1(1), 2, 3, 6(1), 6(2), , 8, 9, 16, 20(1), 20(2), 24, 26(2), 30 | Yes | 01 | Yes | 1, 2, 7, 8 |
| Chemistry | No | 0 | No | 0 | Yes | 01 | Yes | 1, 7, 8 |
| Geography | Yes | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, | Yes | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 | Yes | 01 | Yes | 1,2,3,4,5 |
| Geology | Yes | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10(1), 10(2), 11, 12. | Yes | 1, 2, 3, 4, 5, 6(1), 6(2), 7, 8, 9, 10, 11 | Yes | 01 | Yes | 1, 2,3, 4, 5 |

| | | | | | | | | |
|-------------|-----|---|-----|---|-----|---|-----|---------------------------|
| Mathematics | Yes | 1, 2 | No | 0 | Yes | 1 | Yes | 1, 2 |
| Physics | Yes | 1, 2 | Yes | 1, 3 | Yes | 1 | No | 0 |
| Statistics | Yes | 1, 2 | Yes | 1 | Yes | 1 | Yes | 1 |
| Zoology | Yes | 1, 2, 3, 8, 9, 10, 11, 14, 17(1), 17(2), 19, 23, 25(1), 28, 36(1), 39, 42 | No | 2(1), 5, 8, 12, 14, 15, 21, 25, 28 | No | 0 | No | 2(2), 5(1), 5(2), 6, 8, 9 |
| General | Yes | 1, 2, 4, 5, 6, 8 | Yes | 1, 2, 3, 4, 5, 6, 8, 9(1), 9(2), 10, 11 | Yes | 1 | Yes | 1, 3, 8, 10 |

5.2.2 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the observed trends.

Data are not available

5.2.3 What is the Programme-wise completion rate/dropout rate within the time span as stipulated by the College/University?

Dropout rate in the UG and PG (Average for the last two batches):

UG: (a) 21% (last two years) (b) 13% (last five years)

PG: NA (first batch admitted in 2016)

5.2.4 What is the number and percentage of students who appeared/ qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.

The PG Programme has just started so the percentage of students who appeared/ qualified in examinations like UGC- NET, is not relevant. However, it is known through informal discussions and Alumni meetings that a number of students appeared and passed various competitive examinations in Central, State, Defense and Civil Services during the last four years.

5.2.5 Provide details regarding the number of Ph.D/D.Sc./D.Litt. theses submitted, accepted, resubmitted and rejected in the last four years.

Table 5.7: Detail of the Ph.D. Thesis

| Sl. No. | Name of the Students | Title of the Thesis/Synopsis | Name of the Supervisors | Name of the University for Ph.D Registration | Present Status |
|---------|--------------------------------|---|--|--|---|
| 1. | Dutta D(Regular) | <i>Study of the properties of Mesoscale Convective Systems over tropics (20⁰ N-20⁰ S) and its application in rain retrieval</i> | <i>Supervisor:</i> Sen G K, School of Oceanography Studies, Jadavpur University, Kolkata <i>Co-Supervisor</i> (i). Dr. Sanjay Sharma, Dept. of Physics, KSCJ, Kohima | Jadavpur University, Kolkata. | Ph. D degree awarded in 2013 by Jadavpur University, Kolkata. Joined as Project Scientist -C in National Centre for Medium Range Weather Forecasting (NCMRWF) (Under the Ministry of Earth Sciences), New Delhi. |
| 2. | Roy P (Regular) | <i>A study on structural and microphysical properties of rain bearing convective clouds over Indian summer monsoon region</i> | <i>Supervisor</i> Desmukhya A, Asso. Prof., Department of Physics, Assam University, Silchar. <i>Co-Supervisor</i> Sharma S, Dept. of Physics, KSCJ, Kohima | Assam University, Silchar. | JRF in RUSA (R & I) project. Final registration is completed. |
| 3. | Misra U (Part Time Scholar) | <i>Study of regional variability of south west monsoon system over Indian subcontinent</i> | <i>Supervisor</i> Desmukhya A, Asso. Prof., Department of Physics, Assam University, Silchar. <i>Co-Supervisor</i> Sharma S | Assam University, Silchar. | Asstt. Prof., Department of Physics, Patkai Christian College, Dimapur Nagaland. Registered for Ph. D. program. |

| | | | | | |
|----|---|---|--|--|--|
| | | | Dept. of Physics, KSCJ, Kohima | | |
| 4 | Sarma A C <i>(Part Time Scholar)</i> | Study of Mesoscale Convective Systems with respect to prevailing environmental conditions and microphysical characteristics of rainfall | <i>Supervisor</i> Desmukhya A, Asso. Prof., Department of Physics, Assam University, Silchar. <i>Co-Supervisor</i> Sharma S, Dept of Physics, KSCJ, Kohima. | Assam University, Silchar. | Head, Department of Physics, Patkai Christian College, Dimapur Nagaland. (Thesis submission is due in Dec 2016) |
| 5. | Gopesh G K | Geochemistry of clay and its environmental impacts at Northern kerala | <i>Supervisor</i> Prof Rajan Dept. of Geology, Govt Engineering College, Calicut Kerala <i>Co-Supervisor</i> Pillai R V Dept. of Chemistry KSCJ, Kohima | Bharathair University, Coimbatore | Registered |
| 6. | Selvaraj N | Novels as philosophical explications: A critical study of Ayn Rand's Novels | Co-Supervisor Kelhouletuonuo Dept. of English, KSCJ, Kohima | Bharathidasan University, Tiruchirapalli | Registered |

5.3 Student Participation and Activities

5.3.1 List the range of sports and games, cultural and extracurricular activities available to students. Provide details of participation and program calendar.

The College organizes the week long *WinFest* during which period the various activities are carried out.

Table 5.8: List of Sports/Cultural/Extracurricular Activities

| Sports and games events | | | | | | |
|--|---------------|--------------------------|-------------------|-----------------------|------------------------------|--------------------|
| 1. Football | 2. Basketball | 3. Volleyball | 4. Badminton | 5. Cricket | 6. Table Tennis | |
| 7. Long jump | 8. High Jump | 9. Discus Throw | 10. Javelin Throw | 11. Shot Put | 12. Tug of War | |
| 13. Carom | 14. Chess | 15. Greasy Pole climbing | 16. Arm Wrestling | 17. Marathon Race | 18. Relay Race | 19. Mixed Relay |
| | | | 20. 100 m Race | 21. 200 m Race | 22. 400 m Race. | |
| Cultural and extracurricular activities | | | | | | |
| 1. Debate | 2. Extempore | 3. Quiz | 4. Painting | 5. Flower arrangement | 6. Cultural and Fashion show | 7. Songs and Dance |

Each event is supervised by the teachers which encourages the participation of students. Further, regular attendance ensures the participation and regularity of the students. Various cultural and extra-curricular activities are arranged for the students on special occasions and college day celebrations. Students in large numbers take part in these activities. The program calendar is prepared every year and intimated to the students through the College Prospectus and Handbook for Students. The event is usually slated in the later part of November or the first part of December

5.3.2 Provide details of the previous four years regarding the achievements of students in co-curricular, extracurricular activities and cultural activities at different levels: University / State / Zonal / National / International, etc.

- The institution has a strong student body who takes part in various co-curricular and Extra Curricular activities. The students are motivated to take part in a number of activities and competitions at the state, zonal and national levels. Students of these forums, actively participated and bagged awards at the state and national level. The details of participation and the achievements of students in co-curricular activities are given in the following tables (Table 5.9 (a-f)).

Table 5.9 (a): Performance of the students in cultural activities

| Year | Name of the student | Award |
|-------------|--------------------------------------|--|
| 2015-16 | Zenwang Konyak, Kevisede Savino, and | A project demonstration of Tea Leave Cutting |

| | | |
|---------|--|---|
| | Daniel Konyak, B. sc 1 st semester | Machine (TLCM), was adjudged within top five projects during September 1-4, 2016. <i>Tech Expo under the TECHNICHE festival at IIT, Guwahati (Regional).</i> |
| | Ms. Veibeizonuo Rupreo, 5 th Sem | 2nd position in inter college debate competition on: <i>“Clean Election is Possible in Nagaland”</i> , DC court Kohima (Zonal). |
| | Kohima Science College Students Union | Best Discipline , Convergence Fest 2015 St. Joseph College, Jakhama (Zonal). |
| | Mr. Amit of 3 rd Sem, | 1st position in Convergence Fest 2015 St. Joseph College, Jakhama. ‘Extempore’ (Zonal). |
| | Ms. Vilasanuo 3 rd Sem | 1st position in Convergence Fest 2015 St. Joseph College, Jakhama. ‘The voice’ (Zonal). |
| | Mr. Peihauding 3 rd Sem | 2nd position in Convergence Fest 2015 St. Joseph College, Jakhama. ‘Mad ads.’ (Zonal). |
| | Mr. Sangtiba Jamir 3 rd Sem | Adjudged ‘Mr. Convergence’ , Convergence Fest 2015 St. Joseph College, Jakhama (Zonal). |
| | Ms. Tsumian Lam | 1st position in Essay Competition under the Theme <i>“Professionalism and Hard Work towards Sustainable Development”</i> (Zonal). |
| | Mr. Bunkiu and Mr. Dimple of 4 th Sem | 2nd Best Team, <i>North East India Inter College Debating Competition</i> organised by Sonapur College, Assam, (Regional). |
| | Mr. Bunkiu and Mr. Sushant Kumar of 4 th Sem | 2nd position in <i>Power Point Presentation in Eureka Fest</i> organised by St. Joseph, Jakhama (Zonal). |
| 2014-15 | Ms. Veibeizonuo Rupreo, 3 rd Sem | Best Debater & Overall Second position , Inter College Debate Competition on the topic <i>“Naga Society adheres to Moral Value”</i> Sazolie College, Jotsoma (Zonal) |
| | Mr. Veibeizotuo(5 th Sem), Mr. Talilepden(1 st Sem) and Mr. Zuthungbemo (5 th Sem) | 1st position in Advertisement, Convergence Fest 2014 St. Joseph College, Jakhama. (Zonal). |
| | Mr. Sushant Sharma and Mr. Bhibhash Jha of 1 st Sem | 2nd position in Business Quiz: Convergence Fest 2014 St. Joseph College, Jakhama (Zonal). |
| | Mr. Zuthungbemo 5 th Sem | 2nd Position in Debate Convergence Fest 2014 St. Joseph College, Jakhama (Zonal). |
| | Ms. Veibeizonuo Rupreo of 3 rd Sem | 3rd Position in Debate Convergence Fest 2014 St. Joseph College, Jakhama (Zonal). |
| | Mr. Sangdongkaba, 4 th Sem | Best Bassist , Inter College Gospel Beat Contest Kros College, Kohima (Zonal). |
| | Ms. Veibeizonuo Rupreo 4 th Sem | 1st Position in Solo Competition), Inter College Gospel Beat Contest, Kros College, Kohima (Zonal). |

| | | |
|---------|--|---|
| 2013-14 | Mr. Seso Tsühah Mero, 3 rd Sem | 3 rd position in Techno Art in Tech Aura Festival 2013, School of Engineering, Dimapur (State) |
| 2012-13 | Ms. Keviphruitsuo BSc. 3 rd Year | Best Guitarist , All Nagaland College Students Union (ANCSU) Inter College Sports Meet cum Music Fest, Salt Christian College, Dimapur (State) |

Table 5.9 (b): Performance of the students in social activities

| Year | Name of the student | Award |
|---------|---|---|
| 2015-16 | The 10 YRC Members participated in the painting competition | The 1 st and 3 rd prize in painting competition were bagged by the two members of the college YRC, on June 14 th , 2013. Organized by the IRCSNB Kohima (Zonal). |

Table 5.9 (c): Performance of the NCC students (Army Wing)

| Year | Name of the student | Award |
|---------|---|---|
| 2015-16 | Cdt Sushant (along with other cadets of NER group). | 2 nd position in National Integration Awareness Presentation (NIAP), Special National Integration Camp: Jan 3 rd -14 th , 2015, Patkai Christian College, Chumukedima (State). |
| | Sgt Asakho | 1 st position in lecturette competition. Basic Leadership Camp (BLC), 2015, Agartala (Regional). |
| | Cdt Mughashe | 1 st position in solo competition, CATC-I (NCC): Oct 15 th -25 th 2015, SFS Medziphema, Dimapur (State). |
| | Cdt Kupeto | 2 nd position in shooting competition, CATC-I (NCC): 15 th -25 th Oct 2015, SFS Medziphema, Dimapur (State). |
| | Sgt Juliveer | 1 st position in solo competition, SNIC (NCC) at Patkai Christian College, Chumukedima (State). |
| 2014-15 | i) Cpl Keviprasa Rolnu ii) Cdt Sushant Sharma iii) Cdt Juliveer Thüvüry iv) Cdt Asakho v) Cdt Ramu Thapa (Represented NER directorate). | 2 nd position in volleyball tournament, NIC (NCC): 2014, Warangal, Telengana (National). |
| 2013-14 | JUO Intiwapang | First position in firing competition, CATC (NCC), 2013 Dimapur (State). |

| | | |
|---------|--|--|
| 2012-13 | Junior Under Officer (JUO). Rasuka Jacob. | 3 rd position in extempore speech competition, CATC (NCC), 2012, Chumukedima (State). |
| | i) Senior Under officer (SUO) Yikhiichu ii) Sgt Polto Kera iii) Sgt Atok Konyak iv) Sgt Imtiwapang (Represented NER Directorate). | 1 st position in Group song competition, SNIC (NCC), 2012, Srinagar, Jammu & Kashmir (National) |
| | JUO Asangpangba Camp Level-III represented North-East Region | Bronze medal in Shooting, Inter-directorate Shooting competition, New Delhi (National) |

Table 5.9 (d): Performance of the NCC students (Air Wing)

| Year | Name of Cadet | Achievements |
|------|---|---|
| 2016 | CUO Pfulo Magh | Best Cadet NER, (Regional) All India RD marching contingent (RDC, New Delhi) (National). |
| | Sgt. Mejungsungkum | YEP selection (Sri Lanka) PM's Rally contingent. (RDC, New Delhi) (National/International). |
| 2015 | CUO Pfulo Magh Sgt. Kholi Chachei | Best Cadet Award Gold medallist in group discussion (BLC, Salabagan, Agartala). |
| | CWO Weto Kreo Sgt. Yamso Chio | Represented NER in SOP, tent pitching. Self-piloting Microlight plane, Flying experience in MI-17, (AIVSC, Jodhpur), (National). |
| 2014 | Sgt. Dimple Lama Sgt. Pheloseno Shaiza | Flying experience in AN-32, Represented NER in SOP and health & hygiene (AIVSC, Bengaluru), (National). |
| 2013 | CWO Shahyong konyak | Main Flyer for NER., Flying experience in MI-17. (AIVSC, Bengaluru), (National). |
| 2012 | CWO Mecie Chiero | All India Guard of Honour, Selected for Youth Exchange Program; Russia (Could not participate in YEP due to final examination) (RDC, New Delhi), (National/International). |
| | Cpl. Lallianmawai Sgt. Yawao Konyak | Self-piloting the micro light plane (AIVSC, Bengaluru), (National). |
| | Atokali | Best Cadet Award. |
| | Anato | Best Cadet Award. |

| Table 5.9 (e): No. of cadets qualified for C certificate (Air Wing) | | | |
|--|------|----------------------|----------------|
| Sl. No. | Year | Total Cadet Appeared | Total Cleared |
| 1 | 2012 | 22 | 22 (National) |
| 2 | 2013 | 10 | 10 (National) |
| 3 | 2014 | 10 | 10 (National) |
| 4 | 2015 | -- | --- |
| 5 | 2016 | 11 | Yet to Declare |

| Table 5.9 (f): Performance of the college NCC contingent in the Republic/Independence day parade (Air Wing) | | | | |
|--|------|----------------------------|------------------------|-------------------------|
| SL. No. | Year | Parade Name | Platoon Commander | Position |
| 1. | 2016 | 1. Republic Day Parade | CUO N Ching kai Konyak | 2 nd (state) |
| | | 2. Independence Parade | CUO Philayo | 2 nd (state) |
| 2. | 2015 | 1. Independence Day Parade | SUO Kaithu Thupita | 1 st (state) |
| | | 2. Republic Day Parade | CUO N Ching kai Konyak | 1 st (state) |
| 3. | 2014 | Independence Day Parade | SUO Kaithu Thupita | 1 st (state) |
| 4. | 2012 | Independence Day Parade | SUO Seyieneizo | 2 nd (state) |

5.3.3 How often does the College collect feedback from students for improving the support services? How is the feedback used?

The College collects feedback from the students annually. Details of the feedback are made available to the teachers for remedial action. The interactive meeting among the Principal and Staff helps to improve the student support services.

5.3.4 Does the College have a mechanism to seek and use data and feedback from its graduates and employers, to improve the growth and development of the College?

Yes, the College collects feedback from its graduates and employers - from the Alumni through personal meetings, annual alumni meet; Suggestions are taken in from staff/teachers during the periodical meetings. Such feedbacks are assessed and suggestions are taken up for consideration at the Staff Council meetings.

5.3.5 How does the College involve and encourage students to publish materials like

catalogues, wall magazines, College magazine, and other material? List the major publications/ materials brought out by the students during the previous academic session.

The college has a Literary Committee comprising of Teachers and a Student Representative as Literary Secretary. The Committee publishes the following:

- a. Illume (Annual College magazine)
- b. Scintilla (monthly bulletin) and
- c. Esprit (Winfest daily bulletin).

The students are encouraged to contribute various articles in the magazines published by the college. Dr. S.K. Dey Literary Award comprising of cash prize and Commendation Certificate is given to the best original work during the annual Literary Competition held at Winfest. This helps to encourage and promote students in creative skills. During the last four years the award has been given to the following students:

| Table 5.10: Name of the recipient of S K. Dey Literary Award | | |
|---|--|---|
| Year | Awardees | Title of Article |
| 2012 | Visede Liegise Cl. 12 | Essay on 'Winfest 2012' |
| 2013 | Yekiho Sumi Cl. 12 | Essay on 'Science Education in the Last Fifty Years' |
| 2014 | Tsumian B.Sc. 6 th Semester | Essay on 'Technology is Changing the Face of Education' |
| 2015 | Jonathan S Singsit | Short Story on 'Beneath the Surface' |

5.3.6 Does the College have a Student Council or any similar body? Give details on its constitution, major activities and funding.

- The College recognizes student body called the Kohima Science College Students' Union (KSCSU) and the Evangelical Union (EU).
- In the KSCSU the Principal is the President and the Vice Principal is the Vice President of the Union. Staff Advisors to the various Clubs are nominated by the Principal. Through the students general elections the students elect their representatives for one academic year to the posts of General Secretary, Assistant General Secretary, Games

and Sport Secretary, Boys Welfare Secretary, Girls Welfare Secretary, Secretaries of various clubs, class representatives.

Major activities:

- Organizing Annual College socials, Winfest and other Student activities.
- Social works are carried out every month in and around the college.
- Carry out Volunteer works on various occasions of the College and Inter collegiates functions.
- The Union takes serious concern for the discipline of the students and supports the college in administration.
- Helps the needy students in times of difficulty and calamities.
- The KSCSU successfully organized and celebrated its Golden Jubilee in March 2016 where the Honourable Chief Minister of Nagaland graced the occasion as the Chief Guest.
- The “Jubilee Trust Fund” a corpus fund is established with a contribution of Rs. 2.0 lakhs from the chief minister of the state.

The EU is headed by its President and other executive members drawn from among the students with Staff Advisors. It is affiliated to the Union of Evangelical Students of India (UESI).

Major activities:

- Organizes Bible Studies, Camps, Charitable works, Fellowships, Outreach Programmes, Hostel Penetration and Gospel Concerts.
- Helps the student in their spiritual growth and provides guidance.
- Sources of funds: Generates fund from members, and well wishers.

5.3.7 Give details of various academic and administrative bodies that have student representatives on them. Provide details of their activities.

The students are represented and play an active role both in the academic and administrative bodies. The various bodies with active student members are:

1. College Bus Committee
2. Disciplinary and Anti-Ragging Cell

3. Students Union
4. Sports Committee
5. Science Club
6. Photography Club
7. Nature Club
8. Literary Committee
9. RRC
10. YRS
11. NCC
12. NSS
13. Mess Committee (For Hostels)
14. EU

Any additional information regarding Student Support and Progression, which the institution would like to include.

The Career Guidance and Students Counselling Cell also provides confidential counselling support and services to the students by professional counsellors, medical doctors and psychiatrists. Students may bring issues of health, habits, stress, lack of motivation, etc.

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CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the College.

Vision:

To develop the college into a research driven education hub of national and international repute.

Mission:

Kohima Science College, Jotsoma (KSCJ) started with the mission to encourage and impart science education in the year 1961. It is a premier college in the state of Nagaland, where science education occupies the central focus. With the changing time, the college has charted its own mission to respond to the emerging needs of the contemporary society by expanding its focal areas without losing its focus on science education as the central mission of the college. We are continuously striving to fulfil our mission in the following identified areas:

- To utilize academic autonomy to develop and maintain high academic standards in accordance with the national framework and changing academic and social benchmarks.
- To be an enabling agency for the students to develop their potentials to the fullest and become productive and responsible citizens of the contemporary society and the country.
- To promote and strengthen skill based courses in the curriculum.
- To promote student-centric technology enabled teaching and learning along with the core conventional methodology.
- To promote original and quality research with an emphasis on interdisciplinary approach.
- To encourage and support the faculty members to enhance their academic proficiency in accordance with the contemporary benchmark.

- To encourage a sense of teamwork and community service amongst the students and faculty members.
- To foster and institutionalize innovative and best practices in the workplace by using transparent and decentralized working environment.

6.1.2 Does the mission statement define the College's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, College's traditions and value orientations, vision for the future, etc.?

Yes.

6.13 How is the leadership involved in ensuring the organization's management system development, implementation and continuous improvement

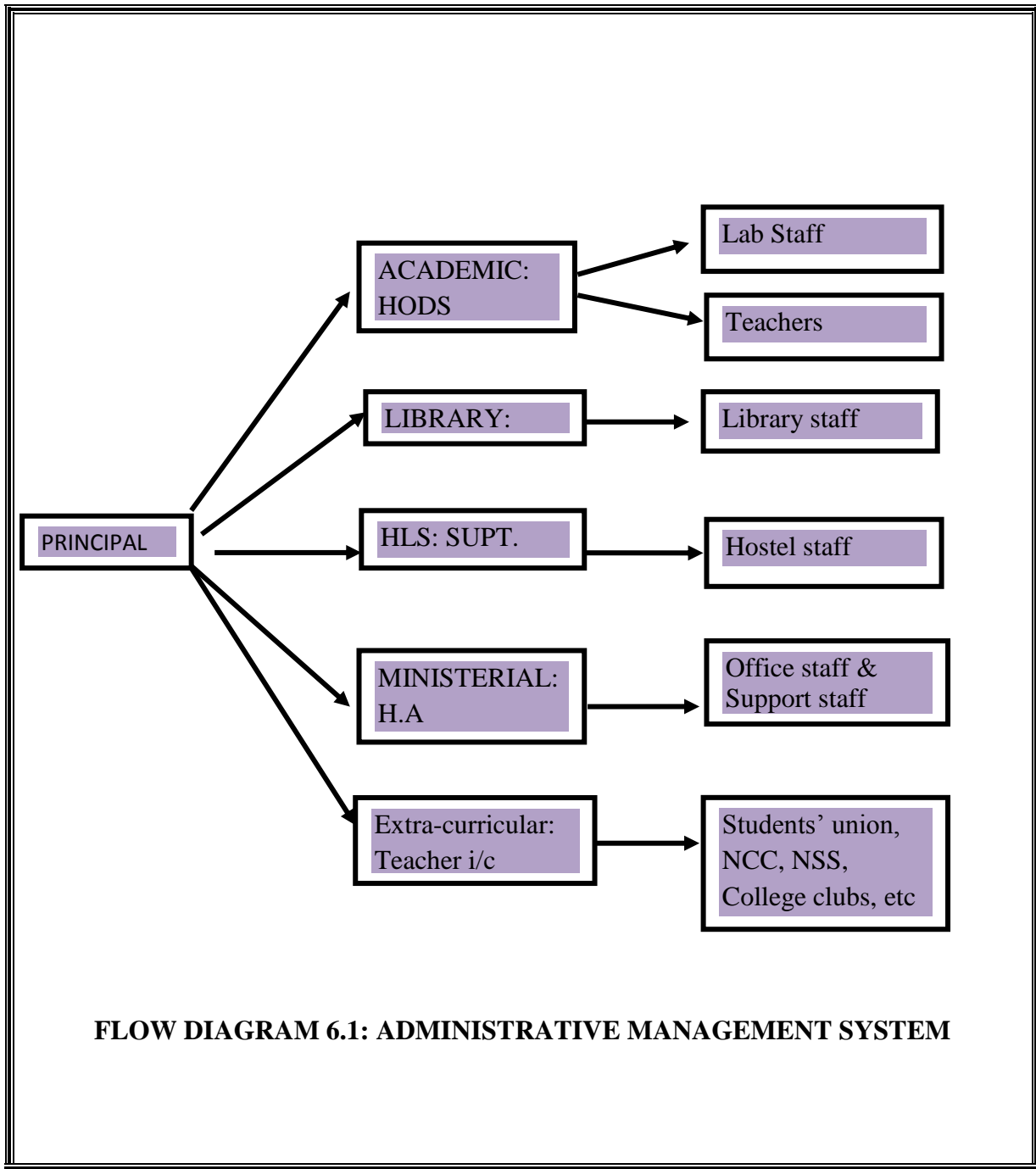
The organization's management is carried out through a well structured system. It consists of academic and ministerial components. The five components of the structure are HODs, Librarian, Hostel superintendents, office Head Assistant and teacher in charge of students extra curricular activities. They report to the Principal. The flow diagram of the administrative management system is provided in diagram 6.1.

- **Interaction with stakeholders**

Through regular meetings with Governing Body, Academic Council, Staff Council, Various support committees, Student Executive Council and Parents-Teacher Association. The leadership also actively liaison with the departmental head, the Directorate of Higher Education, and the administrative head, the Secretary/Commissioner Dept of Higher and Technical Education, for proposal submission and follow up action and many more administrative matters.

- **Reinforcing culture of excellence**

The leadership takes care to improve quality of the faculty members by encouraging them to participate in the faculty development programs and active research work. The leadership provides logistic support to conduct research work.



The leadership takes care of all round development of the students. The students are introduced to the curriculum as per the national framework. The student mentoring system is an important component in the holistic all round development of the performance of the students. Students have opportunity to excel in extracurricular activities. The best academic performance of the students in each course is rewarded with meritorious awards instituted by the faculty members of the college.

- **Identifying needs and championing organizational development (OD)?**

The leadership regularly follows the guidelines issued by the various national agencies such as MHRD, UGC, NAAC, DBT, and many more to identify the need of the organization. These guidelines provide platform for development of the organization.

6.1.3 Were any of the senior leadership positions of the College vacant for more than a year? If so, indicate the reasons.

No

6.1.4 Does the College ensure that all positions in its various statutory bodies are filled and conduct of meetings at the stipulated intervals?

Yes

6.1.5 Does the College promote a culture of participative management? If yes, indicate the levels of participative management.

Yes. The participative management is at two levels, namely (a) academic management and (b) general administrative management. The academic management is carried out primarily by five committees, namely Governing Body (GB), Academic Council (AC) and Board of Studies (BOSs) and Finance Committee and Examination Cell. The GB is headed by a chairman nominated by the government. Apart from the chairman, the GB consists of two nominees from the government, one nominee from the UGC, one nominee from the University and two senior members from the college faculty and one member from the industrial sector. The AC is headed by the principal of the college. All the HODs of the college are the members, along with the university nominee, and Principal's nominee. The AC discusses the merit of the proposal sent by the BOSs. The AC is authorized to send back the proposal to BOSs for clarification or

modification if any, or else it is further submitted to the GB for ratification. The BOSs at the department level is headed by the respective HOD. All the faculty members of the respective departments are the members of BOSs along with the university nominee and distinguish alumni. The BOS makes the proposal for onward submission to the AC. The finance committee is headed by the principal. The detail composition of these committees are provided in the table below

| Table 6.1: Composition of the Governing Body, Academic Council and Board of Studies (BOSs) of the college | | | |
|--|--|---|--|
| Name of the Committee | Name | Professional Occupation | Designation |
| Governing Body | Prof. (Ms) Temsula Ao (<i>Padmashree</i>) | Chairperson, Nagaland State Commission for Women (NSCW) | Chairperson |
| | Prof. Sabyasachi Basu Ray Chaudhury | Vice Chancellor, Rabindra Bharthi University, Kolkata | Member (UGC Nominee) |
| | Prof. Imtisingba Ao | Dept. of Education NU, Kohima | Member (UN*) |
| | Shri Alempokba Ao | Director, Higher Education, Nagaland | Member |
| | Dr. Vituo Belho | Principal (Retd), KSCJ, Kohima | Member |
| | Dr. Francis Neiu Whiso | Head of the Dept. of English (Retd), KSCJ, Kohima | Member |
| | Shri Yanger Longkumer | Vice Principal, KSCJ, Kohima | Member |
| | Shri Megonietso | Head of the Dept. of Botany, KSCJ, Kohima | Member |
| | Dr. I Anungla Aier | Principal KSCJ, Kohima | Member Secretary |
| Academic Council | Dr. I Anungla Aier | Principal, KSCJ, Kohima | Chairperson |
| | Dr. J. Meren Ao | Principal, St. John College, Dimapur | External Expert Member (Govt Nominee) |
| | Mr. Kezhakhoto Savi | Advocate and Faculty Kohima Law College | External Expert Member, (Govt Nominee) |
| | Dr. Joyce Zinyu Angami | Social Worker | External Expert Member, (Govt Nominee) |
| | Dr. V. Ramachandran | Director, NIT, Dimapur | External Expert |

| | | | |
|-------------------------|--|---|-------------------------------|
| | | | Member, (Govt Nominee) |
| | Prof. Buno Legeise | Dept. of Education, NU, Kohima | Member (University Nominee) |
| | Prof. B.V. Rao | Dept. of Geology | Member (University Nominee) |
| | Prof. N. Venuh | Dept. of History and Archaeology | Member (University Nominee) |
| | HODs | Anthropology, Botany, Chemistry, Computer Sci., English, Geology, Geography, Mathematics, Physics, Statistics, Zoology KSCJ, Kohima | Members (Principal's Nominee) |
| | Controller of Examinations | KSCJ, Kohima | Member (Principal's Nominee) |
| | Associate Prof. (02) and Assistant Prof. (02) | Sema T, Devrani M Sharma S Doulo K KSCJ, Kohima | Member (Principal's Nominee) |
| | Shri Yanger Longkumer | Vice Principal, KSCJ, Kohima | Member Secretary |
| Board of Studies (BOSS) | HOD of the respective department | KSCJ, Kohima | Chairperson |
| | All the Faculty members of the respective Department | KSCJ, Kohima | Member |
| | Ms M Radha Rani Devi | Dept. of Anthropology, NU | Member (UN) |
| | Dr. Neizo Puro | Dept. of Botany, NU | Member (UN) |
| | Dr. Deepak Sinha | Dept. of Chemistry, NU | Member (UN) |
| | Mr. Akanjungshi Longkumer | Dept. of Computer Sci. SETAM, NU | Member (UN) |
| | Dr. Jano Leigise | Dept. of English, NU | Member (UN) |
| | Dr. Vikoleno Rino | Dept. of Geology, NU | Member (UN) |
| | Prof. M.S. Rawat | Dept. of Geography, NU | Member (UN) |
| | Dr. Ram Krishna Paul | Dept. of Mathematics, NU | Member (UN) |
| | Dr. Y Sundarayya | Dept. of Physics, NU | Member (UN) |
| | Dr. A. K. Sahoo | Dept. of Statistics, NU | Member (UN) |
| | Dr. Bendang Ao | Dept. of Zoology, NU | Member (UN) |

| | | | |
|-------------------|---|---|------------------|
| | Illustrious Alumnus of the respective department. | From the various institutes /organization | Member |
| Finance Committee | Dr. I Anungla Aier | Principal | Chairman |
| | Mr. Yanger Longkumer | Vice Principal | Member Secretary |
| | Mr. Megonietso | HOD Botany | Member |
| | Mr. Khrietuo Doulo | Assistant Prof. , Mathematics | Member |

UN : University Nominee

After formation of these statutory bodies, one meeting each of GB and AC has taken place. Following are the minutes of these two meetings.

(i) GB meeting on Oct 14th, 2015

It approves the following agendas

- The formation of the AC, BOSs and Finance committee.
- The rules and regulations for conduct of examinations.
- The revised fee structure.
- To introduce the CBCS from 2016 academic session.
- To introduce the PG program in the phased manner
- To delink the higher secondary section of the college

(ii). AC meeting on April 6th, 2016: It approves the following agendas

- The rules and regulations for conduct of examinations,
- The curriculum of the UG programs (B.Sc and BA),
- The curriculum of the PG program in six departments (Anthropology, Botany, Geology, Mathematics, Physics, Zoology).

General administrative management system consists of administrative structure (figure 6.1) and various committees headed by the respective conveners. The details of the committees and respective conveners are provided in Table 6.2

| Table 6.2: List of Committees for Administrative Management System | | |
|---|------------------------------|--------------------------------------|
| Sl. No | Name of the committee | Name of the chairman/convener |
| 1. | IQAC | Aier I A (Principal) |
| 2. | Admission committee | Aier I A (Principal) |

| | | |
|-----|--|---|
| 3. | College Development Committee | Aier I A (Principal) |
| 4. | Disciplinary and Anti Ragging Committee | Aier I A (Principal) |
| 5. | Examination Committee | Murali M N (Controller of Examinations) |
| 6. | Building Construction Committee | Megoneitso (Botany) |
| 7. | NAAC Steering Committee | Sharma S (Physics) |
| 8. | Library Committee | Mekro V (Zoology) |
| 9. | Student's Grievance Redressal Committee | Hiese V (Botany) |
| 10. | Faculty & Administrative Staff Grievance Committee | Longkumer I (Zoology) |
| 11. | Anti Sexual Harassment Committee | Sema T (Botany) |
| 12. | Planning and Evaluation Committee | Imlitemjen (Geography) |
| 13. | RUSA Coordination and Monitoring Committee | Kapfo W (Botany) (Coordinator) |
| 14. | Internal Audit Committee | Mekro V (Botany) |
| 15. | Event Management Committee | Ralimongla (Zoology) |
| 16. | Disaster Management Committee | Punyu K (Chemistry) |
| 17. | Technical and IT Committee | Doulo K (Mathematics) |
| 18. | Canteen Management Committee | Kapfo W (Botany) President, KSCTA |

6.1.6 Give details of the academic and administrative leadership provided by the University to the College?

The faculty members from the university are the part of the GB, AC and BOSs of the college. *(Please refer Table 6.1)*

6.1.7 How does the College groom the leadership at various levels?

The leadership at various levels is groomed by many ways through their involvement and participation to various committees. All the HODs are the members of IQAC. The steering committee prepares the agenda for the year, which is put for the discussion in the IQAC meeting. Amongst the faculty members, some of them are appointed as a convener of the respective committee with predefined objectives. Amongst the students, leadership is groomed through the Students Union activities and various clubs.

6.1.8 Has the College evolved any strategy for knowledge management? If yes, give details.

Yes. At present knowledge management is through NAAC steering committee under the aegis of IQAC of the college. The relevant information's are collected from the head of the department, controller of examination and convener of various committees. These informations are compiled by steering committee to develop a database.

6.1.9 How are the following values reflected in various functions of the College?

*** Contributing to national development**

By producing the productive human resource, which is amply visible in the list of illustrious alumni.

*** Fostering global competencies among students**

Adopting the academic curriculum under the framework of CBCS, for the UG program as recommended by UGC

***Inculcating a value system among students**

A sense of teamwork, discipline, fairness, innovation, community involvement, environment consciousness is inculcated amongst the students by means of various programs supported/initiated by the college such as NSS, NCC, Science Club, Photography club, Natures club and various sports activities.

***Promoting use of technology**

(i). ICT facilities, including the smart boards, LCD projectors, Laptops are installed in the Honours class rooms. The PG classes are equipped with LCD projector and Laptops
(ii) Development of the UG and PG laboratory (ii) Development of the research laboratory.

***Quest for excellence**

(i) Good academic performance by the students in terms of their performance in the university exams and extracurricular activities (ii). Teachers' involvement with research work.

6.1.11 Give details of the UGC autonomous review committee's recommendations and its compliance.

The following are the recommendations/suggestions of UGC autonomous review committee

(i) The teachers of the college should undertake visits to a established autonomous college in India to implement their vision for autonomy.

Compliance: A five member team of the senior faculty member, including the controller of examination visited St. Xavier College, Kolkata , an autonomous institute of national repute during Aug 17th -18th, 2015. During the visit, the team had a meeting with the IQAC members, the controller of the examination and other members of the examination cell. The team had an opportunity to visit library and various academic departments of the college. Overall, visit to the college and interaction with the various academic bodies of the college was a rewarding and an enriching experience.

(ii). The college may develop curricula to make optimum use of the natural resources of the state.

Compliance: The college has introduced new CBCS as per the recommendation of the UGC. Apart from this the college has introduced add on course on Floriculture, Apiculture and Electronic Design and repairing.

(iii). The college may continue to associate its alumni/alumnae for its development and resource generation.

Compliance: Alumni association of the college is quite active, and resources are generated under the Alpha-II project. This is a project to construct a girls hostel with a capacity of 50 students. The work under the project is in progress. The total budget of the project is Rs. 100.00 lakhs

(iv). Special attention needs to be given towards further development of the library.

Compliances: The college has taken keen interest to develop the library infrastructure, resources and facility. During the last five years the following initiative have been taken.

1. Construction of a separate central library building is in progress.
2. New purchase of books and scientific journals.
3. New purchase of newspapers (local as well as national), magazines.
4. Purchase of computers

5. Introduction and commencement of OPAC.
6. Introduction and commencement of automation (Bar-coding system)
7. Separate broadband-internet connections for students in the library.
- 8.. Replacement of old book racks.
9. Installation of CCTV
10. New room for book bank.

(v). The college may undertake specific programs for the empowerment of women.

Compliances: Out of the total 83 permanent faculty, the college has 26 women faculty members, including the head of the three departments, which constitutes around 31 % of the total faculty members. The women faculty members are the part of the decision making process through various academic and administrative bodies. The GB and AC are headed by Mrs, Temsula Ao, chairman Nagaland State Women Commission (NSWC) and Dr. I Anungla Aier, the Principal of the college, respectively. Majority of the IQAC committees have either women convener or member. On an average, in the last four years, girls constitute 47 % of the total student strength. In an office, laboratory and ground staff, women constitute around 46%, 19% and 15%, respectively.

6.2 Strategy Development and Deployment

6.2.1 Does the College have a Perspective Plan for development? If so, give the aspects considered in development of policy and strategy.

Yes.

*** Teaching and learning**

- The college has plans to introduce new subjects and program both at the UG and PG levels. From the academic session 2016-17, the college has started a PG program in six disciplines namely, Anthropology, Botany, Geology, Mathematics, Physics and Zoology. It was a long pending initiative, which was strongly recommended during the last visit of the NAAC peer team in 2011. From the current academic session (2016-17), the honours course in English has been started. The college has already put a proposal to introduce economics as an honours subject in the undergraduate program. There is also a plan to upgrade the Computer Science department with a honours course .
- To start one year course in “ Diploma in Computer Applications and Networking

(Intake capacity 30; in collaboration with NIELIT, Kohima)

- The college has a plan to introduce the Massive Online Open Courses (MOOC) in coming years in the curriculum.
- To introduce more skill based programs in the curriculum.
- To strengthen research based projects for the students in the the UG (honours) and PG programs.
- There is a plan to start coaching classes for the newly admitted PG students to clear NET/JRF exams conducted by CSIR and UGC.
- To frame an integrated PG program.

***Research and development**

- The college has a plan to apply to NU for recognition of the college as a Ph.D. centre. For this purpose board of studies of the PG departments have already started the process for approval and ratification by the AC and GB of the college for onward submission to the university.
- The college has a plan and strategy to encourage interdisciplinary research amongst the faculty members of the college. The state project at the college under the *RUSA* (Research, Innovation & Quality Improvement) program provides a platform to achieve this objective.
- To explore the feasibility of having access to the National Knowledge Network (NKN).

***Community engagement**

- To provide the Massive online Massive Online Open Courses (MOOC) facility to the community.
- To have access to National Academic Depository (NAD)

***Human resource planning and development**

- To introduce more skill development based courses in UG and PG programs.
- To strengthen research programs to develop research manpower in the state

***Industry interaction**

- At present college does not have industry interaction. General lack of industrial sector in the state inhibits this aspect. The college is looking forward to

incorporate this aspect in near future.

***Internationalization**

- At present, in teaching and student learning, the college does not have any international program. In research few faculty members are involved with the international research program. *(Please refer the subsection section 3.7.1 and 3.7.3)*

6.2.2 Enunciate the internal organizational structure of the College for decision making processes and their effectiveness.

The core of the internal organizational structure is IQAC headed by the Principal of the college. IQAC consist of 11 members. The various committees are the interface between the IQAC and Faculty members. The policy decision is taken at the IQAC meeting and these decisions are implemented through various committees headed by the respective convener. The detail structure is provided below in the flow diagram 6.2.

6.2.3 Specify how many planned proposals were initiated/ implemented, during the last four years. Give details.

| Table 6.3: Planned proposals and their status | | |
|--|---|--|
| Sl. No. | Planned proposal | Status |
| 1 | To apply for a grant of autonomous status to the college | College got the autonomous status in 2014. |
| 2 | To introduce the CBCS at Undergraduate level | Started from the academic session 2016-17 |
| 3 | To start Add-on courses on skill development. | Started from the academic session 2015-16 |
| 4 | To start the PG program | Started from the academic session 2016-17 |
| 5 | To increase the faculty positions | Under consideration |
| 6 | To apply for the grant to the MHRD under the research component of RUSA project | Approved |
| 7 | Proposals for the development of physical Infrastructure (a). Indoor stadium (b) construction of class rooms and (c) water reservoir. | Completed |

| | | |
|---|--|---------|
| 8 | Construction of (a) one boys hostel, (b) two girls hostel and (c) library building | Ongoing |
|---|--|---------|

6.2.4 Does the College have a formally stated quality policy? How is it designed, driven, deployed and reviewed?

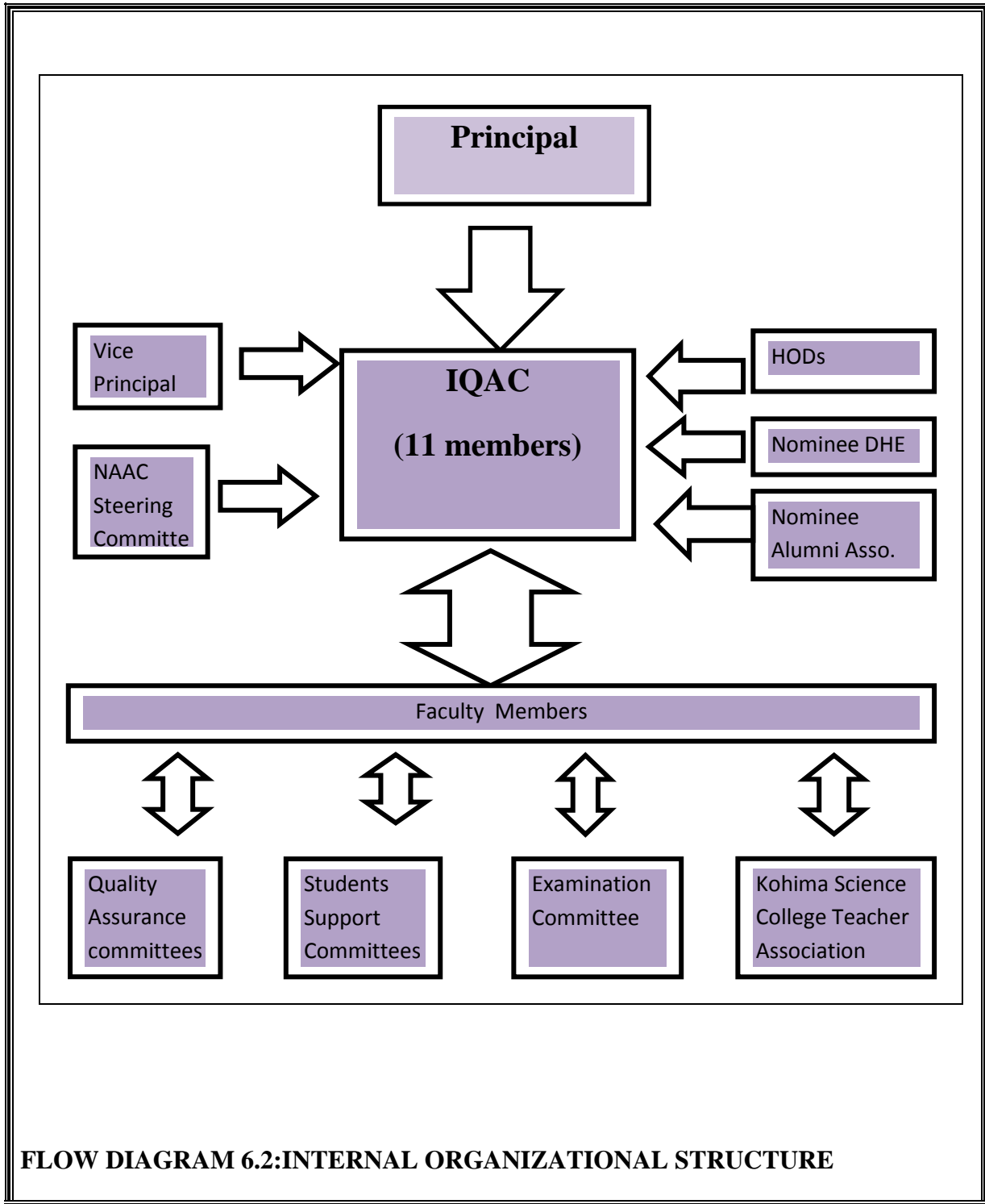
Our mission statement is a formally stated quality policy. It is designed by the IQAC through a brain storming session in staff council through the shared vision. It is driven, deployed and reviewed under the framework of “Annual Quality Assurance Assessment”, where the feed back from the departments, teachers and students are taken into account.

- The college has a stated research policy to improve the quality of the research.

6.2.5 How does the College ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?

The college has many committees to address various issues. To address the issues of grievance and complaints, the college has the following three committees, headed by the respective conveners. All the related issues are resolved by these committees

| Sl. No | Name of the Committee | Convener |
|--------|--|------------------------|
| 1. | Disciplinary and Anti Ragging Committee | Aier I A (Principal) |
| 2. | Student's Grievance Redressal Committee | Hiese V (Botany) |
| 3. | Faculty & Administrative Staff Grievance Redressal Committee | Longkumer I (Zoology) |



6.2.6 Does the College have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?

Yes. The details of the outcome of the exercise are provided below, (Table 6.5).

(a) Feedback on the performance of the teachers. Salient Features : (i) Overall rating for the performance of the teachers is encouraging , where 44% of the teachers are rated in an A grade (very good) and 36% of the teachers are rated in grade B (Good). (ii) The students have rated positively on the knowledge, communication skill and commitment of the teachers. (iii). The performance of the teachers is rated poorly in sl. no 5, 6 and 9, where the issue of the multidisciplinary nature of teaching is involved and the delay in the feedback by the teachers on assignment and internal assessment is concerned.

| Table 6.5: Result of the students' feedback on the institutional performance | | | | | |
|---|--|--------------------|---------------|-----------------------|-------------------------|
| Sl. No | Parameters | A Very Good | B Good | C Satisfactory | D Unsatisfactory |
| 1 | Knowledge base of teacher (as perceived by you) | 69% | 22% | 7% | 2% |
| 2 | Communication skills (in terms of articulation and comprehensibility) | 44% | 22% | 20% | 9% |
| 3 | Sincerity / Commitment of the teacher | 55% | 31% | 13% | 00 |
| 4 | Interest generated by the teacher | 36% | 38% | 20% | 7% |
| 5 | Ability to integrate course material with environment/other issues, to provide a broader perspective | 29% | 33% | 29% | 9% |
| 6 | Ability to integrate content with other courses | 13% | 36% | 38% | 16% |
| 7 | Accessibility of the teacher in and out of the class (includes availability of the teacher to motivate further study and discussion outside class) | 36% | 29% | 11% | 4% |
| 8 | Ability to design quizzes /Tests /assignments /examinations and projects to evaluate students' understanding of the course | 38% | 44% | 18% | 00 |
| 9 | Provision of sufficient time for feedback | 16% | 58% | 13% | 7% |

| | | | | | |
|----|----------------|-----|-----|-----|----|
| 10 | Overall rating | 44% | 36% | 16% | 4% |
|----|----------------|-----|-----|-----|----|

(b) Regarding the course content and overall performance of the college the important vital feedback has been received from the students (Table 6.6). The salient features are as follows.

(i) Similar to earlier feedback the performance of the teachers, impact of internal assessment are rated fairly well. On the other hand the library facility and feedback from the teachers on the internal test performance of the students is rated poorly.

6.2.7 In what way the affiliating University helped the College to identify the developmental needs of the College?

The university is not playing any visible role in identifying the developmental need of the college. Though all the proposal to UGC are routed through the University channel.

6.2.8 Does the affiliating university have a functional College Development Council (CDC) or Board of College and University Development (BCUD)? If yes, In what way College is benefitted.

Yes.

6.2.9 How does the College get feedback from non-teaching, teaching, parents and alumni on its functioning and how it is utilized.

The feedback from the above mentioned stakeholders are acquired through the researched “questionnaires”. The feedback is utilized to improve upon the functioning of the college through discussion and decision at IQAC and subsequent ratification at “Staff Council” meet.

Table 6.6: Students Feedback on the Course Content and Overall Performance of the College.

| |
|--|
| <p>1. The syllabus of each course was: (a) adequate (50%) (b) inadequate (c) challenging (50%) (d) dull</p> <p>2. Background for benefiting from the course was a) more than adequate b) adequate (75%) c) inadequate d) cannot say (25%)</p> <p>3. Was the course easy or difficult to understand? a) easy b) manageable (75%) c) difficult (25%) d) very difficult</p> <p>4. How much of the syllabus was covered in the class? a) 85 to 100% (25%) b) 70 to 85% (75%) c) 55 to 70% d) less than 55%</p> <p>5. What is your opinion about the library material and facilities for the course? a) more than adequate b) adequate c) inadequate (25%) d) very poor (75%)</p> <p>6. To what extent were you able to get material for the prescribed readings? a) Easily (25%) b) with some difficulty (50%) c) not available at all d) with great difficulty (25%)</p> <p>7. How well did the teacher prepare for the classes? a) thoroughly (25%) b) satisfactory (75%) c) poorly d) indifferently</p> <p>8. How well was the teacher able to communicate? a) Always effective (50%) b) sometimes effective (50%) c) Just satisfactory d) generally ineffective</p> <p>9. How far the teacher encourages student participation in class? a) mostly yes(50%) b) sometimes (50%) c) not at all d) always</p> <p>10. If yes, which of the following method were used? a) Encouraged to raise questions (75%) b) get involved in discussion in class (25%) c) encourage discussion outside class d) did not encourage</p> <p>11. How helpful was the teacher in advising? a) Very helpful (25%) b) sometimes helpful (75%) c) not at all helpful d) did not advise</p> <p>12. The teacher's approach can best be described as a) Always courteous (25%) b) sometimes rude c) always different d) cannot say (75%)</p> <p>13. Internal assessment was a) Always fair (75%) b) sometimes unfair (25%) c) Usually unfair d) sometimes fair</p> <p>14. What effect do you think the internal assessment will have on your course grade? a) Helps to improve (75%) b) discouraging c) no special effect (25%) d) sometimes effective</p> <p>15. How often did the teacher provide feedback on your performance? a) Regularly/in time b) with helpful comment c) often /late d) without any comments (50%)</p> <p>16. Were your assignment discussed with you? a) Yes, fully b) yes, partly (25%) c) not discussed at all (25%) d) sometimes discussed (50%)</p> <p>17. Were you provided with a course contributory lecture too at the beginning? a) Yes (50%) b) no (50%); If yes, was it helpful? a) Yes (50%) b) no (50%)</p> |
|--|

6.2.10 Does the College encourage autonomy to its academic departments and how does it ensure accountability?

Yes. Through the Board of Studies.

Does the College conduct performance auditing of its various departments?

Yes, The performance of the various departments are analysed in terms of the following criteria

1. Completion of the course
2. Academic performance of the students
3. Performance of the teachers under research and extension activities

6.3 Faculty Empowerment Strategies**6.3.1 What efforts are made by the College to enhance the professional development of teaching and non teaching staff?.**

For the teachers, the college provides study leave with pay to pursue their Ph.D. program. During the last four years total 12 teachers (*Please refer subsection 3.1.2; Table 3.2*) have availed this facility. Teachers are provided leave to attend the Refresher/Orientation/Short term courses organized by the UGC-Academic Staff colleges. In the last four years 24 teachers have attended these courses. The college encourages the teachers to participate in the regional/national/international conferences/workshop and training programs. In the last four years the teachers have attended around 45 workshops/seminar/training programs outside the college. The college organizes the conferences and in-house professional development program in teaching and research methodology. The college has organized total 17 programs in last four years.

6.3.2 What is the outcome of the review of the Performance Appraisal Reports?**List the major decisions.**

The performance of the teachers is assessed through the self assessed Annual Performance Appraisal Reports (APAR) submitted by the teachers. The review of the reports has come out with the following decisions.

1. Teachers should actively participate in the ICT based teaching methods.

2. There is a need to strengthen the research activity amongst the faculty member. Teachers should be encouraged to apply for the research projects under various funding agencies.

3. More teachers should participate in the national and international conferences, seminars and workshops.

4. It is felt that the teachers should be encouraged to publish their research findings in the SCI listed journals, with the impact factor of the journal rated by Thomson-Reuters.

To sensitize the teachers of the college, one day workshops were organized in the college.

(a). Research Methodology (on May 14th, 2016)

Resource Persons: Aier I A Principal of the College

Kapfo W, Asstt. Prof., (Botany).

Sharma S, Asstt Prof., (Physics)

(b) Methodology of Teaching (on Sep 14th, 2013)

Resource Persons: (i). Mrs. Elizabeth (ii) Dr. Bendanyapalangla,

Asstt .Prof Nagaland College of Teacher's Education (NCTE) Kohima.

(c) Teaching and Research: A symbiotic existence in emerging scenario: (on

Aug 14th2013): Resource Person; Sharma S, Asstt Prof. (Physics, Convener Research Cell)

(d). Student Counselling for Faculty (on May 28th, 2013)

6.3.3 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

Teaching: Accommodation for type IV and V and VI (27) are available for the faculty members of the college. The college takes the responsibility to facilitate bank loans for the faculty members. The facility of medical reimbursement as per the Govt rule is applicable to the faculty members.

Non Teaching Staff: Accommodation for type II and III (25) are available for the office staff of the college. The college takes the responsibility to facilitate the bank loans for the non teaching staff. The facility of medical reimbursement as per the Govt rule is applicable to the non teaching staff.

6.3.4 What are the measures taken by the College for attracting and retaining eminent faculty?

- As a government college, the appointed faculty members are given the pay scale as recommended by the UGC as per the 2006 revision of pay. The placement of the teachers is as per the UGC recommended guidelines. The college has 27 faculty quarters (Type -IV, -V and -VI), which are allotted on the basis of seniority. The college supports the teachers for their research in terms of providing study leave to pursue their Ph.D. program, allow the teachers to participate in the national/international conferences, workshop and training and faculty improvement programs. The college provides the platform for the teachers to enable them to participate in the extension activities. Moreover, the college provides the transparent and decentralized working environment, where they are largely part of the decision making process.

6.3.5 Has the College conducted a gender audit during the last four years? If yes, mention a few salient findings.

Yes. The college has conducted the Gender audit. The women in the college constitute the significant work force. The analysis is provided with respect to women. The remaining % may be considered for men, The few salient findings are as follows.

- In the last four years, the average number of girl students admitted are 47%, varying in the range of 45% to 49%.
- In the last four years, the average no of girl students, who appeared for the final exam is 51% (varying in the range of 46-56%). In terms of their performance out of total appeared students' their average pass percentage is 42% (varying in the range of 33-51%) average percentage those who have secured the 1st Division is 35% (varying in the range of 30-43%). The statistics are slight improve when the % is calculated out of total pass students. Their average percentage who has secured 1st Division is 41% (varying in the range of 35-47%).
- In terms of faculty position, out of the total 83 permanent faculty, the college has 26 number of women faculty members, including the head of the three departments, which constitutes around 31% of the total strength. Further, out of the total faculty strength (permanent and temporary) women faculty members constitute around 34%.

Amongst the associate professors and above (total 21), they constitute around 38 %.

- The office, laboratory and ground staff, constitute around 46%, 19% and 15% women respectively.

6.3.6 Does the College conduct any gender sensitization programs for its staff?

Yes. The college organizes /hosts workshop/seminar on this issue. Examples are

- i). One day awareness program on “ *Beti Bachao Beti Padhao* (BBBP), 181-Women Helpline, Childline & NIDDCP” was held in the college campus on 3rd September, 2016. Organized by the State Resource Centre for Women.
- ii). One day program under legal awareness campaign on “Statutory Rights of Women“ was held on Aug 6th, 2013 in the College auditorium. It was organized by the Nagaland State Commission for Women (NSCW). The team was lead by Prof. Temsula Ao, Chairperson NSCW.

6.3.7 What is the impact of the University’s UGC-Academic Staff College Programmes in enhancing competencies of the College faculty?

The Nagaland University, the affiliating university does not have the UGC-Academic Staff College. At present faculty members are attending the refresher course, orientation course and short term courses outside the state. During the last four years, total 24 number of teachers have attended the courses from various academic staff college in the country, which has certainly enhanced the competence of the faculty members in terms of their knowledge and also their contact with the teachers from the rest of the country.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of financial resources?

The monitoring of effective and efficient use of financial resources is carried out by various committees namely (i). Finance committee (ii) Development Committee (iii) *RUSA* projects, monitoring committee and (iv) Internal audit committee. The account for the fund received from the UGC, DBT and MHRD (under *RUSA*) is operated through

the Public Financial Management Systems(PFMS).

6.4.2 Does the College have a mechanism for internal and external audit? Give details.

Yes. The college has a committee for inter audit headed by a convener Mekro V (Botany). The committee audit the funds for different components such as fund mobilized internally by the office of the Principal, Kohima Science College Teachers Association, Students Union. The fund received by the government under plan, non plan and grant in aids is audited by the office of the Accountant General, Nagaland. The fund received by the external agencies such as UGC, MHRD, DBT, and ISRO is audited by the Chartered Accountants (CAs). The following is the list of the CA, who have carried out the audit for the college.

| SI No | Name | Address | Registration Number |
|-------|-------------------|---|---------------------|
| 1 | Deepak Kumar Jain | Circular Road, Chishi Complex, 1 st floor, Dimapur, Nagaland | 059256 |
| 2. | Ajit Kumar Jain | Circular Road, City Tower, 2 nd floor, Dimapur, Nagaland | 054505 |
| 3. | Lipokmeren | 5 th floor, Admin Building, Circular road, Dimapur, Nagaland | 328251E |

6.4.3 Provide audited income and expenditure statement of academic and administrative activities of the previous four years.

Income and Audit Statement

| Year | Budget Provision (lakhs) | | | Total | Expenditure (lakhs) | | | Total (lakhs) | Saving (-)/ Excess (+) (lakhs) |
|---------|--------------------------|-----------|--------|---------|---------------------|-----------|--------|---------------|--------------------------------|
| | Non Plan | Plan/ CSS | GIA* | | Non Plan | Plan/ CSS | GIA* | | |
| 2011-12 | 2.35 | 791.75 | | 794.10 | 2.35 | 792.09 | | 794.44 | (+) 0.34 |
| 2012-13 | 23.30 | 906.98 | | 930.28 | 23.27 | 906.81 | | 930.08 | (-)0.20 |
| 2013-14 | 3.00 | 1484.52 | | 1487.52 | 1.49 | 1454.41 | | 1455.90 | (-)31.62 |
| 2014-15 | 0.00 | 1198.81 | | 1198.81 | 0.00 | 1198.75 | | 1198.75 | (-)0.06 |
| 2015-16 | 0.00 | 1280.10 | 121.77 | 1401.87 | 0.00 | 1273.20 | 103.77 | 1376.97 | (-)24.90 |

- * Grant in Aid to start a PG program in six disciplines.

6.4.4 Have the accounts been audited regularly? What are the major audit objections and how are they complied with?

Internal audit is regular whereas external audit is one in five years.

6.4.5 Narrate the efforts taken by the College for resource mobilization.

Resources are mobilized through various agencies,

(i). As a government college, the college receives fund regularly under plan and non-plan head. (Please refer Table 6.8)

(ii). From the MHRD, under the RUSA program, fund is received for Infrastructure development, Vocational courses and research project (Research, Innovation and quality improvement).

(iii). From UGC, under merged scheme and infrastructure development during XI plan.

| Table 6.9 (a): Grant received from the UGC during last five years | | | |
|--|---|-------------------------------------|------------------------|
| Sl. No. | Date and Letter No. | Head | Amount (lakhs) |
| 1. | March 30 th , 2016 F.8-206/Sem/Conf/NERO/2015-16/1270 | Conference & Seminar | 1.12 |
| 2. | December 21 st , 2015 No.F.1-14/03/2014/Auto (NERO)/393 | Autonomous College Grant | 1.80 |
| 3. | March 17 th , 2015 No.F.16-64/2014-15/WH/NERO | Construction of Girls Hostel | 35.00 |
| 4. | August 28 th , 2014 F.1-14/03/2014/Auto (NERO) /1788 | Autonomous College Grant | 7.20 |
| 5. | March 25 th , 2014 No.F.8-11/GDA/2012/ (NERO) /17604 | General Development Assistant (GDA) | 16.59 |
| 6. | Feb 2 nd , 2013 No.F.35-131/Add/2011 (NERO)/20652 | Grants in aid for additional grants | 12.00 |
| 7. | Feb 2 nd 2013 No. F.35-131/Add(NERO)/20651 | Grants in aid for additional grants | 1.04 |
| 8. | September 26 th , 2012 No.1-28/10/GJ/NERO/19004 | Jubilee Centenary Grant | 10.00 |
| Total | | | 84.75 |

(iv). Through extramural research funding .

| Table 6.9 (b) : Grants from the extramural research funding during the last five years | | |
|---|-----------------------------------|----------------------------------|
| Sl. No. | Status of the Project | Amount Sanctioned (lakhs) |
| 1 | Ongoing Major Research Projects | 278.83 |
| 2 | Ongoing Minor Research Project | 13.69 |
| 3 | Completed Major Research Projects | 44.97 |
| 4 | Completed Minor Research Projects | 3.45 |
| | Total | 340.94 |

(v). From MHRD under RUSA Infrastructure Development and vocationalization in Higher Education

| Table 6.9 (c): Grant received from the MHRD under the RUSA scheme during the Last Five Years | | |
|---|---------------------------------------|--------------------------------|
| Sl. No | Component | Amount Received (lakhs) |
| 1 | Infrastructure Development | 23.18 |
| 2 | Vocationalization of Higher Education | 4.58 |
| | Total | 27.76 |

(vi). From the admitted students as a college development fee.

| Table 6.9 (d): College Development Fee Collected from the Students during the last Five Years | | |
|--|--------------|----------------------------------|
| Sl. No | Year | Amount collected (lakhs) |
| 1. | 2012-13 | 5.44 |
| 2. | 2013-14 | 4.80 |
| 3. | 2014-15 | 4.92 |
| 4. | 2015-16 | 9.19 |
| 5 | 2016-17 | 12.04 |
| | Total | 36.39 |

6.4.6 Is there any provision for the College to maintain the ‘corpus fund’? If yes, give details.

Yes. The corpus fund is available for financial support to the economically challenged meritorious students. It was opened as a “Jubilee Trust Fund” in the presence of the Chief Minister of Nagaland on March 16th 2016. The chief minister contributed Rs. 2.0 lakhs towards this fund.

6.5 Internal Quality Assurance System

6.5.1 Does the College conduct an academic audit of its departments? If yes, give details.

Academic audit of the departments is carried out on the basis of the following three levels.

The Level-1 audit is for formulation of policy to improve teaching, learning and evaluation in the college, whereas Level -2 and Level -3 audit are for mid course correction at the department level.

Level -1: Analysis of overall performance of all the departments at the end of the course: It is carried out by the IQAC of the college. It is observed that the performances of all the nine departments with the honours program in terms of 1st rank (gold medal), top ten position in merit, securing the 1st division and overall pass % is by and large consistent during the last five years (please refer section 2. In criterion II: Teaching, learning and Evaluation). It is to be mentioned that the first batch of the students under autonomous status will be passed out in the year 2017. Till 2016, the results are declared by the affiliating Nagaland University.

2. Analysis of the performance of the department at the end of the semester term: At the department level: for mid course correction

3. Analysis of the performance of the department at the end of the term for internal assessment: for mid course correction

6.5.2 Based on the recommendations of academic audit what specific measures have been taken by the College to improve teaching, learning and evaluation?

Teaching: New curriculum based on CBCS as recommended by the UGC has been introduced from 2017-17 academic session. ICT facility is strengthened, lecture notes are uploaded on the college website, introduction of the seminar by the students during internal assessment, project work under the supervision of individual teachers and

personalized mentoring by a teacher to an assigned group of students.

Learning: Home assignment , Tutorial,

Evaluation: Internal assessment which carries 30% weightage to the final result, Some of the departments conduct the open test.

6.5.3 Is there a central body within the College to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

IQAC of the college review the teaching learning process in various ways, such as

- (i) Follow the UGC website for information on new academic development.
- (ii) Analyse the end term and final term examinations.
- (iii) Analyse feedback from the students.

Follow up action /outcome

- Teachers are advised to put the lecture notes on the college website.
- To strengthen the use of ICT in the class room teaching.
- Introducing the Tutorial classes
- Encouraging the project work
- Greater emphasis on, skill based teaching in the curriculum

6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?

The emphasis is on to develop a research driven teaching. The onus is also on the teacher to be proactive in their research activities. The API of the teacher in research category is monitored annually, through the annual department report. IQAC has taken initiative to sensitize the teachers regarding teaching and research by organizing the workshop on teaching and research issue. The quality assurance strategies and processes are institutionalized by setting up various statutory committees headed by the conveners. These committees have certain objectives and accordingly the activities are carried out on a regular basis. At present the college has following committees.

Table 6.10: List of Committees for Quality Assurance

| Sl. No | Name of the committee | Name of the convener |
|--------|---|---------------------------------------|
| 1. | IQAC | Aier I A (Principal) |
| 2. | Student Mentoring Committee | Aier I A (Principal) |
| 3. | Remedial Coaching Committee | Longkumer Y (<i>Vice Principal</i>) |
| 4. | Research and Consultancy Committee | Sharma S (<i>Physics</i>) |
| 5. | Career Guidance and Student Counselling Committee | Devrani M (<i>Physics</i>) |
| 6. | Library Committee | Mekro V (<i>Geology</i>) |
| 7. | Literary Committee | Meyase T G (<i>Mathematics</i>) |
| 8. | Technical and IT Committee | Doulo K (<i>Mathematics</i>) |

6.5.5 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.

Yes. The IQAC has two external members. One from the Directorate of higher Education and other from the alumni side. These members are the interface of the IQAC with their respective organization.

6.5.6 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?

No

6.5.6 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?

The preparation of the Annual Quality Assurance Report (AQAR) provides an opportunity for the periodic review of the institutional performance.

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CRITERION VII: INNOVATION AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the College conduct a Green Audit of its campus?

A simple mechanism has been structured by the college, where the green cover of the college campus has been assessed through data received from the composite satellite image (Annexure 4). The composite image is developed by GIS and Remote Sensing Centre, Department of Planning, Govt of Nagaland. The analysis provides the land use and land cover of the college campus and surrounding area in the year 2016. The total area of the study region is 21.35 km², with varying land use cover. The maximum coverage is by the forest with around 17 km². The detail of the land use cover is provided in Table below.

| Table 7.1: Land Use Land Cover of KSCJ and Surrounding Area | | | |
|--|---------------------------------------|-------------------------|----------------|
| Sl. No | Land use Category | Area (km ²) | % Contribution |
| 1. | Agricultural Land | 0.1422 | 0.67 |
| 2. | Agricultural Land-Terrace Cultivation | 1.2634 | 5.92 |
| 3. | Agricultural Plantation | 0.0309 | 0.16 |
| 4. | Built-Up_Mining /Industrial | 0.0236 | 0.11 |
| 5. | Built-up_Rural | 1.6725 | 7.83 |
| 6. | Forest-Scrubs | 2.4637 | 11.58 |
| 7. | Forest-Dense | 7.0815 | 33.16 |
| 8. | Forest-Open | 8.2807 | 38.78 |
| 9. | Shifting Cultivation | 0.2432 | 1.14 |
| 10. | Wasteland-Landslide | 0.0465 | 0.22 |
| 11. | Wasteland-sand Banks | 0.1002 | 0.47 |
| 12. | Water Bodies-Lake/Ponds | 0.0014 | 0.01 |
| 13 | Water Bodies- River/Streams | 0.0014 | 0.01 |
| | Total Area | 21.3542 | 100 |

7.1.2 What are the initiatives taken by the College to make the campus eco-friendly?

*** Energy conservation**

The college has started the use of LED bulb in a phase manner.

*** Use of renewal energy**

(i) The work is in progress for installation of 10 KVA solar powered UPS system in each government hostel of the college (four hostels).

(ii) The college has a Solar Powered 10 KVA UPS unit. The output of the UPS is utilized by various departments of the college.

*** Water harvesting**

Not yet organized

*** Check dam construction**

Not available

*** Efforts for carbon neutrality**

(Use of firewood for cooking purposes has been greatly reduced as LPG has been introduced in the girls' hostel. Firewood when required is procured from areas where pollarding of trees is done. That way, no tree is destroyed as it can be harvested.)

*** Plantation**

NSS and Nature's Club have been undertaking tree plantation in and around the campus in collaboration with the Dept of Forest & Wildlife and Horticulture.

*** Hazardous waste management**

*** e-waste management**

*** any other**

A committee is in place for waste management, including the hazardous and e-waste management.

Table 7.2: Committee for waste management

| Sl. No | Name | Convener/member |
|--------|------------------|-----------------|
| 1. | Moakum (Botany) | Convener |
| 2. | Kapfo W (Botany) | Member |
| 3. | Jamir T T | Member |
| 4 | Kachhara C | Member |

| | | |
|---|------------|--------|
| 5 | Domminic R | Member |
|---|------------|--------|

7.2 Innovations:

7.2.1 Provide details of innovations introduced during the last four years which have created a positive impact on the functioning of the College.

(i). **Research Incubation Centre under RUSA (Research, Innovation and Quality Improvement) Project**

Through the state RUSA (Research, Innovation and Quality Improvement) Project, funded by the MHRD, Govt Of India, the college is in a formative stage to become a research, incubation centre for interdisciplinary research in the state. One of the objective of the research project entitled “An investigation of high resolution spatio-temporal variation of morphological, microphysical and rainfall properties of precipitating systems and its social impact: An integrated multi sensor and multi institutional approach” is to develop a comprehensive “Precipitation Features & Atmospheric Data Base” with the help of satellite and ground based observations to study the social impact of weather related disasters and its socio-psychological response. The developed data depository will be utilized by the faculty members of the Kohima Science College and other government colleges under the department of Higher Education in the state to further accelerate the growth of the allied field and interdisciplinary research. The faculty members of the colleges under higher Education are going to be involved with the project as Associated Member. This has administrative approval from the Government of Nagaland.

(ii). **Introduction of the Choice Based Credit System for its Under Graduate Programme.**

Following strong suggestions from the UGC to introduce Choice Based Credit System for autonomous institutions in its ninth plan the College has implemented it from this academic session. The CBCS is a recent development in the country and this college is one of the first colleges in the NE, if not the first, to introduce this. Under this system teaching-learning is made more student-centric as it offers curricular flexibility and allows

the student to take an Honours (Core Course) in his/her desired subject without having to opt for other 'elective subjects' as is followed in the present conventional system. This should help the student excel in his/her subject as the constraints of pursuing rigid pre-determined combination of course is done away with to a considerable level. Besides the Core subject courses like Ability Enhancement Compulsory Course (one paper), Skill Enhancement Course (2 papers), Discipline Specific Course (4 papers), and Generic Elective (4 papers) are incorporated in the scheme. The students are provided with discipline- and skill-based choices, and this 'cafeteria approach' not only allows students to choose from options of their choice but also creates a space where their mind can explore, manoeuvre and grow. The CBCS is in tune with global trends and has a sound grading system that reflects the learner's performance in the best possible way. This system will also enhance the career prospects of the students.

An innovative programme of the college is the introduction of Bachelor of Arts with Honours in English from the academic session 2016-17. This will give our students another outlet for exploring a different dimension in Humanities.

(iii). Introduction of PFMS

The college has adopted the newly introduced Public Financial management Systems (PFMS) in 2016 for transaction of fund under the central schemes. It is a web based online transaction system. It is a cashless transaction. For this purpose Coordinator RUSA and an office assistance have undergone training organized by the Directorate of Higher Education, Nagaland. At present all the transactions under the RUSA, UGC and DBT schemes are through the PFMS. This system provides the financial transparency to all the stakeholders, i.e. funding agency, coordinating agency and project hosting organization (KSCJ, Kohima).

(iv). Orientation for Freshers on the First Day of College

An Orientation Programme is held for the freshers on the first day of college to provide the students with all the relevant information about the college. The conveners of various committees and special invitees address the students to acquaint them of the various amenities, extension activities, scholarships and awards, knowledge and learning

resources that are available in the college. Students are encouraged to join various bodies like the NCC, NSS, YRC, RRC, Mess Committee, Literary Committee, EU, Nature Club, Science Club, and Photography Club. These bodies form the breath of student organizations and they represent the full diversity of student needs and interests. The students are informed about the latest in education facilities like Computer education (Spoken Tutorial, IIT Mumbai, NIIT Computer Certificate Course), infrastructure, and career opportunities in various fields. Motivational talks are also sometimes given by professionals. Students are told about their rights and responsibilities, the rules and regulations of the college. At the end of the programme each student is given the *Handbook for Students* which has all the necessary information that the students need including how to sing the college anthem.

This practice of the college has turned out to be very helpful for the students as it has assuage many of the inconveniences and problems that the students encounter especially as freshers. We feel it has also helped with the discipline as the students are made known their responsibilities as well as the rules and regulations of the college and accompanying penalties if broken on the first day itself. This exercise has also saved time as every teacher need not spend time introducing all these again in their respective classes.

(v). Dry Run: Internal Quality Audit

An annual internal quality audit is conducted by the IQAC to monitor the progress of the College. This inspection has helped keep the faculty on their toes and ensure that the college is evolving according to its goals. The broad areas where this audit is done are the functioning of the various committees, research and publication, functioning of the departments, encouragement of teachers to improve their grades for career advancement, updating the teachers about the innovations and changes in the higher education sector, assessment of the infrastructure of the college, performances of students, event management and audit, and evaluation of the individual teacher performance.

Initially the IQAC would give an orientation of what needs to be done in this area. Faculty members who have attended seminars and conferences at the national and international level, and also visited educational institution of repute in the country would

give a power point presentation of their experiences. Modules for self assessment tests are structured on the probes given by NAAC. Sometimes students are groomed on soft skills and grace etiquettes during their summer camp. A SWOC (Strength, Weakness, Opportunity, and Challenges) analysis of the college is also done, which is collated and evaluated by the IQAC-Steering Committee.

The teachers are informed in advance about this exercise to ensure that they are ready with the department profile the format of which is given to them. Various committees of the college are also asked to prepare their annual report. This exercise is like a mirror of the college as it makes us see where exactly we stand in regards to the overall performance of the college.

(vi). Spoken Tutorial

This project is developed by IIT Bombay and sponsored by MHRD, Govt of India. It is a platform where students can enhance their IT and software skills at their own pace. Any student can enrol in this audio-video learning program and learn programmes like Linux, LaTeX, C/C++, Java, Pearl, etc. This is a free programme.

7.3. Best Practices

7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the College.

Best Practice 1

a. Title: Desktop SMS

b. Objectives: All information related to meetings, exam schedules, duties are sent through this facility. This will greatly facilitate the passing of information to the intended person/s in their absence and considerably check the giving of lame excuses by the teachers of not having received the notice. Therefore the work allotted to the particular teacher will be done on time.

c. The Context: A good net connectivity is needed for the successful implementation of such a practice as this feature is implemented through a 3rd party and a server which need

to be renewed annually. The office requires a dedicated staff with a good command of English to operate the SMS. This office also needs to coordinate very closely with the Head of the institution and the office administration.

d. The Practice: In an educational institution any information that needs to be conveyed to the intended person has to be efficient and quick. Such passing of messages or information is of utmost importance in areas related to examination duties, timely evaluation of papers, Staff Council meetings, etc. This facility is of great help in this context.

e. Evidence of Success: We now see a marked improvement in the attendance of meetings called by the Principal, HoD, or Conveners of committees. Cases of teachers coming late for exam duties have improved to a great extent as this service gives them timely reminders. This facility has improved the coordination between authority and faculty members to a great extent.

f. Problems Encountered & Resources Required: The feature fails when there is no net connectivity or network failure of the mobile phone.

Best Practice 2

Title: “Good Samaritan Fund” for Meritorious Students from Economically Disadvantaged Families

The Objectives: This fund has been initiated by the faculty of the college to financially help meritorious students who are from economically disadvantaged families. We believe this will ensure that no potential is wasted or not realised fully because of financial difficulties. It is also our hope that such magnanimous actions will inculcate in them a sense of fellow feeling and philanthropy.

The Context: The College gets a sizable number of students who are from economically difficult families. For many of them the government scholarships for SC/ST students is not enough. Some students are, therefore, in spite of being hardworking and brilliant, in danger of discontinuing their studies due to poverty. It is here that the faculty of the college chip in with their contribution to help the deserving students.

The Practice: During admission to the various programmes in the college the college authority and the teachers' association study the forms and mark sheets, to list who is entitled for this fund. Further discussions are held to see the authenticity of the cases and the list of the beneficiaries is finalized in consultation with the Principal supported by relevant documents like SC/ST certificate, income statement of parents/ guardians, ration card, etc. Once identified a student may receive help right at the entry point in the form of admission fees and/or hostel charges. Help may be discontinued if the student is not found to be sincere in studies or attendance.

Evidence of Success: Beneficiaries of this fund have generally performed well, some landing subject highest in various papers. Even the parents/guardians have visited us to express their gratefulness promising that their child/ward would do justice with the help that is rendered to them. It is our hope that these students would continue to be grateful alumni once they leave us and initiate similar acts triggering localized actions.

Problems Encountered

& Resources Required: So far we have not encountered any serious problem in the implementation of this practice, though identifying a genuine beneficiary is tricky at times. We also face the risk of a student suddenly leaving the college for technical courses. Should such cases arise the financial help is terminated at once. The college is reaching out to other avenues to strengthen this project.

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DEPARTMENTAL EVALUATIVE REPORT: ANTHROPOLOGY

1. **Name of the Department & its year of establishment:** Anthropology, 1977
2. **Names of Programmes / Courses offered (UG, PG, M.Phil. Ph.D., Integrated Masters; Integrated Ph.D., etc.):** Undergraduate and Postgraduate
3. **Interdisciplinary courses and departments involved:** Nil
4. **Annual/ semester/ choice based credit system:** Semester & Choice based credit system
5. **Participation of the department in the courses offered by other departments:** Nil
6. **Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors):**

| Designation | Sanctioned | Filled |
|----------------------|------------|--------------------|
| Professors | N/A | N/A |
| Associate Professors | N/A | N/A |
| Asst. Professors | Six | Six |
| | | Four (on contract) |

7. **Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./ M.Phil. etc.)**

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D. Students Guided for the Last 4 years |
|-----------|---------------|---------------------|-----------------------|---|---|
| Kikon M | Ph D | Associate Professor | Social Anthropology | On deputation to Higher Education Directorate | Nil |
| Jamir R M | M.sc. | Associate Professor | Physical Anthropology | 25 | „ |
| Nagi K | M A | Associate Professor | Social Anthropology | 23 | „ |
| Longku | M A, | Assistant | Social | 07 | „ |

| | | | | | |
|-----------------|--------------|------------------------|--------------------------|----|---|
| mer M | NET | Professor | Anthropology | | |
| Lezietsu K M | M.Sc, NET | Assistant Professor | Physical Anthropology | 09 | „ |
| Sharon J | M.Sc, NET | Assistant Professor | Social Anthropology | 02 | „ |
| Tetso D | Ph D | Assistant Professor | Archaeology | 04 | „ |
| Nakro S | M.Sc, NET | Assistant Professor | Physical Anthropology | 02 | „ |
| Imkuml ong | M.Sc, NET | Assistant Professor | Physical Anthropology | 01 | „ |
| Teruno N | M.Sc, NET | Assistant Professor | Physical Anthropology | 01 | „ |

8. Percentage of classes taken by temporary faculty – programme – wise information: Undergraduates:40%

9. Programme- wise Student Teacher Ratio:

Undergraduate, 1: 20 (2016: II semester, IV semester and VI semester)

10. Number of academic support staff (technical) and administrative staff Sanctioned and filled: Nil

11. Number of faculty with ongoing projects from a) national b) international Funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

| List of the ongoing Collaborating Research Projects | | | | | |
|---|--|--|--|----------|--|
| Sl. No | PI/ Department | Title of research project | Funding Agency (Approved Budget) | Duration | Implimenting Institute/ag ency) |
| 1. | Nagi K (PI) Longkumer M (Co- Investigator) (Anthropology) | Cultural history, ethnography and physical characteristics of the Nagas of Nagaland (Festivals and associated rituals: A symbolic representation of cultural values) | Dept. of Art and Culture, Govt of Nagaland (Rs. 8.0 lakhs) | 2011-16 | Anthropol ogical Society of Nagaland, Kohima |

| | | | | | |
|----|---|---|---|---------|--|
| 2. | Tetso D (Co-Investigator) (<i>Anthropology</i>) | Cultural history, ethnography and physical characteristics of the Nagas of Nagaland (<i>ZPK, PLK, TSK, PTL, Prehistoric Rock Shelters and Caves Sites in Kipheri District, Nagaland.</i>) | Dept. of Art and Culture, Govt of Nagaland (<i>Rs.19.0 lakhs</i>) | 2011-16 | Anthropological Society of Nagaland Kohima |
|----|---|---|---|---------|--|

12. Department projects funded by DST-FIST; DBT, ICSSR. etc; total grants received: Nil

13. Research facility / centre with
State Recognition (Anthropological Society of Nagaland)

14. Publications:

A. Publication of Faculty members:

| List of papers published by faculty members | | | | |
|---|--|--|---|--------------------------------|
| Sl. No | Authors | Title | Journal | Impact Factor (Thomson Reuter) |
| 1 | Aier I A (<i>Anthropology</i>) | Culture, Customary laws and Gender: Emerging issues in Nagaland | <i>Journal of the Asiatic Society</i> Vol. LIV No 2 (2012) | NA |
| 2. | Pokharia AK, Jamir T, Tetso D and Venuh Z (<i>Anthropology</i>) | First millennium BC to second millennium AD agriculture in Nagaland: a reconstruction based on archaeological evidence and radiocarbon dates | <i>Current Science</i> vol. 104 No 10 pp: 1341-1353 (2013) | 0.833 |

| List of Publication in the College Journal RÜSIE: A Journal of Contemporary Scientific, Academic and Social Issues, | | |
|---|------|-------|
| Sl. No | Name | Title |
| Volume 2, 2015 | | |

| | | |
|-----------------------|--|---|
| 1. | Aier I A | Development scenario in Nagaland: An anthropological critique. |
| Volume 1, 2014 | | |
| 2. | Jamir R M | Women and land rights. |
| 3. | Jamir R M, Longkumer M, Tetso D | Blood pressure level among the teaching and non-teaching staffs of Kohima Science College, Jotsoma, Kohima. |

| List of the Books Published by the Faculty Members (Reference Books) | | | | |
|---|--------------------------------------|--|---|--|
| Sl. . No. | Name of Authors | Title of the Book | Name of the Chapter in the Book | Name of Publishers |
| 1. | Aier I A & co-authors | Shifting Cultivation and Environmental change: Indigenous people, Agriculture, Forest Conservation <i>Malcolm Cairns (Ed)</i> | Gender Analysis and Indigenous Fallow Management | Routledge Publication. pp: 921-957 (2015) |
| 2. | Aier I A & co-authors | 50 years after Daojali Hading: Emerging Perspective in the Archaeology of Northeast India, <i>Tiatoshi Jamir and M. Hazarika (Ed)</i> | Oral Tradition and Archaeology of the Northeast: The Need for a Dialogue? | Research India Press, New Delhi, 2014 |
| 3. | Aier I A | North-East India: A Handbook of Anthropology, <i>T .B. Subba (Ed)</i> | Traditional Knowledge: Issues and Challenges | Orient Black Swan Pvt Ltd. 2012. |
| 4. | Aier I A | Encounters and Memories of Fieldwork in South-East Asia, <i>S.K.Chaudhury (Ed)</i> | 'In search of Story Tellers: Memories of Fieldwork Among the Khamniungan Nagas' | Sage Publication, 2014. |

| | | | | |
|-----|--|---|---|---|
| 5. | Jamir M R | Physical Characteristics of Nagas of Nagaland Vol. I ISBN:978-93-80500-75-1 | N/A | Heritage Publishing House, Dimapur, (2014) |
| 6. | Jamir M R | Physical Characteristics of Nagas of Nagaland Vol. II. ISBN:978-93-80500-76-8 | N/A | Heritage Publishing House, Dimapur, (2014) |
| 7. | Jamir, T, Vesa D and TetsoD. | Archaeology of Naga ancestral Sites: Recent Archaeological Investigation at Chungliyimti and Adjoining Sites (Vol. I). ISBN No. 9789380500775. | N/A | Heritage Publishing House, Dimapur, (2014) |
| 8. | Jamir, T, Tetso D , Venuh Z, Tripathy V M and Pokharia A K. | Archaeology of Naga ancestral Sites: Recent Archaeological Investigation in Phek and Kipheri Districts of Nagaland (Vol. II). ISBN No. 9789380500782. | N/A | Heritage Publishing House, Dimapur, (2014) |
| 9. | Tetso D | 50 years after Daojali Hading: Emerging Perspective in the Archaeology of Northeast India, <i>Tiatoshi Jamir and M. Hazarika (Eds)</i> | Animal remains from Naga Ancestral sites of Nagaland: A Preliminary Report (Anthropology) | Research India Press, New Delhi (2014) |
| 10. | Tetso D & Co-authors | Kopia Excavation Report <i>A.K. Kanungo (Ed.)</i> | Faunal remains recovered during the second and third seasons's excavation at Kopia, Sant Kabir Nagar, Uttar Pradesh | Kerala Council for Historical Research, Trivandrum (2013) |

| Forthcoming Books | | | | |
|-------------------|--|---|--|--|
| Sl. No. | Author | Title of the Book | Name of the Chapter in the Book | Publisher |
| 1. | Aier I A | Gender, (Dis)empowerment & Conflict in Northeast India and Nepal, <i>Ashild Kolas (Ed)</i> | Citizenship, Representation & Peace Negotiations in Naga Society. | Peace Research Institute of Oslo (PRIO), Norway <i>(In Press)</i> |
| 2. | Aier I A | Studies in Naga Oral Traditions- Vol.1: Memories and Telling of Origin Myths and Migration among the Aier. | N/A | Heritage Publishing House, Dimapur, <i>(In Press)</i> |
| 3. | Aier I A | Studies on Naga Oral Traditions-Vol.II: A collection of Folk Stories. | N/A | Heritage Publishing House, Dimapur, <i>(In Press)</i> |
| 4. | Aier I A & co-authors | Shifting Cultivation and Environmental change: Indigenous people, Agriculture, Forest Conservation. <i>Malcolm Cairns (Ed)</i> | Womens' Lives as Shifting Cultivators | Routledge Publication. London: <i>Earthscan</i> (2016) <i>(In Press)</i> |
| 5. | Aier I A and Chaudhary S (Co-ed), | Cultural heritage of Nagaland | N/A | IGRMS, Bhopal <i>(In Press)</i> |
| 6. | Nagi K | Traditional Festivals of the Nagas Vol. I . | N/A | Heritage Publishing House, Dimapur, <i>(In Press).</i> |
| 7. | Nagi K & Longkumer M | Traditional Festivals of the Nagas Vol. II.. | N/A | Heritage Publishing House, Dimapur, <i>(In Press).</i> |
| 8. | Tetso D & Co-authors | Pre-history of South Asia <i>Bakak Bishnupriya (Ed.)</i> | Recent archaeological investigation in the Naga Ophiolite belt of the Indo – Myanmar border: Summary of recent findings. | Centre for Archaeological Studies and Training, Eastern India, Kolkata. <i>(In Press)</i> |

15. Details of patents and income generated: Nil

16. Areas of consultancy and income generated: Nil

17. Faculty recharging strategies: Faculty members are encouraged to participate in Refresher /Orientation courses, Conferences, seminars and workshops.

19. Student projects

2013: Blood pressure variations among the teaching and non-teaching staff of the Kohima Science College, by the B.sc III year students. This project resulted in the publication of an article will appear in the Journal *Rüsie* a journal of contemporary scientific, academic and social issues.

20. Awards / recognitions received at the national and international level: Nil

21. Seminars/ Conferences/Workshops organized and the source of funding (National / International) with details of outstanding participants, if any

| Table 3.7: List of the conferences/seminar organized by the college. | | | | |
|---|--|--|-----------------------|---|
| Sl. No | Name of the conference | Date | Funding Agency | Participants |
| 1. | Cultural Heritage of Nagaland [Anthropology] | Sept 29 th - 30 th , 2015. | IGRMS, Bhopal | (i). Prof. Temsula Ao, Padmashree, Chairperson Nagaland State Women Commission. (ii).Prof. Sarit Kumar Chaudhuri, Director, IGRMS, Bhopal (iii). Dr. Alok Kumar Kanungo, IIT Gandhinagar. (iv). Shri Amba Jamir, Executive Director, Sustainable Development |

| | | | | |
|----|---|--|-----------------------------|--|
| | | | | Forum Nagaland and Policy Analyst (v). Dr. Tiatoshi Jamir, NU, Lumami (vi).Dr. Kanato Choppy, JU, Ranchi |
| 2. | Society, Culture and Development: Emerging Issues in Nagaland [Anthropology] | March 14 th - 15 th , 2012 | The Asiatic Society Kolkata | (i). Prof. M.K. Chakrabarti, General Secretary, Asiatic Society, Kolkata. (ii). Prof. Bhaghabati, Former Vice Chancellor of RGCU Itanagar. (iii). Shri Alemtemshi Jamir (IAS Rtd) Former Chief Secretary, Nagaland. (iv). Shri Khekiye Sumi (IAS Rtd) Former Commissioner and Secretary, Nagaland |

22. Student profile course-wise;

| Name of the Course (refer question no. 2) | Applications Received | Selected | | Pass percentage | |
|---|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| B.Sc Honours (2011) | 13 | 6 | 7 | 100% | 100% |
| B.Sc Honours (2012) | 19 | 5 | 14 | 100% | 100% |
| B.Sc Honours (2013) | 18 | 4 | 14 | 100% | 100% |
| B.Sc Honours (2014) | 17 | 4 | 13 | 100% | 100% |
| B.Sc Honours (2015) | 18 | 4 | 14 | 100% | 100% |

22. Diversity of Students

| Name of the Course (refer | % of students from the | % of students from the state | % of students other the states | % of students from other |
|---------------------------|------------------------|------------------------------|--------------------------------|--------------------------|
|---------------------------|------------------------|------------------------------|--------------------------------|--------------------------|

| question no. 2) | college | | | countries |
|-----------------|---------|-----|-----|-----------|
| Undergraduate | 50% | 40% | 10% | Nil |

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

NET: 80%

NPSC: (Police & State administrative services, Teachers, I officers, etc): 50 %

JRF: 10%

24. Student progression

| Student progression | Percentage against enrolled |
|---|-----------------------------|
| UG to PG | 100% |
| PG to M. Phil. | - |
| PG to Ph.D | - |
| Ph.D to Post- Doctoral | - |
| Employed Ⓡ Campus selection Ⓡ Other than campus recruitment | - |
| Entrepreneurs | - |

25. Diversity of staff

| Percentage of faculty who are graduates | |
|---|------|
| Of the same parent university | 100% |
| From other universities within the State | Nil |
| From other universities from other States | Nil |

26. Number of faculty who were awarded Ph. D., D.Sc. and D. Litt. During the assessment period: Nil

27. Present details about infrastructural facilities.

a) Library: 1

b) Internet facilities for staff and students: Broadband connection is available

c) Total number of class rooms: 4

d) Class rooms with ICT facility: 1

e) Students' laboratories: 1

f) Research laboratories: 1.

28. Number of students of the department getting financial assistance from the College: Nil

29. Was any need assessment exercise undertaken before the development of new Program(s)? If so, give the methodology.

With the success rate of the undergraduate students in Anthropology and the department's goal to tap the outstanding students in this field who mostly pursue higher studies outside the state, a series of discussions within the department faculty was held and consensus was arrived at to upgrade the present undergraduate program to post-graduate program.

30. Does the department obtain feedback from

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Discussions in the departmental meetings and corrective measures were taken.

b. students on curriculum as well as teaching-learning- evaluation and what is the response of the department to the same?

Discussions on feedback from the students and remedial measures were taken

31. List the distinguished alumni of the department (maximum 10)

- Kesonyü Yhome (IAS), Deputy Commissioner Dimapur, Nagaland.
- Dr. Watijungshi Jamir, Principal Kohima College
- Dr. Benrithung , Associate professor, Delhi University.
- Dr. Ketshukietuo Dzüvichü, Principal Oriental College, Kohima
- Dr. Tiatoshi Jamir, Associate professor, Nagaland University
- Dr. Ditamulu Vasa, Assistant professor, Nagaland University
- Smti. Kusa Fithu, Deputy Secretary (Nagaland Secretariat)
- Shri. Anchees Odyuo, Deputy Commandant, Kohima (OSD to Chief Minister)
- Dr. Avitoli, Assistant professor, Delhi University
- Dr. Kanato Choppy, Assistant professor, Jharkhand University

32. Give details of student enrichment programmes and what is the response of the Department of the same?

- 2012: Dr. N.K. Das (Anthropologist) interacted with the students and the faculty on his works done among the Nagas.
- 2012: Departmental visit and interaction with the students by the teachers and students of the Department of Anthropology, Diphu College, Assam University.
- December 2014 : As facilitator in Kohima for the Full bright-Nehru Project on “ A Dental Morphometric examination of the distinctiveness and affinities of Austro-

Asiatic and Tibeto-Burman speaking Ethnic groups of the south Asia” in collaboration under visiting professor NEHU Peter Hemphill, Associate professor, University of Oregon. Who interacted with the students on the same topic.

- 21st March 2016: A talk on ‘Climate and vegetation change in and around Dzukou valley, Nagaland’ by Dr. Sandhya Misra (DST-Young Scientist, Birbal Sahni Institute of Palaeobotany, Lucknow).

33. List the teaching methods adopted by the faculty for different programmes.

- Lecture
- Questioning
- Discussion
- Presentation (Smart board/PPT)

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

Discussions on feedback and remedial measures were taken

35. Highlight the participation of students and faculty in extension activities.

Students: NSS, NCC, Environmental Awareness Program, Blood Donation Drives and Charity works.

Teachers: Environmental Awareness Program, Charity works, as Master Trainers during state general assembly elections, as judges for various Governmental and Non-Governmental events, as Question Setters for Competitive Exams.

For detail, please refer section 3.6.3 in criterion III (Table 3.24 and Table 3.25 for students extension activities and Table 3.26 for faculty extension activities)

36. Give details of “beyond syllabus scholarly activities” of the department.

**Anthropology: Participation to seminar/conference/workshop/training programs
(2012-2016)**

| Sl No | Name | Name of event | Sponsoring Agency/ Organiser | Place & Dates |
|-------|---|---|---|--|
| 1 | Three faculty members from the department attended the training program | A training program on ICT aided teaching | IQAC, KSCJ, Kohima & IT and Technical Committee | KSCJ, Kohima Nov 15 th -18 th , 2016. |
| 2. | Tetso D, LezietsuK M, Longkumer M, | National Level Seminar on Interdisciplinary Research in Chemical Sciences (NSIRCS-2016) | UGC and Department of Higher Education, Nagaland | KSCJ, Kohima Sep 28 th -29 th , 2016. |
| 3. | All the faculty members of the department | One day workshop on “Research Methodology”. | IQAC, KSCJ, Kohima & Research Committee | KSCJ, Kohima May 14 th , 2016. |
| 4. | Nagi K | 11 th symposium and Surin International Folklore Festival | Surindra Rajabhat University, Surin | Surindra Rajabhat University, Surin, Thailand Jan15 th - 25 th , 2016. |
| 5. | Sharon K, Longkumer M, | Workshop on “Official Statistics in North Eastern States” | ISI, Kolkota; KSCJ, Kohima | KSCJ, Kohima Nov 02 nd – 04 th , 2015. |
| 6. | Jamir R M, Nagi K, Nakro S, Sharon J, Longkumer M, Khriekemhie-ü . Mary L | National Seminar on “Cultural Heritage of Nagaland” | IGRMS, Bhopal; Dept. of Anthropology, KSCJ, Kohima | KSCJ, Kohima Sept 29 th – 30 th , 2015. |
| 7. | All the faculty members of the department | Seminar on “An insight of the administrative and academic management of an Autonomous College: a case study of St. Xavier College, Kolkata” | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |
| 8. | All the faculty members of the department | Seminar on “CBCSs at Undergraduate level in the context of UGC National framework” | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |
| 9. | Longkumer M (<i>Anthropology</i>) | Training on “Gender Issue in Disaster Management” | Govt of Nagaland | ATI, Kohima, May 20 th – 22 nd , 2014. |
| 10. | Tetso D (<i>Anthropology</i>) | Regional Workshop on “Experimental Lithic Knapping & Microwear Studies” | Dept. of History & Archaeology, NU; ICHR, New Delhi | Dept. of History & Archaeology, NU March 15 th – |

| | | | | |
|-----|---|--|--|---|
| | | | | 22 nd , 2014. |
| 11. | All the faculty members of the department | One day workshop on “Student Counselling for Faculty” | IQAC, KSCJ, Kohima | KSCJ, Kohima May 28 th , 2013. |
| 12. | Teeruno N | A training on Community First Responder (CFR) | Nagaland State Disaster Management Agency (NSDMA) | Kohima, Aug 29 th -31 st , 2013 |
| 13. | All the faculty members of the department | Seminar on “Society, Culture and Development: Emerging Issues in Nagaland” | The Asiatic Society, Kolkata; | KSCJ, Kohima March 14 th – 15 th , 2012. |

| Anthropology: List of papers presented in conferences by the faculty members | | | |
|---|-----------------------------|--|--|
| Sl. No. | Name | Title | Conference title / venue/ date |
| 1. | Nagi K (Anthropology) | Transformative aspects of the feast of merit | <i>Cultural Heritage of Nagaland</i> , KSCJ, Kohima Sep 29 th -30 th , 2015. |
| 2. | Tetso D (Anthropology) | An ethnohistorical account on human – animal dynamism among Angami Nagas. | <i>Cultural Heritage of Nagaland</i> , KSCJ, Kohima Sep 29 th -30 th , 2015. |
| 3. | Aier I A (Anthropology) | Development and Change : Dimension of Change and value conflicts in Naga Society | <i>Society, Culture and Development : Emerging Issues</i> KSCJ, Kohima March 14 th -15 th , 2012. |
| 4. | Jamir R M (Anthropology) | Comparative study of anthropometric features of the Angami Naga | <i>Society, Culture and Development: Emerging Issues</i> , KSCJ, Kohima March 14 th -15 th , 2012. |
| 5. | Nagi K (Anthropology) | Women in Naga Society: Traditions and contemporary developments | <i>Society, Culture and Development: Emerging Issues</i> , KSCJ, Kohima March 14 th -15 th , 2012 |

37. State whether the program/ department is accredited/ graded by other agencies. Give details: No

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC)

Of the department

| Strengths | Weakness | Opportunities | Challenges |
|--|---|---|--|
| (i). Good Teacher Student Relation, (ii). Healthy Work Culture, (iii). Regularity, (iv). Capable and Dedicated Teachers, (v). Ethnographic Museum. | (i). Infrastructure, (ii). Library space and books. | (i). Postgraduate program with specializations. | (i). To open Research Centers and Affiliation/Collaboration with other National and International Institutions |

39. Future plans of the department:

- Cultural Research Center/Collaboration with other National and International Organizations
- Exhibition/Lectures on Eminent Local Academicians/Scholars
- Up gradation of Ethnographic Museums
- To Construct a Mock Excavation Site



DEPARTMENTAL EVALUATIVE REPORT: BOTANY

1. **Name of the Department & its year of establishment:** Botany & 1961
2. **Names of Programmes / Courses offered:** UG & PG
3. **Interdisciplinary courses and department involved:** Nil
4. **Annual/ semester/ choice based credit system:** Semester, Choice Based Credit System
5. **Participation of the department in the courses offered by other departments:** Nil
6. **Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors):**

| | Sanctioned | Filled |
|-----------------------------|------------|--------|
| Professors | - | Nil |
| Associate Professors | - | 6 |
| Asst. Professors | - | 5 |

7. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc.,)**

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D. Students Guided for the Last 4 years |
|--------------|---------------|----------------------------|---------------------------|----------------------------|---|
| Megoneitso | M.Sc. | Associate Professor & Head | Taxonomy | 34 | Nil |
| Sema T | M.Sc. | Associate Professor | Plant Ecology | 33 | Nil |
| Jamir S | M.Sc. | Associate Professor | Plant Ecology | 32 | Nil |
| Mekro V | M.Sc., L.L.B. | Associate Professor | Plant Ecology | 30 | Nil |
| Hiese V | M.Sc. | Associate Professor | Plant Physiology | 27 | Nil |
| Temjenwabang | M.Sc. | Associate Professor | Cell & Molecular Genetics | 21 | Nil |
| Kapfo W | M.Sc. | Assistant | Angiosperm | 20 | Nil |

| | | | | | |
|-------------|---------------------------|------------------------|---|----|-----|
| | NET | Professor | Taxonomy | | |
| Therie W | M.Sc., NET | Assistant Professor | Angiosperm | 12 | Nil |
| Yanthan M | M.Sc., PhD., NET | Assistant Professor | Cytogenetics & plant Breeding; Molecular Biology | 11 | Nil |
| Samadangla, | M.Sc., NET | Assistant Professor | Applied Biology | 11 | Nil |
| Moaakum | M.Sc., PhD. | Assistant Professor | Biology of reproduction in Angiosperm & Angiosperm Taxonomy | 04 | Nil |
| Angami K | M.Sc., M.Phil, PhD. | Assistant Professor | Plant pathology; microbiology | 03 | Nil |
| Neikha T | M.Sc., NET | Assistant Professor | Biology of reproduction in Angiosperm | 11 | Nil |

8. **Percentage of classes taken by temporary faculty – programme – wise information:** Nil

9. **Programme- wise Student Teacher Ratio:** 1:75

10. **Number of academic support staff:**

| | Sanctioned | Filled |
|-----------------------------|------------|--------|
| Technical staff | 5 | 5 |
| Administrative staff | NIL | NIL |

11. **Number of faculty with ongoing projects:** 2

a) **National:** 6

b) **International:** Nil

c) **Total grants received:**51.49

| Ongoing Major Research Project (2012-2016) | | | | | |
|---|--------------------------|---------------------------------|-----------------------|----------|------------------|
| Sl. No | PI/ Department | Title of research project | Funding agency | Duration | Budget (Lakh) |
| 1 | Vesa H (PI) & Moaakum | Establishment of biotech Hub | DBT (under special | 2010-16 | 40.11 |

| | | | | | |
|---|---------|---|--|---------|-----------|
| | (Co-PI) | | program for the North Eastern state of India ” | | |
| 2 | Moaakum | Chemical ecology study of Dezo Nha: A potent anti-rheumatic plant | DBT ” | 2015-21 | Rs. 11.38 |

List of the ongoing Collaborating Research Projects

| Sl. No | PI/ Department | Title of research project | Funding Agency (Approved Budget) | Duration | Implementing Institute/agency) |
|--------|--------------------------------------|--|---------------------------------------|----------|--|
| 1. | Hiese V Co- Investigator (Botany) | Pilot scale optimization for standardization of processing and Technologies of selected high value aromatic and medicinal plants, including technology demonstration and extension for socio economic upliftment | DST, Govt of India (Rs. 414.75 lakhs) | 2015-17 | IIIM, (ICAR), Srinagar & NASTEC, Kohima. |
| 2. | Moaakum (Co- Investigator) (Botany) | Development of In vitro clonal propagation of Forestry species <i>Dipterocarpus macrocarpa</i> Vesque and <i>Duabanga grandiflora</i> (DC.) Walp. | DBT, Govt of India (Rs.49.91 lakhs) | 2015-18 | Department of Forest & Environment, Govt of Nagaland |

12. Department projects funded by DST-FIST; DBT, ICSSR. Etc; total grants received

| Sl. no | Name of the project | Name of Funding agencies | Total grants received |
|--------|---------------------------|--------------------------|-----------------------|
| 1. | Institutional Biotech Hub | DBT | 40 Lakh |

13. Research facility / centre with

- a) **State recognition:** Institutional Biotech Hub

- b) **National recognition:** Nil
 c) **International recognition:** Nil

14. Publications:

a) Number of papers published in peer reviewed journals:

- i. **National:** 07
 ii. **International:** 01

| List of papers published by faculty members | | | | |
|---|--|--|---|--------------------------------|
| Sl. No | Authors | Title | Journal | Impact Factor (Thomson Reuter) |
| 1. | Moaakum , Chatrurvedi S K (<i>Botany</i>) | A Checklist of angiospermic flora of Zunheboto district of Nagaland, India. | <i>Pleione</i> , 9 (1) pp 82-94 (2015) | NA |
| 2. | Moaakum , Dey S, Chatrurvedi S K and Jamir N S (<i>Botany</i>) | Diversity of the genus <i>Hoya</i> R. Brown (Apocynacea: Asclepiadoideae) in Tuensang and Zunheboto district of Nagaland, India. | <i>Pleione</i> 8(2) 8 (2) pp 391-394 (2014) | NA |
| 3. | Moaakum and Dey S (<i>Botany</i>) | Rediscovery of <i>Hedychium longipedunculatum</i> A.R.K Sastry & D.M. Verma [Zingiberaceae] from Nagaland, India. | <i>Pleione</i> , 7 (1) pp 290-294 (2013) | NA |
| 4. | Yanthan M , Misra A K (<i>Botany</i>) | Amplicon restriction patterns associated with nitrogenase activity of root nodules for selection of superior <i>Myrica</i> seedling. | <i>Journal of Biosciences</i> 38 (4), pp 789-795 (2013) | 1.42 |
| 5. | Yanthan M , Misra A K (<i>Botany</i>) | Molecular approach to the classification of medicinally important actinorhizal genus <i>Myrica</i> | <i>Indian Journal of Biotechnology</i> , vol 12, pp 133 -136. (2013) | 0.29 |

List of Publication in the College Journal RÜSIE: A Journal of Contemporary

| Scientific, Academic and Social Issues, | | |
|---|------------------|--|
| Sl. No | Name | Title |
| Volume 1, 2014 | | |
| 1. | Khrienuo | New-sense <i>sans</i> nuisance: Unravel the potential secrets of algae |
| 2. | Therie W | Bee – Friend of flowers |
| 3. | Yanthan M | Actinorhizals: A review |

b) **Monographs:** Nil

c) **Chapter (s) in Books:** 01

| List of the Books Published by the Faculty Members (Reference Books) | | | | |
|--|--|---|---|---|
| Sl. . No. | Name of Authors | Title of the Book | Name of the Chapter in the Book | Name of Publishers |
| 1. | Chaturvedi, S K, Moaakum, S Dey, Jamir N | Diversity and Conservation of Plants and Traditional Knowledge. <i>Panda S & Ghosh C (Eds)</i> | <i>Papilionanthe vandarum</i> (Reichenbach f.) Garay [Orchidaceae]: A new record for Nagaland, India. | Bishen Singh & Maninder Pal Singh Dehradun (2012). |

d) **Editing Books:** Nil

e) **Books with ISBN numbers with details of publishers:**

Blooming Tales: A book of floral arrangement. Published by Nagaland Flower Growers Association, assisted by Sungtinaro Jamir, Khrienuo Angami & Moaakum

| List of the Book/s Published by the Faculty Members (Text Books) | | | | |
|--|---|--|-------------------------------|--|
| Sl. No. | Name of Authors | Title of the Book | Name of the Chapter in a Book | Name of Publishers |
| 1. | Doulo V, Therie W and Yhome R | Biology laboratory Manual for class 12 | N/A | Academic Publisher, Kohima, Nagaland ISBN:9788193143339 |
| 2. | Jamir S, Mekro V, Temjenwabang, Therie W, Yanthan M, Samadangla, Angami D, Limatemjen, Remmei K, Doulo | Biology laboratory Manual for class 11 | N/A | Academic Publisher, Kohima, Nagaland ISBN:9788193143377 |

| | | | |
|------------|--|--|--|
| V, Yhome R | | | |
|------------|--|--|--|

f) **Number listed in the International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database– International Social Sciences Directory, EBSCO host, etc.)** : Nil

g) **Citation Index – range / average:** Nil

h) **SNIP:** Nil

i) **SJR:** Nil

j) **Impact factor – range / average:** 0.29- 1.42/0.855

k) **h-index:** Nil

15. **Details of patents and income generated:** Nil

16. **Areas of consultancy and income generated:** As follows

- i. As consultant to the Department of Forest and Wild Life Conservation, Govt of Nagaland for floristic studies
- ii. As instructor to new recruits in the Department of Forest and Wild Life Conservation, Govt of Nagaland.
- iii. As an expert consultant during the “*Conservation Assessment and Management Prioritization (CAMP) process using IUCN Red list categories and criteria, for wild medicinal plants of Nagaland*” workshop organized by the Department of Forest, Ecology, Environment and Wildlife, Govt of Nagaland and FRLHT, Bangalore.

17. **Faculty recharging strategies:**

- Workshops
- Seminars
- Orientation Courses
- Refresher Courses
- Conferences

18. Student projects:

- a) **Percentage of students who have done in-house projects, including inter –Departmental:** 15%
- b) **Percentage of students doing projects in collaboration with Industries/Institutes:** Nil

19. Awards / recognitions received at the national and international level by

- a) **Faculty:** Nil
- b) **Doctoral / postdoctoral fellows:** Doctoral-03 (ongoing)
Postdoctoral Fellow-01 (ongoing)
- c) **Students:** Nil

20. Seminars/ Conferences/Conferences/Workshops organized and the source of funding (national / internationals) with details of outstanding participants, if any:

- a. Workshop on Mushroom Cultivation organized by the Department of Botany, Kohima Science College (Autonomous), Jotsoma and funded by the Institutional Bio-tech hub, KSCJ.

21. Student profile course-wise:

| Name of the Course (refer question no. 2) | Applications Received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-------------------------|--------|
| | | Male | Female | Male | Female |
| B.Sc. Botany Honours & General 2016 | NA | NA | NA | 25 (number of students) | |
| 2015 | NA | NA | NA | 13 (number of students) | |
| 2014 | NA | NA | NA | 20 (number of students) | |

22. Diversity of Students:

| Name of the Course (refer question no. 2) | % of students from the College | % of students from the state | % of students from other states | % of students from other countries |
|---|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| | | | | |

| | | | | |
|-------|----|----|----|-----|
| B.Sc. | NA | NA | NA | Nil |
|-------|----|----|----|-----|

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

NA

24. Student progression:

| Student progression | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG | 80% |
| PG to M. Phil. | Data not available |
| PG to PhD | Data not available |
| PhD to Post- Doctoral | Data not available |
| Employed | |
| • Campus selection | NA |
| • Other than campus recruitment | NA |
| Entrepreneurs | NA |

25. Diversity of staff

| Percentage of faculty who are graduates | |
|---|------|
| Of the same parent university | 20 % |
| From other universities within the State | NIL |
| From other universities from other States | 80% |

26. Number of faculty who were awarded Ph.D., D. Sc. and D. Litt. During the assessment period: Nil

27. Present details about infrastructural facilities.

- a) **Library:** Yes (*ca* 250 books)
- b) **Internet facilities for staff and students:** Yes
- c) **Total number of class rooms:** 10
- d) **Class rooms with ICT facility:** 01
- e) **Students' laboratories:** 02
- f) **Research laboratories:** 01

28. Number of students of the department getting financial assistance from the college: Nil

29. Was any need assessment exercise undertaken before the development of new Program(s)? If so, give the methodology: No
30. Does the department obtain feedback from:
- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it? : No
 - Students on curriculum as well as teaching-learning- evaluation and what is the response of the department to the same? : Yes. There were no adverse comments.
31. List the distinguished alumni of the department (maximum 10).
- Mr. Samuel Changkija (IFS)
 - Mr. Temjemyapang (IFS)
 - Mr. Supongnukshi (IFS)
 - Ms. Avelu Ruho (NCS)
 - Mrs. Pusazole (IFS)
 - Ms. Rongsenlemla (IFS)
 - Mrs. Zuthunglo (IFS)
 - Mrs. Limanenla (NCS)
 - Mrs. Zenei (NCS)
 - Mrs. Bendanglila (NCS)
32. Give details of student enrichment programmes and what is the response of the Department of the same?: No
33. List the teaching methods adopted by the faculty for different programmes:
- ICT
 - Conventional board teaching
 - Charts
 - Interactive group discussion.
 - Seminar presentation
34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?
- Internal assessments
 - Seminars
 - Assignments
 - Projects
 - Field studies

35. Highlight the participation of students and faculty in extension activities:

I. Students:

- Blood donation
- Community social work
- Charitable work

II. Faculty:

- As resource subject experts
- As external examiners
- As moderators
- As judges
- As advisors to various student Union clubs

For detail, please refer section 3.6.3 in criterion III (Table 3.24 and Table 3.25 for students extension activities and Table 3.26 for faculty extension activities)

36. Give details of “beyond syllabus scholarly activities” of the department.

| Botany: Participation to seminar/conference/workshop/training programs (2012-2016) | | | | |
|---|---|---|---|--|
| Sl. No | Name | Course | University | Duration |
| 1. | Neikha T, Therrie W (<i>Botany</i>) | Winter school on Science and Society | ASC Mizoram University Aizwal | Nov 26 th –Dec 20 th , 2016 |
| 2. | Three faculty members from the department attended the training | A training program on ICT aided teaching | IQAC, KSCJ And IT and Technical committee | KSCJ, Kohima Nov 15 th -18 th , 2016 |
| 3. | All the faculty members of the deparment and the honours students | “Awareness program on “ Medicinal plant” under National Campaign on Medicinal plant | National Medicinal Plant Board, Ministry of Ayush, Govt of India and State Medicinal Plant Board, Nagaland | KSCJ, Kohima Nov 8 th , 2016 |
| 4. | Moaakmu (<i>Botany</i>) | First Collaboration in Indian Chemical Ecology | DBT, Govt of India | TIFR, Bengaluru Sep 10 th -13 th , 2016 |
| 5. | All the faculty members of the department | One day workshop on “Research Methodology”. | IQAC, KSCJ & Research Committee | KSCJ, Kohima 14 th May, 2016. |

| | | | | |
|-----|---|---|---|---|
| | | | | |
| 6. | Kapfo W (<i>Botany</i>) | Regional Conference on Higher Education | MHRD Govt of India | GU, Guwahati, April 18 th , 2016. |
| 7. | Jamir S, (<i>Botany</i>) | Board meeting of the 11 th Surin International Folklore Festival and Symposium (SIFFS) | Surindra Rajabhat University (SRU) Surin, Thailand | Surindra Rajabhat University (SRU) Surin, Thailand Jan 18 th , 2016. |
| 8. | Kapfo W, Jamir S, Wabang, | 11 th symposium and Surin International Folklore Festival | Surindra Rajabhat University, Surin | Surindra Rajabhat University, Surin, Thailand Jan 15 th - 25 th , 2016. |
| 9. | All the faculty members of the department | Seminar on “An insight of the administrative and academic management of an Autonomous College: a case study of St. Xavier College, Kolkata” | IQAC, KSCJ, | KSCJ, Kohima Sep 2 nd , 2015. |
| 10. | All the faculty members of the department | Seminar on “CBCSs at Undergraduate level in the context of UGC National framework” | IQAC, KSCJ, | KSCJ, Kohima Sep 2 nd , 2015. |
| 11. | All the faculty members of the department | Workshop on Methodology of Teaching | IQAC, KSCJ, Kohima | KSCJ, Kohima Sept 14 th , 2013 |
| 12. | All the faculty members of the department | One day workshop on “Student Counselling for Faculty” | IQAC, KSCJ, Kohima | KSCJ, Kohima May 28 th , 2013. |
| 13. | Kapfo W Moaakum (<i>Botany</i>) | National Conference on <i>‘Recent Trends in Plant Diversity and Conservation Strategies’</i> | East Himalayan Society for Spermatophyte Taxonomy. | Department of Botany, NU, Lumami, Sept 29 th – 30 th , 2012, |

List of Papers Presented in Conferences by the Faculty Members

| Sl. No. | Name | Title | Conference title / venue/ date |
|---------|------|-------|--------------------------------|
|---------|------|-------|--------------------------------|

| | | | |
|----|---------------------|--|---|
| 1. | Moaakum (Botany) | Ethno botanical approaches of traditional medicine, religious and supernatural beliefs of gingers among Naga tribes. | <i>“Cultural Heritage of Nagaland;</i> KSCJ, Kohima Sep 29 th -30 th , 2015. |
| 2. | Kapfo W (Botany) | Litterfall in Pulie Badze wildlife sanctuary and Jotsoma community forest. | <i>National Seminar on Globalization , Development and Environment with Special Reference to North-East India;</i> NU, Lumami March 19 th -20 th , 2015. |

37. State whether the programme/ department is accredited/ graded by other agencies. Give details: No

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

| Strength | Weaknesses | Opportunities | Challenges |
|---|--|---|--|
| The Department has capable Human Resource | Lack of diversity in the specialization of the teachers | The teachers can avail leave for 3 years for further studies if desired | The Department have no say in the appointment of the teachers, thereby creating a gap |
| The Department have students who are intelligent, inquisitive and book lovers | The departmental library is ill-equipped and faces space constraint. And no up gradation in terms of latest editions of books. | The department can make use of funds from the government library Schemes to procure books | The Department needs to subscribe to E-resources and various scientific and research journals that will cultivate critical thinking and foster research culture. |
| There are various ongoing projects currently active in the department | Inability on the part of most teachers to give time to pursue research project | There are lots of areas in the state where very little or no information is there thereby creating an opportunity for potential research studies. | The department has to collaborate with various other universities and college (e.g. solo project, Twining projects) that will help the college to be a centre for excellence, inventions and new discoveries |
| The department has good number of students | Students- teachers ratio is very high; | The department can propose for recruitment | Long bureaucratic |

| | | | |
|--|--|--|--|
| | necessitating the requirement of more faculties | of additional faculties and also make use of retired scientist, professors, which is made available through DBT from various field from time to time to enlighten the students as well as lighten the workload of the teachers sometimes | procedures to get funding for both trivial or important matters leading to stagnancy and loss of interest. |
| Many of the faculty members have attended various course works, seminars and presented papers etc. | There is no record of any seminar (National/ International) that is conducted by the Department. | Can apply to the funding agencies like UGC, DBT, DST, etc for funding of seminars and workshops | Logistic issues and other problems in getting some of the world renowned experts and scientists to actually come and attend the seminars which will benefit all. |

39. Future plans of the department

- Offer more specialization for Postgraduate programme
- Upgrade existing library
- Upgrade existing laboratory
- Academic exposure trips to various institutions
- Initiate student exchange programmes
- Initiate faculty exchange programmes
- Initiate more research activities



DEPARTMENTAL EVALUATIVE REPORT: CHEMISTRY

1. **Name of the Department & its year of establishment:** Chemistry & 1961
2. **Names of Programmes / Courses offered:** UG
3. **Interdisciplinary courses and departments involved:** Nil
4. **Annual/ semester/ choice based credit system:** Semester Choice Based Credit System
5. **Participation of the department in the courses offered by other departments:**

Nil

6. **Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors):**

| Designation | Sanctioned | Filled |
|----------------------|------------|--------|
| Professors | N/A | N/A |
| Associate Professors | N/A | N/A |
| Asst. Professors | 14 | 14 |

7. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc.,)**

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D. Students Guided for the Last 4 years |
|------------|---------------|----------------------------|---------------------|----------------------------|---|
| Mishra S K | M.Sc. | Associate Professor & Head | Inorganic Chemistry | 31 | Nil |
| Ao N M | M.Sc. | Associate Professor | Inorganic Chemistry | 23 | Nil |
| Tiwari K K | M.Sc., Ph.D. | Associate Professor | Organic Chemistry | 21 | Nil |
| Vizo S | M.Sc. | Assistant Professor | Inorganic Chemistry | 26 | Nil |

| | | | | | |
|---------------|-----------------|------------------------|------------------------|----|----------------|
| Choudhary V K | M.Sc., Ph.D. | Assistant Professor | Organic Chemistry | 23 | Nil |
| Pillai R V | M.Sc., Ph.D. | Assistant Professor | Physical Chemistry | 22 | Registe red |
| Punyu K | M.Sc., | Assistant Professor | Physical Chemistry | 19 | Nil |
| Jamir T T | M.Sc., Ph.D. | Assistant Professor | Organic Chemistry | 19 | Nil |
| Hesielie R | M.Sc. | Assistant Professor | Physical Chemistry | 18 | Nil |
| Kuotsu N B | M.Sc. | Assistant Professor | Physical Chemistry | 18 | Nil |
| Chubarenla A | M.Sc. | Assistant Professor | Inorganic Chemistry | 13 | Nil |
| Rhetso V | M.Sc., PhD. | Assistant Professor | Inorganic Chemistry | 14 | Nil |
| Kibami D | M.Sc., Ph.D. | Assistant Professor | Physical Chemistry | 11 | Nil |
| Yhor S | M.Sc. | Assistant Professor | Inorganic Chemistry | 07 | Nil |

8. Percentage of classes taken by temporary faculty – programme – wise information:
Nil

9. Programme- wise Student Teacher Ratio: 1:30

10. Number of academic support staff:

| | Sanctioned | Filled |
|----------------------|------------|--------|
| Technical staff | 7 | 7 |
| Administrative staff | Nil | Nil |

11. Number of faculty with ongoing projects: 2

- d) National: 02
- e) International: Nil
- f) Total grants received : 4.30 Lakhs

| Ongoing Minor Research Project (2012-2016) | | | | | |
|--|---------------------------|--|----------------|----------|---------------|
| Sl. No | PI/ Department | Title of research project | Funding agency | Duration | Budget (Lakh) |
| 3. | Kuotsu N B (Chemistry) | Studies on certain new environmental friendly pathways | -Do- | 2015-17 | Rs. 3.30 |

| Completed Minor Research Project (2012-2016) |
|--|
|--|

| Sl. No | PI/ Department | Title of research project | Funding agency | Duration | Budget (Lakh) |
|--------|--------------------------|---|-----------------------|----------|---------------|
| 4. | Jamir T T (Chemistry) | A study of impact of coal mining on water quality in Mangkolemba region of Mokokchung District, Nagaland. | DST, Govt of Nagaland | 2014-16 | 1.00 |

12. Department projects funded by DST-FIST; DBT, ICSSR. Etc; total grants received: Nil

13. Research facility / centre with

- d) State recognition: Nil
- e) National recognition: Nil
- f) International recognition: Nil

14. Publications:

- 1) Number of papers published in peer reviewed journals
National/International: 04
Inhouse journal: 02

| List of papers published by faculty members | | | | |
|---|---|--|---|--------------------------------|
| Sl. No | Authors | Title | Journal | Impact Factor (Thomson Reuter) |
| 1 | Alimenla B , Kuotsu B , Sinha U B (Chemistry) | Tetrapropylammounium Tribromide- An efficient reagent for solvent-free Bromination. | <i>Chemical Sciences Transactions</i> vol 3(2) pp 826-832 (2014) | NA |
| 2. | Chubaakum P, Kibami D , Rao KS, Sinha D (Chemistry) | Synthesis and characterization of activated Carbon from the Biowaste of the plant <i>Manihot Esculenta</i> . | <i>Chemical Science Transactions</i> , 4 (1) pp 59-68 (2015) | NA |
| 3. | Jamir T T (Chemistry) | Impact of coal mining on water quality in Mankolemba region under Mokokchung district Nagaland, India. | <i>Journal of Environmental Research and Development</i> , vol 10 No 03 pp 436-444 (2016) | NA |
| 4. | Kibami D (Chemistry) | Linear correlation study and regression analysis | <i>International Journal of</i> | NA |

| | | | | |
|--|--|--|--|--|
| | | of drinking water quality in Mokokchung town, Nagaland, India. | <i>Engineering Research and Management</i> , vol 1 issue 3, (2014) | |
|--|--|--|--|--|

| List of Publication in the College Journal RÜSIE: A Journal of Contemporary Scientific, Academic and Social Issues, | | |
|---|-------------------|--|
| Sl. No | Name | Title |
| Volume 2, 2015 | | |
| 1. | Pillai R V | Geochemical variation of rare earth elements in Disang shales of Kohima, Nagaland. |
| Volume 1, 2014 | | |
| 2. | Pillai V | Trace element geochemistry of Disang shales: A case study from Kohima, Nagaland. |

- m) Monographs: Nil
- n) Chapter (s) in Books: Nil
- o) Editing Books: Nil
- p) Books with ISBN numbers with details of publishers:
- q) Number listed in the International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database– International Social Sciences Directory, EBSCO host, etc.): NA
- r) Citation Index – range / average: NA
- s) SNIP: NA
- t) SJR: NA
- u) Impact factor – range / average: NA
- v) h-index: NA

15. Details of patents and income generated: Nil

16. Areas of consultancy and income generated: Water quality testing (free of cost)

17. Faculty recharging strategies:

- Workshops
- Seminars
- Orientation Courses
- Refresher Courses
- Conferences

18. Student projects:

- c) Percentage of students who have done in-house projects, including inter – Departmental: All the honours students of 6th Semester.

- d) Percentage of students doing projects in collaboration with industries/Institutes: Nil

19. Awards / recognitions received at the national and international level by

- d) Faculty: NIL
 e) Doctoral / postdoctoral fellows: Doctoral-01 (ongoing)
 f) Students: NIL

20. Seminars/ Conferences/Conferences/Workshops organized and the source of funding (national / internationals) with details of outstanding participants, if any

| The conferences/seminar organized by the department. | | | | |
|--|---|---|----------------|---|
| Sl. No | Name of the conference | Date | Funding Agency | Participants |
| 1. | National Level Seminar on Interdisciplinary Research in Chemical Sciences (NSIRCS-2016) | Sep 28 th - 29 th , 2016. | UGC | (i). Prof. R. H. Duncan Lyngdoh,, Department of Chemistry, NEHU, Shillong. (ii). Prof. R. K. Bhubon Singh Department of Chemistry, MU, Imphal (iii). Prof. Ghanashyam Bez Department of Chemistry, NEHU, Shillong. (iv). Dr. Utpal Bora Department of Chemical Sciences TU, Tezpur (v). Dr. Upasana Bora Sinha NU, Lumami |

:

21. Student profile course-wise:

| Name of the Course (refer to question no. 2) | Applications Received | Selected | | Pass percentage | |
|---|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| B.Sc.Honours & General | | | | | |
| 2012 | 10 | 5 | 5 | 80% | 75% |
| 2013 | 22 | 9 | 13 | 64% | 90% |
| 2014 | 26 | 13 | 13 | 62% | 80% |
| 2015 | 15 | 07 | 08 | 83% | 66% |
| 2016 | 56 | 31 | 25 | 75% | 100% |

22. Diversity of Students:

| Name of the Course (refer question no. 2) | % of students from the College | % of students from the state | % of students of other the states | % of students from other countries |
|---|--------------------------------|------------------------------|-----------------------------------|------------------------------------|
| B.Sc. | NA | NA | NA | NA |

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

NA

24. Student progression:

| Student progression | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG | 90% |
| PG to M. Phil. | NA |
| PG to PhD | NA |
| PhD to Postdoctoral | NA |
| Employed | |
| • Campus selection | NA |
| • Other than campus recruitment | NA |
| Entrepreneurs | NA |

25. Diversity of staff

| Percentage of faculty who are graduates | |
|---|------|
| Of the same parent university | 21 % |
| From other universities within the State | NIL |
| From other universities from other States | 79% |

26. Number of faculty who were awarded Ph.D., D. Sc. and D. Litt. during the assessment period: 01**27. Present details about infrastructural facilities.**

a. Library: Yes

- b. Internet facilities for staff and students: Yes
- c. Total number of class rooms: 03
- d. Class rooms with ICT facility : 01
- e. Students' laboratories: 06
- f. Research laboratories: 01

28. Number of students of the department getting financial assistance from College:
Nil

29. Was any need assessment exercise undertaken before the development of new Program(s)? If so, give the methodology : Feedback from the teachers and students.

30. Does the department obtain feedback from:

(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it? : Yes, necessary corrective measures taken & utilize to the maximum for the upgradation of the curriculum.

(b) Students on curriculum as well as teaching-learning- evaluation and what is the response of the department to the same? : Yes, Necessary corrective measures are being taken.

31. List the distinguished alumni of the department (maximum 10).

| Name | Designation |
|--------------------------|---|
| 1.Mr.Kaushik Mukherjee | Software Scientist, Bangalore |
| 2.Dr. Toka Swu | Asst. Professor, University of Pondichery |
| 3.Mrs. Keneingunuo Clara | District Transport Officer, Dimapur |
| 4.Mr. Rongsenkumzuk | Asst Director, Fishery Govt of Nagaland |
| 5.Mrs. Neizono Neil | Asst. Scientist. Pollution Control Board Nagaland |
| 6.Mr. Puthu Vitzu | Lecturer, Govt Polytechnic Kohima |
| 7.Mr. Peter Mao | Sr. Manager SBI Kohima |
| 8. Mr.Benjongnungsang | Technical Officer, Food safety, H & FW deptt Nagaland |

| | |
|--------------------|---------------------------------|
| 9.Ms. Moanaro | Chemist, PHE Kohima |
| 10.Mr. Nahe Konyak | Asst Election Officer, Nagaland |

32. Give details of student enrichment programmes and what is the response of the Department of the same?:

a. All the Chemistry Honours students along with a faculty, participated in a workshop on the topic "Clean environment" organized by Higher Education dept. Govt of Nagaland.

b. Students interacted with the researchers during the two days National Level Seminar on Interdisciplinary Research in Chemical Sciences (NSIRCS-2016) during Sep 28th - 29th, 2016.

33. List the teaching methods adopted by the faculty for different programmes:

- ICT
- Conventional board teaching
- Charts
- Interactive group discussion.
- Seminar presentation

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- Internal assessments
- Seminars
- Assignments
- Projects
- Field studies
- Feedback from the students

35. Highlight the participation of students and faculty in extension activities:

1. Students & faculty's actively participate in NSS, NCC, YRC & RRC

programmes. At present the nodal officers for NCC, RRC & YRC is from the department faculty.

2. As a resource person for various programmes in the state

For detail, please refer section 3.6.3 in criterion III (Table 3.24 and Table 3.25 for students extension activities and Table 3.26 for faculty extension activities)

36. Give details of “beyond syllabus scholarly activities” of the department.

| Chemistry: Participation to seminar/conference/workshop/training programs (2012-2016) | | | | |
|--|---|--|---|---|
| Sl. No | Name | Course | University | Duration |
| 1 | Three faculty members of the department attended the training. | A training program on ICT aided teaching | IQAC, KSCJ & IT and Technical Committee | KSCJ, Kohima Nov 15 th - 18 th , 2016. |
| 2. | Ao N M, Tiwari K K, Vizo S, Choudhary V K, Jamir T T, Pillai R V. Hiesiele R, Chubarenla A, Rhetso V, Kibami D, Yhor S. (Chemistry) | National Level Seminar on Interdisciplinary Research in Chemical Sciences (NSIRCS-2016) | UGC and Dept. of Higher Education, Nagaland | KSCJ, Kohima, Sep 28 th - 29 th , 2016. |
| 3. | Yhor S (Chemistry) | Attended Pre Commission Course (PRCN-SD/160) | NCC-OTA, Kamptee | Nagpur, Jul 8 th – Oct 9 th , 2016. |
| 4. | All the faculty members of the department. | One day workshop on “Research Methodology”. | IQAC, KSCJ | KSCJ, Kohima, May 14 th , 2016. |
| 5. | Vizo S (Chemistry) | 11 th symposium and Surin International Folklore Festival | Surindra Rajabhat University, Surin | Surindra Rajabhat University, Surin, Thailand Jan 15 th - 25 th , 2016. |
| 6. | Punyü K, (Chemistry) | Special Winter School (Interdisciplinary) | UGC, HRD Centre NEHU, Shillong | Oct 26 th – Nov 15 th , 2015. |
| 7. | Jamir T T (Chemistry) | Short-term Course in Environmental Sciences (Interdisciplinary) | UGC, HRD Centre NEHU, Shillong | Oct 05 th – 10 th , 2015. |
| 8. | All the faculty members of the department | Seminar on “An insight of the administrative and academic management of an Autonomous College: a | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |

| | | | | |
|-----|---|--|--|--|
| | | case study of St. Xavier College, Kolkata” | | |
| 9. | All the faculty members of the department | Seminar on “CBCSs at Undergraduate level in the context of UGC National framework” | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |
| 10. | Vizo S, Choudhary V K (Chemistry) | Short-term Course in Research Methodology (Interdisciplinary) | UGC HRD Centre NEHU, Shillong | Aug 17 th – 22 nd , 2015. |
| 11. | All the faculty members of the department | Workshop on Methodology of Teaching | IQAC, KSCJ, Kohima | KSCJ, Kohima Sept 14 th , 2013. |
| 12. | All the faculty members of the department | One day workshop on “Student Counselling for Faculty” | IQAC, KSCJ, Kohima | KSCJ, Kohima May 28 th , 2013 |
| 13. | Choudhury V K (Chemistry) | Refresher Course Chemistry | Kumaun University (KU), Nainital | Nov 19 th – Dec 09 th , 2012. |
| 14. | Jamir T T, Kuotsu N B, | Refresher Course Environmental Science | JNU –ASC New Delhi | April 02 nd – 27 th , 2012. |
| 15. | Jamir T T (Chemistry) | National Seminar on Materials Science | UGC; School of Agricultural Scienc & Rural Development, NU | Patkai Christian College (Autonomous), – Seithekiema Feb 17 th – 18 th , 2012. |
| 16. | Pillai R V (Chemistry) | Short term course in disaster management (Interdisciplinary) | UGC-ASC, Univeristy of Kerala, | Feb 14 th - 18 th , 2012. |
| 17. | Pillai R V (Chemistry) | Workshop on “Profiling Research Publications for Quality Research” | Cochin University of Science & Technology (CUST) | Kochi Jan 3 rd , 2012 |

List of Papers Presented in Conferences by the Faculty Members

| Sl. No. | Name | Title | Conference title / venue/ date |
|---------|------------------------|--|---|
| 1. | Punyu K (Chemistry) | Enhancement of heterogeneous photocatalytic degradation of Azure by using non metal doped SnO ₂ . | NSIRCS-2016, KSCJ, Kohima Sep 28 th -29 th , 2016 |
| 2. | Kuotsu N B (Chemistry) | Theoretical studies of some quaternary ammonium tribromides. | NSIRCS-2016 KSCJ, Kohima Sep 28 th -29 th , 2016. |
| 3. | Kuotsu N B (Chemistry) | An environmental benign strategy for solvent free Brominations through reactivity assessment of quaternary | National seminar on Globalization, Development and |

| | | | |
|----|---------------------------|---|--|
| | | Ammonium Tribromide reagents. | <i>Environment with Special Reference to North-East India; NU, Lumami March 19th -20th, 2015.</i> |
| 4. | Pillai R V (Chemistry) | Geochemical variation of rare earth elements and clay minerals in Disang shales of Kohima, Nagaland | <i>Development Goals at the grass roots: policy perspective and challenges, Gandhigram Rural Institute, Dindigul, June 22nd -23rd, 2015.</i> |

37. State whether the programme/ department is accredited/ graded by other agencies. Give details: No

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

| Strength | Weaknesses | Opportunities | Challenges |
|---|--|---|--|
| (i). Adequate no. of faculty | (i). Lack of adequate funding | (i). Biggest dept. of the college | (i). Upgradation to Postgraduate & research programme |
| (ii). Good no. of experience and well qualified faculty holding an academic terminal degree | (ii). Lack of research facility and laboratory | (ii). Ideally located college/department within the state capital | (ii). Skill based training |
| (iii). Diversity of faculty's | (iii). Lack of sponsorship from external agencies | (iii). Easy access to Govt & professional communities | (iii). To organise more workshop & seminar |
| (iv). Cordial atmosphere among the faculty's | (iv). Lack of exposure to national and international academic activities | (iv). Premier Institute | (iv). To attract placement agencies for the deserving students |
| (v). Good rapport between teachers and subordinate staff | (v). Lack of higher grade instrumentation | (v). Multidisciplinary department | (v). Visit to advance laboratory and to take up more research |

39. Future plans of the department

- To start the postgraduate programme
- Upgrade existing library

- Upgrade existing laboratory
- Academic exposure trips to various institutions
- Initiate student exchange programmes
- Initiate faculty exchange programmes
- Initiate more research activities

-o0o-

DEPARTMENTAL EVALUATIVE REPORT: COMPUTER SCIENCE

1. **Name of the Department & Year of establishment:** Computer Science 2003
2. **Names of programs offered (UG, PG, PharmD, Integrated Masters; M.Phil., Ph.D.,**

Integrated Ph.D etc.): UG

3. **Interdisciplinary programs and departments involved:** Computer Science Common Paper in 3rd Semester

4. **Annual/Semester/Trimester/Choice Based Credit System:** Semester

5. **Participation of the department in the courses offered by other departments:** Nil

6. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

| | Sanctioned | Filled |
|----------------------------|------------|--------|
| Professor | N/A* | N/A |
| Associate Professor/Reader | N/A* | N/A |
| Assistant Professor | 2 | 2 |

* *Placement to these posts are through the career advancement scheme*

7. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

| Name | Qualification | Designation | Specialization | No. of Years of Experience |
|---------|----------------|-------------------------------|-----------------------------|----------------------------|
| Sinha P | M.Sc, PGDCA | Assistant Professor. &Head | Natural Language Processing | 12 |
| Veyie N | B.E. M.Sc. | Assistant Professor | C++ | 10 |

8. **Percentage of classes taken by temporary faculty – program-wise information:** Nil

9. **Program-wise Student Teacher Ratio:** 30:1

10. **Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:** Nil

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

| Ongoing Minor Research Project (2012-2016) | | | | | |
|--|---------------------------|--|----------------|----------|---------------|
| Sl. No | PI/ Department | Title of research project | Funding agency | Duration | Budget (Lakh) |
| 1. | Sinha P (Computer Sci) | Part of speech tagging with computational approach | UGC | 2014-16 | Rs. 4.39 |

12. Departmental projects funded by ICMR; DST-FIST; UGC-SAP/CAS, DPE; DBT,

ICSSR, AICTE, etc.; total grants received. : Nil

13. Research facility / centre with: Nil

- State recognition
- National recognition
- International recognition

14. Publications:

- * Number of papers published in peer reviewed journals (national / international)

| List of papers published by faculty members | | | | |
|---|---|---|--|--------------------------------|
| Sl. No | Authors | Title | Journal | Impact Factor (Thomson Reuter) |
| 1. | Sarma B, Sinha P and Purkasyasths B S (Computer Science) | A combined approach to part-of speech tagging using features extraction and hidden Markov model | <i>International Journal of Advance Research in Computer Engineering and Technology</i> , vol 2 issue 2 pp: 327-330 (2013) | NA |

| | | | | |
|----|--|---|--|----|
| 2. | Sinha P , Sarma B and Purkasyasths B S (<i>Computer Science</i>) | Kinship terms in Nepali language and its morphology | <i>International Journal of Computer application</i> , vol. 58, No 9 pp 43-50 (2012) | NA |
| 3. | Sinha P , Veyie N M, Purkayastha B S. (<i>Computer Science</i>) | Enhancing the performance of part of speech tagging of Nepali language through hybrid approach. | <i>International Journal of Emerging Technology and Advanced Engineering</i> , vol.5 issue 5, pp 354- 359 (2015) | NA |

| List of Publication in the College Journal RÜSIE: A Journal of Contemporary Scientific, Academic and Social Issues, | | |
|--|----------------|---|
| Sl. No | Name | Title |
| Volume 2, 2015 | | |
| 1. | Sinha P | Part of speech tagging in Nepali language using a hybrid approach |

- * Monographs: Nil
- * Chapters in Books: Nil
- * Books edited: Nil
- * Books with ISBN with details of publishers: Nil
- * Number listed in the International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.): NA
- * Citation Index – range / average: NA
- * SNIP: NA
- * SJR: NA
- * Impact Factor – range / average: NA
- * h-index: NA

15. Details of patents and income generated: Nil

16. Areas of consultancy and income generated: Nil

17. Faculty recharging strategies: Faculties of the college participate in seminars and workshop organized by college.

18. Student projects

- percentage of students who have taken up in-house projects including inter-departmental projects: 10%
- percentage of students doing projects in collaboration with other universities / industry / institute: Nil

19. Awards / recognitions received at the national and international level by

- Faculty :Nil
- Doctoral / postdoctoral fellows : Nil
- Students : Nil

20. Seminars/Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

| Sl. No | Name of the resource person | Name of the workshop | Organizer | Venue/Date |
|--------|--|--------------------------------------|--|---|
| 1. | (i). Amer A M, Assistant Director, NIELIT, Kohima. | “One day workshop on Cyber Security” | IQAC KSCJ, Kohima And NIELIT Kohima | KSCJ, Kohima Aug 12 th , 2013 |

21. Student profile program-wise: Academic Year 2011-12

| Name of the Program (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| B.Sc General | 30 | 19 | 11 | 95 | 100 |
| Common paper (Comp. Sc) | 220 | 120 | 100 | 95 | 93 |

Student profile program-wise: Academic Year 2012-13

| Name of the Program (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| B.Sc General | 30 | 17 | 13 | 90 | 100 |
| Common paper (Comp. Sc) | 220 | 123 | 97 | 95 | 90 |

Student profile program-wise: Academic Year 2013-14

| Name of the Program (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| B.Sc General | 30 | 16 | 14 | 95 | 93 |

| Name of the Program (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|--------------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| Common paper (Comp. Sc) | 220 | 115 | 105 | 95 | 90 |

Student profile program-wise: Academic Year 2014-15

| Name of the Program (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|--------------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| B.Sc General | 30 | 18 | 12 | 90 | 100 |
| Common paper (Comp. Sc) | 220 | 111 | 109 | 95 | 90 |

22. Diversity of students

| Name of the Program (refer to question no. 2) | % of students from the same College | % of students from the State | % of students from other States | % of students from other countries |
|--|-------------------------------------|------------------------------|---------------------------------|------------------------------------|
| B.Sc General | 80% | 80% | 20% | Nil |

23. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE, USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS and other competitive examinations?. Nil

24. Student progression

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | N/A |
| PG to M.Phil, DM / M Ch / DNB | N/A |
| PG to Ph.D. | N/A |
| Ph.D. to Post-Doctoral | N/A |
| Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment | N/A |
| Entrepreneurs | N/A |

25. Diversity of staff

| Percentage of faculty who are graduates | |
|--|-------|
| Of the same university | Nil |
| From other universities within the State | Nil |
| From universities from other States | Three |
| From universities outside the country | Nil |

26. Number of faculty who were awarded M.Phil., DM, M Ch, Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

27. Present details of departmental infrastructural facilities with regard to

- a) **Library:** Department has about 500 books in a separate Section
- b) **Internet facilities for staff and students:** one connection for faculty and common facilities for students
- c) **Total number of class rooms:** Two
- d) **Class rooms with ICT facility and ‘smart’ class rooms:** All are enabled with ICT facilities.
- e) **Students’ laboratories:** 01
- f) **Research laboratories :** NA

28. Number of students getting financial assistance from the College: Nil

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, highlight the methodology. NA

30. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? NA
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? NA
- c. Alumni and employers on the programs offered and how does the department utilize the feedback? NA

31. List the distinguished alumni of the department (maximum 10): NA

32. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts.: NA

33. List the teaching methods adopted by the faculty for different programs including clinical teaching.

- Assignments
- Experimental Learning
- Inquiry-based Learning
- Problem-based Learning

34. How does the department ensure that program objectives are constantly met and learning outcomes are monitored?

- Feedback report
- Internal Assessment

35. Highlight the participation of students and faculty in extension activities.

- Departmental students are part of College NSS Activities.
- Awareness programs on advanced Technologies and Softwares

For detail, please refer section 3.6.3 in criterion III (Table 3.24 and Table 3.25 for students extension activities and Table 3.26 for faculty extension activities)

36. Give details of “beyond syllabus scholarly activities” of the department.

| Computer Science: Participation to seminar/conference/workshop/training programs (2012-2016) | | | | |
|---|---|---|-----------------------|--|
| Sl. No | Name | Course | University | Duration |
| 1. | Veyie N M (<i>Computer Sci</i>) | Refresher course in Geography (Interdisciplinary) | NEHU-ASC Shillong | Nov 28 th –Dec 18 th , 2016. |
| 2. | All the faculty members of the department | One day workshop on “Research Methodology”. | IQAC, KSCJ, Kohima | KSCJ, Kohima 14 th May, 2016. |
| 3. | All the faculty members of the department | Seminar on “An insight of the administrative and academic management of an Autonomous College: a case study of St. Xavier College, Kolkata” | IQAC, KSCJ, Kohima | KSCJ, Kohima Sep 2 nd , 2015. |
| 4. | All the faculty members of the department | Seminar on “CBCSs at Undergraduate level in the context of UGC National framework” | IQAC, KSCJ, Kohima | KSCJ, Kohima Sep 2 nd , 2015. |

| | | | | |
|-----|---|---|---|---|
| 5. | Sinha P (<i>Computer Science</i>) | NE Regional Workshop on Natural Language Processing | Dept. of Comp. Sc. & Eng., Sikkim Manipal Institute of Technology, Sikkim. Dept. Comp. Sc., Assam University, Silchar | Sikkim Manipal Institute of Technology, Sikkim Feb 21 st – 22 nd , 2014. |
| 6. | All the faculty members of the department | Workshop on Methodology of Teaching | IQAC, KSCJ, Kohima | KSCJ, Kohima Sep 14 th , 2013. |
| 7. | Sinha P (<i>Computer Science</i>) | “One day workshop on Cyber Security” | IQAC KSCJ, Kohima | KSCJ, Kohima Aug 12 th , 2013. |
| 8. | All the faculty members of the department | One day workshop on “Student Counselling for Faculty” | IQAC, KSCJ, Kohima | KSCJ, Kohima May 28 th , 2013. |
| 9. | Sinha P (<i>Computer Science</i>) | National Seminar on “Ethnic Integration in the NE India: Issues & Challenges” | UGC; Dept. of Political Sc., Netaji Subhash Mahavidyalaya, Udaipur, Tripura | Udaipur, Tripura Dec 21 st – 22 nd , 2012. |
| 10. | Sinha P (<i>Computer Science</i>) | Seminar on “Good Governance in Tripura: Issues & Prospects” | Dasaratha Deb Memorial College, Khowai, Tripura | Khowai, Tripura Dec 7 th – 8 th , 2012. |

List of Papers Presented in Conferences by the Faculty Members

| Sl. No. | Name | Title | Conference title / venue/ date |
|---------|--|--|--|
| 1. | Sinha P (<i>Computer Science</i>) | Towards an integrated language model: A North-East Indian perspective. | <i>Ethnic Integration in the NE India: Issue & Challenges</i> , NS Mahavidyalaya, Udaipur, Tripura Dec 21 st -22 nd , 2012. |

37. State whether the program/ department is accredited/ graded by other agencies?

If yes, give details. : No

38. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

| Strength | Weaknesses | Opportunities | Challenges |
|--|---|--|--|
| (i). Eco – friendly and amicable working atmosphere. (ii). Excellent Infrastructure and Lab facilities. (iii) Experienced, dedicated Teaching Staff. (iv). Friendly attitude of teachers towards students (iv). Organizing seminars and conferences. | (i). Shortage of teaching staff. (ii). Shortage of non-teaching staff. | (i). Encouraging students to participate in academic as well as a social enrichment program like students’ seminar, NSS activity, Blood donation, etc. | (i). Heavy syllabus leading to lack of time for giving personal attention to students. (ii). Strengthening Global Level Research. |

39. Future plans of the department.

- Introducing B.Sc Computer Sc Honours
- Introducing PG Program



DEPARTMENTAL EVALUATIVE REPORT: ENGLISH

1. **Name of the Department & its year of establishment** : Department of English 1961
2. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**
 - a. General English at the BSc level. b. English Honours introduced in 2016
3. **Interdisciplinary courses and departments involved**
 - a. Academic writing b. Media and Communication Skills c. Contemporary India: Women and Empowerment d. Language, Literature and Culture
Department of Anthropology and Department of Geography
4. **Annual/ semester/choice based credit system:** Semester system and CBCS
5. **Participation of the department in the courses offered by other departments:**
English Honours students opt for papers offered by the Department of Anthropology and Department of Geography
6. **Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)**

| | Sanctioned | Filled |
|----------------------|------------|--------|
| Professors | N/A* | N/A |
| Associate Professors | N/A* | N/A |
| Asst. Professors | 6 | 6 |

**Placement to these posts are through the career advancement scheme*

7. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D. Students guided for the Last 4 years |
|------|---------------|-------------|----------------|----------------------------|---|
| | | | | | |

| | | | | | |
|------------------|----------------|----------------------------|---------------------------------|----|------------|
| Longkumer M A | MA | Associate Professor & Head | English Literature | 25 | NIL |
| Kelhouletuonuo | MA, PhD | Associate Professor | Indians Writing in English | 23 | Registered |
| Mekro N | MA | Assistant Professor | British Literature and Language | 19 | NIL |
| Whiso S | MA, PhD, PGDTE | Assistant Professor | English Literature & ELT | 17 | NIL |
| Linyu Kevitsunuo | MA | Assistant Professor | English Literature | 13 | NIL |
| Dzuvichu R | MA | Assistant Professor | Folk Literature | 10 | NIL |

8. **Percentage of classes taken by temporary faculty – programme-wise information:** Nil
9. **Programme-wise Student Teacher Ratio:** 40:1
10. **Number of academic support staff (technical) and administrative staff: sanctioned and filled:** Nil
11. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. :** Nil
12. **Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received:** Nil
13. **Research facility / centre with**
 - State recognition: Nil
 - National recognition: Nil
 - International recognition: Nil
14. **Publications:**
 - * number of papers published in peer reviewed journals (National / International): 01

| List of papers published by faculty members | | | | |
|---|-----------------------|--|---|--------------------------------|
| Sl. No | Authors | Title | Journal | Impact Factor (Thomson Reuter) |
| 1. | Pienyu K (English) | Adolescent –parent relationship in Naga families a psychological perspective | <i>Journal of Advanced Research</i> vol 1 issue 1 pp 22-27 (2014) | NA |

- * Monographs: Nil
 - * Chapter(s) in Books: Nil
 - * Editing Books: Nil
 - * Books with ISBN numbers with details of publishers: Nil
 - * number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): NA
 - * Citation Index – range / average: NA
 - * SNIP: NA
 - * SJR: NA
 - * Impact factor – range / average: NA
 - * h-index: NA
15. **Details of patents and income generated:** Nil
16. **Areas of consultancy and income generated:** Nil
17. **Faculty recharging strategies**
- Refresher Course/Orientation Programme/STC/ Special Winter School and other FDP like seminars and conferences
18. **Student projects**
- Percentage of students who have done in-house projects including inter-departmental: Nil
 - Percentage of students doing projects in collaboration with industries / institutes: Nil
19. **Awards / recognitions received at the national and international level by**
- Faculty: Nil
 - Doctoral / postdoctoral fellows: Nil
 - Students: Nil

20. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any.

: Nil

21. Student profile course-wise:

| Name of the Course (refer question no. 2) | Applications Received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| BA (Honours) | 10 | | | N/A* | N/A* |

*First batch admitted in academic session 2016-17

22. Diversity of Students

| Name of the Program (refer to question no. 2) | % of students from the same College | % of students from the State | % of students from other States | % of students from other countries |
|--|-------------------------------------|------------------------------|---------------------------------|------------------------------------|
| B.Sc General | 80% | 80% | 20% | Nil |

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? NA

24. Student progression

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | NA |
| PG to M.Phil | NA |
| PG to Ph.D | NA |
| Ph.D. to Postdoctoral | NA |
| Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment | NA |
| Entrepreneurs | NA |

25. Diversity of staff

| Percentage of Faculty who are graduates | |
|--|-----|
| Of the same parent University | 10% |
| From other Universities within the State | Nil |

| | |
|---|-----|
| From other universities from other States | 90% |
|---|-----|

26. **Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.** : Nil (One is on study leave)
27. **Present details about infrastructural facilities**
- Library 300 nos
 - Internet facilities for staff and students Yes
 - Total number of class rooms: 6
 - Class rooms with ICT facility: Nil
 - Students' laboratories: Nil
 - Research laboratories: Nil
- Number of students of the department getting financial assistance from College. :** Nil
28. **Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.** No
29. **Does the department obtain feedback from**
- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it? No
 - Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same? No
 - Alumni and employers on the programmes and what is the response of the department to the same? No
30. **List the distinguished alumni of the department (maximum 10):** NA
31. **Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.** Nil
32. **List the teaching methods adopted by the faculty for different programmes.** : Lectures, Assignments, and Tests
34. **How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**
: Assignments, Classroom discussion and Tests
35. **Highlight the participation of students and faculty in extension activities.**
: State and regional Level literary competitions, State Level Spelling Bee.

For detail, please refer section 3.6.3 in criterion III (Table 3.24 and Table 3.25 for students extension activities and Table 3.26 for faculty extension activities)

36. Give details of “beyond syllabus scholarly activities” of the department.

- Organizes reading salon (Book Club) and invited talks, and evaluates PhD thesis.

| English: Participation to seminar/conference/workshop/training programs (2012-2016) | | | | |
|--|---|---|---|---|
| Sl. No | Name | Course | University | Duration |
| 1. | All the faculty members of the department | One day workshop on “Research Methodology”. | IQAC, KSCJ & Research Committee | KSCJ, Kohima 14 th May, 2016. |
| 2. | Longkumer M A, Whiso S, | 11 th symposium and Surin International Folklore Festival | Surindra Rajabhat University, Surin | Surindra Rajabhat University, Surin, Thailand Jan 15 th - 25 th , 2016. |
| 3. | Whiso S (English) | Special Winter School (Interdisciplinary) | UGC, HRD Centre NEHU, Shillong | Oct 26 th – Nov 15 th , 2015. |
| 4. | All the faculty members of the department | Seminar on “An insight of the administrative and academic management of an Autonomous College: a case study of St. Xavier College, Kolkata” | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |
| 5. | Whiso S, Longkumer A, Kelhouletuonuo, | National Seminar on “Cultural Heritage of Nagaland” | IGRMS, Bhopal; Dept. of Anthropology, KSCJ, Kohima | KSCJ, Kohima Sept 29 th – 30 th , 2015. |
| 6. | All the faculty members of the department | Seminar on “CBCSs at Undergraduate level in the context of UGC National framework” | IQAC | KSCJ, Kohima Sep 2 nd , 2015. |
| 7. | Whiso S (English) | Orientation Course of NSS | Ministry of Youth Affairs & Sports, GoI | Indian Institute of Entrepreneurship (IIE), Guwahati Feb 08 th – 14 th , 2015. |
| 8. | Whiso S (English) | Introductory Workshop on Astronomy and Astrophysics | UGC- NERO, Guwahati; Dept. of Physics, KSCJ, Kohima | KSCJ, Kohima July 15 th , 2015. |
| 9. | All the faculty members of the department | Workshop on Methodology of Teaching | IQAC, KSCJ, Kohima | KSCJ, Kohima Sep 14 th , 2013. |

| | | | | |
|-----|---|--|---|--|
| 10. | All the faculty members of the department | One day workshop on “Student Counselling for Faculty” | IQAC, KSCJ, Kohima | KSCJ, Kohima May 28 th , 2013. |
| 11. | Whiso S (English) | Orientation Programme | NEHU, ASC Shillong | NEHU, Shillong Feb 4 th – March 3 rd , 2013. |
| 12. | Doulo V | Workshop on Screen Printing | KSCJ Printing Press | KSCJ, Kohima Oct 27 th , 2012 |
| 13. | Linyü K, | Workshop on Mushroom Cultivation | Institutional Biotech Hub, DBT; Dept. of Botany, KSCJ | KSCJ, Kohima Sep 27 th , 2012. |
| 14. | Pienyü K (English) | Capacity Building of Women Managers in Higher Education: Sensitivity/Awareness/Motivation Workshop | UGC; NU | NU, Meriema campus July 16 th – 20 th , 2012. |
| 15. | Linyü K, Whiso S, Longkumer A, . Dzüvichü R, Pienyü K (English) | Professional Development Program on Activating the EFL Classroom | Embassy of the USA, New Delhi | St. Joseph’s College, Jakhama May 17 th – 18 th , 2012. |
| 16. | Dzüvichü R (English) | Orientation Programme | NEHU, ASC Shillong | Feb 13 th – March 11 th , 2012. |
| 17. | Whiso S (English) | Material Production of Clas-12 Textbook | NBSE, | ATI, Kohima Jan 17 th -24 th , 2012. |
| 18. | Dzüvichü R, Longkumer A, Pienyü K, Whiso S, . Linyü K, | Seminar on “Society, Culture and Development: Emerging Issues in Nagaland” | The Asiatic Society, Kolkata; | KSCJ, Kohima March 14 th – 15 th , 2012. |
| 19. | Whiso S (English) | National Level Seminar on “Writing and its Interdisciplinary Nature” | UGC; Nagaland College Principals’ Forum; | Tetso College, Dimapur Feb 03 rd – 04 th , 2012. |

List of Papers Presented in Conferences by the Faculty Members

| Sl. No. | Name | Title | Conference title / venue/ date |
|---------|----------------------|--|--|
| 1. | Whiso S (English) | Mehouviu and Morusa, a Naga folktale from Mima village | 3 rd Surin International Storytelling Festival, Surindra Rajabhat University, Surin, Thailand Jan 22 nd , 2016. |
| 2. | Whiso S | Bilingualism among Naga Students: | <i>Society, Culture and</i> |

| | | | |
|--|-----------|---|--|
| | (English) | Cultural constraints and opportunities. | <i>Development: Emerging issues, KSCJ, Kohima. March 14th -15th, 2012.</i> |
|--|-----------|---|--|

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.: No.

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

| Strengths | Weaknesses | Opportunities | Challenges |
|--|--|---|---|
| (i). Supervision of college publications (ii). Organising of literary programmes, book club, and invited talks. (iii).Event management | (i). Lack of ICT facilities and a Language Lab. (ii). Limited books (iii). Limited funding (iv). Lack of publications | (i).Stage performance and dramatics (ii).Starting Honours programme in English | (i). Certificate courses (ii). MA programme in English |

39. Future plans of the department.

- To start the MA programme in English
- Setting up a Language Laboratory
- Initiating short term language and remedial grammar courses.

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DEPARTMENTAL EVALUATIVE REPORT: GEOLOGY

1. **Name of the Department & its year of establishment:** Geology, 1976
2. **Names of the Programmes/ Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.):** UG and PG
3. **Interdisciplinary courses and departments involved:** Physics, Mathematics, Chemistry and Geography
4. **Annual/ semester/ choice based credit system:** Semester and Choice based Credit System from July 2016
5. **Participation of the department in the courses offered by other departments**
 - Physics, Mathematics, Chemistry and Geography
6. **Number of teaching posts sanctioned and filled (Professors/ Associate Professors/ Asst. Professors)**

| | Sanctioned 7 Sanctioned posts | Filled |
|-----------------------------|--|---------------|
| Professors | N/A* | N/A |
| Associate Professors | N/A* | N/A |
| Asst. Professors | 7 | 6 |

- ** Placement to these posts are through the career advancement scheme*

7. **Faculty profile with name, qualification, designation, specialization, (D.Sc./ D.Litt./ Ph.D./ M. Phill. etc.,)**

| Name | Qualification | Designation | Specialization | No. Of years of experience | No. Of Ph.D. students guided for the last 4 yrs |
|-------------|-----------------|----------------------------|-----------------------|----------------------------|---|
| Sema L | M.Sc., Ph.D. | Associate Professor & Head | Sedimentology | 28 years | Nil |
| Yanthan C T | M.Sc. | Associate Professor | Environmental Geology | 28 years | Nil |
| Mekro V | M.Sc., Ph.D. | Associate Professor | Sedimentology | 26 years | Nil |
| Ralimongla | M.Sc., | Associate | Sedimentology | 26 years | Nil |

| | | | | | |
|-----------|-------------------------|---------------------|--------------------|----------|-----|
| | Ph.D | Professor | | | |
| Kire A | M.Sc. | Assistant Professor | Stratigraphy. | 20 years | Nil |
| Odyuo A | M.Sc., NET – JRF (CSIR) | Assistant Professor | Palaeontology | 12 years | Nil |
| Nuh M K | M.Sc. | Assistant Professor | Geohazard | 5 years | Nil |
| Rokokhono | M.Sc., Ph.D | Assistant Professor | Structural Geology | 4 years | Nil |

8. Percentage of classes taken by temporary faculty- programme-wise information

- Undergraduate: 25%
- Postgraduate: Nil

9. Programme-wise Student Teacher ratio

- Undergraduate: 18:1
- Postgraduate: 2 : 1

10. Number of academic support staff (technical) and administrative staff

- **Sanctioned and filled:** 3 technical and 2 administrative

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) total grants received. Mention names of funding agencies and grants received project-wise

| List of the ongoing Collaborating Research Projects | | | | | |
|---|----------------|--|--|----------|--|
| Sl. No | PI/ Department | Title of research project | Funding Agency (<i>Approved Budget</i>) | Duration | Implementing Institute/agency |
| 1. | Mekro V (PI) | Status of Environment and related Issues, Nagaland | Ministry of Environment, Forest & Climate Change (MoEF& CC) (Rs. 13.00 lakhs) | 2015-16 | Nagaland Institute of Health, Environment & Social Welfare (NIHESW) Kohima |

12. Departmental projects funded by DST- FIST, DBT, ICSSR, etc.; total grants received

- Nil

13. Research facility/ centre with

- State recognition: Nil
- National recognition: Nil
- International recognition: Nil

14. Publications: to prepare individually

- Number of papers published in peer reviewed journals (National/ International)

| List of Publication in the College Journal RÜSIE: A Journal of Contemporary Scientific, Academic and Social Issues, | | |
|--|---------------------|---|
| Sl. No | Name | Title |
| Volume 2, 2015 | | |
| 1 | Whiso K, Odyuo A | Early Eocene (Ypresian) marine transgression in Mikir hills, Karbi Anglong, Assam |
| Volume 1, 2014 | | |
| 2. | Mekro V | Recreating dinosaur days. |

- Monographs : Nil
- Chapter(s) in Books

| List of the Book/s Published by the Faculty Members (Reference Books) | | | | |
|--|------------------------|---|--|--|
| Sl. . No. | Name of Authors | Title of the Book | Name of the Chapter in the Book | Name of Publishers |
| 1. | Mekro V | Recent Trends in Earth Sciences Research with Special Reference to N.E. India | Brine and other mineral Spring water from Kohima (Nagaland) and Senapati (Manipur) Districts. | Nagaland University (2016) |
| 2. | Sema L | Recent Trends in Earth Sciences Research with Special Reference to N.E. India | Modal Composition of the Palaeogene Disang-Barail transitional sandstones with in the Kohima Synclinorium, Nagaland. | Nagaland University (2016) |
| 3. | Mekro V | North East India Deforestation and its impact | The Cliffs of Chumukedima | Purbanchal Prakash Guwahati ISBN: 9788172311654 (2012) |

- Editing Books: Nil
- Books with ISBN numbers with details of publishers

| List of the Book/s Published by the Faculty Members (Reference Books) | | | | |
|--|------------------------|--------------------------|--|---------------------------|
| Sl. . No. | Name of Authors | Title of the Book | Name of the Chapter in the Book | Name of Publishers |

| | | | | |
|----|----------------|-----------------------------------|-----|---|
| 1. | Mekro V | The fragile Ecosystem of Nagaland | N/A | Barkweaver Publications Parkgata, Norway ISBN: 978829332402 (2014) |
| 2. | Mekro V | The Rocks of Nagaland | N/A | Mittal Publications, New Delhi ISBN: 8183244920 (2014) |

- Number listed in International Database (For eg. Web of Science, Scopus, Humanities International Complete, dare database- International Social Sciences Directory, EBSCO host, etc.): NA
- Citation Index- range/ average: NA
- SNIP: NA
- SJR: NA
- Impact factor- range/ average: NA
- H- index: NA

15. **Details of patents and income generated:** Nil

16. **Areas of consultancy and income generated:** Nil

17. **Faculty recharging strategies**

- Course work, refresher course, seminars, workshop, teaching methodology trainings, International exchange programs, attending national conferences etc.

18. **Student Projects:** 100%

- **Percentage of students who have done in-house projects, including inter-departmental**
- **Percentage of students doing projects in collaboration with industries/ institutes**

19. **Awards/ recognitions received at the national and international level by:** Nil

- **Faculty:** Nil
- **Doctoral/ postdoctoral fellows:** Nil
- **Students:** Nil

20. **Seminars/ Conferences/ Workshops organised and the source of funding (national/ international) with details of outstanding participants, if any:** Nil

21. **Student profile course- wise:**

| Name of the Course (refer question no. 2) | Applications Received | Selected | Pass percentage |
|--|--------------------------|----------|-----------------|
|--|--------------------------|----------|-----------------|

| | | Male | Female | Male | Female |
|-----------------|----------|------|--------|------|--------|
| UG 2012 - 13 | Over 200 | 46 | 43 | 80% | 100% |
| 2013 - 14 | Over 200 | 54 | 46 | 100% | 100% |
| 2014 -15 | Over 200 | 66 | 44 | 75% | 80% |
| 2015 -16 | Over 200 | 57 | 46 | 88% | 85% |

22. Diversity of the Students

| Name of the Course (refer question no. 2) | % of students from the college | % of students from the state | % of students from the States | % of students from the countries |
|--|--------------------------------------|---------------------------------|-------------------------------------|--|
| UG – 2012 | 45% | 40% | 5% | Nil |
| 2013 | 55% | 40% | 5% | Nil |
| 2014 | 50% | 45% | 5% | Nil |
| 2015 | 50% | 45% | 5% | Nil |

23. How many students have cleared Civil Services, defence Services, NET, SLET, GATE and any other competitive examinations?

- 14 NET
- GSI & ONGC- 8, NPSC – 3, NCS - 3

24. Student progression:

| Student progression | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG | 95% |
| PG to M. Phil. | Nil |
| PG to Ph.D. | 40% |
| Ph.D. to Post- Doctoral | Nil |
| Employed | |
| • Campus selection | |
| • Other than Campus recruitment | 75% |
| Entrepreneurs | 5% |

25. Diversity of staff

| Percentage of Faculty who are graduates | |
|---|-----|
| Of the same parent University | 3 |
| From other Universities within the State | 5 |
| From other universities from other States | Nil |

26. Number of faculty who were awarded Ph.D., D.Sc. and D. Lit. During the assessment period

- One (Ph.D)

27. Present details about infrastructural facilities

- Library:** 1 (text books- 134, Journals- 280, Nagaland gazetteer & daily newspaper)
- Internet facilities for staff and students:** available

- c) **Total number of classrooms:** 6 classes
- d) **Classrooms with ICT facilities:** 1
- e) **Students' laboratories:** 2
- f) **Research laboratories:** 1

28. **Number of students of the department getting financial assistance from the college:** Nil

29. **Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology:**

- Series of departmental brainstorming sessions to discuss on syllabus content, additional faculty requirement, additional infrastructure and laboratory equipments, books & journals etc.
- Board of Study (BOS) meetings.

30. **Does the department obtain feedback from**

a. **Faculty on curriculum as well as teaching- learning-evaluation? If yes, how does the department utilize it?**

- Discussions at the Departmental meeting and corrective measures taken.

b. **Students on staff, curriculum as well as teaching-learning evaluation and what is the response of the department to the same?**

- Detailed discussions and deliberations on the feedback and remedial measures are taken.

c. **Alumni and employers on the programmes and what is the response of the department to the same?**

- Satisfactory.

31. **List the distinguished alumni of the department (maximum 10)**

- Dr. Intiwapang, MLA, Nagaland (Parliamentary Secretary, Geology and Mining)
- S.K. Kenye, Director, Geology and Mining, Nagaland.
- Mansan Lyngdoh, Joint Director, Directorate of Mineral resources, Meghalaya.
- G.T. Thong, Dean of Research & Development, Nagaland University.

32. **Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts**

- Special lectures by Geologists from the Geological Survey of India and ONGC.

33. **List the teaching methods adopted by the faculty for different programmes**

- Lectures, demonstration, PPT/ICT, field trainings, project assignments etc.

34. **How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

- Through faculty- student interaction, internal assessment, monitoring of attendance etc.

35. Highlight the participation of students and faculty in extension activities.

- Students- NCC, NSS, Blood Donation, Charity work, cleanliness drives, Environment Awareness programmes.
- Faculty- Science popularization programs & Environment awareness under Ministry of Science & Technology, Ministry of Environment, Forest & Climate Change, Govt Of India, etc. Members of committees & organization in the college and outside the college.

For detail, please refer section 3.6.3 in criterion III (Table 3.24 and Table 3.25 for students extension activities and Table 3.26 for faculty extension activities)

36. Give details of “beyond syllabus scholarly activities” of the department.

- As resource persons to deliver talks at various programs, workshops etc.

| Geology: Participation to seminar/conference/workshop/training programs (2012-2016) | | | | |
|--|--|---|--|--|
| Sl. No | Name | Course | University | Duration |
| 1. | Odyuo A (<i>Geology</i>) Nuh M K (<i>Geology</i>) | Refresher course in Geography (Interdisciplinary) | NEHU-ASC Shillong | Nov 28 th –Dec 18 th , 2016. |
| 2. | Three faculty members from the department attended the training program. | A training program on ICT aided teaching | IQAC, KSCJ & IT and Technical Committee | KSCJ, Kohima Nov 15 th -18 th , 2016. |
| 3. | Sema L (<i>Geology</i>) | National Level Seminar on Interdisciplinary Research in Chemical Sciences (NSIRCS-2016) | UGC and Dept. of Higher Education, Nagaland | KSCJ, Kohima, Sep 28 th -29 th , 2016. |
| 4. | All the faculty members of the department. | One day workshop on “Research Methodology”. | IQAC, KSCJ & Research Committee | KSCJ, Kohima May 14 th , 2016. |
| 5. | Sema L (<i>Geology</i>) | 11 th symposium and Surin International Folklore Festival | Surindra Rajabhat University, Surin | Surindra Rajabhat University, Surin, Thailand Jan 15 th - 25 th , 2016. |
| 6. | Sema L (<i>Geology</i>) | Board meeting of the 11 th Surin International Folklore Festival and Symposium (SIFFS) | Surindra Rajabhat University (SRU) Surin, Thailand | Surindra Rajabhat University (SRU) Surin, Thailand Jan 18 th , 2016. |

| | | | | |
|-----|--|---|---|--|
| 7. | Sema L (<i>Geology</i>) | National Seminar on “Cultural Heritage of Nagaland” | IGRMS, Bhopal; Dept. of Anthropology, KSCJ, Kohima | KSCJ, Kohima Sept 29 th – 30 th , 2015 |
| 8. | Sema, L (<i>Geology</i>) | Consultative meet on “National Education Policy” | Directorate of Higher Education, Nagaland | Conference Hall of the Directorate, 2015. |
| 9. | All the faculty members of the department. | Seminar on “An insight of the administrative and academic management of an Autonomous College: a case study of St. Xavier College, Kolkata” | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |
| 10. | All the faculty members of the department. | Seminar on “CBCSs at Undergraduate level in the context of UGC National framework” | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |
| 11. | All the faculty members of the department. | Workshop on Methodology of Teaching | IQAC, KSCJ, | KSCJ, Kohima Sep 14 th , 2013. |
| 12. | All the faculty members of the department | One day workshop on “Student Counselling for Faculty” | IQAC, KSCJ, | KSCJ, Kohima May 28 th , 2013. |
| 13. | All the faculty members of the department | Workshop on “Student Counselling for Faculty” | IQAC & Student Counselling Cell, KSCJ | KSCJ, Kohima May 28 th , 2013. |
| 14. | Sema L (<i>Geology</i>) | Seminar on “Society, Culture and Development: Emerging Issues in Nagaland” | The Asiatic Society, Kolkata; | KSCJ, Kohima March 14 th – 15 th , 2012. |
| 15. | Sema L (<i>Geology</i>) | Seminar on “Life & Work of Rabindranath Tagore” | Indigenous Cultural Society, Nagaland; Ministry of Culture, GoI | Dimapur Jan 13 th – 14 th , 2012. |

List of Papers Presented in Conferences by the Faculty Members

| Sl. No. | Name | Title | Conference title / venue/ date |
|---------|-------------------------------|---|---|
| 1 | Mekro V (<i>Geology</i>) | A study on the mineral spring and mud used by humans and wildlife in Viswema, Kohima district, Nagaland | <i>Hutton Lectures</i> , Kohima, Dec 8 th -9 th , 2016. |

| | | | |
|----|----------------------|---|--|
| 2. | Mekro V (Geology) | Petrography of the Disang Siliciclastics from Kohima Synclinorium, Nagaland | <i>National Seminar on Geology, Geochemistry, Tectonics, Energy and Mineral Resources of North East India,</i> Dept. of Geology, NU, Kohima, Nov. 9 th -11 th , 2016. |
| 3. | Mekro V (Geology) | The sugar mill that destroyed the great forest at Seithekema | <i>Society, Culture and Development : Emerging issues</i> KSCJ, Kohima March 14 th -15 th , 2012. |

37. State whether the programme/department is accredited/graded by other agencies. Give details: No

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

| Strength | Weakness | Opportunities | Challenges |
|--|---|--|---|
| (i) Qualified faculty, (ii). Teamwork, (iii). Strong alumni support, (iv). Consistent good results of students, (v). Sincere and dedicated non-teaching staff. | (i). Lack of research facilities, (ii). Fund shortage, (iii). Shortage of library books & journals, (iv). Shortage of class rooms & practical equipments. | (i).Introduction of P.G. program, (ii). National & International exchange programs for faculty & students, (iii). Consultancy service, (iv). To carry out research projects under DST, UGC, etc. | (i). To establish a well equipped research laboratory, (ii). To upgrade the departmental library, (iii). Improvement of ICT facilities. |

39. Future plans of the department.

- Starting of M. Phil & Ph.D programs
- Starting of skill enhancement courses.

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DEPARTMENTAL EVALUATIVE REPORT: GEOGRAPHY

1. **Name of the Department, Year of Establishment:** Geography, 1979
2. **Name of Programme/Courses offered:** UG
3. **Interdisciplinary courses and departments involved:** Chemistry, Geology, Environmental Education, English.
4. **Annual/ semester/ choice based credit system:** Semester and Choice Based Credit System:
5. **Participation of the Department in the courses offered by other Departments -** Yes
6. **Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)**

| | Sanctioned | Filled |
|-----------------------------|------------|----------------------|
| Professors | N/A | N/A |
| Associate Professors | N/A | N/A |
| Asst. Professors | 5 | 4 (1 on study leave) |

- * Placement to these posts are through the career advancement scheme

7. Faculty profile

| Sl. No | Name | Qualification | Designation | Specialization | No. of years of Experience | No. of PhD students guided for the last 4 years |
|--------|-------------|---------------------|----------------------------|----------------------|----------------------------|---|
| 1 | Jamir I | M.A | Associate Professor & Head | Population Geography | 26 | Nil |
| 2 | Ringa T | M.A | Associate Professor | Regional Geography | 25 | Nil |
| 3 | Longkumer R | M.Sc. | Assistant Professor | Social Geography | 17 | Nil |
| 4 | Lohe S | M.Sc. | Assistant Professor | Geomorphology | 10 | Nil |
| 5 | Puro S | M.Sc. | Assistant Professor | Resource Geography | 12 | Nil |
| 6 | Medoweu T | M.Sc. NET, PRCN-NCC | Assistant Professor | Physical Geography | 7 | Nil |
| 7 | Ayemi Z | M.A | Assistant | Social and | 3 | Nil |

| | | | | | | |
|---|-----------|--|------------------------|------------------------|---|-----|
| | | NET, M.Phil | Professor | political Geography | | |
| 8 | Peseyie T | M.Sc. PGD Geoinfor matics, NET | Assistant Professor | Physical Geography) | 3 | Nil |

8. Percentages of classes taken by temporary faculty – Programme-wise information

| | |
|---|-----|
| U. G. Odd Semesters (1 st , 3 rd & 5 th) | 48% |
| U. G. Even Semesters (2 nd , 4 th & 6 th) | 50% |

9. Programme wise Student Teacher Ratio: 1: 27

10. Number of Academic support staff (technical) and administrative staff: sanctioned and filled

| | |
|------------------|---------------------|
| 1) Lab assistant | 01 (Non sanctioned) |
| 2) Bearer | 01 (Sanctioned) |

10. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. : Nil

11. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received: Nil

12. Research facility / centre with

- State recognition: Nil
- National recognition: Nil
- International recognition: Nil

14. Publications

| List of papers published by faculty members | | | | |
|---|---------|-------|---------|--------------------------------|
| Sl. No | Authors | Title | Journal | Impact Factor (Thomson Reuter) |
| | | | | |

| | | | | |
|----|---|---|--|----|
| 1 | Lohe S (<i>Geography</i>) | Pattern of agricultural food production in Phek district, Nagaland | <i>Hill Geographer</i> , the geographical society of north-eastern hill region (India) Shillong (2016) (Accepted for publication) | NA |
| 2. | Lohe S (<i>Geography</i>) | Cultural landscape of the tribal people of Phek district, Nagaland | <i>Journal of National Association of Geographers, India</i> vol-xxxv (No.1) pp 141-152 (2015) | NA |
| 3. | Lohe S, Rawat MS (<i>Geography</i>) | Land and water resources degradation in Phek district, Nagaland. | <i>Transactions</i> vol.37 No.2 pp 213-221. (2015) | NA |
| 4. | Lohe S (<i>Geography</i>) | Morphometric analysis of Sopu catchment in Phek district, Nagaland. | <i>Indian Journal of Geomorphology</i> vol. 19 (1) pp 67-80 (2014) | NA |

| List of Publication in the College Journal RÜSIE: A Journal of Contemporary Scientific, Academic and Social Issues, | | |
|--|---------------|---|
| Sl. No | Name | Title |
| Volume 2, 2015 | | |
| 9. | Lohe S | Human resource base -A case study of Phek district of Nagaland. |
| Volume 1, 2014 | | |
| 20. | Lohe S | Degraded watershed systems in Phek district of Nagaland. |

19. Student Projects

- **Percentage of students who have done in-house-projects including interdepartmental**
: 100%

- Percentage of students doing projects in collaboration with industries/institutes:
: Nil

22 (a) Student Profile Course wise

| Name of the course | Applications received | Selected | | Pass percentage | |
|---------------------|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| B.Sc (Honours) 2015 | NA | 11 | 6 | 79% | |
| 2016 | NA | 19 | 9 | 76% | |

22 (b) Diversity of the students

| Name of the course | % of the students from the college | % of students from the state | % of students from other states | % of students from other countries |
|--------------------|------------------------------------|------------------------------|---------------------------------|------------------------------------|
| U G | NA | NA | NA | Nil |

23. How many students have cleared Civil services, defense services, NET, SLET, GATE and any other competitive examinations?

| Civil services | Defense services | NET | Others |
|----------------|------------------|-----|--------|
| 7 | 2 | 20 | 30 |

24. Student progression

| Student progression | Percentage against enrolled |
|-------------------------------|-----------------------------|
| UG to PG | 85% |
| PG to M Phil | 60% |
| PG to Ph D | 45% |
| PhD to post-doctoral | |
| Employed | |
| Campus selection | |
| Other than campus recruitment | |
| Entrepreneurs | |

25. Diversity of staff

| |
|---|
| Percentage of faculty who are graduates |
|---|

| | |
|---|---|
| Of the same parent university | 5 |
| From other universities within the state | 0 |
| From other universities from other states | 3 |

26. Number of faculty who were awarded PhD, D.Sc., and D.Litt during the assessment period.

1 (awarded Ph.D degree)

27. Present details about infrastructural facilities

- a. Library – 1
- b. Internet facilities for staff and students – 1
- c. Total number of class rooms – 3
- d. Classrooms with ICT facility – 1
- e. Students' laboratories – 2
- f. Research laboratories -Nil

28. Number of students of the department getting financial assistance from college.

None

29. Was any need assessment exercise undertaken before the development of new program (s). If so, give the methodology.

Restructuring and reframing of syllabus

30. Does the department obtain feedback from?

- a. **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**
Yes, depending on the feedbacks and comments.
- b. **Students on staff, curriculum as well as teaching-learning – evaluation and what is the response of the department to the same?**
Yes, as per the feedbacks and comments.
- c. **Alumni and employers on the programmes and what is the response of the department to the same?**
Yes, feedbacks have been positive.

31. List the distinguished alumni of the department.

| | |
|----------------------|--|
| Mr. Ditho Katiri | Scientist C, Science and Technology |
| Mr. Kikato | EAC |
| Mr. Nungsang Sangtam | Additional Deputy Commissioner |
| Mr. Hotolu | Additional Deputy Commissioner |
| Ms. Leno Nagi | Program executive, AIR, Kohima |
| Ms. Visakhono Yokha | Class I forestor, Kohima |
| Dr. Wangshimenla | Associate professor, Nagaland Univeristy |
| Dr. Chubawati | Information tech/GIS analyst |
| Mr. Mhamo | EAC |
| Mr. Japhet Woch | SDO civil |
| Ms. Aboli | Deputy commandant, 4 th NAP |

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.

GIS workshop, Career counselling programmes

33. List the teaching methods adopted by the faculty for different programmes.

Demonstrations, practical, illustrations, audio-visual, lectures, presentations, group discussion, Exposure tour.

34. How does the department ensure that Programme objectives are constantly met and learning outcomes monitored?

Internal Assessment, presentations, Tests cum evaluation.

35. Highlight the participation of students and faculty in extension activities.

NSS, NCC, sports, students' union / social activities.

For detail, please refer section 3.6.3 in criterion III (Table 3.24 and Table 3.25 for students extension activities and Table 3.26 for faculty extension activities)

36. Give details of “beyond syllabus scholarly activities” of the department.

| Geography: Participation to seminar/conference/workshop/training programs (2012-2016) | | | | |
|--|-------------|----------------------|-------------------------------------|--------------------------|
| Sl No | Name | Name of event | Sponsoring Agency/ Organiser | Place & Dates |

| | | | | |
|-----|---|---|---|--|
| 1 | Three faculty members attended the training program | A training program on ICT aided teaching | IQAC, KSCJ & IT and Technical Committee | KSCJ, Kohima Nov 15 th -18 th , 2016. |
| 2. | Medowe T K (<i>Geography</i>) | NCC <i>Thal Sainik</i> Camp (North Eastern Region) | NCC, NE Region | Nagaon, Assam, Aug 9 th -19 th , 2016. |
| 3. | All the faculty members of the department | One day workshop on “Research Methodology”. | IQAC, KSCJ & Research Committee | KSCJ, Kohima May 14 th , 2016. |
| 4. | Medowe T K (<i>Geography</i>) | Capacity building program for research scholars | Omeo Kumar Das Institute of Social Change and Development, Guwahati | Kohima College Kohima Feb 22 nd -25 th , 2016. |
| 5. | Puro S, (<i>Geography</i>) | Workshop on “Official Statistics in North Eastern States” | ISI, Kolkota; KSCJ, Kohima | KSCJ, Kohima Nov 02 nd – 04 th , 2015 |
| 6. | Ayemi Z (<i>Geography</i>) | National Seminar on “Cultural Heritage of Nagaland” | IGRMS, Bhopal; Dept. of Anthropology, KSCJ, Kohima | KSCJ, Kohima Sep 29 th – 30 th , 2015. |
| 7. | All the faculty members of the department | Seminar on “An insight of the administrative and academic management of an Autonomous College: a case study of St. Xavier College, Kolkata” | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |
| 8. | All the faculty members of the department | Seminar on “CBCSs at Undergraduate level in the context of UGC National framework” | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |
| 9. | All the faculty members of the department | Workshop on Methodology of Teaching | IQAC, KSCJ, Kohima | KSCJ, Kohima Sept 14 th , 2013. |
| 10. | All the faculty members of the department | One day workshop on “Student Counselling for Faculty” | IQAC, KSCJ, Kohima | KSCJ, Kohima May 28 th , 2013. |
| 11. | Puro S, Longkumer R, Lohe S (<i>Geography</i>) | GIS Training Certificate | Jiya Infotech, Kolkata | KSCJ, Kohima June 18 th – 20 th , 2013. |
| 12. | All the faculty members of the department | Workshop on “Student Counselling for Faculty” | IQAC & Student Counselling Cell, KSCJ | KSCJ, Kohima May 28 th , 2013. |
| 13. | Ayemi Z (<i>Geography</i>) | International Seminar for Research Methodology | JNU, New Delhi | JNU, New Delhi, 2013 |

| | | | | |
|-----|--------------------------------|---|--------------------------------------|--|
| 14. | Puro S (<i>Geography</i>) | Refresher Course <i>Natural Resource Management & Earth Sciences</i> | Mizoram University, ASC Aizawl | March 15 th – April 4 th , 2012 |
|-----|--------------------------------|---|--------------------------------------|--|

37. State whether the Programme/department is accredited/graded by other agencies. Give details. No

38. Detail any five strengths, weakness, opportunities and challenges (SWOC) of the department.

| Strengths | Weakness | Opportunities | Challenges |
|--|--|---|---|
| (i). Discipline faculty and staff (ii). Team work (iii). Good prospects for jobs (iv). Balanced student teacher ratio | (i). Inadequate infrastructure. (ii). Inadequate library facilities. (iii). Lack of research facility. | (i). P.G course (ii). Workshops (iii). Seminars (iv). Projects | (i). Financial assistance. (ii). Project works. (ii) Exchange programme with other institutes National and International |

39. Future plans of the department.:

1. To introduce P.G course with new design and updated course
2. Recruit specialized faculties
3. Short term self-financed certificate course in GIS and Remote sensing
4. Qualified laboratory cum computer assistant with a minimum graduate degree having geography background will be recruited.
5. Organize seminar and workshops in relevant areas of study

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DEPARTMENTAL EVALUATIVE REPORT: MATHEMATICS

1. **Name of the Department & its year of establishment:** 1961.
2. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):** UG and PG
3. **Interdisciplinary courses and departments involved:** No.
4. **Annual/ semester/choice based credit system:** Semester and Choice based credit system.
5. **Participation of the department in the courses offered by other departments:** No.
6. **Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)**

| Designation | Sanctioned | Filled |
|----------------------|------------|--------|
| Professors | 09 | 09 |
| Associate Professors | | |
| Assistant Professors | | |

7. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)**

| Name | Qualification | Designation | Specialization | No. of Years of experience | No. of Ph.D students guided for the last 4 years |
|----------------|---------------|---------------------|-----------------|----------------------------|--|
| Murali M N | M.Sc, NET | Associate Professor | NA | 27 | Nil |
| Xavier R | M.Sc | Assistant Professor | NA | 24 | Nil |
| Pandey S N | M.A, Ph.D | Assistant Professor | Diff. Geom. | 23 | Nil |
| Doulo K | M.Sc, NET | Assistant Professor | NA | 21 | Nil |
| Konwar H | M.Sc | Assistant Professor | Fluid Dynam. | 19 | Nil |
| Yimchunger J R | M.Sc | Assistant | NA | 16 | Nil |

| | | | | | |
|-------------|-----------|---------------------|----|----|-----|
| | | Professor | | | |
| Lungalang V | M.Sc | Assistant Professor | NA | 12 | Nil |
| Meyase T G | M.Sc, NET | Assistant Professor | NA | 7 | Nil |
| Chase S | M.Sc, NET | Assistant Professor | NA | 6 | Nil |

8. **Percentage of classes taken by temporary faculty – programme-wise information:**
Nil.

9. **Programme-wise Student Teacher Ratio:** UG: - 38:1; PG: 4:1

10. **Number of academic support staff (technical) and administrative staff: sanctioned and filled:** Nil.

11. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise:** Nil.

12. **Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received:** Nil.

13. **Research facility / centre with:**

- o State recognition: Nil
- o National recognition: Nil
- o International recognition: Nil

14. **Publications:**

- * **Number of papers published in peer reviewed journals (National / International):** 08

| Table 3.20: List of papers published by faculty members | | | | |
|---|---|---|---|--------------------------------|
| Sl. No | Authors | Title | Journal | Impact Factor (Thomson Reuter) |
| 1. | Sharma B R, Konwar H (<i>Mathematics</i>) | MHD flow, heat and mass transfer about a permeable rotating vertical cone in presence of radiation, chemical reaction and heat generation or absorption effects | <i>Latin American Applied Research</i> (Accepted for publication) 2016 | NA |
| 2. | Sharma B R, Konwar H (<i>Mathematics</i>) | Flow, heat and mass transfer due to indirect natural convection | <i>International Journal of Mathematics and Computer</i> | NA |

| | | | | |
|----|---|---|--|----|
| | | | <i>Application Research</i> , vol 4 issue 4 pp111 -118 (2014) | |
| 3. | Sharma B R, Konwar H (<i>Mathematics</i>) | Effect of chemical reaction on mass distribution of a binary fluid mixture in unsteady MHD Couette flow | <i>International Journal of Innovative Research in Science, Engineering and Technology</i> vol 3 issue8 (2014) | NA |
| 4. | Sharma B R, Konwar H (<i>Mathematics</i>) | MHD Flow, heat and mass transfer about a Horizontal cylinder in porous medium | <i>International Journal of Innovative Research in Science, Engineering and Technology</i> vol 3 issue 10 (2014) | NA |
| 5. | Sharma B R, Konwar H (<i>Mathematics</i>) | Flow, heat and mass transfer about a permeable vertical rotating cone | <i>International Journal of Fluids Engg.</i> vol 7 no 1 pp 25-40 (2015) | NA |
| 6. | Sharma B R, Konwar H (<i>Mathematics</i>) | Effect of chemical reaction on mass transfer due to a permeable rotating heated disk. | <i>International Journal of Computer Application</i> vol 119 No. 21, pp 5-9 (2015) | NA |
| 7. | Sharma B R, Konwar H (<i>Mathematics</i>) | MHD Flow, heat and mass transfer due to axially moving cylinder in pressure of thermal diffusion, radiation and chemical reactions in a binary fluid mixture. | <i>International Journal of Computer Application</i> vol 110 No. 15 pp 52-59 (2015) | NA |

| | | | | |
|----|---|---|---|----|
| 8. | Sharma B R, Konwar H (<i>Mathematics</i>) | Influence of chemical reaction and heat generation on heat and mass transfer due to a rotating heated sphere. | <i>Journal of Applied Mathematics and Fluid Mechanics</i> , vol 7, no 1 pp 39-49 (2015) | NA |
|----|---|---|---|----|

- * **Monographs:** Nil.
- * **Chapter(s) in Books:** Nil.
- * **Editing Books:** Editor of Research Journal.(2011-15) (ISSN:0976-4933).
- * **Books with ISBN numbers with details of publishers:** Two

| Table 3.22 (C): List of the Book/s Published by the Faculty Members (Text Books) | | | | |
|---|---|--------------------------|--------------------------------------|--|
| Sl. No. | Name of Authors | Title of the Book | Name of the Chapter in a Book | Name of Publishers |
| 1. | Pandey S N, Doulo K, Yimchunger R J, Meyase T G | Mathematics for class 11 | N/A | Academic Publisher, Kohima, Nagaland ISBN:9788193143308 |
| 2. | Murali M N, Pandey S N, Doulo K, Yimchunger R J, Meyase T G | Mathematics for class 12 | N/A | Academic Publisher, Kohima, Nagaland ISBN: 9788193143346 |

- * **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.):** Nil.
- * **Citation Index – range / average:** NA.
- * **SNIP:** NA.
- * **SJR** NA
- * **Impact factor – range / average:** NA
- * **h-index:** NA.

15. **Details of patents and income generated:** Nil.

16. **Areas of consultancy and income generated:** Nil.

17. **Faculty recharging strategies:** Participation in OC/ RC/ ST.

18. **Student projects**

- o **Percentage of students who have done in-house projects including inter-departmental:** All Major students have a project.
- o **Percentage of students doing projects in collaboration with**

industries / institutes: Nil.

19. Awards / recognitions received at the national and international level by: Nil.

- Faculty
- Doctoral / postdoctoral fellows : 01 (Ph.D. Thesis submitted).
- Students

20. Seminars/ Conferences/Workshops organized and the source of funding (National/International) with details of outstanding participants, if any: Nil.

21. Student profile course-wise:

| Name of the Course (refer question no. 2) | Applications Received | Selected | | Pass percentage | |
|--|--------------------------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| B.Sc | 400 (2015 Batch 1 st Sem) | 53 | 33 | 51 | 45 |
| | (2014 Batch 3 rd Sem) | 47 | 23 | 62 | 61 |
| | (2013 Batch 5 th Sem) | 18 | 27 | 83 | 74 |

22. Diversity of Students

| Name of the Course (refer question no. 2) | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|--|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| B.Sc. | NA | NA | NA | NA |

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? Nil.

24. Student progression

| Student Progression | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG | 80% |
| PG to M.Phil | NA |
| PG to Ph.D | NA |
| Ph.D to Post Doctoral | NA |
| Employed | NA |
| ❖ Campus Selection | |
| ❖ Other than campus recruitment | |
| Entrepreneurs | NA |

25. Diversity of staff

| | |
|--|--|
| Percentage of faculty who are graduates | |
| Of the same parent university Nil | |
| From other universities within the state Nil | |
| From other universities from other states 09 | |

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period: One Ph.D result is awaited.

27. Present details about infrastructural facilities

- a. Library : 180 books
- b. Internet facilities for staff and students: Yes.
- c. Total number of class rooms: 07.
- d. Class rooms with ICT facility: 01.
- e. Students' laboratories: 01.
- f. Research laboratories: Nil.

28. Number of students of the department getting financial assistance from the college. : 01.

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. Yes.

30. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it? : Yes.
- b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same? : Yes.
- c. Alumni and employers on the programmes and what is the response of the department to the same? : Nil.

31. List the distinguished alumni of the department (maximum 10)

| Sl. No | Name | Designation |
|--------|----------------|------------------------------------|
| 1. | Niyalo Apon | Statistical Assistant, NU |
| 2. | Vikeseno Visa | Asst. Prof., DIET, Chiechama |
| 3. | Dr. Aotemsü | Asst. Prof., Fazl Ali College, MKG |
| 4. | Watitoshi | Asst. Prof., Fazl Ali College, MKG |
| 5. | Imtimenba | Account Officer, AG, Nagaland |
| 6. | Limakala Jamir | TRA, SCERT, Kohima |
| 7. | Rüchünino Rino | Asst. Academic Officer, NBSE |

| | | |
|-----|-----------------|---------------------------------|
| 8. | Neetu Mishra | P.O, Allahabad Bank, GHY |
| 9. | Bendangwapang | Asst. Prof., Chao Chang College |
| 10. | Along Longchari | Asst. Prof., Chao Chang College |

- 32 Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.** Nil.
- 33. List the teaching methods adopted by the faculty for different programmes. :**
Exams, Take Home Test, Assignment.
- 34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?:** Continuous Assessment Test.
- 35. Highlight the participation of students and faculty in extension activities. :** As BUGS Member, Paper Setter, Member of NBSE, Subject Expert for recruitment of various jobs, Ph.D. Evaluator.
- For detail, please refer section 3.6.3 in criterion III (Table 3.24 and Table 3.25 for students extension activities and Table 3.26 for faculty extension activities)
- 36. Give details of “beyond syllabus scholarly activities” of the department.**
: Writing and Editing Books/ Journals.

| Mathematics: Participation to seminar/conference/workshop/training programs (2012-2016) | | | | |
|--|---|---|--|---|
| Sl. No | Name | Course | University | Duration |
| 1 | Three faculty members attended the training program | A training program on ICT aided teaching | IQAC, KSCJ and IT & technical committee | KSCJ, Kohima Nov 15 th -18 th , 2016. |
| 2. | All the faculty members of the department | One day workshop on “Research Methodology”. | IQAC, KSCJ And Research Committee | KSCJ, Kohima May 14 th , 2016. |
| 3. | Konwar H (<i>Mathematics</i>) | Short-term course on Disaster Management (<i>Interdisciplinary</i>) | UGC, HRD Centre University of North Bengal, Darjeeling | Nov 13 th – 19 th , 2015. |
| 4. | All the faculty members of the department | Seminar on “An insight of the administrative and academic management of an Autonomous College: a case study | IQAC, KSCJ, Kohima | KSCJ, Kohima Sep 2 nd , 2015. |

| | | | | |
|----|---|--|---|---|
| | | of St. Xavier College, Kolkata” | | |
| 5. | All the faculty members of the department | Seminar on “CBCSS at Undergraduate level in the context of UGC National framework” | IQAC, KSCJ, Kohima | KSCJ, Kohima Sep 2 nd , 2015. |
| 6. | All the faculty members of the department | Workshop on Methodology of Teaching | IQAC, KSCJ, Kohima | KSCJ, Kohima Sep 14 th , 2013. |
| 7 | Chase S | “One day workshop on Cyber Security” | IQAC KSCJ, Kohima | KSCJ, Kohima Aug 12 th , 2013. |
| 8. | All the faculty members of the department | Workshop on “Student Counselling for Faculty” | IQAC, KSCJ & Student Counselling Cell, KSCJ | KSCJ, Kohima May 28 th , 2013. |
| 9. | Konwar H (Mathematics) | Refresher Course in Mathematics | NEHU-ASC Shillong | March 18 th – April 07 th , 2013. |
| 10 | Meyase T G (Mathematics) | Seminar on “Mathematics in India: Past, Present & Future” | DEO, School Education, Govt of Nagaland | Baptist High, Kohima August 3 rd , 2012. |
| 11 | Meyase T G (Mathematics) | Refresher Course Mathematics | NEHU -ASC, Shillong | March 22 nd – April 11 th , 2012. |

List of Papers Presented in Conferences by the Faculty Members

| Sl. No. | Name | Title | Conference title / venue/ date |
|---------|------------------------|---|---|
| 1. | Konwar H (Mathematics) | Chemical reaction, solet and dufour effects on flow, heat and mass transfer over a streatching surface in presence of uniform magnetic field. | NSIRCS-2016) KSCJ, Kohima Sep 28 th -29 th , 2016. |
| 2. | Konwar H (Mathematics) | MHD flow, Heat and mass transfer about a vertical flat plate in the presence of radiation and chemical reaction with temperature viscosity | National Seminar on Mathematical Modelling with Fluid and Plasma, DU, Dibrugarh, March 19 th -20 th , 2015. |

37. State whether the programme/ department is accredited/ graded by other agencies. Give details. : No

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

| Strengths | Weaknesses | Opportunities | Challenges |
|--|--|---|---|
| (i). Adequate no. of faculty (ii). Qualified faculty. (iii). Strong team work. (iv). Diversity of faculty's | (i)The departmental library needs improvement (ii). No. research project. | (i). Available PG program (i). Good computing laboratory | (i). To strengthen the research infrastructure. (ii). To enhance research collaboration. |

39. Future plans of the department. :

- To start Ph.D program.

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DEPARTMENTAL EVALUATIVE REPORT: PHYSICS

1. **Name of Department, Year of Establishment:** Physics. 1963
2. **Name of the program/course offered:** UG and PG
3. **Interdisciplinary courses:** Electronic Circuit Designing
4. **System:** Semester and Choice Based Credit System
5. **Participation of the Department in courses offered by other Department**
B. Sc. (Chemistry, Mathematics, Statistics)
6. **Number of Teaching Posts:**

| Posts | Sanctioned | Filled | Vacant (Study Leave or Retirement) |
|-----------------------|------------|--------|---------------------------------------|
| Professors | N/A | N/A | Nil |
| Associated Professors | N/A | N/A | |
| Assistant Professors | 11 | 10 | 02 (01 retired and 01 on study leave) |

7. **Faculty Profile:**

| Name | Designation | Specialization | Experience | No. of Ph. D students guided for the last 4 years |
|---------------|-----------------------------|-------------------------------------|------------|---|
| Purkayastha P | Associate Professor & Head. | Particle Physics | 35 Years | Nil |
| Devrani M | Associate Professor | Solid State Physics | 33 years | Nil |
| Jha R K | Assistant Professor | Electronics | 24 years | Nil |
| Sharma S | Assistant Professor | Electronics and Atmospheric Physics | 24 years | 1 (one) |
| Kachara C | Assistant Professor | Astrophysics | 22 years | Nil |
| Neinu V | Assistant Professor | Particle Physics | 19 years | Nil |
| Talinungsang | Assistant | Solid State | 13 years | Nil |

| | | | | |
|--------------------|---------------------|------------------|----------|-----|
| | Professor | Physics | | |
| Ezung M | Assistant Professor | Particle Physics | 13 years | Nil |
| Imlisunup | Assistant Professor | Particle Physics | 14 years | Nil |
| Longkumer S | Assistant Professor | Nuclear Physics | 18 years | Nil |
| One post is vacant | | | | |

8. **Percentage of Classes taken by Temporary faculty: NIL**

9. **Student Teacher Ratio: Students to Teacher ratio in Physics dept. is 289:10**

(a)

| U.G. Program | Semester 1 | Semester 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 |
|--------------|------------|------------|------------|------------|------------|------------|
| General | 135:10 | 82:10 | 72:10 | 82:10 | 57:10 | 42:10 |
| Honours | 40:10 | 26:10 | 20:10 | 24:10 | 11:10 | 6:10 |

(b)

| P.G. Program | Semester 1 | Semester 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 |
|--|------------|------------|------------|------------|------------|------------|
| The First Batch will get admitted from July, 2016. | | | | | | |

10. **Number of Academic Support Staff:**

(a) **Technical Staff:**

| Name | Designation | Experience |
|-----------------------|----------------------|------------|
| Mr. Keniekekho Nakhro | Laboratory Assistant | 2 years |

(b) **Support Staff:**

| Name | Designation | Experience |
|-----------------------|-------------------|------------|
| Mr. Thepfusalhou Rino | Laboratory Bearer | 21 years |
| Mr. Pelhuzoto Sano | Laboratory Bearer | 18 years |
| Mr. Zhalekho Nagi | Laboratory Bearer | 18 years. |
| Mr. Kedoseto Sano | Laboratory Bearer | 3 years |

11. **Faculty with ongoing projects:**

Ongoing Minor Research Project (2012-2016)

| Sl. No | PI/ Department | Title of research project | Funding agency | Duration | Budget (Lakh) |
|--------|-------------------------|---|----------------|----------|---------------|
| 1. | Kachhara C (Physics) | Timing and spectral analysis of accretion powered pulsars | UGC | 2015-17 | Rs. 2.30 |

Ongoing Major Research Project (2012-2016)

| Sl. No | PI/ Department | Title of research project | Funding agency | Duration | Budget (Lakh) |
|--------|-----------------------|---|----------------|----------|---------------|
| 1 | Sharma S (Physics) | An investigation of high resolution spatio-temporal variation of morphological, microphysical and rainfall properties of precipitating systems and its social impact: An integrated multi sensor and multi institutional approach | MHRD | 2016-19 | Rs. 227.34 |

Completed Major Research Project (2012-2016)

| Sl. No | PI/ Department | Title of research project | Funding agency | Duration | Budget (Lakh) |
|--------|-----------------------|---|---|----------|---------------|
| 1 | Sharma S (Physics) | Study of clouds and rain characteristics with SARAL/ALTIKA sensors. | Indian Space Research Organization (ISRO) | 2011-15 | 12.17 |
| 2. | Sharma S (Physics) | Study of microphysics of rain and quantitative perception estimation. | ISRO | 2011-14 | 9.00 |
| 3. | Sharma S (Physics) | Study of mesoscale convective system by passive microwave sensors | ISRO | 2007-12 | 23.80 |

12. **Departmental Projects funded by DST – FIST, DBT, ICSSR, etc:** By MHRD under RUSA (Research, Innovation and Quality Improvement)

13. **Research Facility / Centre with:**

State Recognition: 01

National Recognition: Nil

International Recognition: Nil14. **Publications:** 09(national/international) ; 04 (inhouse journal)

| List of papers published by faculty members | | | | |
|--|--|---|---|---------------------------------------|
| Sl. No | Authors | Title | Journal | Impact Factor (Thomson Reuter) |
| 1. | Choudhury H , Roy P , Kalita S, Sharma S (Physics) | Spatio-temporal variability of the properties of mesoscale convective systems over a complex terrain as observed by TRMM sensors. | <i>International Journal of Climatology</i> , DOI10.1002/joc.4516 (2015) | 3.61 |
| 2. | Dutta D,SharmaS Kannan BAM, Venketswarulu S, Rao TN Gairola RM Viswanathan G (Physics) | Sensitivity of Z-R relations and spatial variability of error a Doppler weather radar measured rain intensity | <i>Indian Journal of Radio and Space Physics</i> , pp 448-460 (2012) | NA |
| 3. | Dutta D,Sharma S , Das J, Gairola RM (Physics) | Development of a regional rain retrieval algorithm for exclusive mesoscale convective systems over peninsular India | <i>Advance in Space Research</i> , pp 1750-1762 (2012) | 1.41 |
| 4. | Dutta D, Sarma D K Sharma S (Physics) | A multi sensor analysis of the life cycle of bow echoes over Indian region. | <i>International Journal of Atmospheric Sciences</i> , DOI.10.1155/2014/207064 (2014) | NA |
| 5. | Kachhara C, Jha R K (Physics) | Timing and spectral analysis of Centaurus X-3 as seen by Suzaku | <i>Journal of Progressive Sciences</i> , vol . 5 No. 1 pp34-41 (2014) | NA |
| 6. | Kalita BR, Hazarika R, Kakoti G, Bhuyan PK, Chakrabarty D, Seemala GK, wang K, Sharma S , Yokoyama T, Supnithi P, Komolmis T, Yatini CY, Huy ML, Roy P (Physics) | Conjugate hemispheric ionospheric response to the St. Patrick's Day storms of 2013 and 2015 in the 100 ⁰ E longitude sector. | <i>Journal of Geophysical Research. (Space Physics)</i> , 121 doi 10.1002/2016/6JA023119 (2016) | 3.43 |

| | | | | |
|----|---|--|--|------|
| 7. | Roy P, Sharma S, Gairola RM (Physics) | Detection of rain/cloud pixels by Ka-band Altika Altimeter over the tropical region: development of a rain /cloud flag algorithm and its validation. | <i>Marine Geodesy</i> DOI10.1080/01490419.2015.10008158 (2015) | 0.98 |
| 8. | Roy P, Biswasharma R, Deshamukhya A, Sharma S Gairola R M, | A study of the spatio-temporal variability of the properties of intense precipitation features over the South Asian region: An integrated multi sensor approach. | <i>International Journal of Climatology,</i> (Conditionally Accepted) (2016) | 3.61 |
| 9. | Sarma AC, Deshmukhya A, Rao T N, Sharma S (Physics) | A study of raindrop size distribution during stratiform rain and development of its parameterization scheme in the frame work of multiparameter observations | <i>Meteorological Application</i> DOI.10.1002/me.1551 (2016) | 1.27 |

| List of Publication in the College Journal RÜSIE: A Journal of Contemporary Scientific, Academic and Social Issues, | | |
|---|---|--|
| Sl. No | Name | Title |
| Volume 2, 2015 | | |
| 1. | Ezung M, Roy P, Sharma S | Rain drop size distribution and its applications in rain retrieval from radar reflectivity measurements: A short note. |
| Volume 1, 2014 | | |
| 2. | Doulo V, Kachhara C | Study of rainfall and temperature variation of Kohima, Nagaland. |
| 3. | Kachhara C | X-ray astronomy: An insight into x-ray universe. |
| 4. | Sharma S | Microwave remote sensing of rain and clouds: fundamentals and applications. |

| List of the Book/s Published by the Faculty Members (Text Books) | | | | |
|---|---|--|--------------------------------------|--|
| Sl. No. | Name of Authors | Title of the Book | Name of the Chapter in a Book | Name of Publishers |
| 1. | Imlisunep and Veta N | Physics laboratory Manual for class 12 | N/A | Academic Publisher, Kohima, Nagaland ISBN:9788193143315 |
| 2. | Imlisunep Talinungsang Ezung M and Veta N | Physics laboratory Manual for class 11 | N/A | Academic Publisher, Kohima, Nagaland ISBN:9788193143353 |

Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database– International Social Sciences Directory, EBSCO host, etc.) : NA

w) **Citation Index – range / average: NA**

x) **SNIP: NA**

y) **SJR: NA**

z) **Impact factor – range / average: 0.98- 3.61/1.59**

aa) **h-index: NA**

15. **Details of Patents and Incomes Generated: Nil**

16. **Areas of Consultancy and Income Generated: Nil**

17. **Faculty Recharging Strategies:** Participate in seminar, workshops, conferences etc.

18. **Student Projects:**

Percentage of Students doing in – house projects including inter departmental: All the students of 6th semester (Honours)

Percentage of students doing projects in collaboration with industry / Institutes: Nil

19. **Awards / recognitions received at the National and International level by:**

Faculty: Dr. Sanjay Sharma: Heino Tooming Award, Weiner Naustadt, Austria

Doctoral / postdoctoral fellows: Nil

Students: Nil

20. **Seminar/conference/ workshop organized and source of funding (National/International) with details of outstanding participants.**

| Sl. No | Name of the resource person | Name of the workshop |
|--------|--|---|
| 1. | (i). Dr. Himadri Sekhar Das, Asso. Prof. Department of Physics, AU, Silchar Assam ii) Dr. Aravind Ranade Scientist E <i>Vigyan Prasar</i> , DST Noida | Introductory Workshop on Astronomy and Astrophysics” ,organized by the Department of Physics, Kohima Science College, Jotsoma, and sponsored by the U.G.C. , NERO, Guwahati on 15 th July, 2015. |
| 2 | Prof. Gazi A. Ahmed, Department of Physics, TU, Tezpur (ii). Dr. Samir Dhurde IUCAA, Pune | Workshop on Astronomy for School students (regional level) on September 26 th – 27 th , 2014 sponsored by IUCAA, Pune |

21. Student Profile (Course Wise):

| Name of the Course | Applications Received | Selected | | Pass Percentage | |
|-----------------------|---|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| Under Graduate Course | | 116 | 39 | 45* % | 77% |
| Post Graduate Course | NA (Started from academic session 2016 -17) | | | | |
| | | | | | |

- The high drop out rate is due to a larger proportional of boys opting for engineering/medical courses etc.

22. Diversity of Students:

| Name of the Course | % of Students from the college | % of students from the state | % of Students from other states. | % of students from other countries |
|-----------------------|--------------------------------|------------------------------|----------------------------------|------------------------------------|
| Under Graduate Course | NA | NA | NA | 0 % |
| Post Graduate Course | NA: Started from July, 2016 | | | |

23. **How many students have cleared Civil Services, Defense services, NET, SLET, GATE and any other competitive examinations.:** NA

24. Student Progression:

| Student Progression | Percentage against enrolled |
|---|------------------------------------|
| UG to PG | 100% in 2015. |
| PG to M. Phil | NA |
| PG to Ph. D. | NA |
| Employed *Campus Selection *Other than campus recruitment | N/A |
| Entrepreneurs | NA |

25. Diversity of Staff:

| Percentage of faculty who are graduates: | |
|--|-------------------------------------|
| Of the same parent university | 2/11(Nagaland University)= 18.1% |
| From other universities within the state | 6/11 (NEHU) = 54.5% |
| From other universities from other states | 3/11= 27.2% |

26. **Number of Faculty who were awarded Ph. D. , D.Sc., and D. Litt. during the Assessment period:** 01; Ph.D; (Dr. Kachara C)

27. Present details about infrastructural facilities:

(a) **Library:** A library is presently operated at the departmental level in the conference/meeting room: with 100 books

(b) **Internet facilities for staff and students:**

(i) 3 computers connected directly via LAN

(ii) WiFi connection is also available.

(c) **Total number of class rooms:** (i) 2 class rooms for conduct of honours classes

(ii) General classes are conducted in the class rooms at the non – departmental level.

(d) **Class rooms with ICT facility:** 1 (one) Computer lab cumclassroom.

(e) **Students' laboratories:** 7 (seven)

(f) **Research laboratories:** 1 (One in Atmospheric Physics)

28. Number of students of the department getting financial assistance from the college: Nil

29. Was any need assessment exercise undertaken before the development of new program(s) ? if so, give methodology:

Twice: (i) when the college was being assessed for NAAC

(ii).When the college was being assessed for getting autonomous status.

30. Does the department obtain any feedback from

(a) Faculty on curriculum as well as teaching – learning – evaluation? If yes, how does the department utilize it?

- (i) The Board of Studies evaluates the syllabus twice every year on an average.
- (ii) The board of Studies also makes a critical evaluation of the teaching – learning – evaluation process, every time it meets
- (iii) The consideration board sits immediately after an examination to analyze and critically examine the performance of every department, relative to the other departments, and adopts corrective methods, to prevent any shortcoming of any department.
- (iv) Intra – departmental meetings are held periodically, on Saturdays occasionally to discuss syllabus and teaching – learning – evaluation processes and adopts appropriate methods, to improve results.

(b) Students on staff, curriculum, as well as teaching – learning – evaluation and what is the response of the department for the same?

- (i) Annually, students assess the performance of every faculty, which are then evaluated by the IQAC
The recommendations, observations are then discussed at the departmental meetings, and appropriate methods to improve or consolidate positive observations are taken.

(c) Alumni and employers on the programs and what is the response of the department to the same?

- (i) The alumni and parents' associations give valuable feedback about the performance of the department and their observations are assessed at the IQAC, which are then again discussed at the intra – departmental level in departmental meetings.

31. List of distinguished alumni of the department:

| Name | Designation |
|--------------------------------|---|
| Dr. Sentitemsu Imsong . (Late) | M.Sc. Ph.D from the Indian Institute of Sciences Bangalore. |
| Dr. Chetan Kachhara | Faculty member in the department, KSCJ |
| Mr. Veta Nyieniu | Faculty member in the department, KSCJ |
| Mr. Imlisunup Ao | Faculty member in the department, KSCJ |
| Mrs. Meripeni Ezung | Faculty member in the department, KSCJ |
| Mr. Talinungsang | Faculty member in the department, KSCJ |
| Mr. Samuel Ao | Faculty member in the department, KSCJ |
| Mr. Moatemsu Ao | Faculty member, Fazl Ali College, Mokokchung |
| Mr. Asalie Peseyie | Faculty member, College of Teacher Education, Mokokchung |

32. Give details of student enrichment programs (special lectures,/ workshops/ seminar) with external experts:

- (i) Workshop on Astronomy for School students(regional level) on September 26th – 27th , 2014 sponsored by IUCAA, Pune.
- (ii) “Introductory Workshop on Astronomy and Astrophysics”,organized by the Department of Physics, Kohima Science College, Jotsoma, and sponsored by the U.G.C. , NERO, Guwahati on 15th July, 2015.

33. List of teaching methods adopted by the faculty for different programs:

- (i) Conventional blackboard – chalk – duster method accompanied by lecture.
- (ii) Use of smart board with LCD projector.
- (iii) Power point presentations.
- (iv) One to one contact teaching methods between teachers and students in the laboratory.
- (v) Discussions between student and teacher on a one – to – one level while guiding students for their project work.

34. How does the department ensure that program objectives are constantly met and learning outcomes monitored:

The methods adopted in section 29 (a), (b), (c), mentioned above, makes critical analysis of achievement of the objectives of the programs that are implemented.

35. Highlight the participation of the students and faculty in extension activities.

For detail, please refer section 3.6.3 in criterion III (Table 3.24 and Table 3.25 for students extension activities and Table 3.26 for faculty extension activities)

36. Give details of “beyond syllabus scholarly activities” of the department:

- (i) Organizing Workshops/ Seminars
- (ii) Mentoring Students on all matters the students need.

| Physics: Participation to seminar/conference/workshop/training programs (2012-2016) | | | | |
|--|---|--|---|---|
| Sl. No | Name | Course | University | Duration |
| 1 | Three faculty members from the department attended the training program. (Physics) | A training program on ICT aided teaching | IQAC, KSCJ And IT & Technical Committe | KSCJ, Kohima Nov 15 th - 18 th , 2016. |
| 2. | Nyienu V, Imlisunep (Physics) | Refresher Course in Physics | JNU- ASC New Delhi | Aug 29 th – Sep 23 rd , 2016. |
| 3. | Sharma S (Physics) | One day workshop on “National Academic Depository” | MHRD, Govt of India | Vigyan Bhawan, New Delhi, Sep 9 th , 2016. |
| 4. | Sharma S (Physics) | Forecasting Severe Convection I | European Severe Storm Laboratory (ESSL) | Wiener Neustadt, Austria June 20 th - 24 th , 2016. |
| 5. | All the faculty members of the department. (Physics) | One day workshop on “Research Methodology”. | IQAC, KSCJ And Research Committee | KSCJ, Kohima May 14 th , 2016. |
| 6. | Sharma S (Physics) | Workshop on “ Effective use of space technology based tools” | Nagaland GIS & Remote Sensing Center, (Govt of Nagaland) and NESAC, Shillong, Dept. of Space Govt | Capital Convention Centre, Kohima, 6 th April, 2016. |

| | | | | |
|-----|---|---|--|--|
| | | | of India. | |
| 7. | Sharma S (Physics) | 11 th symposium and Surin International Folklore Festival | Surindra Rajabhat University, Surin | Surindra Rajabhat University, Surin, Thailand Jan 15 th - 25 th , 2016. |
| 8. | Sharma S (Physics) | One day workshop on “Quality Enhancement Initiatives” | Directorate of Higher Education, Nagaland | Capital Convention Centre, Kohima Sep 29 th , 2015. |
| 9. | Ezung M (Physics) | National Seminar on “Cultural Heritage of Nagaland” | IGRMS, Bhopal; Dept. of Anthropology, KSCJ, Kohima | KSCJ, Kohima Sept 29 th – 30 th , 2015 |
| 10. | All the faculty members of the department. (Physics) | Seminar on “An insight of the administrative and academic management of an Autonomous College: a case study of St. Xavier College, Kolkata” | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |
| 11. | All the faculty members of the department (Physics) | Seminar on “CBCSs at Undergraduate level in the context of UGC National framework” | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |
| 12. | Sharma S (Physics) | Consultative meet on “National Education Policy” | Directorate of Higher Education, Nagaland | Conference Hall of the Directorate, 2015. |
| 13. | Ao S, Meripeni Ezung M, Imlisunep, (Physics) | Introductory Workshop on Astronomy and Astrophysics | UGC- NERO, Guwahati; Dept. of Physics, KSCJ, Kohima | KSCJ, Kohima July 15 th , 2015. |
| 14. | All the faculty members of the department | A regional workshop on “ Basic Astronomy and telescope making for school children” | Inter University Consortium for Astronomy and Astrophysics (IUCAA), Pune | KSCJ, Kohima Sep 26 th - 27 th , 2014. |
| 15. | Kachhara C (Physics) | Refresher Course <i>Information & Communication Technology (ID)</i> | MU-ASC University of Mumbai | 27 Jan – 15 Feb, 2014. |
| 16. | Sharma S (Physics) | Special Training course on Geoinformatics for Meteorology and Climatology | IMS-DC; IIRS, ISRO | IIRS, Dehradun Nov 18 th – 29 th , 2013. |

| | | Applications | | |
|-----|---|---|---|--|
| 17. | All the faculty members of the department. (Physics) | Workshop on Methodology of Teaching | IQAC, KSCJ, Kohima | KSCJ, Kohima Sep 14 th , 2013 |
| 18. | All the faculty members of the department. (Physics) | One day workshop on “Student Counselling for Faculty” | IQAC, KSCJ, Kohima | KSCJ, Kohima May 28 th , 2013. |
| 19. | Sharma S (Physics) | Workshop on “Development of Micro-hydel Capability” | DST, GoI; Nagaland Science & Technology Council | Kohima Nov 21 st , 2012. |
| 20. | Sharma S (Physics) | Short Course on Millimeter Wavelength Radars | McGill University | Toulouse, France June 24 th , 2012. |

List of Papers Presented in Conferences by the Faculty Members

| Sl. No. | Name | Title | Conference title / venue/ date |
|---------|-----------------------|---|--|
| 1. | Roy P | A study of the spatio-temporal variability of the properties of intense precipitation features over the South Asian region: An integrated multi sensor approach | NESAC-Academia and Students Interaction meet, at Shillong June 24 th , 2016 |
| 2. | Biswasharma R | A study of convective systems over North-Eastern India using INSAT-3D Imager | NESAC-Academia and Students Interaction meet, at Shillong June 24 th , 2016 |
| 3. | Sharma S (Physics) | Role of weather satellites in the study of spatio-temporal variability of rainfall: fundamental, science and applications | <i>1st Surin International Science Symposium</i> , Surindra Rajabhat University, Surin, Thailand Jan 20 th , 2016. |
| 4. | Sharma S (Physics) | Preliminary results of SARAL onboard Ka- band Altika radar and 24/37 GHz radiometer observations over Indian ocean. [Lead Talk] | <i>18th National Space Science Symposium</i> , DU, Dibrugarh, Jan 29 th - Feb 1 st , 2014. |
| 5. | Sharma S (Physics) | The effect of rain on SARAL/ALTIKA derived sea wave height | <i>2nd ISRO-CNES International Meet on SARAL: Science and Applications</i> Space Application Centre (SAC), Ahmedabad |

| | | | |
|----|-----------------------|--|--|
| | | | April 22 nd -24 th , 2014. |
| 6. | Sharma S (Physics) | Study of Hail Storm features in Mesoscale Convective Systems by TRMM –Precipitation Radar and Microwave Imager over South East Asia. | 7 th European conference on Radar in Meteorology and Hydrology, Toulouse, France. June 24 th -29 th , 2012. |

37. State whether the program / department is accredited / graded by other agencies.

Give details: No

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

| Strengths | Weakness | Opportunities | Challenges |
|---|--|--|---|
| (i) Faculty contribution to research (ii) Faculty sincerity in departmental activities | (i) Difficulty in repairing laboratory instruments (ii) Difficulty in procuring good instruments with serviceability. | (i) Prospects following the introduction of the PG program in Physics from 2016 (ii) Research opportunities, as a consequence of the introduction of the PG course. (iii) Prospect of guiding students for Research. | (i) Remoteness of the state and communication bottlenecks (ii) Promotion of Mathematical Science in the state. |

39. Future plans of the department:

- To start Ph.D program.
- To further strengthen national and international research collaboration.



DEPARTMENTAL EVALUATIVE REPORT: STATISTICS

1. **Name of the Department & its year of establishment:** Dept. of Statistics, 1982
2. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG
3. **Interdisciplinary courses and departments involved:** Nil
4. **Annual/ semester/choice based credit system:** CBCS
5. **Participation of the department in the courses offered by other departments:** Nil
6. **Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)**

| | Sanctioned | Filled |
|----------------------|------------|--------|
| Professors | 4 | 4 |
| Associate Professors | | |
| Assistant Professors | | |

7. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D. Students guided |
|--------------------------------|---------------|----------------------------|--------------------|----------------------------|------------------------------|
| Ali M J | M.Sc. | Assistant Professor & Head | Demography | 24 | Nil |
| Ahmed S F | M.Sc., Ph.D. | Assistant Professor | Operation Research | 19 | Nil |
| Barman P | M.Sc., Ph.D. | Assistant Professor | Demography | 12 | Nil |
| Changkakoti P (On Study Leave) | M.Sc. | Assistant Professor | Operation Research | 12 | Nil |
| Longchar I | M.Sc. | Assistant Professor. | Operation Research | 4 | Nil |
| Kapfo R | M.Sc. | Assistant Professor | Demography | 06 months | Nil |

8. **Percentage of classes taken by temporary faculty – programme-wise information:** 20%

9. **Programme-wise Student Teacher Ratio:** 17:1

10. **Number of academic support staff (technical) and administrative staff: sanctioned and filled:** Nil

11. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. :** 03

| Completed Minor Research Project (2012-2016) | | | | | |
|--|-------------------------------|---|----------------|----------|---------------|
| Sl. No | PI/ Department | Title of research project | Funding agency | Duration | Budget (Lakh) |
| 1 | Ahmed, S F (Statistics) | A statistical analysis of some aspects of health scenario in Nagaland with special reference to its rural set up. | UGC | 2013-15 | 1.10 |
| 2 | Ali M J (Statistics) | A study of economic and demographic pattern of the Rengma tribe of Nagaland: A statistical analysis. | -Do- | 2011-13 | 0.50 |
| 3 | Changkakoti P (Statistics) | Statistical.... Assam | -Do- | 2011-13 | 0.85 |

12. **Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received:** Nil

13. **Research facility / centre with :**

- State recognition: Nil
- National recognition: Nil
- International recognition: Nil

14. **Publications:**

* **Number of papers published in peer reviewed journals (National/ International):** 08 (National/International) ; 04 (in house journal)

| List of papers published by faculty members | | | | |
|---|---------|-------|---------|---------------|
| Sl. No | Authors | Title | Journal | Impact Factor |

| | | | | (Thomson Reuter) |
|----|---|--|--|------------------|
| 1. | Ahmed SF , Choudhary L (Statistics) | Factors associated with morbidity in the rural areas of Nagaland : A cross sectional study. | <i>Assam Statistical Review</i> , Vol 28 No 1, pp 41-61 2014 | NA |
| 2. | Ahmed SF , Choudhary L (Statistics) | Factors influencing the Non- communicable diseases in rural Nagaland: A cross sectional study, | <i>Global Research Analysis</i> , vol 3 issue 4 pp221-225 (2014) | NA |
| 3. | Barman P (Statistics) | Prevalence of Chronic Non - Communicable Diseases in Urban Population of Nagaland | <i>Middle East Journal of Age and Ageing</i> , vol 13, Issue 1, pp: 22-28. (2016) | NA |
| 4. | Barman P , Choudhury L. (Statistics) | Health Expectancy Related to Chronic Non-Communicable Diseases in Nagaland, India. | <i>Middle East Journal of Age and Ageing</i> , vol 11 (1), pp: 23-31, (2014). | NA |
| 5. | Choudhury L, Barman P (Statistics) | Construction of life tables for the smaller North eastern states of India (2001-2005) | <i>Assam Statistical Review</i> , Volume 27, No. 1, pp: 34-54. (2013) | NA |
| 6. | Choudhary L, Sarma R , Biswas S and Barman P (Statistics) | Indirect estimation of district level health life expectancy of India,2001. | <i>Middle east Journal of Age and Aging</i> vol 10 issue 1 pp 4-11 (2013) | NA |
| 7. | Choudhury L, Ahmed SF and Mannam A (Statistics) | Occupational differential risks of mortality among pensioners in Nagaland, India. | <i>Middle east Journal of Age and Aging</i> vol 9 issue 6 pp 36-43 (2012) | NA |
| 8. | Choudhary L, Barman P and Sarma R (Statistics) | Estimation of life expectancy at birth for the smaller North eastern states of India (2001-2005) | <i>International Journal of Public Health Research and Development</i> , vol. 4 (1), pp: 143-146. (2012) | NA |

| List of Publication in the College Journal RÜSIE: A Journal of Contemporary Scientific, Academic and Social Issues, | | |
|--|------------------|--|
| Sl. No | Name | Title |
| Volume 2, 2015 | | |
| 1. | Ali M J | Estimation of wastage of pages in Nagaland University examinations. |
| 2. | Ahmed S F | Morbidity prevalence among the government employees in rural areas of Nagaland in 2011: A cross sectional study. |
| 3. | Barman P | Longer life but poor health? Measurement and dynamics. |
| Volume 1, 2014 | | |
| 4. | Barman P | Prevalence of chronic non-communicable diseases in Kohima and Dimapur town. |

- g. Monographs: Nil
- h. Chapter(s) in Books: Nil
- i. Editing Books: Nil
- j. Books with ISBN numbers with details of publishers: Nil
- k. Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): NA
- l. Citation Index – range / average: NA
- m. SNIP: NA
- n. SJR: NA
- o. Impact factor – range / average: NA
- p. h-index: NA
15. **Details of patents and income generated:** Nil
16. **Areas of consultancy and income generated:** Nil
17. **Faculty recharging strategies:** Participation to OC/RC/STC.
18. **Student projects:** Nil
- percentage of students who have done in-house projects including inter-departmental
 - percentage of students doing projects in collaboration with industries / institutes
19. **Awards / recognitions received at the national and international level by**
- Faculty: Nil

- Doctoral / postdoctoral fellows: Nil
- Students: Nil

20. Seminars/ Conferences/Workshops organized and the source of funding

(National/ International) with details of outstanding participants, if any: 01

| Sl. No | Name of the resource person | Name of the workshop |
|--------|---|---|
| 1. | (i). Prof. Satya R. Chakaravarty (ii). Prof. Prasanta Pathak Sampling & Official Statistics Unit ISI, Kolkata-700108 | Workshop on “Official Statistics in North Eastern States” |

21. Student profile course-wise:

| Name of the Course (refer question no. 2) | Applications Received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| Under Graduate | 50 (in 2012-13) | 22 | 18 | 85 | 90 |
| | 60 (in 2013-14) | 24 | 16 | 90 | 95 |
| | 55 (in 2014-15) | 28 | 17 | 85 | 90 |
| | 56 (in 2015-16) | 35 | 20 | 85 | 90 |

22. Diversity of Students

| Name of the Course (refer question no. 2) | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|--|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| B.Sc.(Pass & Hons) | 65% | 25% | 10% | 0 |

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?: 5

24. Student progression

| Student progression | Percentage against enrolled |
|--|------------------------------------|
| UG to PG | 80 % |
| PG to M.Phil. | NA |
| PG to Ph.D. | NA |
| Ph.D. to Postdoctoral | NA |
| Employed | |
| • Campus selection | |
| • Other than campus recruitment | 70% |
| Entrepreneurs | 5% |

25. Diversity of staff

| Percentage of faculty who are graduates of the | |
|---|-----|
| Same parent university | 33% |
| From other universities within the State for | Nil |
| Other universities from other States | 67% |

26. **Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. 02 (Ph D)**

27. Present details about infrastructural facilities

- g. Library:** 35 books, 1 Journal, 4 Volumes of Doctoral Theses
- h. Internet facilities for staff and students:** Yes
- i. Total number of class rooms:** 03
- j. Class rooms with ICT facility:** 01
- k. Students' laboratories:** 01
- l. Research laboratories:** Nil

28. **Number of students of the department getting financial assistance from the college. : Nil**

29. **Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology:** No

30. **Does the department obtain feedback from**

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes, by incorporating through discussion at departmental level.

- b. **Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?** By taking corrective steps
- c. **Alumni and employers on the programmes and what is the response of the department to the same? :** By incorporating their suggestions.

31. List the distinguished alumni of the department (maximum 10):

| Sl. No. | Name | Designation/Recruitment Agency |
|---------|--------------------------|--------------------------------|
| 1 | Mr. Renbi Jami | ISS (UPSC) |
| 2 | Mr. Tsidie Hairang | NCS (NPSC) |
| 3 | Miss. Lietholeno | DIET, Kohima |
| 4 | Miss. Hamtsoe | DIET, Wokha |
| 5 | Miss. Imlirenla Longchar | Asstt. Professor, KSCJ |
| 6 | Miss. Ruchie-Ü Kapfo | Asstt. Professor, KSCJ |
| 7 | Mr. Kethovilie Sachü | SCERT, Nagaland |

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts. : Nil

33. List the teaching methods adopted by the faculty for different programmes:
Through explanation and providing notes (if necessary).

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored? : Through constant counselling

35. Highlight the participation of students and faculty in extension activities.
Students join the NCC, NSS, Blood Donation programmes and Faculty members join are engaged in National Children Science Congress, Nagaland Chapter and ENVIS, Nagaland and also takes part as experts in interview held by NSSO, Kohima.

For detail, please refer section 3.6.3 in criterion III (Table 3.24 and Table 3.25 for students extension activities and Table 3.26 for faculty extension activities)

36. Give details of “beyond syllabus scholarly activities” of the department. Faculty members are engaged in research activities.

| Statistics: Participation to seminar/conference/workshop/training programs (2012-2016) | | | | |
|---|---|--|---|---|
| Sl. No | Name | Course | University | Duration |
| 1 | Three faculty members from the department attended the training | A training program on ICT aided teaching | IQAC, KSCJ and IT and Technical committee | KSCJ, Kohima Nov 15 th -18 th , 2016. |

| | | | | |
|-----|--|---|--|--|
| | program | | | |
| 2. | All the faculty members of the department | One day workshop on “Research Methodology”. | IQAC, KSCJ And Research committee | KSCJ, Kohima May 14 th , 2016. |
| 3. | All the faculty members of the department | Workshop on “Official Statistics in North Eastern States” | ISI, Kolkota; KSCJ, Kohima | KSCJ, Kohima Nov 02 nd – 04 th , 2015. |
| 4. | All the faculty members of the department | Seminar on “An insight of the administrative and academic management of an Autonomous College: a case study of St. Xavier College, Kolkata” | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |
| 5. | All the faculty members of the department | Seminar on “CBCSs at Undergraduate level in the context of UGC National framework” | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |
| 6. | Ahmed S F (<i>Statistics</i>) | Workshop on “Statistical Meta Analysis and Assessment of Agreements” | Dept. of Statistics, DU, Dibrugarh | DU, Dibrugarh Jan 5 th , 2015. |
| 7. | Barman P (<i>Statistics</i>) | Refresher Course <i>Disaster Management (ID)</i> | GU-ASC- Guwahati | March 10 th – March 30 th , 2014. |
| 8. | Ali M J, Ahmed S F (<i>Statistics</i>) | Refresher Course <i>Mathematics & Statistics</i> | Guru Jambheshwar University of Science & Technology, ASC, Hisar | Dec 11 th – 31 st , 2013. |
| 9. | All the faculty members of the department | Workshop on Methodology of Teaching | IQAC, KSCJ, Kohima | KSCJ, Kohima Sep 14 th , 2013. |
| 10. | All the faculty members of the department | Workshop on “Student Counselling for Faculty” | Student Counselling Cell, KSCJ | KSCJ, Kohima May 28 th , 2013. |
| 11. | Ali M J, (<i>Statistics</i>) | NE Graduate Congress | University of Science & Technology, Meghalaya; CSIR-NEIST, Jorhat | Regional Institute of Science & Technology, Baridua May 29 th – 30 th , |

| | | | | |
|-----|----------------------------|--|---|---|
| | | | | 2012. |
| 12. | Ahmed S F, (Statistics) | Seminar on “Society, Culture and Development: Emerging Issues in Nagaland” | The Asiatic Society, Kolkata; | KSCJ, Kohima March 14 th – 15 th , 2012. |
| 13. | Ali M J (Statistics) | Refresher Course <i>Environmental Science (ID)</i> | University of Kerala, ASC Trivendrum | Feb 1 st – 22 nd , 2012. |

List of Papers Presented in Conferences by the Faculty Members

| Sl. No. | Name | Title | Conference title / venue/ date |
|---------|---------------------------|--|---|
| 1. | Ali M J (Statistics) | Scenario of higher education in Nagaland after 50 years of statehood | <i>Transforming higher education in North East India</i> , Thoubal college, Thoubal Manipur. May 8 th -9 th , 2015. |
| 2. | Barman P (Statistics) | Estimation of life expectancy for Kohima and Dimapur (combined) district of Nagaland using the Methodology for small populations. | <i>International Conference on Recent Advances in Mathematical, Statistical and its Application in Applied Sciences.</i> GU, Guwahati Dec 31 st , 2012 to Jan 2 nd , 2013. |
| 3. | Barman P (Statistics) | Sub-state Life Expectancy Estimation Using the Methodology for Small Population | <i>3rd Asian Population Association Conference</i> , University of Malaya, Kuala Lumpur, Malaysia July 27 th -30 th , 2015. |
| 4. | Ahmed S F (Statistics) | Demographic socio-economic and behavioral differential risks on the prevalence of any disease in rural Nagaland. | <i>International conference on recent advances in mathematical statistical and its application in applied sciences.</i> GU, Guwahati, Assam Dec 31 st , 2012 to Jan 2 nd , 2013. |
| 5. | Ahmed S F (Statistics) | A study of adult morality by age and sex and cause in the same rural areas of Nagaland during 2000-11 based on a non - conventional data source. | <i>International Conference on “Mortality and cause of death study in India: Requirement, availability and analysis during past four decades”</i> School of Social Sciences, JNU New Delhi. March 26 th -27 th , 2015. |

| | | | |
|----|---------------------------|---|--|
| 6. | Ahmed S F (Statistics) | Factors influencing the Non-communicable diseases in rural Nagaland: A cross sectional study. | XXXV annual conference of Indian association for the study of population, Rohtak, Haryana. Dec 15 th -17 th ,2013. |
|----|---------------------------|---|--|

37. State whether the programme/ department is accredited/ graded by other agencies. Give details: No

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

| Strengths | Weakness | Opportunities | Challenges |
|--|---|---|---|
| (i) Unity & Teamwork, (ii) Fine Work culture, (iii) Cordial rapport : student–Teacher, (iv) Good Academic results, (v) No gender and racial discrimination | (i) Infrastructure (Library, hostels, labs. recreation, sports), (ii) Limited Govt financial support, (iii) Limited subject at degree level, (iv) No linkage with the corporate world. (v) No visiting faculty/academic Exchange. | (i) Meritorious students, (ii) Academic autonomy, (iii) Personality development through NSS, NCC, JRC, RRC etc., (iv) Deemed University, (v) Mentoring students for job and research. | (i) Land encroachment, (ii) NAAC assessment, (iii) Career Advancement, (iv) Library improvement, (v) Updating students' requirement and broadening their horizon. |

39. Future plans of the department. :

Introducing M.Sc. and Diploma in Basic Statistics

DEPARTMENTAL EVALUATIVE REPORT: ZOOLOGY

- 1 **Name of the Department & its year of establishment:** Zoology, 1961
- 2 **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** **UG and PG**
3. **Interdisciplinary courses and departments involved:** Botany, Chemistry, Anthropology, Environmental Science and English.
4. **Annual/ semester/choice based credit system:** Choice Based Credit System and Semester
5. **Participation of the department in the courses offered by other departments:** Nil
6. **Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)**

| Designation | Sanctioned | Filled |
|----------------------|------------|--------|
| Professors | N/A* | N/A |
| Associate Professors | N/A* | N/A |
| Asst. Professors | 12 | 12 |

**Placement to these posts are by the career advancement scheme*

7. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

| Name | Qualification | Designation | Specialization | No. Of years of experience | No. Of Ph.D. students guided for the last 4 yrs |
|-------------|---------------|--------------------------------------|---------------------|----------------------------|---|
| Longkumer Y | M.Sc. | Associate Professor & Vice Principal | Limnology | 34 | Nil |
| Zao V | M.Sc. | Associate Professor & Head | Fresh Water Biology | 29 | Nil |
| Longkumer I | M.Sc. | Associate Professor | Fresh Water Biology | 30 | Nil |
| Pongen A | M.Sc. | Associate Professor | Marine Biology. | 22 | Nil |
| Angami D | M.Sc. | Assistant | Limnology | 25 | Nil |

| | | | | | |
|------------|-------------------|------------------------|---------------|----|-----|
| | | Professor | | | |
| Limatemjen | M. Sc., Ph D. | Assistant Professor | Fish Biology | 21 | Nil |
| Remmei K | M.Sc. | Assistant Professor | Endocrinology | 21 | Nil |
| Venolu | M.Sc. | Assistant Professor | Entomology | 13 | Nil |
| Doulo V | M. Sc. , Ph D. | Assistant Professor | Entomology | 12 | Nil |
| Yhome R | M. Sc. | Assistant Professor | Entomology | 13 | Nil |
| Dominic R | M. Sc. | Assistant Professor | Fish Biology | 01 | Nil |
| Jing K V | M. Sc. | Assistant Professor | Biochemistry | 01 | Nil |

8. **Percentage of classes taken by temporary faculty – programme-wise information:** Nil

9. **Programme-wise Student Teacher Ratio:** 38:1

10. **Number of academic support staff (technical) and administrative staff: sanctioned and filled:** 01

11. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. :** 02

Table 3.8: Ongoing Minor Research Project (2012-2016)

| Sl. No | PI/ Department | Title of research project | Funding agency | Duration | Budget (Lakh) |
|--------|-------------------------|---|----------------|----------|---------------|
| 1. | Limatemjen (Zoology) | Study of Physico chemical and fauna Chate river | UGC | 2015-17 | Rs. 3.00 |
| 2. | Doulo V (Zoology) | Butterflies of Kohima District, Nagaland | -Do- | 2014-16 | Rs. 4.00 |

12. **Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received:** Nil

13. **Research facility / centre with**

- **State recognition:** Nil
- **National recognition:** Nil
- **International recognition:** Nil

14. Publications:

* Number of papers published in peer reviewed journals (national / International): 03

| List of papers published by faculty members | | | | |
|---|---|--|---|--------------------------------|
| Sl. No | Authors | Title | Journal | Impact Factor (Thomson Reuter) |
| 1. | Andreas SR , Limatemjen Yadav AK (Zoology) | Chordodes combiaerolatus, a new species of horsehair worms from Nagaland, India, with further comments on Chordodes mouton. | <i>Zootaxa</i> 3925 (2): 202 – 210 (2015) | 0.994 |
| 2. | Dominic R, Ramanunjam S N (Zoology) | Traditional knowledge and ethnobotanical uses of piscicidal plants of Nagaland, Northeast India | <i>Indian Journal of Natural Products and Resources</i> , 3, pp 582-588 (2012) | NA |
| 3 | Kazuhiril E, Adani L, Doulo V (Zoology) | Morpho-Taxonomic studies on genus <i>Radula dumort</i> (Radulaceae: Hepaticae) from Nagaland, North East India. | <i>Indian Journal of Plant Sciences</i> , vol 2 (3), pp 66-72, (2013) | |
| 4. | Limatemjen, Paul S and Dey SC (Zoology) | Length-weight relationship condition factor of <i>Schizothorax richardsonii</i> (Gray, 1832) from some water bodies of Nagaland. | <i>Environment & Ecology</i> , 30 (4A) pp: 1506-1508 (2012) | NA |
| 5. | Limatemjen (Zoology) | Distribution trend of <i>Schizothorax richardsonii</i> (Gray, 1832) in Nagaland. | <i>The Clarion, International multidisciplinary journal</i> . vol 4 No.1 pp 5 – 7. (2015) | NA |
| 6. | Ramanujam S N, Dominic R (Zoology) | Median lethal concentration (LC ₅₀) of piscicidal plants and their utilization in aquaculture. | <i>Journal of Applied Aquaculture</i> , 24, pp 582-588 (2012) | 0.42 |

List of Publication in the College Journal RÜSIE: A Journal of Contemporary Scientific, Academic and Social Issues,

| Sl. No | Name | Title |
|-----------------------|-------------------------------|--|
| Volume 1, 2014 | | |
| 1. | Doulo V, Kachhara C | Study of rainfall and temperature variation of Kohima, Nagaland. |

- **Monographs:** Nil
- **Chapter(s) in Books:** Nil
- **Editing Books:** Nil
- **Books with ISBN numbers with details of publishers:** 02

| List of the Book/s Published by the Faculty Members (Text Books) | | | | |
|---|--|--|-------------------------------|--|
| Sl. No. | Name of Authors | Title of the Book | Name of the Chapter in a Book | Name of Publishers |
| 1. | Doulo V, Therie W and Yhome R | Biology laboratory Manual for class 12 | N/A | Academic Publisher, Kohima, Nagaland ISBN:9788193143339 |
| 2. | Jamir S, Mekro V, Temjenwabang, Therie W, Yanthan M, Samadangla, Angami D, Limatemjen, Remmei K, Doulo V, Yhome R | Biology laboratory Manual for class 11 | N/A | Academic Publisher, Kohima, Nagaland ISBN:9788193143377 |

- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
- **Citation Index – range / average:** NA
- **SNIP:** NA
- **SJR:** NA
- **Impact factor – range / average:** NA
- **h-index:** NA

15. **Details of patents and income generated:** Nil

16. **Areas of consultancy and income generated:** Nil

17. **Faculty recharging strategies:**

(a) Participated in the training of trainers programme of social harmony and national unity

(b) Participate in winter school sponsored by the UGC Academic Staff College.

(c) Participated in the two days National seminar on cultural Heritage of Nagaland.

18. Student projects

- **percentage of students who have done in-house projects including inter-departmental** : Students have project work in the 6th semester
- **percentage of students doing projects in collaboration with industries / institutes**: Nil

19. Awards / recognitions received at the national and international level by

- **Faculty**: Nil
- **Doctoral / postdoctoral fellows**: Nil
- **Students**: Nil

20. Seminars/ Conferences/Workshops organized and the source of funding (national, International) with details of outstanding participants, if any:

(a) Organised “Three days workshop on basic scientific Bee keeping” held on 24-27 October 2014 funded by Department of Higher Education, Govt of Nagaland.

(b) Organised “Workshop on paper recycling” held on 13 October 2012 funded Department of Zoology, Kohima Science College.

21. Student profile course-wise:

| Name of the Course (refer question no. 2) | Applications Received | Selected | | Pass percentage |
|--|-----------------------|----------|--------|-----------------|
| | | Male | Female | |
| B.Sc 1st semester(general) | 174 | 77 | 97 | 83% |
| B.Sc 3 rd semester(general) | 104 | 43 | 61 | 91% |
| B.Sc 5 th semester(general) | 111 | 49 | 62 | 91% |
| B.Sc 1 st (honors) | 40 | 13 | 27 | 96% |
| B.Sc 3 rd (honors) | 27 | 15 | 12 | 100% |
| B.Sc 5 th (honors) | 26 | 10 | 16 | 96% |

22. Diversity of Students

| Name of the Course (refer question no. 2) | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|--|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| B.Sc. General | 85% | 95% | 5% | Nil |

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? NA

24. Student progression

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | N/A |
| PG to M. Phil. | N/A |
| PG to Ph.D. | N/A |
| Ph.D. to Postdoctoral | N/A |
| Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment | N/A |
| Entrepreneurs | N/A |

25. Diversity of staff

| Percentage of faculty who are graduates of | |
|--|-----|
| the same parent university | 10 |
| from other universities within the State | N/A |
| from other universities from other States | 2 |
| from universities outside the country | Nil |

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. Ph.D: 01(one)

27. Present details about infrastructural facilities

- **Library:** Department has about 220 books in a separate section.
- **Internet facilities for staff and students:** One connection for faculty and common facilities for student.
- **Total number of class rooms :** 7
- **Class rooms with ICT facility:** 1
- **Students' laboratories:** 2
- **Research laboratories:** 1

28. Number of students of the department getting financial assistance from the college. Nil

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. N/A

30. Does the department obtain feedback from

- a. **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?** Yes, through Board of Studies
- b. **Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?** Yes in collaboration with the IQAC
- c. **Alumni and employers on the programmes offered and what is the response of the department to the same?** NA

31. List the distinguished alumni of the department (maximum 10). NA

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

- (a) A program on personality development held on 31 August 2015.
- (b) Program on introduction to semester system and career development.
- (c) Program on career guidance and counselling for B. Sc. 1st semester Zoology honours students.

33. List the teaching methods adopted by the faculty for different programmes.

- (a) Assignments (b) Experimental learning (c) Power point presentation (d) Different projects (e) Seminars (f) field study

34. How does the department ensure that programme objectives are constantly met

and learning outcomes monitored?

(a) Internal assessment (b) feedback report (c) Interaction with the student.

35. Highlight the participation of students and faculty in extension activities.

For detail, please refer section 3.6.3 in criterion III (Table 3.24 and Table 3.25 for students extension activities and Table 3.26 for faculty extension activities)

36. Give details of “beyond syllabus scholarly activities” of the department.

(a) Study tour for the degree student.

(b) Participation to conferences, seminar and workshops.

| Zoology: Participation to seminar/conference/workshop/training programs (2012-2016) | | | | |
|--|---|---|--|--|
| Sl. No | Name | Course | University | Duration |
| 1 | Three faculty members attended the training program | A training program on ICT aided teaching | IQAC, KSCJ And IT and Technical committee | KSCJ, Kohima Nov 15 th -18 th , 2016. |
| 2. | All the faculty members of the department | One day workshop on “Research Methodology”. | IQAC, KSCJ And Research Committee | KSCJ, Kohima May 14 th , 2016. |
| 3. | Doulo V (Zoology) | National Seminar on “Cultural Heritage of Nagaland” | IGRMS, Bhopal; Dept. of Anthropology, KSCJ, Kohima | KSCJ, Kohima Sep 29 th – 30 th , 2015. |
| 4. | All the faculty members of the department | Seminar on “An insight of the administrative and academic management of an Autonomous College: a case study of St. Xavier College, Kolkata” | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |
| 5. | All the faculty members of the department | Seminar on “CBCSs at Undergraduate level in the context of UGC National framework” | IQAC, KSCJ | KSCJ, Kohima Sep 2 nd , 2015. |
| 6. | Remmei K, (Zoology) | Short-term Course in Research Methodology (Interdisciplinary) | UGC HRD Centre NEHU, Shillong | Aug 17 th – 22 nd , 2015. |

| | | | | |
|-----|--|---|---|---|
| 7. | Limatemjen (Zoology) | National Workshop on Applications of Biotechnology Tools and Bioinformatics | Institutional Biotech Hub & Bioinformatics Infrastructure Facility Centre, NU | NU, Lumami, March 30 th – April 4 th , 2015. |
| 8. | Angami D, Doulo V, Dominic R (Zoology) | Workshop of Basic Scientific Bee Keeping | Dept. of Higher Education; Nagaland Beekeeping & Honey Mission; | Dept. of Zoology KSCJ, Kohima Oct 24 th – 27 th , 2014. |
| 9. | Angami D (Zoology) | Training of Trainers programme on social Harmony and National Unity | RGNIYD, NSS | Dimapur July 26 th – 30 th , 2014. |
| 10. | Pongener A (Zoology) | Training on “Rights of Persons with Disability” | ATI, Govt of Nagaland | Kohima May 16 th , 2014. |
| 11. | Angami D (Zoology) | Inter State Youth Exchange and Home Stay Programme | RGNIYD, NSS | Visakhapatnam Jan 22 nd – 31 st , 2014. |
| 12. | All the faculty Members of the department | Workshop on Methodology of Teaching | IQAC, KSCJ, Kohima | KSCJ, Kohima Sep 14 th , 2013. |
| 13. | Doulo V (Zoology) | National seminar on “National Education Policy Perspective” | State College of Teacher Education and Dept. of Education, NU | State College of Teacher Education, Kohima, Sep 12 th – 13 th , 2013. |
| 14. | All the faculty Members of the College | One day workshop on “Student Counselling for Faculty” | IQAC, KSCJ, Kohima | KSCJ, Kohima May 28 th , 2013. |
| 15. | Katinsinliu, Zao V, Pongen A, Doulo V, Angami D, | Workshop on Paper Recycling | Dept. of Zoology, KSCJ | KSCJ, Kohima Oct 13 th , 2012. |
| 16. | Doulo V | Workshop on Screen Printing | KSCJ Printing Press | KSCJ, Kohima Oct 27 th , 2012. |
| 17. | Limatemjen (Zoology) | Workshop on “Improvement of Question Paper and Scoring Pattern” | Pearson Education India | NBSE, Kohima July 26 th – 27 th , 2012. |
| 18. | Pongener A (Zoology) | Advanced Biblical Counselling – Level 1 | PTP Institute for Christian Counselling | Kohima July 2 nd – 7 th , 2012. |

| List of Papers Presented in Conferences by the Faculty Members | | | |
|--|-------------------------|--|--|
| Sl. No. | Name | Title | Conference title / venue/ date |
| 14. | Limatemjen (Zoology) | Traditional knowledge and practices associated with Carpenter worm: An indigenous food habit | <i>Cultural Heritage of Nagaland</i> , KSCJ, Kohima Sep 29 th -30 th , 2015. |

37. State whether the programme/ department is accredited/ graded by other agencies. Give details. No

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

| Strength | Weakness | Opportunities | Challenges |
|---|---|---|--|
| (i) Eco friendly and amicable working atmosphere. (ii) Good infrastructure and lab facilities. (iii) Experienced, dedicated teaching staff. (iv) Good coordination between the student and the faculty. (v) Organizing seminars and conferences | (i) Need to upgrade the instrumentation room for research purpose | (i) Encouraging students to participate in academic as well as social enrichment programs like seminar, NSS activities, plantation drive, blood donation. etc. (ii) Innovation in teaching-learning process. (iii) Installing new facilities in research lab. | (i) To strengthen the newly introduced UG , CBCS and PG programs. (ii) To develop a research lab. |

39. Future plans of the department.

- (i) To start a Ph.D. program.
- (ii) To upgrade teaching and learning methods.

-oOo-

POST-ACCREDITATION INITIATIVES

During the last NAAC assessment of the college in 2011, the peer team provided constructive suggestions for the quality enhancement. These suggestions were taken as a road map for charting a new course of action. Since accreditation by the NAAC in 2011, some major highlights of the college activities pertaining to quality sustenance and enhancement are cited below

The college IQAC played proactive role to create a vibrant study environment. Post accreditation, with a major policy decision, the college IQAC resolved to apply for an autonomous status of the college as per the UGC guidelines. After taking approval from the Govt of Nagaland and No Objection certificate from the NU, the college formally applied for conferment of autonomous status to the UGC in 2013. The college was conferred autonomous status in 2014. As a first step, five statutory bodies were formed, namely Governing Body, Academic Council, Board of Studies, Finance Committee and Examination Cell. The Governing Body is headed by Prof. (Mrs) Temsula Ao, *Padmashree*, and chairman of Nagaland State Women Commission. A five member team of the senior faculty member, including the controller of examination visited St. Xavier College, Kolkata, an autonomous institute of national repute, to get insight of the working system of an autonomous college.

The autonomous status provided vast opportunities to expand academic programs of the college. In their subsequent meetings, the IQAC took major policy decisions such as (i) to introduce CBCS curriculum at the undergraduate level from the academic session 2016-17 onward as per the UGC recommended template. (ii) to start English (Honours) program from the academic session 2016-17 onward (iii) to start PG programs in six subjects, namely, Anthropology, Botany, Geology, Mathematics, Physics and Zoology from the academic session 2016-17 onward. (iv) to introduce job oriented add-on courses of 2 credits each in three disciplines, namely (a) Floriculture (b) Apiculture and (c) Electronics Repairing & Circuit Design. (v) to enhance and strengthen ICT based teaching and learning.

In the first meeting of the Governing Body, the major proposals from the IQAC were approved. As a result, the college introduced CBCS in the UG program, including the BA English (Honours) (of 140 credits), PG program (of 72 credits) in six disciplines from the academic session 2016-17 onward. Additionally, add-on courses were also introduced from the academic session 2015-16 onward. The course on computer concept started in collaboration with NIELIT, Govt of India. The intake capacity of the students was increased in each honours course.

The participation of the teachers in quality improvement and research activities were encouraged. These initiatives have resulted in a manifold increase in the scholarly activities of the teachers. Under the quality improvement programs, the faculty members have attended total 85 programs, including 20 workshop/ seminar/ symposium/ training programs organized by the college. During the last five years, 12 faculty members (14% of the total strength) have availed study leave to pursue Ph D program. The faculty members have bagged research projects worth Rs. 340.94 lakhs through extramural funding from UGC, DBT, ISRO and MHRD. They have presented 32 research papers in national and international conferences in the country and abroad. Faculty members have published 51 research papers in national and international research journals with total impact factor (Thomson Reuter) of 19.25 and 24 research articles in an in-house journal entitled "RÜSIE: A Journal of Contemporary Scientific, Academic and Social Issues". They have also published 07 reference books and 10 chapters in the edited books. Total 05 books and 03 chapters in the books are in press. Faculty members have also written 07 textbooks and laboratory manual. The college has organized 03 national conferences. Faculty members have research collaboration with 18 institutes/organization of national and international repute. Total 5 MOU have been signed with national and international organizations for research collaboration. Few teachers are involved in guiding Ph.D students.

The Atmospheric Science Research Center (ASRC), is conceptualized as an incubator to promote interdisciplinary research in the state. The centre has a data depository, which is shared with researchers from other institutions. The college facilitates visit of the researchers of eminence. Total 27 researchers have visited the college during the last five years.

A mechanism for mentoring of the students is introduced, where a group of 10-15 students is attached to a teacher for their continuous interaction. A student support program “Good Samaritan Fund” has been initiated. It is a support fund by the teachers for economically challenged meritorious students. Moreover, institutionalization of corpus fund for financially poor students (Jubilee Trust) is in the process. The college has introduced evaluation of the teachers by students. This has led student-teacher interaction to a greater height. In the last five years, the students have bagged 29 gold medals in various disciplines in the university exams.

Two computing labs have been established in the department of mathematics and physics. The academic departments and the library of the college has 180 desktops/laptops. The use of ICT as a teaching tool is encouraged in a class room teaching. All the academic departments, library, college office and computer laboratory are networked by 10 Mbps LAN with high speed 4 Mbps broadband internet connectivity through secured client-server system. The college also has Wifi facility.

The library budget has been enhanced to procure more books and support facilities. The library has separate broadband-internet connections for students. During the last five years, the total library budget is 23.29 lakhs. An additional grant in aid for books for PG program is 30.00 lakhs. The computing infrastructure has increased significantly. The following initiatives have been taken for computerization of the library service (i). introduction and commencement of OPAC (ii). introduction and commencement of bar coding systems for books (iii). separate broadband connections for students (iv). strengthening of the INFLIBNET service to the faculty and students.

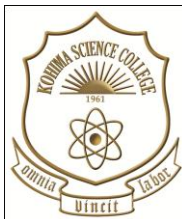
To supplement the academic program, following major construction works were initiated (i) construction of a faculty club (completed) (ii) construction of a day home for girls students (completed) (iii) construction of 4 class rooms (completed) (iv) construction of a water tank (completed) (v) construction of a central library building (in progress) (vi) construction of two girls hostels (in progress) and (vii) installation of 4 units of 10 KVA solar powered UPS (in progress).

For better efficiency and transparency in the finance, the accounts for the fund received from the MHRD, UGC and DBT are operated through the Public Financial Management Systems (PFMS), a web portal under the Ministry of Finance ,

Govt of India. The college has taken the following initiatives to make the campus eco-friendly: (i) tree plantation in and around the campus. (ii) waste management including hazardous and e-waste management (iii) use of LED bulbs in a phase manner (iv) installation of solar powered UPS systems (04 units of 10KVA each) and (v) introduction of LPG for cooking in the hostels To create greater awareness about the environment, the college has conducted a green audit of its campus and adjoining area through GIS and remote sensing technique with the help GIS and remote sensing department government of Nagaland. It is observed that the college and surrounding area of 21 km², has 84% forest cover, including dense, open and shrub forests.

As a future plan, the college is taking initiative to introduce more disciplines in PG program and to start a Ph.D program. The college is exploring to start on line courses in a phase manner. The college is also planning to be part of the National Academic Depository.

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GOVERNMENT OF NAGALAND

**Office of the Principal
Kohima Science College, Jotsoma, Kohima,
Nagaland, 797002
(An Autonomous Government PG College)**

DECLARATION BY THE HEAD OF THE INSTITUTION

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

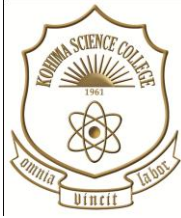
This SSR is prepared by the institution after internal discussion, and no part thereof has been outsourced.

I am aware that the peer team will validate the information provided in this SSR during the peer team visit.

**Dr. I. Anungla Aier
(Principal)**

Place: Kohima

Date: 20/12/2016

**GOVERNMENT OF NAGALAND**

**Office of the Principal
Kohima Science College, Jotsoma, Kohima,
Nagaland, 797002
(An Autonomous Government PG College)**

CERTIFICATE OF COMPLIANCE

(Autonomous College and Recognized Institution)

This is to certify that **Kohima Science College, Jotsoma, Kohima, Nagaland** fulfills all norms

1. Stipulated by the **Nagaland University**, the affiliating University and/or
2. Regulatory Council/Body [**UGC**]
3. The affiliation and recognition is valid as on date.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Dr. I. Anungla Aier

(Principal)

Date: 20-12-2016

Place: Kohima

Annexure 1

डॉ. मंजू सिंह
Dr. Manju Singh

संयुक्त सचिव
Joint Secretary



दूरभाष PHONE : कार्यालय OFF : 23238876
फैक्स FAX : 011-23232297
ई-मेल E-MAIL : manjusingh.ugc@nic.in

विश्वविद्यालय अनुदान आयोग
बहादुर शाह ज़फर मार्ग,
नई दिल्ली-110 002 (भारत)

UNIVERSITY GRANTS COMMISSION
Bahadur Shah Zafar Marg,
New Delhi-110 002 (INDIA)

BY SPEED POST

No.F. 22-1/2014(AC)

June, 2014

The Registrar,
Nagaland University,
Hqrs Lumami, Zunheboto,
District Nagaland,
Nagaland – 798 627

19 JUN 2014

Sub:- Conferment of Fresh Autonomous Status to Kohima Science College, Jotsoma – 797 002, Nagaland affiliated to Nagaland University, Nagaland.

Sir/Madam,

This has reference to the proposal dated 28.10.2013 submitted by Kohima Science College, Jotsoma – 797 002, Nagaland affiliated to Nagaland University, Nagaland under the UGC scheme for conferment of fresh autonomous status and subsequent visit of the UGC Expert committee to consider the proposal on 07th and 08th April, 2014.

The report of the aforesaid Joint UGC Expert Committee was placed before the Standing Committee constituted for the purposes by the Commission to look into the Expert Committee reports for conferment of fresh autonomous status and extension of autonomy to colleges before its recommendations are placed before the Commission for its final approval.

The recommendations of the Standing Committee were placed before the Commission at its meeting held on 13.06.2014. The Commission, after taking due consideration of the recommendations of the Standing Committee, agreed to grant autonomous status to Kohima Science College, Jotsoma – 797 002, Nagaland under the UGC autonomous colleges scheme for a period of six year w.e.f. the academic year i.e. 2014-2015 to 2019-2020.

The Nagaland University, Nagaland may now go ahead and issue necessary orders in this regard by endorsing a copy of the same to this office for our records. The admissible grant under this scheme will be released to the College as per its eligibility, according to the norms as laid down in the XII Plan Guidelines for Autonomous Colleges by the Joint Secretary, UGC, North-Eastern Regional Office, 3rd Floor, House Fed, Rental Block – 5, Beltola – Basistha Road, Dispur, Guwahati – 781 006 (Assam).

Yours faithfully,

(MANJU SINGH)

Annexure 2

Ph. 23236351, 23232701, 23237721
23234116, 23235733, 23232317
23236735, 23239437, 23239627

Extension No. 413 (CPP-I Colleges)
UGC Website: www.ugc.ac.in



विश्वविद्यालय अनुदान आयोग
बहादुरशाह जफर मार्ग
नई दिल्ली-110 002
UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110 002

F. No. 8-403/2010 (CPP-I/C)

January, 2012

The Registrar,
Nagaland University,
Lumami – 798 627,
Nagaland.

23 JAN 2012

Sub: Change in the name of College under Section 2 (f) & 12 (B) of the UGC Act, 1956.

Sir,

With reference to the letter No. KSC/ESTT-2/G/2011-12/673 dated 05.08.2011 received from the Principal, Kohima Science College, Kohima – 797 002, Dist. Kohima, (Nagaland) on the above subject, I am directed to say that the change in the name of college has been made in the list of colleges maintained under Section 2 (f) & 12 (B) of the UGC Act, 1956 as under: -

| Name of the College earlier included under Section 2 (f) & 12 (B) | Revised Name of the College in the list of Colleges under Section 2 (f) & 12 (B) |
|---|--|
| Science College, Kohima, Dist. Kohima, (Nagaland). | Kohima Science College, Kohima – 797 002, Dist. Kohima, (Nagaland). |

Yours faithfully,

(Uma Ball)
Under Secretary

Copy to:-

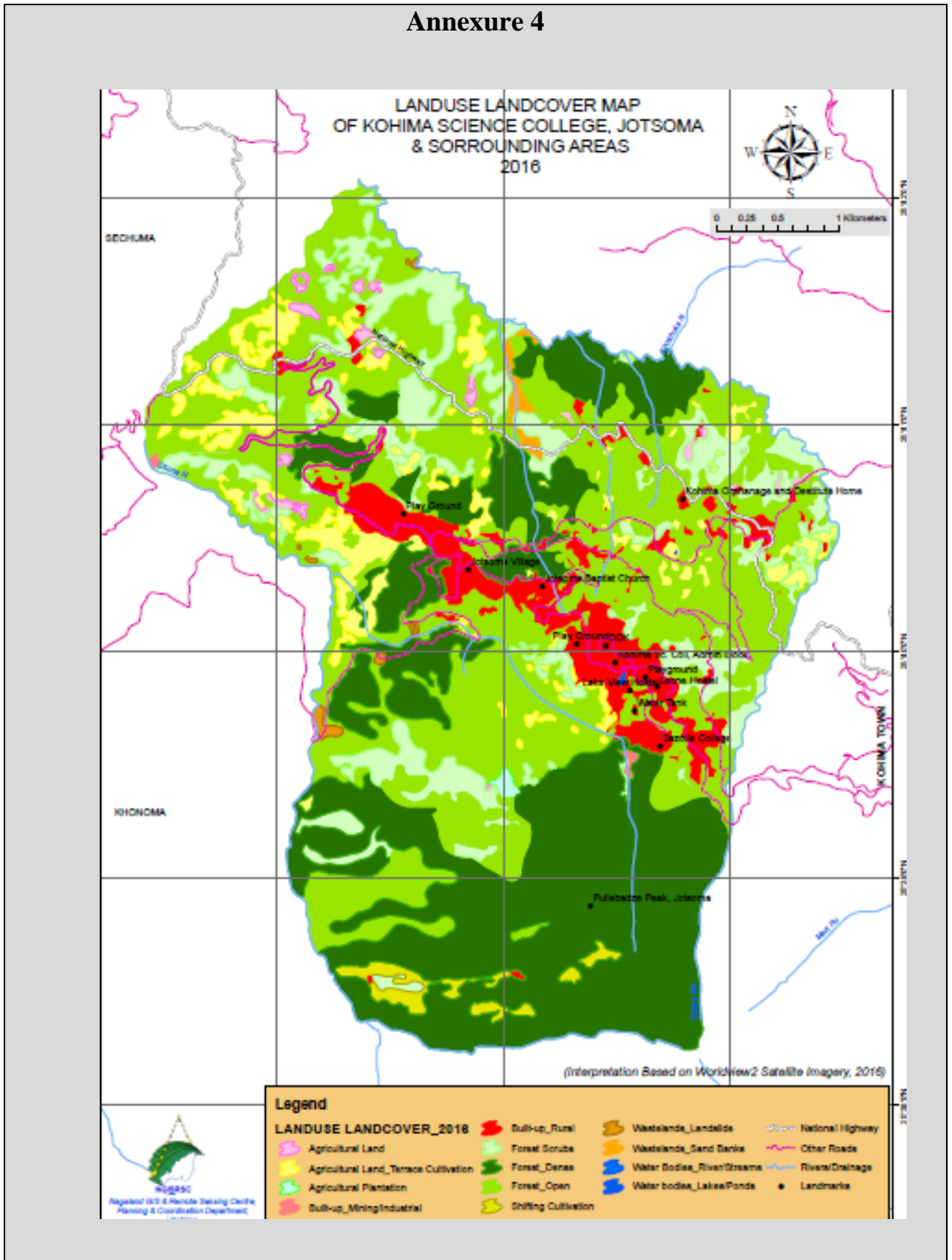
1. The Principal, Kohima Science College, Kohima – 797 002, Dist. Kohima, (Nagaland).
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Secondary Education & Higher Education, Shastri Bhavan, New Delhi - 110 001.
3. The Principal Secretary (Higher Education), New Sectl., Kohima – 797 001, (Nagaland).
4. The Deputy Secretary, UGC, North-Eastern Regional Office (NERO), 3rd Floor, House FED, Rental Block - 5, Beltola - Basistha Road, Dispur, Guwahati - 781 006, (Assam).
5. Publication Officer (Website-UGC), New Delhi.
6. Section Officer (F.D.-III Section) U.G.C., New Delhi.
7. All Sections, U.G.C, New Delhi.
8. Guard file.

(Sunita Gulati)
Section Officer

Annexure 3



Annexure 4



| Sl. No. | Abbreviation | Full Meaning |
|---------|--------------|---|
| | AIVSC | All India <i>Vayu Sainik</i> Camp |
| | AMC | Annual Maintenance Contract |
| | ANCSU | All Nagaland College Students Union |
| | APAR | Annual Performance Appraisal Report |
| | AQAR | Annual Quality Assurance Report |
| | AC | Academic Council |
| | ATI | Administrative Training Institute |
| | AU | Assam University |
| | BHU | Benaras Hindu University |
| | BOS | Board of Study |
| | CATC | Combined Annual Training Camp |
| | CBCS | Choice Based Credit System |
| | CCTV | Close Circuit TeleVision |
| | DEO | District Education Office |
| | CCC | Course on Computer Concept |
| | CSIR-NEIST | Council of Industrial Research-North East Institute of Science and Technology |
| | DBT | Department of Biotechnology |
| | DLP | Digital Light Processing |
| | DSE | Discipline Specific Elective |
| | DST | Department of Science & Technology |
| | DU | Dibrugarh University |
| | DWR | Doppler Weather Radar |
| | ENVIS | ENVironment Information System |
| | ESSL | European Severe Storm Laboratory |
| | EU | Evangelical Union |
| | GB | Governing Body |
| | GIS | Geographical information Systems |
| | GIZ | <i>Gesellschaft für Internationale Zusammenarbeit (German Language)</i> |
| | GNSS | Global Navigation Satellite System |
| | GOI | Govt of India |
| | GPM | Global Precipitation Measurement |
| | GU | Gauhati University |
| | HOD | Head of the Department |
| | HSSLC | Higher Secondary School Leaving Certificate |
| | HRD | Human Resource Development |
| | ICHR | Indian Council of Historical Research |
| | ICT | Information Communication Technology |
| | IEEE | Institute of Electrical and Electronics Engineers |
| | IGNOU | Indira Gandhi National Open University |
| | IGRMS | <i>Indira Gandhi Rastriya Manav Sanghralaya,</i> |
| | IIE | Indian Insitute of Entrepreneurship |

| | |
|-----------|--|
| IISc | Indian Institute of Science |
| IIRS | Indian Institute of Remote Sensing |
| IIT | Indian Institute of Technology |
| IMD | India Meteorological Department |
| IMS | India Meteorological Society |
| IMS-DC | India Meteorological Society-Dehradun Chapter |
| INFLIBNET | INformation LIBrary NETwork |
| INSAT | INdian SATellite |
| IQAC | Internal Quality Assurance Cell |
| IRCSNB | Indian Red Cross Society, Nagaland Branch |
| ISI | Indian Statistical Institute |
| ISRO | Indian Space Research Organization |
| IUCAA | Inter University Consortium of Astrophysics and Astronomy |
| JNU | Jawaharlal Nehru University |
| JU | Jharkhand University |
| JUO | Junior Under Officer |
| KSCJ | Kohima science College , Jotsoma |
| KSCTA | Kohima Science College Teachers Association |
| KU | Kumaun University |
| LAN | Local Area Network |
| LCD | Luminous Colour Display |
| MCQ | Multiple Choice Questions |
| MHRD | Ministry of Human Resource Development |
| MoDONER | Ministry of Development of North East Region |
| MoEF &CC | Ministry of Environment, Forest & Climate Change |
| MOU | Memorandum of Understanding |
| MU | Manipur University |
| NA | Not Available |
| N/A | Not Applicable |
| NAAC | National Assessment & Accreditation Council |
| NARL | National Atmospheric Research Laboratory |
| NASTEC, | NAgaland Science and TEchnology Council |
| NBSE | Nagaland Board of School Education |
| NCC | National Cadet Corps |
| NCEP | National Centre for Environmental Prediction |
| NCSC | National Children Science Congress |
| NCSTC | National Council for Science & Technology Communications |
| NEC | North Eastern Council |
| NEHU | North Eastern Hill University |
| NESAC | North East Space Application Centre |
| NET | National Eligibility Test |
| NIC | National Integration Camp |
| NIELIT | National Institute of Electronics & Information Technology |
| NIHESW | Nagaland Institute of Health, Environment & Social Welfare |
| NIT | National Institute of Technology |
| NLP | Natural Language Processing |
| NPL | National Physical Laboratory |

| | | |
|--|-----------|--|
| | NPSC | Nagaland Public Service Commission |
| | NSIRCS | National Seminar on Interdisciplinary Research in Chemical Sciences |
| | NSS | National Social Service |
| | NSWC | Nagaland State Women Commission |
| | NU | Nagaland University |
| | OBC | Other backward Class |
| | OMR | Optical Mark Recognition |
| | OPAC | Online Public Access Catalogue |
| | PFMS | Public Finance Management System |
| | PG | Post Graduate |
| | PI | Principal Investigator |
| | PPT | Power Point Presentation |
| | PRIO | Peace Research Institute of Oslo |
| | PTA | Parents Teachers Association |
| | PVSC | Pre Vayu Sainik Camp |
| | RGCU | Rajiv Gandhi Central University, |
| | RGNIYD | Rajiv Gandhi National Institute of Youth Development |
| | RS | Remote Sensing |
| | RRC | Red Ribbon Club |
| | RUSA | <i>Rashtriya Uchattar Shiksha Abhiyaan</i> (National Higher Education Mission) |
| | SAC | Space Application Centre |
| | SC | Schedule Cast |
| | SCERT | State Council of Education, Research and Training |
| | SCI | Scientific Citation Index |
| | SCTE | State College of Teachers Education |
| | SNIC | Special National Integration Camp |
| | SPSS | Statistical Package for Social Sciences |
| | ST | Schedule Tribe |
| | SUO | Senior Under Officer |
| | TRMM | Tropical Rainfall Measuring Mission |
| | TIFR | Tata Institute of Fundamental Research |
| | TU | Tezpur University |
| | UG | Under Graduate |
| | UGC | University Grants Commission |
| | UGC-ASC | University Grants Commission-Academic Staff College |
| | UGC- NERO | University Grants Commission-North East Region Office |
| | UHF | Ultra High Frequency |
| | VHF | Very High Frequency |
| | WinFest | Winter Festival |
| | YRC | Youth Red Cross |

