



PROSPECTUS 2018



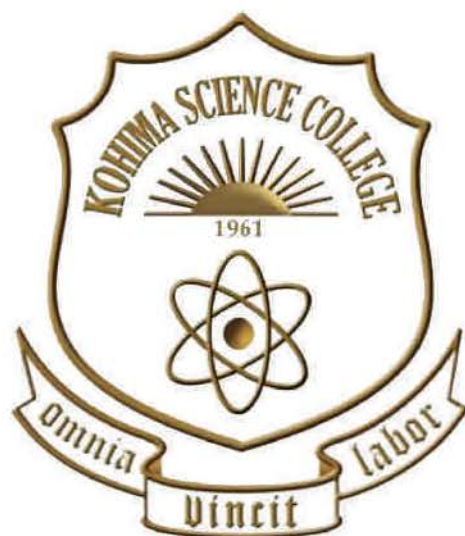
KOHIMA SCIENCE COLLEGE

(An Autonomous Government P.G. College)

JOTSOMA, KOHIMA - 797002, NAGALAND

(NAAC Accredited A Grade - 1st Cycle: 2011)

(NAAC Re-accredited A Grade - 2nd Cycle: 2017)



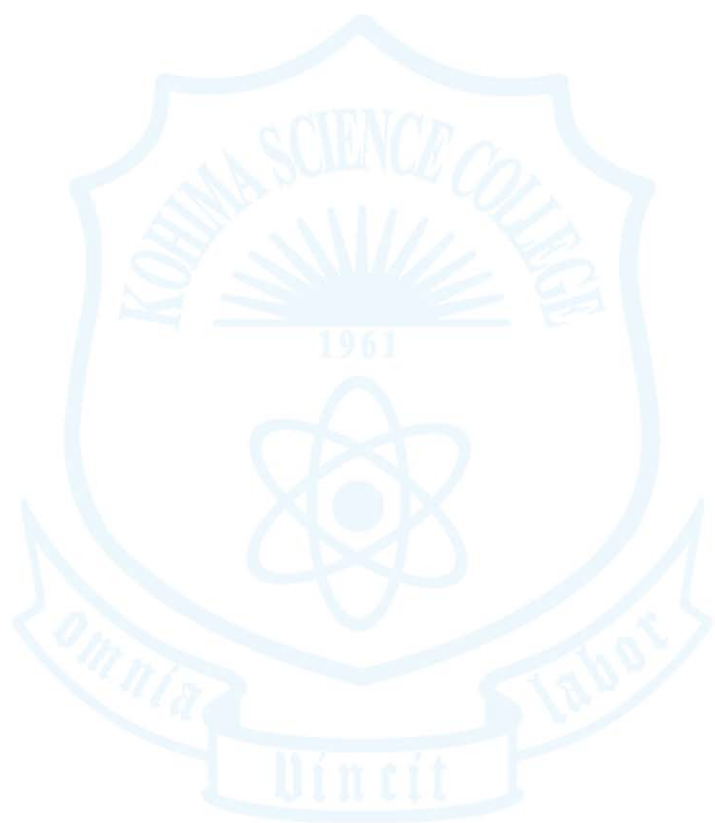
LABOUR OVERCOMES EVERYTHING

THE EMBLEM

designed by

Late Keduonyü Sekhose, Late J. B. Jasokie and Late Akum Imlong
in 1962

bears the Rising Sun over an Atomic Structure signifying the aspirations, achievement of mankind in the field of Science.



FOUNDING MEMBERS

Late (Dr.) Neilhouzhü K. Angami

Late Keduonyü Sekhose

Late U. M. Deb

Late J. B. Jasokie

Late Vizol Angami

Late Akum Imlong

Rev. Haizotuo Munshi

COLLEGE ADVISORY BOARD

The Director, Higher Education

- Chairman

The Principal

- Secretary

Dr. Shürhozelie Liezietsu

- Member

The Deputy Commissioner, Kohima

- Member

Chairman, Kohima Municipal Council

- Member

Dr. (Mrs.) Vikoleno Rino,
Nagaland University Representative

- Member

Mr. Kurovi Peseyie,
Jotsoma Village Representative

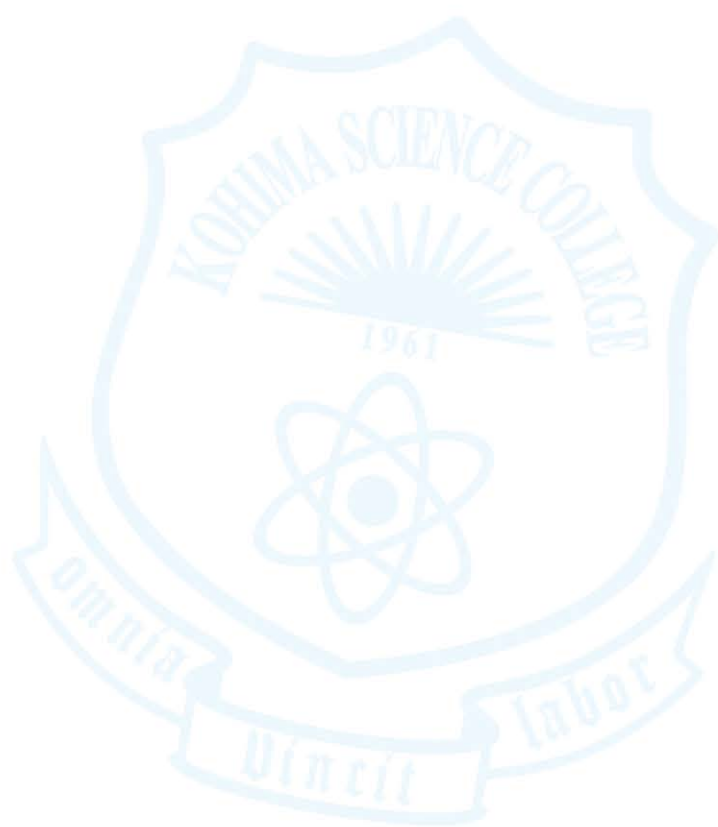
- Member

The Vice Principal

- Member

Mr. Vimhakhol Mekro, Staff Representative

- Member



GOVERNING BODY

Prof. Temsula Ao, Padmashree	- Chairperson
Dr. Lily Sema, Principal	- Member Secretary
Prof. Sabyasachi Basu Ray Chaudhury Vice Chancellor, Rabindra Bharati University, Kolkata	- Member (UGC Nominee)
Dr. S. K. Singh, Assoc. Prof. Deptt. of Geology, Nagaland University	- Member (NU Nominee)
Addl. Director, Higher Education	- Member
Dr. Vituo Belho	- Member
Dr. Niu Francis Whiso	- Member
Mrs. Tokheni Sema Vice Principal	- Member
Ms. Sungtinaro Jamir Assoc. Prof. & Head of Deptt. of Botany	- Member

ACADEMIC COUNCIL

Dr. Lily Sema, Principal	- Chairman
Mrs. Tokheni Sema, Vice Principal	- Member Secretary

MEMBERS

All HoDs in the College

Mrs. R. Moasangla Jamir (Anthropology)
 Ms. Sungtinaro Jamir (Botany)
 Mr. N. Meren Ao (Chemistry)
 Dr. P. Sinha (Computer Science)
 Mrs. M. Amenla (English)
 Mrs. C. Thungbeni Yanthan (Geology)
 Mr. Imlitemjen Jamir (Geography)
 Dr. S. N. Pandey (Mathematics)
 Dr. M. Devrani (Physics)
 Mr. Md. Jakir Ali (Statistics)
 Mr. Visoho Zao (Zoology)
 Mr. M. N. Murali (Controller of Examinations)

Representative of different categories of teaching staff

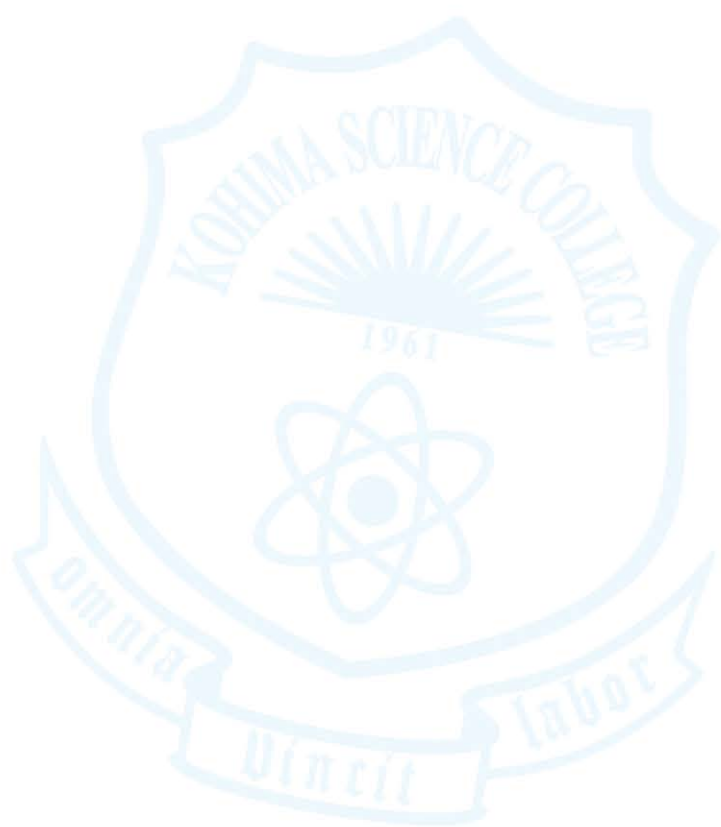
Mr. Vimhakhhol Mekro, Associate Professor
 Dr. Sanjay Sharma, Assistant Professor
 Dr. Khrietuo Doulo, Assistant Professor

External Expert Members

Dr. J. Meren Ao, Principal, St. John College, Dimapur
 Mr. Kezhokphoto Savi, Advocate & Faculty, Kohima Law College
 Dr. Joyce Zinyü Angami, Social Worker, Kohima
 Dr. Chinnamuthu, HoD ECE, NIT, Chumukedima

University Nominees

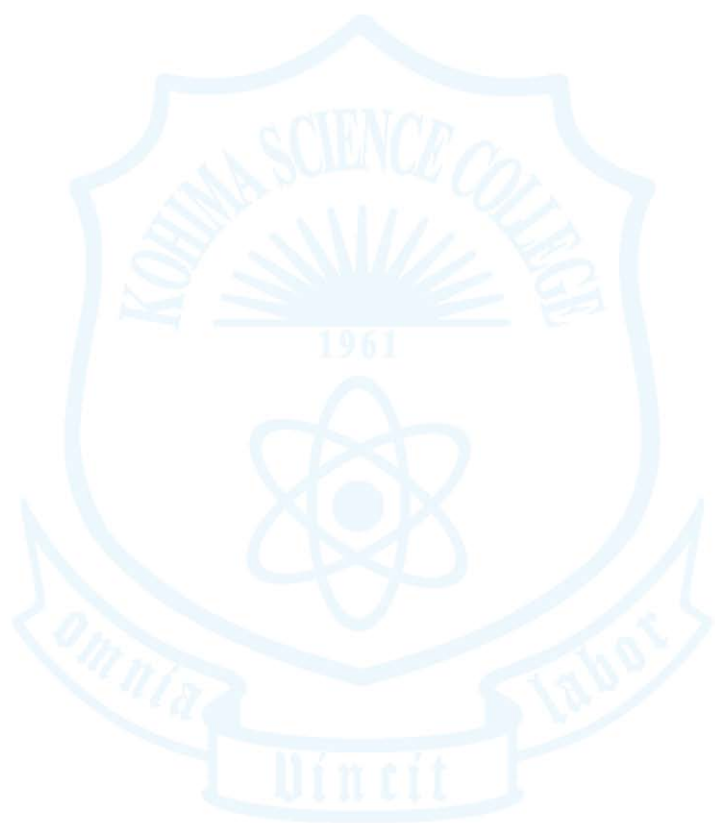
Prof. Buno Liegise, Deptt. of Education, N.U.
 Prof. B. V. Rao, Deptt. of Geology, N.U.
 Prof. N. Venuh, Deptt. of History & Archaeology, N.U.





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Message from the Principal

Kohima Science College, Jotsoma is an autonomous government Post Graduate college that offers Bachelor's programme in 11 disciplines (including BA degrees in English and Geography) and Master's programme in 7 disciplines. If you are planning to take either your Bachelor's or Master's degree that is in tune with the latest global trends and having a sound grading system that reflects the learner's performance in the best possible way, I invite you to join us! The college has a proven track record in the academics and we have always tried to evolve into a student-centric institution with focus on curricular flexibility and learner's mobility.



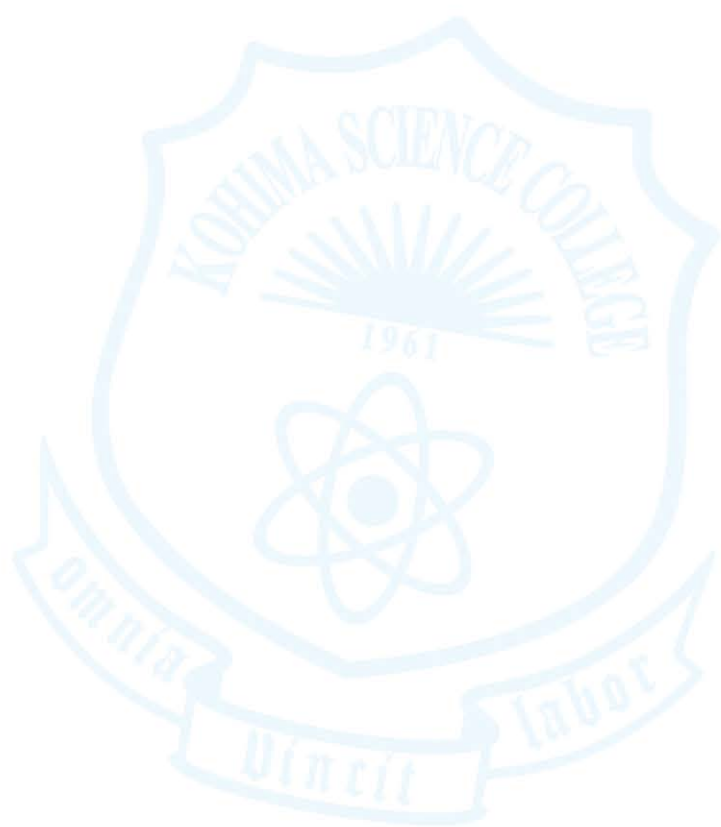
The college follows the semester mode of teaching and examination which is a national policy. Another major change is the adoption of the Choice Based Credit System (CBCS) that is a recommendation of the National Framework policy through the UGC. The CBCS is a rigorous curriculum that offers an intensive and extensive programme in the respective domain of the particular subject. This system also does away the constraints of pursuing pre-determined combinations of course and offers immense opportunities in the core subjects.

Besides the Bachelor's and Master's programme, the college has three research laboratories funded by various agencies in the country. It offers vocational courses in Apiculture, Pisciculture, Electronics, Floriculture, Folklore, and Music. The college has two MoUs with Surindra Rajabhat University, Surin, Thailand, and an MoA with University of Minnesota, USA for academic and cultural exchanges. Very soon the college will be starting the M.Phil. programme and a certificate course in English Phonetics.

Choosing the right college is a difficult decision sometimes: one has to consider a number of variables like academic output, intellectual growth, flexibility available to the students to define their field of study, research environment, mentoring, accommodation, and reasonable fees. The college tries to offer these opportunities to the best of its ability keeping in mind the contextual reality. We, at Kohima Science College, are committed to nurture excellence and we try to impress upon our students to live as worthy alumni. And they have not disappointed.

A handwritten signature in black ink, which appears to read 'Lily Sema', written in a cursive style.

Dr Lily Sema





COLLEGE PROFILE

BACKGROUND

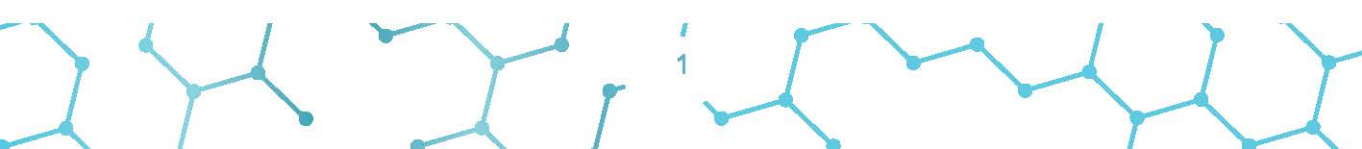
Kohima Science College, Jotsoma, established in 1961 with science education in higher secondary and under graduate levels, has grown at a healthy rate and is now recognised as one of the State's finest colleges. Now, 56 years after its founding, and an enviable Grade A accreditation in 2011 (1st cycle) and 2017 (2nd cycle) by the UGC National Assessment and Accreditation Council, Kohima Science College has become Nagaland's only autonomous Government P.G. College. The college offers 11 undergraduate programmes in a broad spectrum of science subjects and English literature. It offers master's programme in Anthropology, Botany, Chemistry, Geology, Mathematics, Physics and Zoology. The college also has three research laboratories. The college aspires to engage in not only improving the standards of science education in the State but also generate knowledge that is value-based. Kohima Science College has been successively affiliated to Guwahati University, North-Eastern Hill University and Nagaland University.

LOCATION

Kohima Science College is located about 8 km west of Kohima, Nagaland's capital, at Jotsoma village (Kohima is 74 km from Dimapur, Nagaland's only railway station and airport). Situated at an altitude of 1671 meters, the campus is nestled among the serene and evergreen Japanese cedars and the lovely cherries. It commands a panoramic view of Kohima town on the east, while *Mt. Pulie Badze* and the other undulating hills of the Barail range present a lush green tropical ambience on the south-west providing a natural serenity conducive for study.

VISION

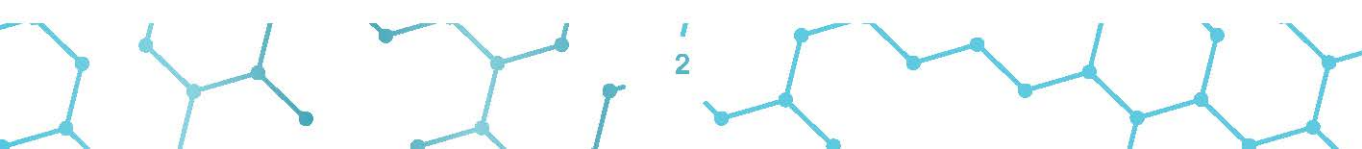
To develop the college into a research driven education hub of national and international repute.





MISSION STATEMENT

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 times, the college has charted its own mission to respond to the emerging needs of the contemporary society by expanding its focal area 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 the faculty members.
 - ▶ To foster and institutionalize innovative and best practices in the workplace by using transparent and decentralized working environment.
- 



ACADEMICS I

Bachelor of Science and Bachelor of Arts (English)

This is a three-year programme spread over six semesters which leads to the degree of Bachelor of Science (B.Sc.) or Bachelor of Arts (B.A. Honours in English). The Bachelor's Degree Programme in English is an innovative programme of the college. It aims to cultivate and nurture the love of literature, language, writing and composing. The college offers Honours in eleven subjects. The degree programme is a good launching pad for such students who wish to take an M.Sc./MA and/or a Ph.D. degree. This course is also ideally suited for students who want to take up career opportunities in teaching, research, civil/administrative services, etc.

Semester mode of teaching and examination in Indian universities has become a national policy. Consequently, the UGC has made it mandatory for all the institutions of higher learning and affiliated colleges in the country to follow this system. Another major recommendation of the national regulatory authorities has been to introduce Choice Based Credit System (CBCS) in tune with global trends and adoption of a sound grading system that reflects the learner's performance in the best possible way. The UGC has also been vocal on the need to 'pay urgent attention to curricular flexibility and learner's mobility.' Keeping all this in mind Kohima Science College has introduced the CBCS. We believe this will assuage the constraints of pursuing pre-determined combinations of course to a certain level and offer the students opportunities and avenues to not only learn core subjects but also explore additional avenues of learning beyond the core subjects for holistic development of the student.

A minimum of six semesters (three years) and maximum ten semesters (five years) will be required for the successful completion of the course. The odd semesters (I, III, & V) shall be from July 1 to December 31. The even semesters (II, IV, & VI) shall be from January 1 to June 30. Each semester shall have class tests, internal assessment activities and end semester examinations with a weightage ratio of 30:70. In order to clear a semester the student has to secure a minimum of 40% marks in the internal assessments and 40% in the end semester examinations.

As per the college norms, a student having less than 80% attendance shall not be allowed to appear end semester examinations.

COURSE DESIGN

Ability Enhancement Compulsory Course (AECC)

1. English Communication / Tenyidie / Hindi
2. Environmental Science

Honours

Any one of the following subjects may be opted as an honours subject.

1. Anthropology – 60 seats
2. Botany – 60 seats
3. Chemistry – 60 seats
4. Geography – 60 seats
5. Geology – 60 seats
6. Mathematics – 60 seats
7. Physics – 60 seats
8. Statistics – 60 seats
9. Zoology – 60 seats
10. English – 25 seats
11. Computer Science – 60 seats

SCHEME FOR CHOICE BASED CREDIT SYSTEM					
Semester	Core Course	Ability Enhancement Compulsory Course (AECC)	Skill Enhancement Course (SEC)	Discipline Specific Elective (DSE)	Generic Elective (GE)
I	C1	English Communication /Hindi/Tenyidie	---	---	GE-1
	C2		---	---	
II	C3	Environmental Science	---	---	GE-2
	C4		---	---	
III	C5	---	SEC-1	---	GE-3
	C6	---		---	
	C7	---		---	
IV	C8	---	SEC-2	---	GE-4
	C9	---		---	
	C10	---		---	
V	C11	---	---	DSE-1	---
	C12	---	---	DSE-2	---
VI	C13	---	---	DSE-3	---
	C14	---	---	DSE-4	---

Reservation

Government of India Policy on Reservation

- | | |
|--------------|---|
| 1. SC – 15% | 2. ST – 7.5% |
| 3. OBC – 27% | 4. PWD (Persons With Disabilities) – 3% |

Eligibility

XII passed or equivalent from a recognized Board with a minimum of 50% in aggregate (condition not applicable for students of Kohima Science College) and with the following conditions if an applicant wishes to take up Honours subject:

- a) 45% in the subject in which one desires to take up Honours.
- b) 45% in Biology to take up Honours in Botany or Zoology.
- c) 45% in the aggregate to take up honours in a subject not available at the + 2 or equivalent level.

ADMISSION PROCEDURE: B.Sc. /B.A.

Application

Prescribed application form along with the Prospectus can be obtained from the college for ₹250. The application duly filled must contain the following:

- a) One attested photocopy of Admit Card, Pass Certificate and Mark Sheet of HSSLC or equivalent examination.
- b) A candidate who is applying after a gap of one year or more after passing the last examination should produce a gap certificate from the institution last attended or from a Gazetted Officer personally known to him/her in the manner of the given format.

Selection

The selection of students will be according to the merit list which will be based on the Class XII aggregate marks. Canvassing in any form will disqualify a candidate. The decision of the Admission Committee is final and binding.

Admission

At the time of admission a candidate must produce the following documents in original of the last qualifying examination:

- a) Mark Sheet (*The Mark Sheet shall be retained by the college for 6 months as per Govt. Order*)
- b) Admit Card
- c) Pass Certificate
- d) Migration Certificate (*for a candidate from another Board*) for registration into Nagaland University.
- e) SC/ST/OBC/PWD Certificate(s)

N.B.: If a candidate fails to get admitted on the specified dates and time his/her selection is forfeited.

FEE STRUCTURE for B.Sc. Students

Sl No	Particular	Revenue for	Annual/ Semester	Amount
1	Admission Fee	Government	Annual	₹ 100.00
2	Tuition Fee	Government	Annual	₹ 240.00
3	Library	Government	Annual	₹ 100.00
4	Registration Fee	University	One Time	₹ 150.00
5	Library Security Deposit (refundable)	College	One Time	₹1,000.00
6	Enrolment Fee	College	Semester	₹25.00
7	Library Development	College	Semester	₹800.00
8	Development Fee	College	Semester	₹1,000.00
9	Internal Examination	College	Semester	₹ 250.00
10	Session fee	College	Semester	₹100.00
11	Laboratory Fee	College	Semester	(for Mathematics, Statistics & English) ₹1 500.00 (for other departments) ₹ 2000.00
12	Bus	College	Annual	₹500.00
13	Identity Card	College	Annual	₹100.00
14	Electricity	College	Annual	₹500.00
15	Water	College	Annual	₹200.00
16	Monthly Bulletin	College	Annual	₹ 50.00
17	IT	College	Annual	₹ 200.00
18	IQAC	College	Annual	₹200.00
19	Students' Handbook	College	Annual	₹ 20.00
20	Games and Sports	College	Annual	₹ 150.00
21	Magazine	College	Annual	₹150.00
22	Common Room	College	Annual	₹50.00
23	Freshers' / Parting Social	College	Annual	₹ 300.00
24	Students' Union	College	Annual	₹60.00
25	Science Club	College	Annual	₹10.00
26	Writing Pad	College	Annual	₹40.00

UNIFORM

1	College Blazer, Tie & Crest and T Shirt	One Time	₹1,700.00
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HOSTEL

1	Admission	Government	Annual	₹ 100.00
2	Seat Rent	Government	Annual	₹ 240.00
3	Security Deposit (refundable)	College	One Time	₹ 2,000.00
4	Hostel Maintenance	College	Annual	₹ 1,000.00
5	Electricity	College	Annual	₹ 600.00
6	Water	College	Annual	₹ 200.00
7	Games & Sports	College	Annual	₹ 100.00
8	Medical Fee	College	Annual	₹ 100.00

Note: Fees once deposited are not refundable.

ACADEMICS II

Master of Science

This is a two-year programme spread over four semesters which leads to the degree of Master of Science (M.Sc.). M.Sc. programme is offered in Anthropology, Botany, Chemistry, Geology, Mathematics, Physics, and Zoology. This innovative project of the college is in respond to an acutely felt need of the society to have a wider avenue for such students who would like to pursue higher studies in science here in Nagaland. This course is tailored along the patterns followed by NEHU and other top universities of the country. This programme will not only expose the students to the latest trends but will also introduce to them the functional areas in their respective discipline with a considered blend of theory and practice. The programme will prepare the students for further research and any other relevant activity in their respective field of study.

Reservation

Government of India Policy on Reservation

- | | |
|--------------|---|
| 1. SC – 15% | 2. ST – 7.5% |
| 3. OBC – 27% | 4. PWD (Persons With Disabilities) – 3% |

Eligibility

Any student having 45% marks in B.Sc. honours or 60% aggregate in B.Sc. general from a recognized university/institution is eligible to apply for the M.Sc. programme.

ADMISSION PROCEDURE: M.Sc.

Application

Prescribed application form along with the Prospectus can be obtained from the college for ₹250. The application duly filled must contain the following:

- a) One attested photocopy of Admit Card, Pass Certificate and Mark Sheet of B.Sc. or equivalent examination.
- b) A candidate who is applying after a gap of one year or more after passing the last examination should produce a gap certificate from the institution last attended or from a Gazetted Officer personally known to him/her in the manner of the given format.

Selection

Admission to the MSc programme shall be made on the basis of the candidate's performance in the entrance test/interview conducted by the concerned department, and his/her marks in the concerned subject at the undergraduate level. The weightage for these two criteria is 50% each.

Admission

At the time of admission a candidate must produce the following documents in original of the last qualifying examination:

- a) Mark Sheet (*The Mark Sheet shall be retained by the college for 6 months as per Govt. Order*)
- b) Admit Card
- c) Pass Certificate
- d) Migration Certificate (*for a candidate from other Universities*)
- e) SC/ST/OBC/PWD Certificate(s)

N.B.: If a candidate fails to get admitted on the specified dates and time his/her selection is forfeited.

FEE STRUCTURE for M.Sc. Students

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2	Tuition Fee	Government	Annual	₹ 240.00
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6	Enrolment Fee	College	Semester	₹ 25.00
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8	Development Fee	College	Semester	₹ 1,000.00
9	Internal Examination	College	Semester	₹ 250.00
10	Session Fee	College	Semester	₹ 100.00
11	Laboratory fee	College	Semester	(for Chemistry & Zoology) ₹ 7500.00 (for Geology & Anthropology) ₹ 6000.00 (for Botany, Mathematics & Physics) ₹ 5000.00
12	Bus	College	Annual	₹ 500.00
13	Identity Card	College	Annual	₹ 100.00
14	Electricity	College	Annual	₹ 500.00
15	Water	College	Annual	₹ 200.00
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17	IT	College	Annual	₹ 200.00
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HOSTEL

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4	Hostel Maintenance	College	Annual	₹ 1,000.00
5	Electricity	College	Annual	₹ 600.00
6	Water	College	Annual	₹ 200.00
7	Games & Sports	College	Annual	₹100.00
8	Medical Fee	College	Annual	₹ 100.00

Note: Fees once deposited are not refundable.

QUALITY CONTROL

The Principal chairs the Internal Quality Assurance Cell (**IQAC**) which comprises the Vice Principal, Heads of Departments and NAAC Steering Committee. The Cell plans and monitors measures to improve the quality of education. Some broad strategies of the cell are:

a) **Internal Assessment**

Continuous assessment of the students is done by the college through the weekly tests, assignments, and projects. Three weekly tests are conducted in each subject for all the classes during a semester. Failure to pass in at least two of these will debar a student from taking the selection/end semester examination.

b) **Mentoring Cells**


Each teacher is assigned a number of students to form a Mentoring Cell. The teacher is charged with the responsibility to monitor the progress of his/her ward.

c) **Attendance**

A student is required to have at least 80% attendance to be able to take the end semester examinations. Attendance is strictly monitored by the college administration and a student is debarred from appearing the said examinations if the required norm is not attained. Also proxy attendance is a serious and punishable offence.

GENERAL NORMS

- 1) The uniform is compulsory for every student. The blazer & tie is worn on Fridays and on any important occasion of the college. The T-shirt is worn on Tuesdays. Students are expected to respect the college uniform and the crest, and also wear the uniform with matching/appropriate trousers/skirt and shoes. The college discourages wearing blazer and/or tie with slippers or floaters, and low-cut trousers/jeans.
- 2) Each student is issued college Identity Card which also doubles as Library Card.
- 3) Transfer Certificate is issued after the student applies and surrenders the student Identity Card. However, students wishing to take a TC during the year shall have to apply along with the following:

- 
- a) Identity Card
 - b) Laboratory Clearance and Attendance Certificate from the HOD.
 - c) Clearance Certificate from:
 - i) Library
 - ii) Hostel Superintendent (For Boarders)
 - iii) NCC Officer (For Cadets)
 - 4) Immoral activities, public display of affection, and destructive acts including academic misconduct are strictly banned in the campus. A student guilty of any of these acts is liable to be expelled from the hostel and/or the college without any warning.
 - 5) Smoking and use of intoxicants are strictly forbidden in the college campus, and in the college buses.
 - 6) Communal and tribal harmony is to be preserved and promoted in the college.
 - 7) On joining the college each student is given the *Handbook for Students*. Students are responsible for reading this handbook and become familiar with its contents. Not knowing the contents does not preclude the student from being governed by the information provided.

KNOWLEDGE AND LEARNING RESOURCES

Libraries

The college is endowed with a number of libraries to meet the informative needs of the students and faculty. The Central Library both an intellectual and physical focal point for the campus. It has a large repository of books, journals, national and international magazines, newspapers, past exam question papers and project reports. The library has computers connected with dedicated broadband. Besides this, there are other libraries located in departmental buildings.

Book Bank

The Book Bank has text books on different subjects. Students can borrow text books on long term basis through this scheme in addition to the normal library services.



INFLIBNET

The college is a registered user of UGC-NLIST (National Library and Information Services Infrastructure for Scholarly Content) Programme, a project funded by the Ministry of Human Resources Development under its National Mission on Education through ICT. The N-LIST project provides access to more than 3800 journals, 80000 electronic books and bibliographic databases to students, researchers and faculty, and also allows authorised users to download articles directly from the publisher's website.

LAN, Broadband and College Website

These facilities have been sponsored by the children of one of the founding fathers, Late (Dr.) Neilhouzhū Kire. All academic departments, library and college office are networked by Local Area Network. Broadband connection of 2Mbps dedicated line is fed into the LAN through a proxy server. The entire academic campus is WiFi enabled. Students can surf the internet through ten PCs in Library and 30 Pcs from the computer laboratory.

The official website of the college: kscj.ac.in.

Institutional Biotech Hub

Funded by the Department of Biotechnology, India, the college has set up a Plant Tissue Culture Laboratory in order to provide training primarily to students of the college.

High-end Teaching Aids

The honours classrooms are fitted with interactive smart boards to enhance teaching-learning experience. Other classrooms will also be digitized soon.

“Earn While You Learn” Schemes: Entrepreneurship

A mini *Printing Press* unit has been established to undertake minor printing works such as printing of bulletins, programme sheets, booklets, brochures, etc. Also, interested students may opt for *Mushroom spawn production & cultivation* and *Floriculture* as a part of this scheme. Students participating in various levels of the said activities will be paid from the proceeds of sales, charges, etc.

AMENITIES

Accommodation

Kohima Science College has three hostels for boys (200 seats) and one for girls (100 seats). The hostels are centrally located with easy access to all day-to-day requirements including the Primary Health Centre, Bank (SBI with ATM facility) and the Post Office. Each hostel has a hall, a refectory, TV and single or shared accommodation. Apart from the academics, students are also exposed to sports and other cultural and religious activities. Seat allotment is strictly on merit basis and is monitored by a committee.

Each hostel has a Superintendent and a Prefect. The Prefect assists the Superintendent for the smooth administration of the hostel. Each hostel also has a Mess Committee which is headed by a Mess Assistant. It ensures that the food is clean, hygienic, of good quality, and on time. The kitchen is manned by experienced cooks.

All the boarders are expected to be actively involved in the smooth running of the hostel and help to maintain discipline and a healthy atmosphere.

Names of the Hostels and Superintendents

- | | |
|----------------------------|--------------------------|
| 1. Leone Hostel (Girls) | - Mrs. M. Amenla |
| 2. Lake View Hostel (Boys) | - Mr. Vesa Hiese |
| 3. New Boys' Hostel (Boys) | - Mr. Veta Nyienu |
| 4. Peak Hostel (Boys) | - Mr. Rokovikho Hesielle |

Transportation

The college has three buses pressed into regular service to commute students and staff to and from town. A nominal fee is charged for this service.

This transport service is also available for other activities as and when required. A pool vehicle is also available.

Health Centre, Bank, Post Office

The above mentioned facilities are all centrally located in the college campus and are therefore easily accessible to all.



Students Day Home

The spacious auditorium is the Students Day Home. Besides indoor games the auditorium is also used for literary and cultural functions.

Games and Sports

The games and sports facilities in the campus not only help the students train physically but also help them develop a sporting spirit. The college has a football field, a basketball court, and an auditorium which also doubles as the indoor stadium.

Value Addition

- Free Tutorial
- Founding Fathers Meritorious Award
- Dr. S.K. Dey Literary Award
- RockStar Award
- Workshops/Seminars
- Field Trips



EXTRA-CURRICULAR & EXTENSION ACTIVITIES

Kohima Science College Students Union

Every student of the college is automatically a member of the KSCSU. The Principal is the President of the union. The General Secretary and the other members of the executive are elected through the students' general election. The union looks after the interests and welfare of the students and assists the college administration in matters relating to discipline and decorum. It also organizes various co-curricular and extra-curricular activities and helps in the publication of the college magazine *Illume*. Our students have been regularly winning prizes in many district- and State-level competitions conducted by various Govt. departments, NCC, and NGOs.

National Cadet Corps (NCC)


The NCC, with the motto Duty and Discipline, is a fair-tier administration and is considered to be one of the largest and the most disciplined youth organizations in the country. The college has a very strong NCC unit and it has been regularly winning awards and recognition at the State and regional level.

The Army wing of the college falls under the jurisdiction of 24th NAGA (INDED) COY and the Care Taker Officer (CTO) are Ms. T. K. Medowe-u, Asstt. Prof., Deptt. of Geography and Mr. Savilie Yhor, Asstt. Prof., Deptt. of Chemistry.

The Air wing falls under the jurisdiction of No.1 (NL) AIR SQN, NCC (FIG) and the Associate NCC Officer is Mr. Nouné Terüno, Asstt. Prof., Deptt. of Anthropology. This is a good preparation for those who love discipline and are militarily inclined. Cadets may take the B Certificate Examination later on which helps one in getting into a military academy. Many of our alumni have been able to get into military service through the NCC.

National Service Scheme (NSS)

The NSS with the motto "Not Me but You" helps to develop the personality of a student through community service. This programme was formally launched by the Ministry of Education in 1969 to inculcate a sense of duty among the students in nation building, particularly in rural areas. The NSS is now under the



direct management of the Ministry of Youth Affairs, Govt. of India. Nagaland links with the centre through its State Liaison Officer (SLO), Deptt. of Sports & Youth Resources, Govt. of Nagaland. Volunteers can earn an A or B Certificate in college which becomes handy later on in getting into a university or a job. The College has more than 500 volunteers, and its "adopted village" is Thekrünoma Khel, Jotsoma. The Programme Officers (POs) are Mr. Dziesevituo Angami, Mr. Wekhrolo Therie and Ms. Sharon Konyak.

Science Club, Photography Club, Nature Club, Red Ribbon Club, Youth Red Cross/Crescent

Students are encouraged to join any of these clubs and shoulder leadership responsibilities. These bodies including KSCSU, NCC, NSS, EU form the breadth of student organizations and they represent the full diversity of student needs and interests. However the college does not recognize tribal and other such bodies.

SpringFest

SpringFest is an extracurricular programme held to promote self-development and encourage maximum student participation without inter-group, -tribal rivalry. *SpringFest* is an extravaganza of sports, rollicking music, literary competition, flower show, food and games, painting and photography competition. The Flower Show is formally patronized and sponsored by the Department of Horticulture, Govt. of Nagaland. The *Spring Festival* is an annual affair.

Evangelical Union (EU)

The EU, Kohima Science College, is one of the strongest EUs in the north-east. Once the new academic session begins a Hostel Penetration programme is conducted for the new students to apprise them of the various EU programmes. However, membership is strictly voluntary. EU is interdenominational and not a church. The EU is affiliated to the Union of Evangelical Students of India (**UESI**) which is affiliated to International Fellowship of Evangelical Students (**IFES**).

Kohima Science College Teachers' Association (KSCTA)

This Association looks after the welfare of the teachers. The Association is affiliated to All India Federation of University and College Teachers Organization (AIFUCTO).

Students Grievance Redressal Cell

This Cell 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.

The members are:

- 1) Mr. Vesa Hiese, Assoc. Prof., Deptt. of Botany (Convenor)
- 2) Mrs. M. Amenla, Assoc. Prof., Deptt. of English
- 3) Mr. Veta Nyienyu, Asstt. Prof., Deptt. of Physics
- 4) Mr. Rokovikho Hesieli, Asstt. Prof., Deptt. of Chemistry

Disciplinary and Anti-Ragging Committee

This committee has been formed under the directive of the Hon'ble Supreme Court of India through the Nagaland University. Ragging has always been looked upon as a serious offence by the Kohima Science College and it shall continue to campaign against ragging. This committee shall also look into any other disciplinary problems, including eve-teasing, should they arise.

The members of this committee are:

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|--|----------------|
| 1. Principal | - Convenor |
| 2. Vice Principal | - Member Secy. |
| 3. Hostel Superintendent, Leone Hostel | - Member |
| 4. Hostel Superintendent, Peak Hostel | - Member |
| 5. Hostel Superintendent, Lake View Hostel | - Member |
| 6. Hostel Superintendent, New Boys' Hostel | - Member |
| 7. Mrs. Katasinliu Remmei, Asstt. Prof., Deptt. of Zoology | - Member |
| 8. Dr. T. Tiakaba Jamir, Asstt. Prof., Deptt. of Chemistry | - Member |
| 9. General Secretary, KSCSU | - Member |



Research and Consultancy Committee

Headed by Dr. S. N. Pandey as the convener, the committee endeavours to encourage research activities among the teaching faculty of the college. It also compiles the works done by teachers.

Alumni Association

Headed by Mr. Renthungo Jungio as President, and Ms. Avelu Ruho as General Secretary, the Association works in close association with college fraternity with a view to uplift the College. Presently, it is actively engaged in raising fund for the construction of a 50-bedded Girls' Hostel.

Parents Teachers Association (PTA)

PTA is formed to facilitate and encourage parental participation in the college. The association is headed by Er. Visekholie Nakhro, Superintending Engineer, Deptt. of Power, as its President.

Career Guidance and Placement Cell

This cell advises and gives access to career resources to the students. It also organizes consultation and arranges interaction with alumni to help the students seek and attain their professional goals. This cell helps student by providing relevant academic and career information so that the students are up-to-date with employment trends and options.

This six-member cell is headed by Mrs. R. Moasangla Jamir, Assoc. Prof., Department of Anthropology.

Faculty and Administrative Staff Grievance Cell

This cell has been set up in order to facilitate redressal of grievances of the staff of the college.

1. Mr. Imlaba Longkumer, Assoc. Prof., Deptt. of Zoology - Convenor
2. Mrs. Meripeni, Asstt. Prof., Deptt. of Physics - Secretary
3. Mr. Imlitemjen, Assoc. Prof., Deptt of Geography - Member
4. Mrs. Vineino Rhetso, Asstt. Prof., Deptt. of Chemistry - Member

SCHOLARSHIP AND AWARDS

Founding Fathers Meritorious Award

Apart from the Post-Matric Scholarships given by the government to economically weak and/or merit students, some other awards (certificate and cash) instituted by the college and sponsored by the faculty are available annually to gold medallists and subject toppers in the final examinations.

They are:

Award	Subject
1. Dr. Neillhouzhü K. Angami Meritorious Award	<i>Life Sciences</i>
2. Mr. Keduonyü Sekhose Meritorious Award	<i>Humanities</i>
3. Rev. Haizotuo Munshi Meritorious Award	<i>Mathematics</i>
4. Mr. Akum Imlong Meritorious Award	<i>Chemistry</i>
5. Mr. J. B. Jasokie Meritorious Award	<i>Earth Science</i>
6. Mr. U. M. Deb Meritorious Award	<i>Statistics</i>
7. Mr. Vizol Angami Meritorious Award	<i>Physics</i>

Dr. S. K. Dey Literary Award

The award is privately sponsored by a group of his admirers and friends and approved by the college authority. It comprises a cash prize and a Commendation Certificate. This annual Award is given to the best original poem/essay/short story or any other genre in the Literary Competition held during *SpringFest*.

Rock Star Award

Rock Star Award is a coveted award among the students of Geology. It is presented annually and is sponsored by the alumni of Geology Department. This award is awarded to a student securing the highest mark in B.Sc. 2nd year (i.e. B.Sc. 3rd & 4th semesters). This award was constituted in 2011 by the alumni to encourage the students to develop interest in the subject and to bring out the best in them through positive competitive spirit. This award carries a citation along with a cash prize.



Graduate and Post Graduate Syllabi Outlines, Career Prospect and Faculty

Kohima Science College, Jotsoma was granted academic autonomy in 2014. The college holds its own examination and award certificate after it is endorsed by Nagaland University. The college offers graduate degree course, the duration of which is six semesters (three years) and post graduate degree course, the duration of which is four semesters (two years).

A general guideline regarding the graduate and post graduate syllabi and career prospects is laid out in the following tables.

B.Sc. Programme in Anthropology



ANTHROPOLOGY

SEMESTER	COURSE	COURSE NAME	COURSE CODE	CREDIT
I	Core 1	Introduction to Biological Anthropology (Theory)	ANC 1.11	4
		Introduction to Biological Anthropology (Practical)	ANC 1.12	2
	Core 2	Introduction to Social Anthropology (Theory)	ANC 1.21	4
		Introduction to Social Anthropology (Practical)	ANC 1.22	2
II	Core 3	Archaeological Anthropology (Theory)	ANC 2.11	4
		Archaeological Anthropology (Practical)	ANC 2.12	2
	Core 4	Fundamentals of Human Origin & Evolution (Theory)	ANC 2.21	4
		Fundamentals of Human Origin & Evolution (Practical)	ANC 2.22	2
III	Core 5	Tribes and Peasants in India (Theory)	ANC 3.11	4
		Tribes and Peasants in India (Practical)	ANC 3.12	2
	Core 6	Human Ecology: Biological & Cultural Dimensions (Theory)	ANC 3.21	4
		Human Ecology: Biological & Cultural Dimensions (Practical)	ANC 3.22	2
	Core 7	Biological Diversity in Human Populations (Theory)	ANC 3.31	4
		Biological Diversity in Human Populations (Practical)	ANC 3.32	2
	Skill Enhancement Course 1	Tourism Anthropology	ANS 3.11	2
IV	Core 8	Theories of Culture & Society (Theory)	ANC 4.11	4
		Theories of Culture & Society (Practical)	ANC 4.12	2
	Core 9	Human Growth and Development (Theory)	ANC 4.21	4
		Human Growth and Development (Practical)	ANC 4.22	2
	Core 10	Research Methods (Theory)	ANC 4.31	4
		Research Methods (Practical)	ANC 4.32	2
	Skill Enhancement Course 2	Anthropology of Disaster	ANS 4.11	2

V	Core 11	Human Population Genetics (Theory)	ANC 5.11	4
		Human Population Genetics (Practical)	ANC 5.12	2
	Core 12	Anthropology in Practice (Theory)	ANC 5.21	4
		Anthropology in Practice (Practical)	ANC 5.22	2
	Discipline Specific Elective 1	Sports and Nutritional Anthropology (Theory) OR Forensic Dermatoglyphics (Theory)	AND 5.11(a) AND 5.11(b)	4
		Sports and Nutritional Anthropology (Practical) OR Forensic Dermatoglyphics (Practical)	AND 5.12(a) AND 5.12(b)	2
	Discipline Specific Elective 2	Anthropology of Health (Theory) OR Tribal Cultures of India (Theory)	AND 5.21(a) AND 5.21(b)	4
		Anthropology of Health (Practical) OR Tribal Cultures of India (Practical)	AND 5.22(a) AND 5.22(b)	2
	Core 13	Forensic Anthropology (Theory)	ANC 6.11	4
		Forensic Anthropology (Practical)	ANC 6.12	2
VI	Core 14	Anthropology of India (Theory)	ANC 6.21	4
		Anthropology of India (Practical)	ANC 6.22	2
	Discipline Specific Elective 3	Indian Archaeology (Theory) OR Palaeo-anthropology (Theory)	AND 6.11(a) AND 6.11(b)	4
		Indian Archaeology (Practical) OR Palaeo-anthropology (Practical)	AND 6.12(a) AND 6.12(b)	2
	Discipline Specific Elective 4	Dissertation / Project Work	AND 6.21	6

M.Sc. Programme in Anthropology

SEMESTER	COURSE CODE	COURSE NAME	CREDITS
I	MANC1.11	Core Course in Physical Anthropology	4
	MANC1.21	Core Course in Socio cultural Anthropology	4
	MANC1.31	Introduction to European and African Prehistory and issues in Archaeology	4
	MANC1.12	Core Course in Physical Anthropology (Practical)	2
	MANC1.22	Core Course in Socio cultural Anthropology (Practical)	2
	MANC1.32	Introduction to European and African Prehistory and issues in Archaeology (Practical)	2
II	MANC2.11	Human Origin and Evolution	4
	MANC2.21	Ethnography: Theory and Methods	2
	MANC2.31	Asian Prehistoric Archaeology	4
	MANO2.11	Research method (Open)	6
	MANC2.12	Human Origin and Evolution (Practical)	2
SPECIALIZATION			
III		Specialization Physical/Biological	
	MANC3.11	Human genetics and variation	4
	MANC3.21	Human growth and development	4
	MANC3.31	Palaeoanthropology	2
	MANO3.11	Human Ecology, Adaptation and Demography (Open)	6
	MANC3.41	Fieldwork*	2
		Specialization Social/Cultural	
	MANO3.11	Human Ecology, Adaptation and Demography(Open)	6
	MANC3.41	Fieldwork*	2
	MANC3.51	Anthropology of India	4
	MANC3.61	Economy and Culture	4
	MANC3.71	Anthropology of North-East India	2
IV		Specialization Physical/Biological	
	MANC4.11	Forensic anthropology	4
	MANC4.21	Dental anthropology	2
	MANC4.31	Physiological anthropology	4
	MANC4.41	Dissertation and Viva voce	6
	MANC4.12	Forensic anthropology (Practical)	2
		Specialization Social/Cultural	
	MANC4.41	Dissertation and Viva voce	6
	MANC4.51	Theories in Anthropology	4
	MANC4.61	Development Anthropology	4
	MANC4.71	Culture, Health and Medicine	4

Career Prospects in Anthropology

Competitive exams at the international, national (UPSC), and state level, teaching and research, health and medical sectors, public administration, environmental services, counselling, planning, development, museum, crime investigation, industries/business, sports, designing equipments, excavation of archaeological sites, conservation and protection of cultural heritages, Researchers, consultants, policy makers, and analyst in UNESCO, UNICEF, NACO, NSACS, etc.

Faculty Profile

1. Mrs. R. Moasangla Jamir, M.Sc.	Associate Prof. & Head
2. Ms. Kevilhuninuo Nagi, M.A.	Associate Professor
3. Ms. J. Sharon, M.Sc., NET	Assistant Professor
4. Ms. Moarenla Longkumer, M.A., NET	Assistant Professor
5. Ms. Khriekemhieü K. Mary, M.Sc., NET	Assistant Professor
6. Mrs. Shetsotalü Nakro, M.Sc., NET	Assistant Professor
7. Mr. Imkumlong, M.Sc., NET	Assistant Professor
8. Dr. David Tetso, M.A., Ph.D.	Assistant Professor
9. Mr. Nouné Terüno, M.Sc., NET	Assistant Professor

B.Sc. Programme in Botany

SEMESTER	COURSE	COURSE NAME	COURSE CODE	CREDIT
I	Core 1	Phycology and Microbiology (Theory)	BOC 1.11	4
		Phycology and Microbiology (Practical)	BOC 1.12	2
	Core 2	Biomolecules and Cell Biology (Theory)	BOC 1.21	4
		Biomolecules and Cell Biology (Practical)	BOC 1.22	2
II	Core 3	Mycology and Phytopathology (Theory)	BOC 2.11	4
		Mycology and Phytopathology (Practical)	BOC 2.12	2
	Core 4	Archegoniate (Theory)	BOC 2.21	4
		Archegoniate (Practical)	BOC 2.22	2
III	Core 5	Morphology and Anatomy (Theory)	BOC 3.11	4
		Morphology and Anatomy (Practical)	BOC 3.12	2
	Core 6	Economic Botany (Theory)	BOC 3.21	4
		Economic Botany (Practical)	BOC 3.22	2
	Core 7	Genetics (Theory)	BOC 3.31	4
		Genetics (Practical)	BOC 3.32	2
	Skill Enhancement Course 1	Floriculture	BOS 3.11	2
IV	Core 8	Molecular Biology (Theory)	BOC 4.11	4
		Molecular Biology (Practical)	BOC 4.12	2
	Core 9	Plant Ecology and Phytogeography (Theory)	BOC 4.21	4
		Plant Ecology and Phytogeography (Practical)	BOC 4.22	2
	Core 10	Plant Systematics (Theory)	BOC 4.31	4
		Plant Systematics (Practical)	BOC 4.32	2
	Skill Enhancement Course 2	Mushroom Culture Technology	BOS 4.11	2
V	Core 11	Reproductive Biology of Angiosperms (Theory)	BOC 5.11	4
		Reproductive Biology of Angiosperms (Practical)	BOC 5.12	2
	Core 12	Plant Physiology (Theory)	BOC 5.21	4
		Plant Physiology (Practical)	BOC 5.22	2
	Discipline Specific Elective 1	Plant Breeding (Theory)	BOD 5.11	4
		Plant Breeding (Practical)	BOD 5.12	2
	Discipline Specific Elective 2	Natural Resource Management (Theory)	BOD 5.21	4
		Natural Resource Management (Practical)	BOD 5.22	2
VI	Core 13	Plant Metabolism (Theory)	BOC 6.11	4
		Plant Metabolism (Practical)	BOC 6.12	2
	Core 14	Plant Biotechnology (Theory)	BOC 6.21	4
		Plant Biotechnology (Practical)	BOC 6.22	2
	Discipline Specific Elective 3	Research Methodology (Theory)	BOD 6.11	4
		Research Methodology (Practical)	BOD 6.12	2
	Discipline Specific Elective 4	Biostatistics (Theory)	BOD 6.21	4
		Biostatistics (Practical)	BOD 6.22	2

M.Sc. Programme in Botany

SEMESTER	COURSE CODE	COURSE NAME	CREDIT
I	MBOC 1.11	Mycology, Plant Pathology and Microbiology	4
	MBOC 1.12	Mycology, Plant Pathology and Microbiology(Practical)	2
	MBOC 1.21	Algae, Bryophytes and Pteridophytes	4
	MBOC 1.22	Algae, Bryophytes and Pteridophytes(Practical)	2
	MBOC 1.31	Gymnosperms and Plant Anatomy	4
	MBOC 1.32	Gymnosperms and PlantAnatomy(Practical)	2
II	MBOC 2.11	Plant Taxonomy and Economic Botany	4
	MBOC 2.12	Plant Taxonomy and Economic Botany(Practical)	2
	MBOC 2.21	Plant Biochemistry and Molecular Biology	4
	MBOC 2.22	Plant Biochemistry and Molecular Biology (Practical)	2
	MBOO 2.11	Bioprocess Development	2
	MBOO 2.21	Rights and Issues in Biology	2
	MBOO 2.31	Techniques in Molecular Biology	2
III	MBOC 3.11	Genetics, Cytogenetics and Plant Breeding	4
	MBOC 3.12	Genetics, Cytogenetics and Plant Breeding(Practical)	2
	MBOC 3.21	Plant Physiology	4
	MBOC 3.22	Plant Physiology (Practical)	2
	MBOO 3.11	Biodiversity and Phytogeography	2
	MBOO 3.21	Environmental Pollution and Conservation	2
	MBOO 3.31	Biostatistics	2
IV	MBOC 4.11	Plant Reproductive Biology and Biotechnology	4
	MBOC 4.12	Plant Reproductive Biology and Biotechnology (Practical)	2
	MBOC 4.21	Plant Ecology and Ecosystem Analysis	4
	MBOC 4.22	Plant Ecology and Ecosystem Analysis(Practical)	2
	MBOC 4.31	Project Work	6

Career Prospects in Botany

Biochemistry, Bioinformatics, Biotechnology, Food Technology, Forensic Science, Forestry, Horticulture, Microbiology, Soil, Nutrition, Health, Wildlife, Marine Biotechnology, Plant Physiology, Sericulture, Horticulture, Plant Ecology, Mushroom Culture, Teaching, Research.

Faculty Profile

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|--|--------------------------------------|
| 1. Mrs. Tokheni Sema, M.Sc. | Associate Professor & Vice Principal |
| 2. Ms. Sungtinaro Jamir, M.Sc. | Associate Professor & Head |
| 3. Mr. Vimhakhoh Mekro, M.Sc., L.L.B. | Associate Professor |
| 4. Mr. Vesa Hiese, M.Sc. | Associate Professor |
| 5. Mr. Temjenwabang, M.Sc. | Associate Professor |
| 6. Mr. Wenyitso kapfo, M.Sc., NET | Assistant Professor |
| 7. Mr. Wekhrolo Therie, M.Sc., NET | Assistant Professor |
| 8. Dr. Mhathung Yathan, M.Sc., Ph.D., NET | Assistant Professor |
| 9. Mr. Tosovil Neikha, M.Sc. | Assistant Professor |
| 10. Dr. Samadangla Ao M.Sc., Ph.D., NET | Assistant Professor |
| 11. Mr. Keneizoulhou Kesiezie, M.Sc., B.Ed., NET | Assistant Professor |
| 12. Dr. Moaakum, M.Sc., Ph.D. | Assistant professor |
| 13. Dr. Khrienuo Angami, M.Sc., M.Phil., Ph.D. | Assistant professor |

B.Sc. Programme in Chemistry

SEMESTER	COURSE	COURSE NAME	COURSE CODE	CREDIT
I	Core 1	Inorganic Chemistry I(Theory)	CHC 1.11	4
		Inorganic Chemistry I(Practical)	CHC 1.12	2
	Core 2	Physical Chemistry I(Theory)	CHC 1.21	4
		Physical Chemistry I(Practical)	CHC 1.22	2
II	Core 3	Organic Chemistry I(Theory)	CHC 2.11	4
		Organic Chemistry I(Practical)	CHC 2.12	2
	Core 4	Physical Chemistry II(Theory)	CHC 2.21	4
		Physical Chemistry II(Practical)	CHC 2.22	2
III	Core 5	Inorganic Chemistry II(Theory)	CHC 3.11	4
		Inorganic Chemistry II(Practical)	CHC 3.12	2
	Core 6	Organic Chemistry II(Theory)	CHC 3.21	4
		Organic Chemistry II(Practical)	CHC 3.22	2
	Core 7	Physical Chemistry III(Theory)	CHC 3.31	4
		Physical Chemistry III(Practical)	CHC 3.32	2
	Skill Enhancement Course 1	Pesticide Chemistry (Theory & Practical)	CHS 3.11(a)	2
		Fuel Chemistry (Theory & Practical)	CHS 3.11(b)	
IV	Core 8	Inorganic Chemistry III(Theory)	CHC 4.11	4
		Inorganic Chemistry III (Practical)	CHC 4.12	2
	Core 9	Organic Chemistry III(Theory)	CHC 4.21	4
		Organic Chemistry III(Practical)	CHC 4.22	2
	Core 10	Physical Chemistry IV(Theory)	CHC 4.31	4
		Physical Chemistry IV(Practical)	CHC 4.32	2
	Skill Enhancement Course 2	Chemical Technology & Society (Theory & Practical)	CHS 4.11(a)	2
		Pharmaceutical Chemistry (Theory & Practical)	CHS 4.11(b)	
		Chemistry of Cosmetics & Perfumes (Theory & Practical)	CHS 4.11(c)	



V	Core 11	Organic Chemistry IV (Theory)	CHC 5.11	4
		Organic Chemistry IV (Practical)	CHC 5.12	2
	Core 12	Physical Chemistry V (Theory)	CHC 5.21	4
		Physical Chemistry V (Practical)	CHC 5.22	2
	Discipline Specific Elective 1	Analytical Methods in Chemistry (Theory) or Polymer Chemistry (Theory)	CHD 5.11(a) CHD 5.11(b)	4
		Analytical Methods in Chemistry (Practical) or Polymer Chemistry (Practical)	CHD 5.12(a) CHD 5.12(b)	2
	Discipline Specific Elective 2	Green Chemistry (Theory) or Novel Inorganic Solids (Theory)	CHD 5.21(a) CHD 5.21(b)	4
		Green Chemistry (Practical) or Novel Inorganic Solids (Practical)	CHD 5.22(a) CHD 5.22(b)	2
	Core 13	Inorganic Chemistry IV (Theory)	CHC 6.11	4
		Inorganic Chemistry IV (Practical)	CHC 6.12	2
VI	Core 14	Organic Chemistry V (Theory)	CHC 6.21	4
		Organic Chemistry V (Practical)	CHC 6.22	2
	Discipline Specific Elective 3	Industrial Chemicals & Environment (Theory) or Research Methodology in Chemistry (Theory)	CHD 6.11(a) CHD 6.12(b)	4
		Industrial Chemicals & Environment (Practical) or Research Methodology in Chemistry (Practical)	CHD 6.12(a) CHD 6.12(b)	2
	Discipline Specific Elective 4	Inorganic Materials of Industrial Importance (Theory) or Instrumental Method of Chemicals (Theory)	CHD 6.21(a) CHD 6.21(b)	4
		Inorganic Materials of Industrial Importance (Practical) or Instrumental Method of Chemicals (Practical)	CHD 6.22(a) CHD 6.22(b)	2

M.Sc. Programme in Chemistry

SEMESTER	COURSE CODE	COURSE NAME	CREDITS
I	MCHC 1.11	Inorganic ChemistryI	4
	MCHC 1.21	Organic ChemistryI	4
	MCHC 1.31	Physical ChemistryI	4
	MCHC 1.12	Lab course-I (Organic Chemistry)	6
II	MCHC 2.11	Inorganic ChemistryII	2
	MCHC 2.21	Organic ChemistryII	2
	MCHC 2.31	Physical ChemistryII	2
	MCHC 2.12	Lab Course-II (Inorganic Chemistry)	6
	MCHO 2.11	Open Choice	2
	MCHO 2.21	Open Choice	4
III	MCHC 3.11	Inorganic ChemistryIII	2
	MCHC 3.21	Organic ChemistryIII	2
	MCHC 3.31	Physical ChemistryIII	2
	MCHC 3.12	Lab Course-III (Physical Chemistry)	6
	MCHO 3.11	Open Choice	2
	MCHO 3.21	Open Choice	4
IV	MCHC 4.11	Inorganic ChemistryIV	4
	MCHC 4.21	Organic ChemistryIV	4
	MCHC 4.31	Physical ChemistryIV	4
	MCHC 4.41	Project Work	6

Career Prospect in Chemistry

Analytical Chemistry: Teacher, Lab Chemist, Production Chemist, research & Development Manager, Quality Controller, R&D Director, Chemical Engineering Associate, Biomedical Chemist, Industrial Research Scientist, Materials Technologist, Production Officer, Safety Health and Environment Specialist.

Industries/ Companies to which one can apply: Pharmaceutical, Agrochemical, Petrochemical, Toiletry, Textile, Educational, Industrial/Independent Laboratories, Technical Firms, Environmental Law, Plastic, Petroleum, Engineering Units, Chemical, Heavy Chemical Firms, Medical Research, Food Processing, Paint, Patent Law Firms, Space Exploration Agencies, Forensic Science, Ceramics, Paper, Military Systems.

Industrial Chemistry: Manager – Sales Force Automation, Biology Researcher, Chemist, Sales & Marketing, Laboratory Assistant, Teaching, Research, Oceanography and Marine Geology, Accounting and Material Officer, Pharmacist, Plant Biochemist, Research Associate, Science Adviser, Taxonomist.

Employment Areas: Universities, Manufacturing and Processing Firms, Seed and Nursery Organisation, Research and Development, Oil Industry, Biotechnology, Food Institute, Chemical Industry, Agricultural Research.

Government Sector: UPSC, BPSC, Banking, Railways Exam, SSC, Air force, Navy, Army, ISRO, BARC, DRDO, Bharat Petroleum, Indian Oil Cooperation, ONGC, Advanced Centre for Treatment, Teaching (schools, colleges, universities)

Faculty Profile

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|--|----------------------------|
| 1. Mr. N. Meren Ao, M.Sc. | Associate Professor & Head |
| 2. Dr. Krishna Kumar Tiwari, M.Sc., Ph.D. | Associate Professor |
| 3. Mrs. Sangeeta Vizo, M.Sc. | Associate Professor |
| 4. Dr. Vijay Kumar Choudhury, M.Sc., Ph.D. | Assistant Professor |
| 5. Dr. (Mrs.) R. Vineetha, M.Sc., Ph.D. | Assistant Professor |
| 6. Mr. Kenneth Punyü, M.Sc. | Assistant Professor |
| 7. Dr. T. Tiakaba Jamir, M.Sc., Ph.D., GATE | Assistant Professor |
| 8. Mr. Rokovikho Hesielie, M.Sc. | Assistant Professor |
| 9. Dr. (Mrs.) Neivotsonuo B. Kuotsu, M.Sc., B.Ed., Ph.D. | Assistant Professor |
| 10. Mrs. A. Chubarenla, M.Sc. | Assistant Professor |
| 11. Mrs. Vineinu Rhetso, M.Sc. | Assistant Professor |
| 12. Dr. Daniel Kibami, M.Sc., Ph.D. | Assistant Professor |
| 13. Mr. Savilie Yhor, M.Sc. | Assistant Professor |

B.Sc. Programme in Computer Science

SEMESTER	COURSE	COURSE NAME	COURSE CODE	CREDIT
I	Core 1	Programming Fundamentals using C(Theory)	CSC 1.11	4
		Programming Fundamentals using C (Practical)	CSC 1.12	2
	Core2	Computer System Architecture(Theory)	CSC 1.21	4
		Computer System Architecture(Practical)	CSC 1.22	2
II	Core 3	Data Structures(Theory)	CSC 2.11	4
		Data Structures(Practical)	CSC 2.12	2
	Core 4	Programming in Java(Theory)	CSC 2.21	4
		Programming in Java(Practical)	CSC 2.22	2
III	Core 5	Object Oriented Programming in C++ (Theory)	CSC 3.11	4
		Object Oriented Programming in C++(Practical)	CSC 3.12	2
	Core 6	Operating Systems(Theory)	CSC 3.21	4
		Operating Systems(Practical)	CSC 3.22	2
	Core 7	Computer Networks(Theory)	CSC 3.31	4
		Computer Networks(Practical)	CSC 3.32	2
	Skill Enhancement Course 1	HTML	CSS 3.11	2
IV	Core 8	Design and Analysis of Algorithms(Theory)	CSC 4.11	4
		Design and Analysis of Algorithms(Practical)	CSC 4.12	2
	Core 9	Software Engineering(Theory)	CSC 4.21	4
		Software Engineering(Practical)	CSC 4.22	2
	Core 10	Database Management Systems(Theory)	CSC 4.31	4
		Database Management Systems(Practical)	CSC 4.32	2
	Skill Enhancement Course 2	Programming in MATLAB	CSS 4.11	2
V	Core 11	Internet Technologies(Theory)	CSC 5.11	4
		Internet Technologies(Practical)	CSC 5.12	2
	Core 12	Theory of Computation (Theory)	CSC 5.21	5
		Theory of Computation(Tutorial)	CSC 5.22	1
	Discipline Specific Elective 1	PHP Programming (Theory)	CSD 5.11	4
		PHP Programming (Practical)	CSD 5.11	2
	Discipline Specific Elective 2	Programming in Visual Basic (Theory)	CSD 5.21	4
		Programming in Visual Basic (Practical)	CSD 5.22	2
VI	Core 13	Artificial Intelligence(Theory)	CSC 6.11	5
		Artificial Intelligence(Tutorial)	CSC 6.12	1
	Core 14	Computer Graphics(Theory)	CSC 6.21	4
		Computer Graphics(Practical)	CSC 6.22	2
	Discipline Specific Elective 3	Cloud Computing (Theory)	CSD 6.11	4
		Cloud Computing (Practical)	CSD 6.12	2
	Discipline Specific Elective 4	Project Work / Dissertation	CSD 6.21	6



Computer Science

Computer science (CS) spans the range from theory through programming to cutting-edge development of computing solutions. Computer science offers a foundation that permits graduates to adapt to new technologies and new ideas. The work of computer scientists falls into three categories: a) designing and building software; b) developing effective ways to solve computing problems, such as storing information in databases, sending data over networks or providing new approaches to security problems; and c) devising new and better ways of using computers and addressing particular challenges in areas such as robotics, computer vision, or digital forensics.

Career Prospect in Computer Science

Software Engineer or Software Developer, Computer Programmer, Hardware Designer, Systems Analyst, Network and System Administrator, Technical Support or Support Engineer, Technical Writer, Microprocessor System Designer.

Faculty Profile

- | | |
|---------------------------------------|---------------------------------------|
| 1. Dr. Prajadhip Sinha, M.Sc., Ph.D. | <i>Assistant Professor & Head</i> |
| 2. Ms. Nuzotalu M. Veyie, B.E., M.Sc. | <i>Assistant Professor</i> |
| 3. Mr. Modozho Mathew, B.E., M.Sc. | <i>Assistant Professor</i> |

B.A. Programme in English

SEMESTER	COURSE	COURSE NAME	COURSE CODE	CREDIT
I	Core 1	Indian Classical Literature	ENC 1.11	6
	Core 2	European Classical Literature	ENC 1.21	6
II	Core 3	Indian Writing in English	ENC 2.11	6
	Core 4	British Poetry & Drama (14 th to 17 th Centuries)	ENC 2.21	6
III	Core 5	American Literature	ENC 3.11	6
	Core 6	Popular Literature	ENC 3.21	6
	Core 7	British Poetry & Drama (17 th & 18 th Centuries)	ENC 3.31	6
	Skill Enhancement Course 1	Creative Writing	ENS 3.11	2
IV	Core 8	British Literature (18 th Century)	ENC 4.11	6
	Core 9	British Romantic Literature	ENC 4.21	6
	Core 10	British Literature (19 th Century)	ENC 4.31	6
	Skill Enhancement Course 2	English Language Teaching	ENS 4.11	2
V	Core 11	Women's Writing	ENC 5.11	6
	Core 12	British Literature: The Early 20 th Century	ENC 5.21	6
	Discipline Specific Elective 1	Literary Criticism	END 5.11	6
	Discipline Specific Elective 2	Science Fiction & Detective Literature	END 5.21	6
VI	Core 13	Modern European Drama	ENC 6.11	6
	Core 14	Post Colonial Literatures	ENC 6.21	6
	Discipline Specific Elective 3	Literary Theory	END 6.11	6
	Discipline Specific Elective 4	Travel writing or Dissertation/project work	END 6.21	6



Generic Elective Options for B.A. Honours in English

Generic Elective I (Semester I) : Foundation of Physical Anthropology
OR
Introduction to Physical Geography

Generic Elective II (Semester II) : Foundation of Social and Cultural Anthropology
OR
Human Geography

Generic Elective III (Semester III) : Foundation of Archaeological Anthropology
OR
Geography of India

Generic Elective IV (Semester IV) : Tools and Techniques of Research Methodology
OR
Regional Geography of Northeast India and Nagaland

Career Prospect in English

Writing & Composing (Creative/block/critical), Translation (Written/oral), Teaching (Pre-school to university), Research, Civil Service, Tutors of Spoken English, Journalism, Media industry (Radio & TV), Tourism, Sales representative, Receptionist, (BPOs, offices, marts), PROs, Spokesperson, Programme presenting, Linguistics, Psycho-/Socio-Linguistics.

Faculty Profile

- | | |
|--|------------------------|
| 1. Mrs. M. Amenla, M.A. | Associate Prof. & Head |
| 2. Dr. (Mrs) Kelhouletuonuo, M.A., Ph.D. | Associate Professor |
| 3. Mrs. Narola Imchen, M.A. | Assistant Professor |
| 4. Dr. Seyiekhrielie Whiso, M.A., Ph.D., NET | Assistant Professor |
| 5. Ms. Kevitsunuo Linyü, M.A. | Assistant Professor |
| 6. Mr. Richard Dzüvichü, M.A. | Assistant Professor |
| 7. Ms. Eyovono Tase, M.A. | Assistant Professor |

Department of Tenyidie

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|---|------------------------|
| 1. Ms. Vizomenuo Merlyn Yhome, M.A. | Asst. Professor & Head |
| 2. Ms. Shepolü, M.A. | Assistant Professor |
| 3. Mr. Kevimedo Keyho, M.A. (attached to Baptist College) | Assistant Professor |
| 4. Ms. Vilehunuo, M.A. | Assistant Professor |

B.Sc. Programme in Geography

SEMESTER	COURSE	COURSE NAME	COURSE CODE	CREDIT
I	Core 1	Physical Geography(Theory)	GGC 1.11	4
		Thematic Cartography I(Practical)	GGC 1.12	2
	Core 2	Geomorphology(Theory)	GGC 1.21	4
		Cartographic Techniques I(Practical)	GGC 1.22	2
II	Core 3	Climatology(Theory)	GGC 2.11	4
		Graphical Representation of Weather Data (Practical)	GGC 2.12	2
	Core 4	Human Geography(Theory)	GGC 2.21	4
		General Cartography I(Practical)	GGC 2.22	2
III	Core 5	Economic Geography(Theory)	GGC 3.11	4
		Socio-Economic Survey(Practical)	GGC 3.12	2
	Core 6	Resource Geography(Theory)	GGC 3.21	4
		Map Projection I(Practical)	GGC 3.22	2
	Core 7	Hydrology and Oceanography(Theory)	GGC 3.31	4
		Map Projection II(Practical)	GGC 3.32	2
	Skill Enhancement Course 1	Remote Sensing (Practical) OR Advanced Spatial Statistical Techniques (Practical)	GGC 3.12(a) GGC 3.12(b)	2
IV	Core 8	Environmental Geography and Disaster Management(Theory)	GGC 4.11	4
		Environmental and Disaster Based Project Work(Practical)	GGC 4.12	2
	Core 9	Settlement Geography(Theory)	GGC 4.21	4
		Survey II (Practical)	GGC 4.22	2
	Core 10	Geography of India(Theory)	GGC 4.31	4
		Cartographic Technique II(Practical)	GGC 4.32	2
	Skill Enhancement Course 2	Geographical Information System (Practical) or Research Methods (Practical)	GGC 4.12(a) GGC 4.12(b)	2
V	Core 11	Regional Geography of Northeast India (Theory)	GGC 5.11	4
		Data Based on Northeast India (Practical)	GGC 5.12	2
	Core 12	Regional Planning and Development (Theory)	GGC 5.21	4
		Practical	GGC 5.22	2
	Discipline Specific Elective 1	Demography (Theory) OR Geography of Health and Wellbeing (Theory)	GGD 5.11(a) GGD 5.11(b)	4
		Cartographic Technique I (Practical)	GGD 5.12	2
	Discipline Specific Elective 2	Social Geography (Theory) OR Geography of Tourism (Theory)	GGD 5.21(a) GGD 5.21(b)	4
		Presentation (Practical)	GGD 5.22	2



VI	Core 13	Advanced Geomorphology (Theory)	GGC 6.11	4
		Cartographic Technique III (Practical)	GGC 6.12	2
	Core 14	Geography of Nagaland (Theory)	GGC 6.21	4
		Field Study and Report (Practical)	GGC 6.22	2
	Discipline Specific Elective 3	Agriculture Geography (Theory) OR Urban Geography (Theory)	GGD 6.11(a) GGD 6.11(b)	4
		Graphical Representation of Data (Practical)	GGD 6.12	2
		Political Geography (Theory)	GGD 6.21	4
	Discipline Specific Elective 4	Cartographic Technique II (Practical)	GGD 6.22	2
		OR Dissertation	GGD 6.23	6

Career Prospect in Geography

Civil Services, Teaching (Colleges/Universities), Researcher, Meteorology (Climatologist), GIS and Remote Sensing (GIS/Remote Sensing Specialist), Geoinformatics, Urban and Rural Development/ Community Development (Planning), Cartographer/ SOI (Surveyor, Drafter), Environmental & Disaster Management, Soil & Water Conservation.

Faculty Profile

- | | |
|---|------------------------|
| 1. Mr. Imlitemjen Jamir, M.A. | Associate Prof. & Head |
| 2. Mr. Thuyekhai Ringa, M.A. | Associate Professor |
| 3. Ms. Rongdensüngla Longkumer, M.Sc. | Assistant Professor |
| 4. Dr. Sakhoveyi Lohe, M.Sc., Ph.D. | Assistant Professor |
| 5. Mr. Selie Puro, M.Sc. | Assistant Professor |
| 6. Ms. T.K. Medoweü, M.Sc. | Assistant Professor |
| 7. Ms. Zakali Ayemi, M.A., M.Phil., NET | Assistant Professor |

B.Sc. Programme in Geology

SEMESTER	COURSE	COURSE NAME	COURSE CODE	CREDIT
I	Core 1	Earth System Science(Theory)	GLC 1.11	4
		Earth System Science(Practical)	GLC 1.12	2
	Core 2	Mineral Science(Theory)	GLC 1.21	4
		Mineral Science(Practical)	GLC 1.22	2
II	Core 3	Elements of Geochemistry (Theory)	GLC 2.11	4
		Elements of Geochemistry (Practical)	GLC 2.12	2
	Core 4	Structural Geology (Theory)	GLC 2.21	4
		Structural Geology (Practical)	GLC 2.22	2
III	Core 5	Igneous Petrology (Theory)	GLC 3.11	4
		Igneous Petrology(Practical)	GLC 3.12	2
	Core 6	Sedimentary Petrology (Theory)	GLC 3.21	4
		Sedimentary Petrology (Practical)	GLC 3.22	2
	Core 7	Palaeontology(Theory)	GLC 3.31	4
		Palaeontology(Practical)	GLC 3.32	2
	Skill Enhancement Course 1	Field Work I- Basic Field Training	GLS 3.12	2
IV	Core 8	Metamorphic Petrology (Theory)	GLC 4.11	4
		Metamorphic Petrology (Practical)	GLC 4.12	2
	Core 9	Stratigraphic Principles and Indian Stratigraphy (Theory)	GLC 4.21	4
		Stratigraphic Principles and Indian Stratigraphy(Practical)	GLC 4.22	2
	Core 10	Hydrogeology(Theory)	GLC 4.31	4
		Hydrogeology(Practical)	GLC 4.32	2
	Skill Enhancement Course 2	Field Work II		
		(i) Precambrian Geology OR (ii) Tertiary Geology OR (iii) Economic Geology	GLS 4.12(a) GLS 4.12(b) GLS 4.12(c)	2
V	Core 11	Economic Geology (Theory)	GLC 5.11	4
		Economic Geology (Practical)	GLC 5.12	2
	Core 12	Geomorphology (Theory)	GLC 5.21	4
		Geomorphology (Practical)	GLC 5.22	2
	Discipline Specific Elective 1	Exploration Geology(Theory) OR Evolution of Life through Time (Theory)	GLD 5.11(a) GLD 5.11(b)	4
		Exploration Geology(Practical) OR Evolution of Life through Time (Practical)	GLD 5.12(a) GLD 5.12(b)	2
	Discipline Specific Elective 2	Geology of Nagaland(Theory) OR Introduction to Geophysics (Theory)	GLD 5.21(a) GLD 5.21(b)	4
		Geology of Nagaland(Practical) OR Introduction to Geophysics (Practical)	GLD 5.22(a) GLD 5.22(b)	2



GEOLOGY

VI	Core 13	Engineering Geology (Theory)	GLC 6.11	4
		Engineering Geology (Practical)	GLC 6.12	2
	Core 14	Remote Sensing and GIS (Theory)	GLC 6.21	4
		Remote Sensing and GIS (Practical)	GLC 6.22	2
	Discipline Specific Elective 3	Environmental Geology (Theory) OR Urban Geology (Theory)	GLD 6.11(a) GLD 6.11(b)	4
		Environmental Geology (Practical) OR Urban Geology (Practical)	GLD 6.12(a) GLD 6.12(b)	2
	Discipline Specific Elective 4	Fuel Geology (Theory) OR Earth and Climate (Theory)	GLD 6.21(a) GLD 6.21(b)	4
		Fuel Geology (Practical) OR Earth and Climate (Practical)	GLD 6.22(a) GLD 6.22(b)	2

M.Sc. Programme in Geology

Semester	Course	Course Name	Credits
I	Core	Geomorphology, Structural Geology & Tectonics	4
	Core	Geomorphology, Structural Geology & Tectonics Practical	2
	Core	Palaeobiology & Stratigraphy	4
	Core	Palaeobiology & Stratigraphy Practical	2
	Core	Mineralogy, Crystallography & Analytical Techniques	4
	Core	Mineralogy, Crystallography & Analytical Techniques Practical	2
II	Core	Igneous, Sedimentary & Metamorphic Petrology	4
	Core	Igneous, Sedimentary & Metamorphic Petrology Practical	2
	Core	Ore Geology, Mineral Exploration & Mining Geology	4
	Core	Ore Geology, Mineral Exploration & Mining Geology Practical	2
	Open	Remote Sensing in Geosciences	4
	Open	Remote Sensing in Geosciences Practical	2
III	Core	Engineering Geology & Hydrogeology	4
	Core	Engineering Geology & Hydrogeology Practical	2
	Core	Fuel Geology & Geochemistry	4
	Core	Environment Geology Practical	2
	Open	Environment Geology	4
	Open	Environment Geology Practical	2
IV	Core	Geology, Tectonics & Mineral Resources of North East India	4
	Core	Special Paper (Elective) any one from the following: (i) Sedimentary Environment and Sedimentary Basins (ii) Advanced Hydrogeology (iii) Petroleum Exploration (iv) Marine Geology (v) Micropalaeontology	4
	Core	Project Work – Dissertation	4
	Core	Seminar	2
	Core	Geological Fieldwork (3 weeks training)	4

Career Prospect in Geology

Career options for geologists are available in the following Government and Private Sectors at lower, middle and senior/ top executive levels:

Indian Bureau of Mines, Atomic Energy Departments, Geological Survey of India, Oil and Natural Gas Corporation, National Mineral Development Corporation, Central Groundwater Board, Coal India Limited, Mineral Exploration Authority, Environmental Consultancy Firms, Mining Companies, Cement Companies, Geophysical Instrumentation, Geological Research Institutes and Organizations, State and Central Government Departments of Geology and Mining, Energy Companies – Reliance, Oil India, Hindustan Oil Corporation, Essar, Bharat Petroleum Corporation Limited, Leading Construction and Engineering Companies.

Faculty Profile

1. Mrs. C. Thungbeni Yanthan, M.Sc.	<i>Associate Professor & Head</i>
2. Dr. (Mrs.) Ralimongla, M.Sc., Ph.D.	<i>Associate Professor</i>
3. Mrs. Aleno Doulo, M.Sc.	<i>Assistant Professor</i>
4. Mrs. Abeni Odyuo, M.Sc., NET	<i>Assistant Professor</i>
5. Dr. (Mrs.) Meniele K. Nuh, M.Sc., Ph.D.	<i>Assistant Professor</i>
6. Dr. (Mrs.) Rokokhono Nakhro, M.Sc., Ph.D.	<i>Assistant Professor</i>
7. Mr. Vitholeto Nagi, M.Sc., NET	<i>Assistant professor</i>

B.Sc. Programme in **Mathematics**

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MATHEMATICS

Semester	Course	Course Name	Credits
I	Core 1	Calculus	4
		Practical	2
	Core 2	Algebra	5
		Tutorial	1
II	Core 3	Real Analysis	5
		Tutorial	1
	Core 4	Differential Equations	4
		Practical	2
III	Core 5	Theory of Real Functions	5
		Tutorial	1
	Core 6	Group Theory I	5
		Tutorial	1
	Core 7	PDE and System of ODE	4
		Practical	2
SEC 1	Choose one: 1. Logic and Sets 2. Computer Graphics		2
IV	Core 8	Numerical Methods	4
		Practical	2
	Core 9	Riemann Integration and Series of Functions	5
		Tutorial	1
	Core 10	Ring Theory and Linear Algebra I	5
		Tutorial	1
	SEC 2	Choose one: 1. Graph Theory 2. Operating System: Linux	
V	Core 11	Multivariate Calculus	5
		Tutorial	1
	Core 12	Group Theory II	5
		Tutorial	1
	DSE 1	Choose one: 1. Portfolio Optimization 2. Number Theory 3. Analytical Geometry	5
		Tutorial	1
	DSE 2	Choose one: 1. Industrial Mathematics 2. Boolean Algebra and Automata Theory 3. Probability and Statistics	5
		Tutorial	1
VI	Core 13	Metric Spaces and Complex Analysis	5
		Tutorial	1
	Core 14	Ring Theory and Linear Algebra II	5
		Tutorial	1
	DSE 3	Choose one: 1. Theory of Equations 2. Bio-Mathematics 3. Linear Programming	5
	Tutorial	1	
	DSE 4	Choose one: 1. Mathematical Modeling 2. Mechanics 3. Differential Geometry	5
		Tutorial	1

M.Sc. Programme in **Mathematics**

Semester	Course	Course Name	Credits
I	Core	Analysis I	4
	Core	Linear Algebra	4
	Core	Ordinary Differential Equations	4
	Core	Classical Mechanics	4
	Core	FORTAN Programming	2
II	Core	Algebra	4
	Core	Analysis II	4
	Core	Partial Differential Equations	4
	Open	Programming in C & Applications	4
	Open	Computer Programming Practical	2
III	Core	Topology	4
	Core	Complex Function Theory	4
	Open	Numerical Analysis	4
	Open	Computer Oriented Numerical Methods Practical	2
	Core	OPTIONAL	4
IV	Core	Elementary Number Theory	4
	Core	Application of Mathematics in Environmental Studies	2
	Core	OPTIONAL	4
	Core	OPTIONAL	4
	Core	OPTIONAL	4

OPTIONAL COURSES

Semester	Course	Course Name	Credits
III	Core (any one)	Differential Geometry	4
		Theory of Field Extensions	4
		Fluid Mechanics	4
		Tensor Analysis & Riemannian Geometry	4
		Theory of Relativity	4
IV	Core (any three)	Functional Analysis	4
		Mathematical Methods	4
		Ring Theory	4
		p-adic Analysis	4
		Relativistic Cosmology	4
		Algebraic Topology	4
		Algebraic Geometry	4
		Dynamical Oceanography	4
		Commutative Algebra	4
		Non-linear Dynamical Systems	4
		Discrete Mathematics	4
		Operations Research	4

Career Prospect in Mathematics

Teaching (Schools, Colleges, Universities & Institutes), Banking, Accounting, Engineering, Actuary, Statistics, Meteorology, Programming, System Analyst.

Faculty Profile

- | | |
|--|-------------------------------|
| 1. Mr. M. N. Murali, M.Sc., NET | Associate Prof. & CoE |
| 2. Dr. S. N. Pandey, M.Sc., Ph.D. | Associate Professor & Head |
| 3. Mrs. Rosilin Xavier, M.Sc. | Assistant Professor |
| 4. Dr. Khrietuo Doulo, M.Sc., Ph.D., NET | Assistant Professor |
| 5. Dr. Hemanta Konwar, M.Sc., Ph.D. | Assistant Professor |
| 6. Ms. Jane Roseline Yimchunger, M.Sc. | Asstt. Prof. (on study leave) |
| 7. Mrs. Vitsono Lungalang, M.Sc. | Assistant Professor |
| 8. Mr. Teisovi Gerard Meyase, M.Sc., NET | Assistant Professor |
| 9. Mr. Sedevikho Chase, M.Sc., NET | Assistant Professor |
| 10. Mr. Bendangwapang, M.Sc., M.Tech. | Assistant professor |

B.Sc. Programme in Physics

SEMESTER	COURSE	COURSE NAME	COURSE CODE	CREDITS
I	Core 1	Mathematical Physics(Theory)	PHC 1.11	4
		Mathematical Physics(Practical)	PHC 1.12	2
	Core 2	Mechanics (Theory)	PHC 1.21	4
		Mechanics (Practical)	PHC 1.22	2
II	Core 3	Electricity and Magnetism (Theory)	PHC 2.11	4
		Electricity and Magnetism (Practical)	PHC 2.12	2
	Core 4	Waves and Optics (Theory)	PHC 2.21	4
		Waves and Optics (Practical)	PHC 2.22	2
III	Core 5	Mathematical Physics II (Theory)	PHC 3.11	4
		Mathematical Physics II(Practical)	PHC 3.12	2
	Core 6	Thermal Physics (Theory)	PHC 3.21	4
		Thermal Physics (Practical)	PHC 3.22	2
	Core 7	Digital Systems and Applications(Theory)	PHC 3.31	4
		Digital Systems and Applications (Practical)	PHC 3.32	2
IV	Skill Enhancement Course 1	Basic Instrumentation Skills(Practical)	PHS 3.12(a)	2
		OR Physics Workshop Skill(Practical)	PHS 3.12(b)	
	Core 8	Mathematical Physics III (Theory)	PHC 4.11	4
		Mathematical Physics III (Practical)	PHC 4.12	2
	Core 9	Elements of Modern Physics (Theory)	PHC 4.21	4
		Elements of Modern Physics (Practical)	PHC 4.22	2
	Core 10	Analog Systems and Applications (Theory)	PHC 4.31	4
		Analog Systems and Applications (Practical)	PHC 4.32	2
V	Skill Enhancement Course 2	Computational Physics(Practical)	PHS 4.12(a)	2
		OR Radiation Safety(Practical)	PHS 4.12(b)	
	Core 11	Quantum Mechanics and Applications (Theory)	PHC 5.11	4
		Quantum Mechanics and Applications (Practical)	PHC 5.12	2
	Core 12	Solid State Physics (Theory)	PHC 5.21	4
		Solid State Physics (Practical)	PHC 5.22	2
	Discipline Specific Elective 1	Advance Mathematical PhysicsI (Theory)	PHD 5.11(a)	4
		OR Classical Dynamics	PHD 5.11(b)	6
		Advance Mathematical PhysicsI(Practical)	PHD 5.12(b)	2
	Discipline Specific Elective 2	Nuclear and Particle Physics(Theory)	PHD 5.21(a)	5
		OR Nano Material and Applications(Theory)	PHD 5.21(b)	4
		Nuclear and Particle Physics (Tutorial)		1
		OR Nano Material and Applications (Practical)	PHD 5.22(b)	2



VI	Core 13	Electromagnetic Theory (Theory)	PHC 6.11	4
		Electromagnetic Theory (Practical)	PHC 6.12	2
	Core 14	Statistical Mechanics (Theory)	PHC 6.21	4
		Statistical Mechanics (Practical)	PHC 6.22	2
	Discipline Specific Elective 3	Advance Mathematical Physics -II (Theory) OR Digital Signal Processing (Theory)	PHD 6.11(a) PHD 6.11(b)	5 4
		Advance Mathematical Physics -II (Tutorial) OR Digital Signal Processing (Practical)	 PHD 6.12(b)	1 2
	Discipline Specific Elective 4	Astronomy and Astrophysics (Theory) OR Atmospheric Physics (Theory) OR Physics of Earth (Theory)	PHD 6.21(a) PHD 6.21(b) PHD 6.21(c)	5 4 5
		Astronomy and Astrophysics (Tutorial) OR Atmospheric Physics (Practical) OR Physics of Earth (Tutorial)	 PHD 6.22(b) 	1 2 1

M.Sc. Programme in Physics

Semester	Course	Course Name	Credits
I	Core	Classical Mechanics	4
	Core	Quantum Mechanics – I	4
	Core	Electromagnetic Theory	3
	Core	Mathematical Methods – I	3
	Core	General Laboratory – I	4
II	Core	Quantum Mechanics – II	3
	Core	Mathematical Methods – II	3
	Core	Statistical Mechanics	3
	Core	Computational Methods Laboratory	3
	Open	Astronomy and Remote Sensing Applications	6
III	Core	Solid State Physics – I	3
	Core	Spectroscopy	3
	Core	Nuclear and Particle Physics	3
	Core	Electronics Laboratory – I	3
	Open	Analog and Digital Electronics	6
IV	Core	Advanced Quantum Mechanics (or) Astrophysics	4
	Core	Solid State Physics – II (or) Advanced Electronics	3
	Core	Modern Optics (or) Atmospheric Physics	4
	Core	Project	3
	Core	General Physics Laboratory – II	4

Career Prospect in Physics

Teaching in General Colleges, National Institutes of Technology, IITs, Engineering Colleges, and Polytechnic Colleges, Radiology, Scientists in Meteorology, ISRO, DRDO, Geophysicists in ONGC, Physicists/ Scientists in Institute of Physics (Bhubaneswar), Institute of Mathematical Sciences (Chennai), Tata Institute of Fundamental Research (Mumbai), IUCAA (Pune), and Indian Institute of Sciences (Bangalore), Software Writer.

Department of Physics

- | | |
|---|---------------------------------------|
| 1. Dr. M. Devrani, M.Sc., Ph.D. | <i>Associate Professor & Head</i> |
| 2. Dr. R. K. Jha, M.Sc., Ph.D. | <i>Associate Professor</i> |
| 3. Dr. Sanjay Sharma, M.Sc., Ph.D. | <i>Assistant Professor</i> |
| 4. Mr. Talinungsang, M.Sc. | <i>Asstt. Prof. (on study leave)</i> |
| 5. Dr. Chetan Kachhara, M.Sc., Ph.D. | <i>Assistant Professor</i> |
| 6. Mrs. Meripeni Ezung, M.Sc., M. Phil. | <i>Assistant Professor</i> |
| 7. Mr. Veta Nyienyu, M.Sc. | <i>Assistant Professor</i> |
| 8. Mr. Imlisunep, M.Sc. | <i>Assistant Professor</i> |
| 9. Mr. Samuel Ao, M.Sc. | <i>Assistant Professor</i> |
| 10. Ms. Linotoli Awomi, M.Sc. | <i>Assistant Professor</i> |

B.Sc. Programme in Statistics

SEMESTER	COURSE	COURSE NAME	COURSE CODE	CREDIT
I	Core 1	Descriptive Statistics and Probability Theory (Theory)	STC 1.11	4
		Descriptive Statistics (Practical)	STC 1.12	2
	Core 2	Calculus (Theory)	STC 1.21	5
		Calculus (Tutorial)		1
II	Core 3	Probability Distributions and Correlation Analysis (Theory)	STC 2.11	4
		Probability Distributions and Correlation Analysis (Practical)	STC 2.12	2
	Core 4	Algebra (Theory)	STC 2.21	5
		Algebra (Tutorial)		1
III	Core 5	Sampling Distributions (Theory)	STC 3.11	4
		Sampling Distributions (Practical)	STC 3.12	2
	Core 6	Survey Sampling & Indian Official Statistics (Theory)	STC 3.21	4
		Survey Sampling & Indian Official Statistics (Practical)	STC 3.22	2
	Core 7	Mathematical Analysis (Theory)	STC 3.31	5
		Mathematical Analysis (Tutorial)		1
	Skill Enhancement Course 1	Statistical-Data Analysis Using Software Packages (Practical)	STS 3.12	2
IV	Core 8	Statistical Inference (Theory)	STC 4.11	4
		Statistical Inference (Practical)	STC 4.12	2
	Core 9	Linear Models (Theory)	STC 4.21	4
		Linear Models (Practical)	STC 4.22	2
	Core 10	Statistical Quality Control (Theory)	STC 4.31	4
		Statistical Quality Control (Practical)	STC 4.32	2
	Skill Enhancement Course 2	Statistical Techniques for Research Methods	STS 4.11(a)	2
V	Core 11	Stochastic Processes and Queuing Theory (Theory)	STC 5.11	4
		Stochastic Processes and Queuing Theory (Practical)	STC 5.12	2
	Core 12	Statistical Computing Using C/C++ Programming (Theory)	STC 5.21	4
		Statistical Computing Using C/C++ Programming (Practical)	STC 5.22	2
	Discipline Specific Elective 1	Operations Research (Theory)	STD 5.11	4
		Operations Research (Practical)	STD 5.12	2
	Discipline Specific Elective 2	Time Series Analysis (Theory)	STD 5.21	4
		Time Series Analysis (Practical)	STD 5.22	2



VI	Core 13	Design of Experiments (Theory)	STC 6.11	4
		Design of Experiments (Practical)	STC 6.12	2
	Core 14	Multivariate Analysis and Index Numbers(Theory)	STC 6.21	4
		Multivariate Analysis and Index Numbers(Practical)	STC 6.22	2
	Discipline Specific Elective 3	Demography (Theory)	STD 6.11	4
		Demography (Practical)	STD 6.12	2
	Discipline Specific Elective 4	Econometrics (Theory) OR Project Work	STD 6.21(a) STD 6.21(b)	4 6
		Econometrics (Practical)	STD 6.22(a)	2

Career Prospect in Statistics

Statistical officer, Research Officer, Banking sector, Management, Computer administration, Through UPSC or staff selection Commission (SSC): Indian Statistical Service, Statistical Inspector / Investigator, Research Investigator, Research , Officer, Data analyst in Census department, NSSO, CSO, etc.

Through NPSC: Assistant Professor, Research Officer in Planning and Development Dept., Statistical Officer , Statistical Investigator / Investigator under Directorate of Economic and Statistics, and various department under State Government.

M.Sc. in Data Analysis under NITs has a high chance of getting a job through campus interview in various sectors especially in Industrial Sectors.

Faculty Profile

- | | |
|---|------------------------|
| 1. Md. Jakir Ali, M.Sc. | Assistant Prof. & Head |
| 2. Dr. Sheikh Faruk Ahmed, M.Sc., Ph.D. | Assistant Professor |
| 3. Dr. Prasanta Barman, M.Sc., Ph.D. | Asstt. Prof. (on lien) |
| 4. Dr. Pallab Changkakoti, M.Sc., Ph.D. | Assistant Professor |
| 5. Ms. Rovila Jinger, M.Sc. | Assistant Professor |
| 6. Mrs. Vibunu, M.Sc. | Assistant Professor |

B.Sc. Programme in Zoology

SEMESTER	COURSE	COURSE NAME	COURSE CODE	CREDIT
I	Core 1	Non-chordates I: Protista to Pseudocoelomates (Theory)	ZOC 1.11	4
		Non-chordates I: Protista to Pseudocoelomates (Practical)	ZOC 1.12	2
	Core 2	Principles of Ecology (Theory)	ZOC 1.21	4
		Principles of Ecology (Practical)	ZOC 1.22	2
II	Core 3	Non-chordates II: Coelomates (Theory)	ZOC 2.11	4
		Non-chordates II: Coelomates (Practical)	ZOC 2.12	2
	Core 4	Cell Biology (Theory)	ZOC 2.21	4
		Cell Biology (Practical)	ZOC 2.22	2
III	Core 5	Diversity of Chordates (Theory)	ZOC 3.11	4
		Diversity of Chordates (Practical)	ZOC 3.12	2
	Core 6	Physiology: Controlling and Coordinating Systems (Theory)	ZOC 3.21	4
		Physiology: Controlling and Coordinating Systems (Practical)	ZOC 3.22	2
	Core 7	Fundamentals of Biochemistry (Theory)	ZOC 3.31	4
		Fundamentals of Biochemistry (Practical)	ZOC 3.32	2
	Skill Enhancement Course 1	Apiculture	ZOS 3.11(a)	2
		Sericulture	ZOS 3.11(b)	
IV	Core 8	Comparative Anatomy of Vertebrates (Theory)	ZOC 4.11	4
		Comparative Anatomy of Vertebrates (Practical)	ZOC 4.12	2
	Core 9	Physiology: Life Sustaining Systems (Theory)	ZOC 4.21	4
		Physiology: Life Sustaining Systems (Practical)	ZOC 4.22	2
	Core 10	Biochemistry of Metabolic Processes (Theory)	ZOC 4.31	4
		Biochemistry of Metabolic Processes (Practical)	ZOC 4.32	2
	Skill Enhancement Course 2	Medical Diagnostics	ZOS 4.11(a)	2
		Aquarium Fish Keeping	ZOS 4.11(b)	

V	Core 11	Molecular Biology (Theory)	ZOC 5.11	4
		Molecular Biology (Practical)	ZOC 5.12	2
	Core 12	Principles of Genetics (Theory)	ZOC 5.21	4
		Principles of Genetics (Practical)	ZOC 5.22	2
	Discipline Specific Elective 1	Biology of Insects (Theory) OR Animal Behaviour and Chronobiology (Theory)	ZOD 5.11(a) ZOD 5.11(b)	4
		Biology of Insects (Practical) OR Animal Behaviour and Chronobiology (Practical)	ZOD 5.12(a) ZOD 5.12(b)	2
	Discipline Specific Elective 2	Parasitology (Theory) OR Reproductive Biology (Theory)	ZOD 5.21(a) ZOD 5.21(b)	4
		Parasitology (Practical) OR Reproductive Biology (Practical)	ZOD 5.22(a) ZOD 5.22(b)	2
	Core 13	Developmental Biology (Theory)	ZOC 6.11	4
		Developmental Biology (Practical)	ZOC 6.12	2
VI	Core 14	Evolutionary Biology (Theory)	ZOC 6.21	4
		Evolutionary Biology (Practical)	ZOC 6.22	2
	Discipline Specific Elective 3	Fish and Fisheries (Theory) OR Wildlife Conservation and Management (Theory)	ZOD 6.11(a) ZOD 6.11(b)	4
		Fish and Fisheries (Practical) OR Wildlife Conservation and Management (Practical)	ZOD 6.12(a) ZOD 6.12(b)	2
	Discipline Specific Elective 4	Immunology (Theory) OR Endocrinology (Theory)	ZOD 6.21(a) ZOD 6.21(b)	4
		Immunology (Practical) OR Endocrinology (Practical)	ZOD 6.22(a) ZOD 6.22(b)	2

M.Sc. Programme in Zoology

Semester	Course	Course Name	Credits
I	Core	Cell Biology & Immunology	4
	Core	Cell Biology & Immunology Practical	2
	Core	Biological Chemistry & Molecular Biology	4
	Core	Biological Chemistry & Molecular Biology Practical	2
	Core	Animal Physiology	4
	Core	Animal Physiology Practical	2
II	Core	Genetics & Developmental Biology	4
	Core	Genetics & Developmental Biology Practical	2
	Core	Parasitology & Insect Physiology	4
	Core	Parasitology & Insect Physiology Practical	2
	Open	Techniques in Biology	4
	Open	Techniques in Biology Practical	2
III	Core	Endocrinology & Reproductive Biology	4
	Core	Endocrinology & Reproductive Biology Practical	2
	Core	Aquatic Biology & Fisheries	4
	Core	Aquatic Biology & Fisheries Practical	2
	Open	Animal Diversity	4
	Open	Animal Diversity Practical	2
IV	Core	Biosystematics, Evolution & Ecology	4
	Core	Biosystematics, Evolution & Ecology Practical	2
	Core	Special Paper *	4
	Core	Special Paper * Practical	2
	Core	Dissertation	4
	Core	Dissertation Practical / Viva	2

Special Paper *

1. Biochemical Adaptation & Metabolic Regulation
2. Fish Biology
3. Entomology
4. Limnology

Career Prospect in Zoology

Teaching, Research, IFS, Conservationist, Environmentalist, Biotechnology, Bioinformatics, Environmental Science, ICAR, Zoo/Animal Keeper, Laboratory Assistant, Technician, Hospitals and Clinics, Pharmacy, Ecologist, Entomologist, Nutritionist, Bee Keeping, Sericulture, Fisheries, Pathologist.

Faculty Profile

1. Mr. Visoho Zao, M.Sc.	Associate Prof. & Head
2. Mr. Imlaba Longkumer, M.Sc.	Associate Professor
3. Mrs. Anungla Pongen, M.Sc.	Assoc. Prof. (on study leave)
4. Mr. Dziesevituo Angami, M.Sc.	Assistant Professor
5. Dr. Limatemjen, M.Sc., Ph.D.	Assistant Professor
6. Mrs. Katasinliu Remmei, M.Sc.	Assistant Professor
7. Mrs. Venolü Kezo, M.Sc.	Assistant Professor
8. Dr. Vethselo Doulo, M.Sc., Ph.D., NET	Assistant Professor
9. Mr. Ruokuosatuo Yhome, M.Sc.	Asstt. Prof. (on deputation)
10. Dr. Ruokuovikho Dominic, M.Sc., Ph.D.	Assistant Professor
11. Dr. Kensibo, M.Sc., Ph.D.	Assistant Professor

Library

Mr. Noketo Pusa, MLISc, NET

Mr. Mhasilevi Peseyie

Librarian

Library Assistant

IT Administration

Er. Neilhite Kapfo, B.E.

System Administrator

Ministerial Staff

- | | |
|---------------------------------|--------------------------------------|
| 1. Mr. Ketholetuo Peseyie | <i>H.A.</i> |
| 2. Mr. Sankar Dutta | <i>U.D.A.</i> |
| 3. Mr. Lanu Jamir | <i>U.D.A.</i> |
| 4. Mr. Vemutha Chakhesang | <i>Accountant</i> |
| 5. Mrs. Teisovi-Ü | <i>Stenographer</i> |
| 6. Mrs. Temsulemla | <i>U.D.A.</i> |
| 7. Mrs. Neiserienuo Sekhose | <i>U.D.A.</i> |
| 8. Mrs. Sentijungla Imsong | <i>L.D.A.</i> |
| 9. Mrs. Imchanaro | <i>Typist</i> |
| 10. Mrs. Vikedono Justine Zinyü | <i>L.D.A. cum Computer Assistant</i> |
| 11. Mr. Amudo Nenuh | <i>L.D.A. cum Computer Assistant</i> |
| 12. Mr. I. Imliwapang | <i>L.D.A. cum Computer Assistant</i> |
| 13. Ms. Ruuvonuo Chielie | <i>L.D.A. cum Computer Assistant</i> |
| 14. Mr. Sukho Domeh | <i>L.D.A. cum Computer Assistant</i> |

Laboratory Assistants

- | | |
|-------------------------------|----------------------------|
| 1. Mr. Zhasakhoto Peseyie | <i>Zoology</i> |
| 2. Mrs. Vizomenuo | <i>Anthropology</i> |
| 3. Mrs. Vidilhuno Peseyie | <i>Geology</i> |
| 4. Mrs. Khrielienino Suokhrie | <i>Geology</i> |
| 5. Mrs. Rokozhano Nisa | <i>Geography</i> |
| 6. Mr. Avizo Suokhrie | <i>Chemistry</i> |
| 7. Mr. Keneikiekho Nakhro | <i>Physics</i> |
| 8. Mr. Rhinyi | <i>Herbarium Assistant</i> |

ACADEMIC CALENDAR 2018

Sl No	Event	Date	Day
1	Resumption of Even Semester	01/02/2018	Thu
2	Supplementary Examinations (B.Sc.)	20-02-2018 to 24 -02-2018	Tue to Sat
3	Parting Social	07/04/2018	Sat
4	Submission of Internal Assessment Marks	BSc 6th Sem	21/04/2018
		BSc 2nd & 4th Sem	25/04/2018
		MSc	05/05/2018
5	Publication of Qualified List	BSc 6th Sem	25/04/2018
		BSc 2nd & 4th Sem	28/04/2018
		MSc	08/05/2018
6	Form Filling for End Semesters Examinations	BSc 6th Sem	26-04-2018 to 27 -04-2018
		BSc 2nd & 4th Sem	30-04-2018 to 01 -05-2018
		MSc	09-05-2018 to 10 -05-2018
7	Preparatory Leave for End Semesters Examinations	BSc 6th Sem	22-04-2018 to 29 -04-2018
		BSc 2nd & 4th Sem	29-04-2018 to 06 -05-2018
		MSc	06-05-2018 to 13 -05-2018
8	B.Sc. & M.Sc. Even End Semesters Examinations (Theory & Practical)	01-05-2018 to 26 -05-2018	Tue to Sat
9	Commencement of Odd Semesters	02/07/2018	Mon
10	Students' Union Election	02-08-2018 to 04-08-2018	Thu to Sat
11	Freshers' Social	11/08/2018	Sat
12	Submission of all Odd Semester (B.Sc. & M.Sc.) Internal Assessment Marks	06/10/2018	Sat
13	Publication of Qualified List for all Even Semester (B.Sc. & M.Sc.)	13/10/2018	Sat
14	Form Filling for all Odd End Semester Examinations (B.Sc. & M.Sc.)	15-10-2018 to 17 -10-2018	Mon to Wed
15	Preparatory Leave for Odd Semester Examinations (B.Sc. & M.Sc.)	14-10-2018 to 21 -10-2018	Sun to Sun
16	B.Sc. & M.Sc. Odd End Semester Examinations (Theory & Practical)	22-10-2018 to 10 -11-2018	Mon to Sat
17	Semester Break	11-11-2018 to 18 -11-2018	Sun to Sun
18	Commencement of Even Semester	19/11/2018	Mon

The COLLEGE ANTHEM

*Mr. Kiremwati Ao
Former Principal
Kohima Science College*

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.



Kohima Science College, Jotsoma, Kohima -797 002, Nagaland
+91 7005229569 | +91 370 2227026 | +91 370 2227034
www.kscj.ac.in | principal@kscj.ac.in

Design and Print



Below State Museum | Bayavü Hill | Kohima - 797001 | Nagaland
0370-2260171