



SMU SIKKIM
MANIPAL
UNIVERSITY

Established under Govt. of Sikkim, Act 9 of 1995, recognised under 2(f) of the UGC Act, 1956



ANNUAL REPORT

2017-18





SMU SIKKIM
MANIPAL
UNIVERSITY
Established under Govt. of Sikkim, Act 9 of 1995, recognised under 2 (f) of the UGC Act, 1956

Vision

Global Leadership in Human Development, Excellence in Education and Healthcare

Mission

Develop professionals of excellent technical calibre in the field of Health Sciences, Engineering, Management and Social Sciences with a humane approach capable of shouldering the responsibility of building the nation and be globally competent.

Objectives

- To support, promote and undertake the advancement of academics
- To promote use of ICT and modern education technologies
- To encourage research, creation and dissemination of knowledge
- To facilitate extension and community service
- To empower people of Sikkim and contribute to human development in Northeast
- To create environmental and social responsibilities among students and employees
- To ensure steady growth of the University

Core Values

Integrity and Honesty

We conduct ourselves ethically and legally in all situations upholding stakeholder trust.

Committed to Teams, Accountable for Results and Passion to Win

We are passionate about winning and hold ourselves accountable to organisational goals. We believe in teamwork and foster a performance driven culture across the organisation.

Achieving Social Impact

We fulfil our responsibility to society, continuously contributing to build a better world.

Respect and Fairness

We trust every individual and treat them with dignity, respect and fairness. We practice open and honest communication at all times.

Excellence through Quality, Innovation and Leadership

We are committed to delivering superior programs and academic services through continuous innovation and leadership at all levels.



For and on behalf of the Governing Council:

Lt. Gen (Dr) MD Venkatesh

Vice Chancellor

Sikkim Manipal University

Annual report of Sikkim Manipal University for the period 01-04-2017 to 01-05-2018

(Incorporated under Sikkim State Assembly Act No 9 of 1995 and approved under section 2 (f) of UGC Act 1956)

5th Mile, Tadong, Gangtok-737102, Sikkim

Phone: 91 3592 270702, 232041, 231138, 270294

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MESSAGE



It is my pleasure to learn that Sikkim Manipal University (SMU) is coming out with its Annual Report for the year 2017-18. As Chancellor of the University, it is a matter of satisfaction for me to witness the developmental journey of the University and its impact on medical and technical education sector in the entire region.

The North Eastern State require rapid expansion in opportunities for higher education. The Act East Policy has underlined the need of expansion of higher education facilities alongside physical infrastructure in order to tap the immense potential the region has in human resource. It is a matter of joy that the Sikkim Manipal University has today established itself as a institution of excellence when it comes to the higher learning in the entire North Eastern region. I can relate this accomplishment as the result of will and determination of dedicated group of academic leaders and the management of the institute since its inception.

Our journey towards excellence has been memorable overwhelming support and goodwill of the people of Sikkim. At this point of time, we resolve to stand committed to our goal of quality output in terms of human resource, setting high standards in professional education in the country and delivering quality health services to the people of Sikkim.

My greetings and best wishes to the University management, faculty and the students in their endeavours.

Hon'ble Shri Ganga Prasad
(Govenor of Sikkim)
Raj Bhavan, Gangtok



MESSAGE



Over the years, Sikkim Manipal University (SMU) has contributed significantly to the State of Sikkim as well as to the other North Eastern regions of our country in graduating, among others, doctors, engineers, management and IT professionals. It has, since long, been very ably meeting the academic aspirations of students, with many, today, being well placed in society, in the private and public sectors as well as in academia. SMU has built an enviable reputation as a multi-disciplinary university, with state-of-the-art infrastructure and a large cohort of dedicated, highly qualified faculty, besides being ranked amongst the top academic institutions in this part of our country. The Annual Report of SMU is a very informative compendium of the many highlights, achievements and developments in the University during the past year, and particularly of our faculty and students. I extend my warm wishes to all our students, faculty and the management and staff of our University and look forward to higher levels of achievements in the years ahead.

Rajen Padukone
Pro Chancellor



MESSAGE



I am delighted to know that the Sikkim Manipal University is bringing out its Annual Report 2017-18. I believe that the report comprises features and enlightening information that pleases and touch every reader.

It is anticipated that the University will work for excellence to shine the future of youths pursuing higher studies and deliver best quality healthcare services and triumph in track of new technology.

I congratulate the entire faculty members of Sikkim Manipal University for their endeavour in publishing this edition and best wishes for pioneering excellence ahead.

Arjun Kumar Ghatani,
Hon'ble Minister,
**Healthcare, Human Services and Family Welfare/
Information & Public Relations and Printing & Stationery Departments,**
Govt of Sikkim



MESSAGE



Sikkim Manipal University (SMU) is synonymous with quality education. We believe in continuous improvement in every sphere of academic and research activities. It is our earnest endeavour to train our students as thorough professionals and provide them all round development so that they can face the world with confidence.

As we complete 22 glorious years, it gives me immense pleasure to say with much pride and joy that this journey has been extremely rewarding. The University has made a name for itself not only in the North Eastern States but throughout the country.

Every year we are striving to get closer to our vision 'Global leadership in Human Development, Excellence in Education and Healthcare'. The University has shown positive growth in many areas most importantly in education and healthcare.

Our mission, to be a preferred choice of students, faculty and industry in every discipline undertaken by the University has started to bear fruits. SMU is poised for greater glory and with the continued support and guidance of our Hon'ble Governor of Sikkim and Chancellor, and our Governing Council and Senate Members, we will definitely achieve our goal as the leading university in the country in the days to come.

This Annual Report 2017-18 is a comprehensive compilation of all the events and activities for the past year.

I congratulate the team who have persevered to compile this report.

Lt. Gen (Dr) MD Venkatesh

Vice Chancellor

Sikkim Manipal University



MESSAGE



As another year of change and progress has passed and a new academic year has begun I am pleased to share the 2017-18 Annual Report of Sikkim Manipal University (SMU).

The report embodies a comprehensive insight into the numerous strides that SMU and its constituent Units have embarked on during last one year. Year on year, SMU has displayed continuous improvement and value addition in the services rendered to all our stakeholders.

Prof (Dr) KS Sherpa,
Registrar, SMU



SIKKIM MANIPAL UNIVERSITY

INTRODUCTION

Sikkim Manipal University (SMU) was born with the basic objective of strengthening the close link of education to skill development and the making the youth of our country and especially those from Sikkim, educated, skilled and employable, giving them the capacity to harness diverse opportunities both within and outside the country. This will also create more job opportunities for our youth, thus solving the growing unemployment in the country.

SMU was established in 1995. It is the first government-private initiative in the region. SMU is recognized by the University Grants Commission and approved by the Government of India. It is the first ever Public Private Partnership (PPP) in the country for higher Education and Health Care services.

Higher education has historically included economic development of the nation as part of its core mission and SMU believes in assisting Sikkim in its economic and social development by:

- create a quality workforce by growing, training, and attracting the finest talent
- support current business and industry
- improve learning and teaching at the higher education level
- take strong and visible roles in the State's development initiatives
- disseminate research and promote technology transfer
- enhance the technology infrastructure
- provide latest health care services at affordable prices
- employ a diverse workforce
- promote Sikkim tourism

SMU offers quality education to the students from across the nation and especially to those from the North and North Eastern parts of India and latest health care facilities at affordable costs to the people of Sikkim.

It is a self-financing University and its operations depend mostly on fees paid by the students.

The University has two campuses: Medical campus and the Technology campus.

Constituent Colleges/ Institutions of Sikkim Manipal University are:

- Sikkim Manipal Institute of Technology (SMIT)
- Sikkim Manipal Institutes of Medical Sciences (SMIMS)
- Central Referral Hospital (CRH)
- Sikkim Manipal College of Nursing (SMCON)
- Sikkim Manipal College of Physiotherapy (SMCPT)
- University Departments
- Directorate of Distance Education (SMUDDE)

VISION, MISSION, OBJECTIVES

Vision

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We fulfil our responsibility to society, continuously contributing to build a better world.

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Excellence through Quality, Innovation and Leadership

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GENESIS OF SIKKIM MANIPAL UNIVERSITY

Sikkim Manipal University was formerly known as Sikkim Manipal University of Health, Medical and Technological Sciences and came into existence on November 15, 1992 as a result of the agreement signed between the Government of Sikkim and the Manipal Pai Foundation, with the aim of imparting exemplary education and health care services in the state of Sikkim and country wide.

The University was established in 1995 vide Sikkim Manipal University of Health, Medical and Technological Sciences Act (Act No. 9 of 1995). SMU is recognized by the University Grants Commission under Section 2(f) of the UGC Act, 1956 vide letter No F. 9-7/96(CPP-I) dated 9th Dec 1998 and approved by the Government of India.

The Sikkim Manipal University of Health Medical and Technological Sciences (Amendment) Act No. 13 of 2009 was passed by the Sikkim Legislative Assembly on 12 December 2009 and received the assent of The Governor of Sikkim on the 22 January 2010. Vide Notification No. 13/LD/P/2010, Dated: 08/04/2010 of Sikkim Government, Sikkim Manipal University of Health Medical and Technological Sciences was changed to Sikkim Manipal University.

According to the said Act the University would be able to disseminate advanced knowledge by providing instructional and research facilities for promoting interdisciplinary studies in the University.

The Government of Sikkim provides a grant of Rs. 2.25 Crores per annum for Central Referral Hospital (CRH) against which the Hospital provides free treatment to BPL families and concessional treatment to other residents of the State.

All courses run by the University are approved by the regulatory bodies like Medical Council of India (MCI), Indian Nursing Council, Indian Association of Physiotherapy, All India Council for Technical Education (AICTE) and the Distance Education Bureau (DEB).

MAJOR HIGHLIGHTS

Since its inception, SMU has crossed several miles-stones. The University has already made its presence felt in the higher education sector of the country with its highly qualified, competent and dedicated faculty members of SMU are committed to the task of ensuring that the students graduating from the University are well trained to meet the demanding challenges of their chosen profession in this competitive world. The University plays a significant role in contributing to the nation's talent pool. Transparent procedures, merit based intake criteria and efforts to provide the best of facilities have been marked features.

SMU, along with its constituent institutions have created a niche for themselves not only in this remote location in the country, but also as one of the top emerging University in India. Flora, fauna and the local inhabitants of Sikkim always leaves perpetual impact on all those who decide to make this University its destination to peruse their professional career.

Over the years, excellent infrastructure has been built and the students from not only Sikkim but the entire North East are benefitted. The SMU faculty is invited for giving guest lectures at institutes of national and international repute and some of them have received gold medals for their paper publications in the renowned journals in India.

Both Sikkim Manipal Institute of Technology (SMIT) and Sikkim Manipal Institute of Medical Sciences (SMIMS) under SMU has been ranked favourably in all major university and college rankings for 2018.

The INDIA TODAY MDRA SURVEY 2018 has ranked **SMIT top 12 amongst the Top 165 Private Engineering Colleges in India**. SMIT is also ranked **2nd in the TOP 5 private Colleges in the East Zone**.

The INDIA TODAY MDRA SURVEY 2018 has ranked **SMIMS No. 1 Private Medical College in the East Zone** and ranked 30th amongst Top Medical Colleges of India.

SMIMS has been **ranked 29th** amongst all Medical Colleges in India in the OUTLOOK University and Undergraduate Colleges Ranking 2018.

SMIT has also been **ranked 80th** in the OUTLOOK University and Undergraduate Colleges Ranking 2018: TOP 100 Engineering Colleges of India.

Similarly, SMU finds itself amongst the **Top 70** in THE WEEK Top MULTIDISCIPLINARY UNIVERSITIES – ALL INDIA Ranking 2018 and **Top 10** in the East Zone.

In the **National Institute Ranking Framework (NIRF) India Rankings 2018** conducted by the Ministry of Human Resource Development, Government of India, SMU has found a place in Rank-band: **101-150 India University Rankings for 2018**, out of 296 eligible Universities in the country ranked by NIRF.

SMU TIMELINE

1992: Memorandum of Agreement signed between Government of Sikkim and Manipal Education & Medical Group (MEMG) for improving educational opportunities and Health Services in Sikkim. Specific purpose of collaboration was to establish an Institute of Medical Sciences.

1994: Part of Central Referral Hospital became functional.

1995: Sikkim Manipal University of Health, Medical and Technological Sciences was established in accordance with Sikkim Manipal University of Health, Medical and Technological Science Act, 1995 (9 of 1995).

1997: 1. As part of the Agreement 1992, Central Referral Hospital (CRH) was established as referral teaching hospital and was duly inaugurated by the Hon'ble Chief Minister of Sikkim on 07 March 1997.

2. An application was submitted to Medical Council of India (MCI) for starting a Medical College with an annual intake capacity of 100 students.

3. Sikkim Manipal Institute of Technology was established with first batch of students.

2001: 1. Sikkim Manipal Institute of Medical Sciences (SMIMS) established.

2. Sikkim Manipal College of Nursing established.

3. Sikkim Manipal College of Physiotherapy established.

2003: A revised agreement was signed on 15 May 2003 between Govt. of Sikkim, Sikkim Manipal University of Health, Medical and Technological Sciences and Manipal Education & Medical Group (MEMG) wherein GoS agreed to provide its industrial units and its entire Health Care establishment for the academic exposure of the students.

2013: Inauguration of the Super specialty Wing of CRH.



ABOUT THE MANIPAL GROUP

The Manipal Group was started by Padmashree awardee Dr. TonseMadhavAnanthPai, a doctor, educationist, banker and philanthropist by his futuristic vision, which changed the destiny of thousands. Manipal is the nucleus of 57 educational institutes and has remained in the forefront of medical education since 1953. It epitomizes the role of the private sector in higher education and the concept of public private participation in health care. Today MANIPAL EDUCATION Group has five universities: Manipal University (Karnataka), Sikkim Manipal University (Sikkim), American University of Antigua, Manipal International University, Kuala Lumpur, Malaysia and Manipal University (Jaipur), 11 hospitals in India and abroad, 26 professional colleges and 11 campuses: 5 in India (Manipal, Mangalore, Bangalore, Sikkim, Goa & Jaipur) and 5 overseas (Nepal, Malaysia (2), UAE & Antigua).

With over 2,00,000 students, 3,00,000 Alumni, the group offers 195 courses across 14 streams and has enrolled students from 51 countries.

SIKKIM MANIPAL INSTITUTE OF TECHNOLOGY

Sikkim Manipal Institute of Technology (SMIT) was established in 1997 as a constituent college of Sikkim Manipal University (SMU) and is approved by AICTE. SMIT had the distinction of prestigious accreditation for engineering disciplines by National Board of Accreditation (NBA)/ACCR-860/06 dated 22nd January 2008. SMIT has ISO 9001 certification vide AS/NZS ISO 9001:2008/ISO 9001:2008 for all its courses. SMU was established in 1995 via Act of Sikkim Government and is recognized by UGC under section 2(f) of UGC Act.

SMIT is located at Majitar, near Rangpo, the border town of Sikkim with West Bengal. The institute's location on the banks of river Teesta, surrounded by green hills, adds to the colour and vibrancy of the campus, making it an ideal place for learning. It is safe, secure and provides an excellent academic environment.

PROGRAMME OFFERED

UNDERGRADUATE	POST GRADUATE
B.Tech Civil Engineering	M.Tech in Computer Science & Engineering
B.Tech Computer Science Engineering (CSE)	M.Tech in Digital Electronics & Communication Engineering
B.Tech Electrical and Electronics Engineering (EEE)	M.Tech in Information Technology
B.Tech Electronics and Communication Engineering (ECE)	M.Tech in Power Electronics
B.Tech Information Technology (IT)	M.Tech in Production Engineering
B.Tech Mechanical Engineering	M.Tech in Structural Engineering
Bachelor of Computer Application	Master of Computer Application
BBA - Bachelor of Business Administration	MBA - Master of Business Administration
BSc. in Information Technology	MSc Chemistry
	MSc Mathematics
	MSc Physics
	MSc. in Information Technology

SIKKIM MANIPAL INSTITUTES OF MEDICAL SCIENCES (SMIMS)

Sikkim Manipal Institute of Medical Sciences (SMIMS) is a constituent college of Sikkim Manipal University (SMU) established in the year 2001. Prior to this this was running as Central referral hospital since 1997. The first batch of MBBS students were enrolled in the year 2001. With a team of 288 faculties SMIMS conducts the following Medical and Health Sciences courses: (i) MBBS (ii) M.Sc in Medical Biotechnology (iii) MS in ENT&OBG, (iv)MD in Medicine, Pediatrics, Community Medicine, Pharmacology, Biochemistry, Psychiatry, Microbiology & Physiology.

The associated Central Referral Hospital is a 500 bedded tertiary care hospital. The hospital has 21 specialties and super specialties in Neurosurgery, Cardiology, Gastroenterology, Pediatric and endocrine Breast Surgery with state of the art equipment's. The hospital houses modern diagnostic facilities like CT Scan, Digital Radiography, MRI Ultra Sound, Dialysis Unit, Central Laboratory for various investigations, 24 hrs. Pharmacy and completely automated and online Hospital Information System. Emergency cases are handled at CRH through a well-equipped Casualty department manned by expert clinicians and paramedical staff.

The college also gives importance to academic activities by conducting CMEs and Conferences. The hospital also has facilities for ambulance services, canteen & cafeterias, general stores, comfortable waiting areas, bank and post office. SMIMS aims at providing excellence in medical education together with community healthcare services.

MEDICAL PROGRAMME

MBBS, Bachelor of Medicine and Bachelor of Surgery

MD (Biochemistry)

MD (Community Medicine)

MD (General Medicine)

MD (Microbiology)

MD (Paediatrics)

MD (Pharmacology)

MD (Physiology)

MD (Psychiatry)

MS (ENT)

MS (Obstetrics & Gynaecology)

MSc Medical Biotechnology

SIKKIM MANIPAL COLLEGE OF NURSING (SMCON)

Sikkim Manipal College of Nursing (SMCON) is one of the constituent colleges of Sikkim Manipal University. SMCON was established in 2001 for imparting four year Bachelor of Science in Nursing (B.Sc. Nursing) Degree Programme. The Master of Science in Nursing (M.Sc. Nursing) Degree programme of two year duration was introduced since 2016 with all five nursing specializations. Both the programmes are recognized by the regulatory authorities for nursing education in India. Degrees are awarded by the Sikkim Manipal University. The annual intake capacity is 100 for B.Sc. Nursing and 25 for M.Sc. Nursing programme. Students from all over the country are eligible to take admission in these programmes.

NURSING PROGRAMME

B.Sc. Nursing

M. Sc Nursing

SIKKIM MANIPAL COLLEGE OF PHYSIOTHERAPY (SMCPT)

The Sikkim Manipal College of Physiotherapy is one of the constituent colleges of Sikkim Manipal University. It was established in 2001 with Bachelor of Physiotherapy (BPT) course program and Master of Physiotherapy (MPT) course programme from 2009-onwards. The Sikkim Manipal College of Physiotherapy is duly accredited by the Indian Association of Physiotherapists for both BPT and MPT course programmes.

PHYSIOTHERAPY PROGRAMME

Master of Physiotherapy (MPT)

Bachelor of Physiotherapy (BPT)

UNIVERSITY DEPARTMENTS

DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

The Department of Humanities and Social Science started functioning from 6th September 2012. At present, the Department is successfully running B.A. (Political Science, English and Sociology), B. Com and M.Com programme.

DIRECTORATE OF DISTANCE EDUCATION (SMUDDE)

Directorate of Distance Education (DDE) is one of the constituent unit of Sikkim Manipal University. It was set up in 2001. It offers distance education programs in various disciplines to cater the educational needs of the society.

SMUDDE uses innovative technology enabled Open and Distance Learning (ODL) pedagogies to suit the learning styles and preferences of present day learners. In addition to printed Self Learning Material (SLM), SMUDDE also provides learning resources such as videos, quizzes and webinars via EduNxt-Learning Management System (LMS) to distance learners. SMUDDE's EduNxt Mobile Learning App provides learning opportunities on the go.

PROGRAMME:

- Master of Computer Application
- Master of Science (Information Technology)
- Diploma in Infrastructure Management Systems
- Bachelor of Science (Information Technology)
- Bachelor of Computer Application
- Bachelor of Science (IT in Infrastructure Management System)
- Master of Business Administration:

- (a) Finance
- (b) Marketing
- (c) Human Resource Management
- (d) Information Systems
- (e) Banking
- (f) Project Management
- (g) Total Quality Management
- (h) Operations Management
- (i) International Business.
 - Master of Commerce (Information System)
 - Bachelor of Business Administration.
 - Bachelor of Business Administration (Retail Operations)
 - Bachelor of Commerce (Information System)
 - Certification in Export and Import Trade

ADMISSION PROCESS:

- All Admissions are through merit
- No payments other than mentioned in the prospectus
- Fees are fixed by Fee Fixation Committee headed by Retd High Court Judge and independent members and members from the Government of Sikkim.

MBBS- Through National Eligibility cum Entrance Test (NEET)

B.Tech-

- (i) Main JEE conducted by CBSE
- (ii) MU-OET
- (iii) SMU Offline
- (iv) CET Sikkim

TEACHING METHODOLOGY:

Teaching learning process encompasses both in syllabus and beyond the syllabus topics, industry academia interactions, guest lectures competency development programs, workshops and symposia and other co –curricular/extracurricular activities to achieves all round development of the students.

EVALUATION:

All programmes other than Medicine follow 10 point CGPA (cumulative grade point evaluation).

MEDICINE: Medical college follows the MCI Rules & regulations for Evaluation

FACILITIES FOR STUDENTS:

- Medicare Facilities

- Excellent infrastructure and living conditions
- Entrepreneurship Development Cell
- Incentives for all extracurricular activities
- Opportunity to attend national and international conferences/seminars/workshops
- Excellent placements
- Outdoor & Indoor Sports facilities
- Fee waiver for meritorious students
- Shopping complex, banks, ATM, post office on campus.
- 24 hrs uninterrupted electricity & water supply
- Guest House facility
- Scholarships are offered to deserving students

RESERVATION FOR SIKKIM:

As per the 1992 agreement between Government of Sikkim and Manipal Groups, SMU shall provide 20% seats for Government of Sikkim in all courses. Tuition fees for the Government sponsored students are 25% of normal fees. Six seats in medical Post Graduate Courses reserved for Sikkim Candidates (two each in Pre clinical, para clinical & Clinical)

Governing Council Members

1. Mr Rajen Padukone, Pro Chancellor, SMU
2. Dr. Ranjan Pai, Chairman, MEMG
3. Lt Gen (Dr.) MD Venkatesh, Vice Chancellor, SMU
4. Dr. P.D Shenoy, IAS (Retd.), Advisor, MEMG
5. Shri G P Upadhyaya, IAS- Addl. Chief Secretary cum Pr. Secretary Human Resource Development Department, Govt of Sikkim
6. Shri Vishal Chauhan, IAS Commissioner cum Secretary, Health Care Human Services & F.W. Dept., Govt of Sikkim
7. Prof (Dr.) K S Sherpa, Registrar, SMU- Secretary
8. Air Marshal (Retd) Dr G S Joneja, VM, Dean SMIMS.
9. Prof (Dr.) Ashis Sharma, Director, SMIT.
10. Dr. GautamDey, Medical Superintendent, CRH.
11. Prof (Dr.) Sudip Dutta, Head Dept. of Pediatrics, SMIMS.
12. Prof (Dr.) B B Pradhan, Head, Dept. of Mechanical Engineering, SMIT.
13. Prof (Dr.) Bidita Khandelwal, Head, Dept. of Medicine, SMIMS.
14. Prof (Dr) Ajeya Jha, Assoc. Director, (R&D) SMIT

Executive Committee Members

1. Mr Rajen Padukone, Pro Chancellor, SMU
2. Dr. Ranjan Pai, Chairman, MEMG
3. Lt Gen (Dr.) MD Venkatesh, Vice Chancellor, SMU
4. Prof (Dr.) K S Sherpa, Registrar, SMU- Secretary
5. Dr. I L Sharma, Director, Health Care, FW Deptt. Govt of Sikkim
6. Shri DK Pradhan, Spl. Secretary cum Director, Higher Education & Technical Education, HRDD. Govt of Sikkim
7. Air Marshal (Retd) Dr. G S Joneja, VM, Dean SMIMS

8. Prof. (Dr.) Ashis Sharma, Director, SMIT
9. Dr. Gautam Dey, Medical Superintendent, CRH
10. Mr. Pradeep Kr. Chaturvedi Finance Officer, SMU

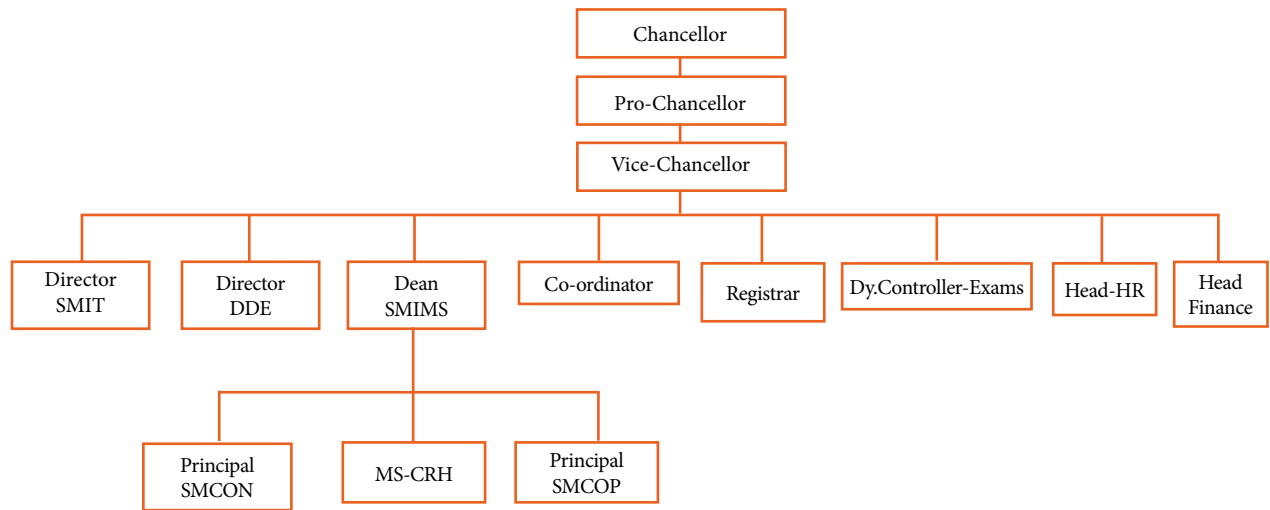
Finance Committee Members

1. Mr Rajen Padukone, Pro Chancellor, SMU
2. Dr. Ranjan Pai, Chariman, MEMG
3. Lt Gen (Dr.) MD Venkatesh, Vice Chancellor, SMU
4. Dr. P.D Shenoy, IAS (Retd.), Advisor, MEMG
5. Shri. V B Pathak, IAS Pr. Secretary, Finance Revenue & Expenditure Deptt., Govt. of Sikkim
6. Prof. (Dr) K.S. Sherpa, Registrar, SMU Secretary
7. Shri C. V. Rangarajan, Chief Finance Officer, MEMG II Pvt. Ltd
8. Air Marshal (Retd) Dr. G S Joneja, VM, Dean SMIMS
9. Prof. (Dr.) Ashis Sharma, Director, SMIT
10. Dr. Gautam Dey, Medical Superintendent, CRH
11. Mr. Pradeep Kr. Chaturvedi, Finance Officer, SMU

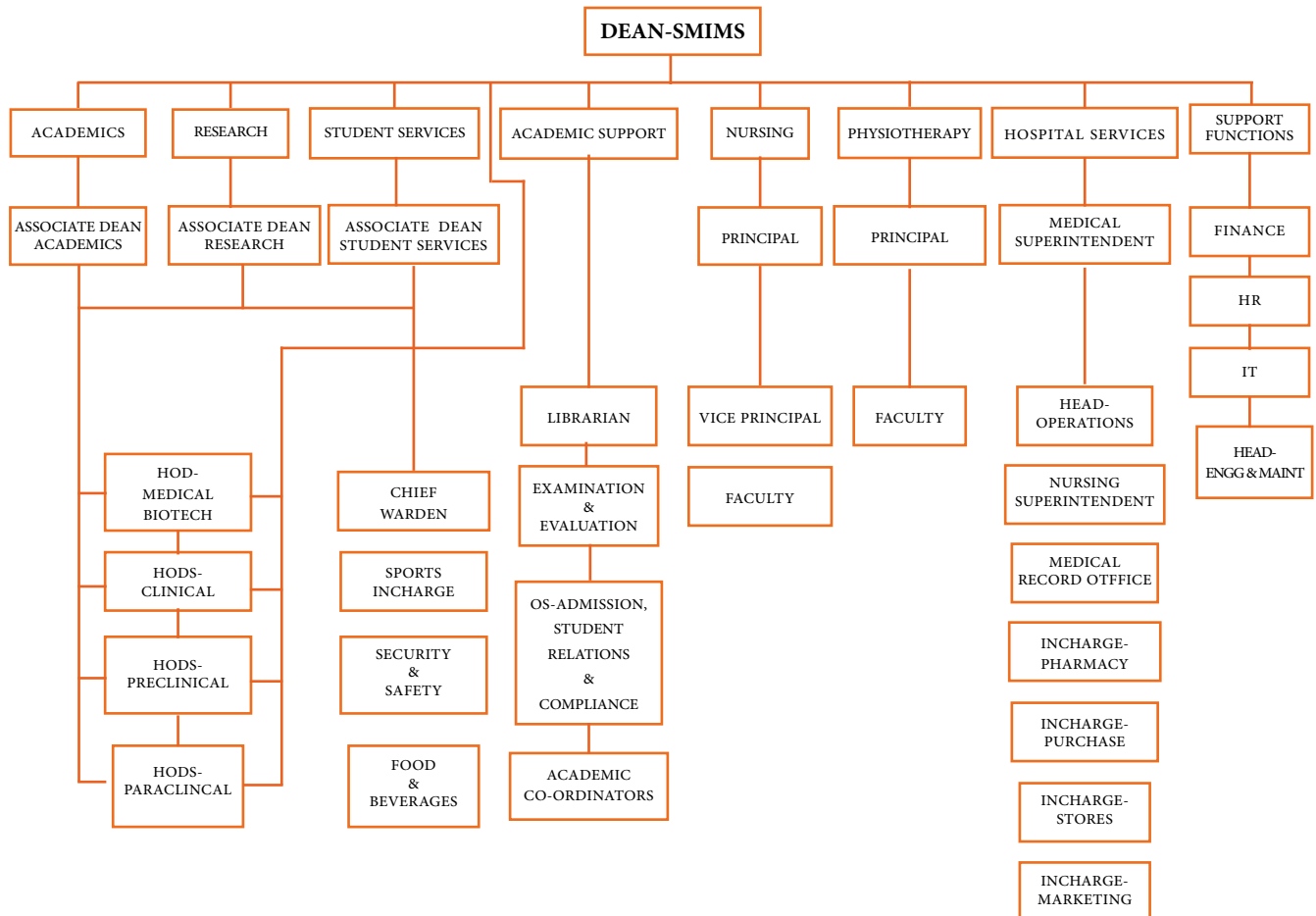
Academic Senate Members

1. Lt Gen (Dr) M.D Venkatesh, Vice Chancellor, SMU– Chairman
2. Prof Mahesh Chandra Govil, Director, NIT, Sikkim
3. Dr G S Joneja, Dean, SMIMS
4. Prof (Dr) Ashis Sharma, Director, SMIT
5. Prof (Dr) K S Sherpa, Registrar, SMU
6. Prof (Dr) Anuradha Parasar, Director (i/c), SMUDDE
7. Prof (Dr) B B Pradhan, Associate Director (A), SMIT
8. Prof (Dr) Sanjiba Dutta, Associate Dean (A), SMIMS
9. Dr. Manoj Kumar Nagasampige, Dean-Academics & Compliance, SMUDDE
10. Prof (Dr) Ajeya Jha, Head Management Studies SMIT
11. Prof (Dr) Kalpana Sharma, Head, Dept. of CSE, SMIT
12. Prof (Dr) V K Mehta, Head, Dept. of Community Medicine, SMIMS
13. Prof (Dr) Sudip Dutta, Head, Dept. of Pediatrics, SMIMS
14. Prof Mridula Das, Principal, SMCON
15. Dr Nikita Joshi,Principal, SMCPT

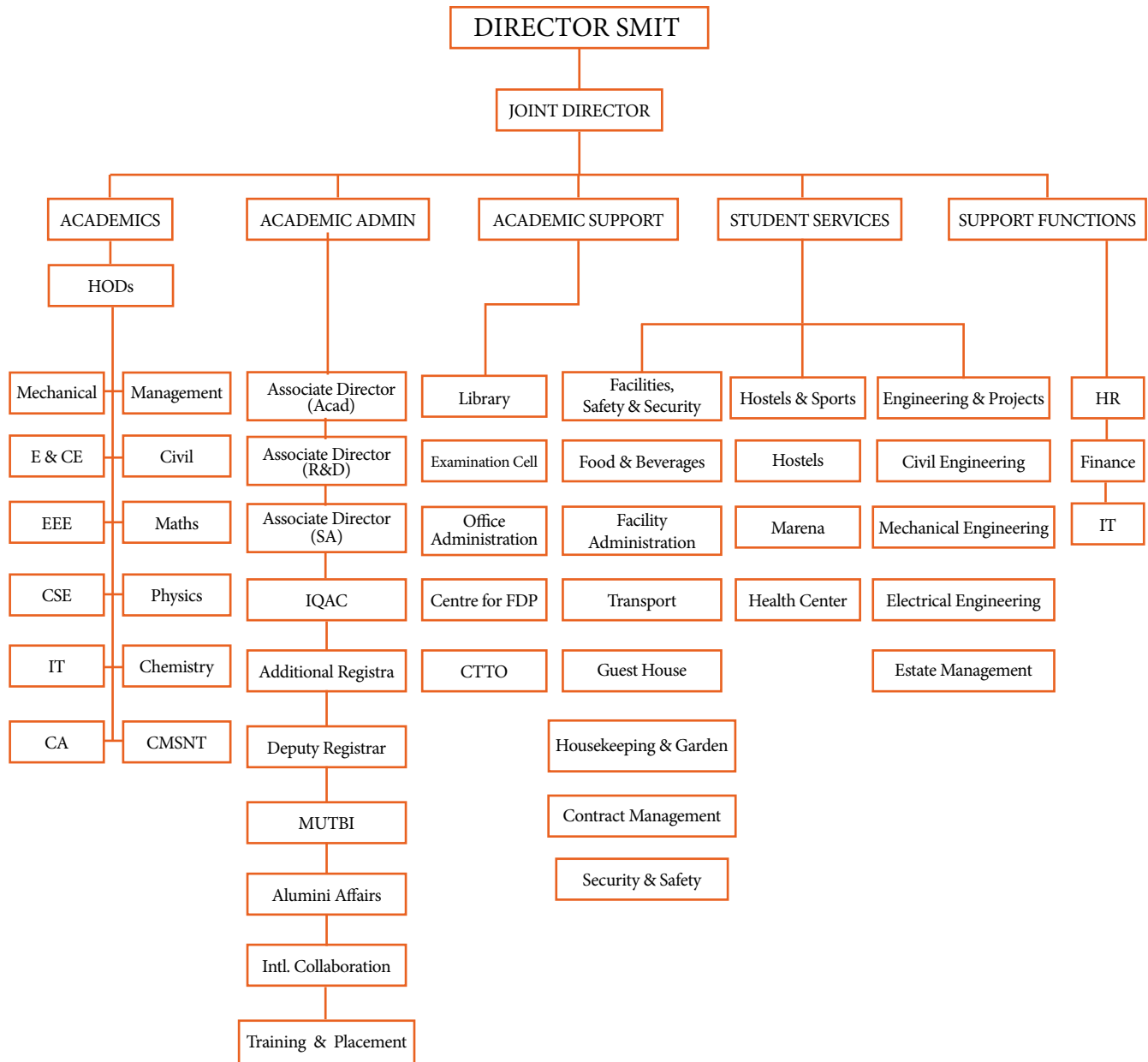
ORGANIZATIONAL STRUCTURE OF SIKKIM MANIPAL UNIVERSITY



ORGANIZATION STRUCTURE OF SIKKIM MANIPAL INSTITUTE OF MEDICAL SCIENCES



ORGANIZATION STRUCTURE OF SIKKIM MANIPAL INSTITUTE OF MEDICAL SCIENCES



PhD PROGRAMME

The Following research Scholars of the University had successfully defended their theses & awarded with PhD Degree during the Forthcoming 18th Convocation of SMU.

Ms Rebika Rai : External/Part Time.Reg No 201110013, Dept of CSE, SMIT.

Supervisors : Dr Ratika Pradhan, Prof & Head Dept of CA, SMIT Prof (Dr) M. K Ghose, Former Associate Director(A), SMIT.

Topic : “Improved Methodology for classifying different imagery using Swarm computing techniques”.

Mr Sandeep Gurung : Internal/Part Time. Reg No. 201310002, Dept of CSE, SMIT

Supervisors : Prof (Dr) M.K. Ghose. Former Associate Director (A), SMIT

Topic : “Hybridization of Visual Cryptography and Steganography for Digital Images”.

Mr Shabbiruddin : Internal/Part Time, Reg No. 201210005, Dept of EEE, SMIT

Supervisors : Prof (Dr) K.S Sherpa, Head-Delpt of EEE, SMIT, Dr Amitava Ray, Principal, Jalpaiguri Govt. Engineering College Jalpaiguri, WB

Prof (Dr) Sandeep Chakraborty, Dean (A), Buddi University of Emerging Science & Technology, HP

Topic : “An Exploratory Analysis of Planning and Operation for Power Distribution System”

Ms Sherap Shenga : External/Part Time. Reg No. 201110007. Dept of Management Studies, SMIT

Supervisors : Brig. (Dr) S N Mishra, Former Vice Chancellor, SMU Dr Ajeya Jha, Prof & Head, Dept. of Management Studies, SMIT

Topic :”Future Prospects of Eco-Tourism in Sikkim with special Reference to Cultural Tourism”

Ms J Rani : Internal/Part Time, Reg No 200910011, Dept of Management Studies, SMIT.

Supervisors : Dr Ajeya Jha, Prof & Head, Dept of Management Studies, SMIT

Topic : “Direct-to-Consumer Promotion of Pharmaceutical Products in India: impact Assessment”.

Mr Hemappa B : External/Part Time. Reg NO 200910013, Dept of ECE, SMIT

Supervisors : Dr R.N Bera, Professor and Head Dept of ECE, SMIT

Dr Manjaiah DH, Prof & Chairman Bos.P.G. Bos in Computer Science, Department of CS, Mangalore University, Karnataka

Topic : “Reliable Data Accumulation in Wireless Sensor Networks for Industrial Data Streaming Applications”.

Mr Manish Kr Thukral : External/Part Time, Reg No 201110008, Dept of EEE, SMIT

Supervisors : Dr K. S Sherpa, Associate Director (R&D), SMIT Prof, (Dr) Kumkum Garg, former Dean Faculty of Engineering, Manipal University Jaipur

Topic : “Development of Suitable Technique for Analyzing Chaotcn Spectra of DC-DC Converters and its Application in Secure Communication”

Mr Umesh Rizal : External/Full Time, Reg No. 201410004, Dept of CMSNT, SMIT

Supervisors : Dr B.P Swain, Associate Prof. Dept of CMSNT. SMIT.

Topic : “Investigation of Role of Metal Catalyst and Substrates in Gallium Nitride Nanowires Synthesis by LPCVD Technique”

Gen S L Narasimhan : External/Part Time, Reg No. 201110001, Dept. of Management Studies, SMIT.

Supervisors : Brig. (Dr) Surjit Singh Pabla, President, Bharatiya Skill Development University (BSDU), Jaipur.

Topic : “Study on China’s Emerging Geostrategy and India’s Response”.

Ms Noorjahan Khatoon : External/Part Time, Reg No 201010014, Dept of CSE, SMIT.

Supervisors : Prof (Dr) M. K Gose, Former Associate Director (A), SMIT

Topic : “Multimodal Biometrics Using Face, Iris and Conjunctival Vasculature”.





DEPARTMENT OF FINANCE SMU

The Finance Department of the SMU is headed by the Finance officer, CA Pradeep K. Chaturvedi.

The University Finance Department is led by Assistant Manager Mr. Chandra Rai with a team of four members. Besides the routine financial activities of the University, this department also handles the centrally administered Treasury Operations, Fund Management, Statutory Compliances, MIS, Financial Analysis, Reports and Audit.

The University Finance Department has a different section to deal with the Salary, Provident Fund and Terminal Benefit of employees known as the 'Payroll Section' which is headed by Senior Executive Mr. Ramu Shakya Pradhan.

In addition to the University finance office, there are four institutional finance offices as follows:-

1. Sikkim Manipal Institute of Medical Sciences (SMIMS), headed by Senior Executive, Mr. Raju Chettri. The total staff strength of this office is three.
2. Sikkim Manipal Institute of Technology (SMIT), headed by Assistant Manager, Mr. Ratan Pradhan. The total staff strength of this office is six.
3. A) Central Referral Hospital, headed by Deputy Manager, Mr. Suraj Sharma. The total staff strength of this office is four.
B) Central Referral Hospital (Receivables), headed by Senior Executive, Mr. Binod Hingmang. The total staff strength of this office is three.
4. SMU – Directorate of Distance Education, headed by Assistant Manager, Mr. Radhakrishna Samaga. The total staff strength of this office is six
5. Financial Position as on 31st March, 2017 and Financial Performance for the period 1/04/2016 to 31/03/2017
6. The financial performance of the University as a whole is represented here-below through its audited Balance Sheet and Income & expenditure Statement of Accounts for last two years.

BALANCE SHEET AS AT MARCH 31, 2017

(RUPEES IN LAKHS)

PARTICULARS	AUDITED 31ST MARCH, 2017	AUDITED 31ST MARCH, 2018
SOURCES OF FUNDS		
RESERVE & SURPLUS	8,286.64	7,678.69
LOAN FUNDS	3,678.22	3,645.91
OTHER FUNDS	463.42	478.70
TOTAL FUNDS EMPLOYED	12,428.28	11,803.30
APPLICATION OF FUNDS		
FIXED ASSETS (GROSS BLOCK)	54,116.86	55,042.74
LESS: DEPRECIATION	29,512.97	32,071.94
FIXED ASSETS (NET BLOCK)	24,603.89	22,970.80
CAPITAL WORK IN PROGRESS & ADVANCES	517.90	428.94
SHORT TERM INVESTMENT	2,258.70	4,830.20
CURRENT ASSETS, LOANS AND ADVANCES	5,682.49	5,472.84
LESS: CURRENT LIABILITIES & PROVISIONS	20,634.70	21,899.48
TOTAL APPLICATION OF FUND	12,428.28	11,803.30

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED

(RUPEES IN LAKHS)

PARTICULARS	AUDITED 31ST MARCH, 2017	AUDITED 31ST MARCH, 2018
TOTAL OPERATING RECEIPTS	23,293.87	22,434.51
TOTAL OPERATING EXPENSES	21,910.45	20,059.72
SURPLUS / (DEFICIT) BEFORE FINANCE COST AND DEPRECIATION	1,383.42	2,374.79
FINANCE COST	336.22	349.33
DEPRECIATION	2,322.03	2,427.44
NET SURPLUS / (DEFICIT)	(1,274.83)	(401.98)



SIKKIM MANIPAL INSTITUTE OF TECHNOLOGY

Sikkim Manipal Institute of Technology (SMIT) was established in 1997 as a constituent college of Sikkim Manipal University (SMU) and is approved by AICTE. SMIT had the distinction of prestigious accreditation for engineering disciplines by National Board of Accreditation (NBA)/ACCR-860/06 dated 22nd January 2008. SMIT has ISO 9001 certification vide AS/NZS ISO 9001:2008/ISO 9001:2008 for all its courses. SMU was established in 1995 via Act of Sikkim Government and is recognized by UGC under section 2(f) of UGC Act. It is an excellent model of Public Private Partnership (PPP).

SMIT is located at Majitar, near Rangpo, the border town of Sikkim with West Bengal. The institute's location on the banks of river Teesta, surrounded by green hills, adds to the colour and vibrancy of the campus, making it an ideal place for learning. It is safe, secure and provides an excellent academic environment.

As per CSR-GHRDC Ranking 2017, SMIT is placed in 1st position in the State of Sikkim, 3rd amongst Top Engineering Colleges of Eminence, 16th in overall Top 25 Engineering Colleges in terms of Faculty, Research, Consultancy, EDP & Other Programmes, 16th

amongst Top 25 Engineering Colleges in terms of Placement, USP, Social Responsibility, Networking & Industry Interface and 109th in overall ranking of Premier Engineering Institutions. SMIT is also ranked 71st in Outlook Top 100 Engineering Colleges in 2017.

SMIT has grown leaps and bounds in all spheres of activities, since its inception in 1997. Began with four B. Tech programs (CE, CSE, EEE & ECE) with a sanctioned student strength of 270, at present the institute offers six B. Tech programs (CE, CSE, EEE, ECE, IT & ME). In addition, M. Tech programs are also offered in Computer Science and Engineering, Digital Electronics & Communications Engineering, Information Technology, Power Electronics, Production Engineering and Structural Engineering. The institute also offers BBA, BCA, MBA, MCA, M.Sc. (Chemistry, Physics and Mathematics) and M.Sc IT programs. Ph.D. is offered in Engineering, Management and Science.

SMIT attracts students from all over the country and has over 3,000 students enrolled in various disciplines. The institute is the major destination for aspiring students of Sikkim for higher education.

It has contributed significantly towards educational prosperity of the state. Academic excellence is imparted by 187 full-time faculty members comprising of an erudite mixture of Post Doctorates, Doctorates, and Post Graduates. Regular workshops are conducted for Sikkim Government Officials and other organizations for work efficiency, stress management, personality development etc. SMIT takes pride in being selected by the Government of India, as a center for the whole North East Region to offer Diploma in e-Governance targeting mid-level government officials of North East Region.

The research environment is vibrant and dynamic. SMIT has successfully completed 57 sponsored projects worth Rs. 1263.33 Lakhs and at present 6 sponsored projects are being supported by funding agencies like AICTE, DST, DBT, DIT, DIET, DRDO SERB, ISRO and SMU. SMIT offers Centre of Excellence in “5G Internet of Things (IoT)”, “Healthcare Data Analytics” and “Graphene Back Surface Field Based Low Cost Silicon Nanowire Solar Cells” and “Remote Sensing and Geographical Information Systems (RS-GIS)”. A multi-crore project indigenously designed at SMIT for development of latest radar system in collaboration with DRDO, Hyderabad has been successfully completed and tested.

The institute has well-established research laboratories to pursue research in the frontier areas. The quality of research is exemplified by more than 90 publications in reputed journals and more than 85 conference publications in last one year alone. Faculty members have collaboration with researchers from reputed institutes of other countries. International collaboration in research provides an excellent opportunity for students with zeal and flair for research. It helps significantly in the academic growth of the students.

The institute has a significant number of postgraduate and doctoral students in Engineering, Management and Science which enrich the academic ambience and interaction. National, International Conferences and Workshops are organized by the various departments on regular basis. Student participation and interaction with renowned scientists is the hallmark of such events and helps in fostering the research acumen of the aspiring students. A few of the conferences hosted by SMIT are

- International Conference on Communication, Devices and Networking (ICCDN 2017) organized by Department of ECE during 3rd- 4th Jun, 2017.
- First International Conference on Advanced Computational and Communication Paradigms (ICACCP) organized by Department of CSE during 8th - 10th Sep, 2017.
- 1st International Conference on Mechanical Materials and Renewable Energy (ICMMRE - 2017) conducted by Department

of ME during 8th-10th Dec, 2017.

SMIT also hosted 2nd Manipal Student Research Colloquium (MSRC- 2018) during 15th-16th Mar, 2018. International Journals like IJEMR, IJAECE and ITSI-TEEE are associated as the major publication sponsors for MSRC-2018. The colloquium stimulated the research encouragement for the undergraduate and research scholars. It provided with a platform to share and discuss ideas for the upcoming professionals from the wide fields of applied sciences, engineering, management, humanities, and medical sciences etc.

Continuous Institute-Industry interaction in terms of syllabus designing helps the institute to make students more industry ready. This is further accentuated by final semester major project carried out by the students in industries. Many of the students are absorbed by them. The students are motivated to excel in all curricular and co/extracurricular activities. Ample opportunities are provided for student's growth as Techno-Managers and thorough professionals. SMIT has signed a Memorandum of Understanding (MoU) with Tech-Mahindra for Capability Development, up skilling graduate and postgraduate students / associates and faculty members / SMEs at both Tech Mahindra and SMIT. Tech Mahindra provides curriculum assistance for the courses too.

International internship opportunities are available to the students through The International Association for the Exchange of Students for Technical Experience (IAESTE). IAESTE is an association working towards an exchange of students among various universities and companies. After the establishment of International Collaboration Cell, SMIT in 2017, two of our students have got an opportunity to experience the exposure in Ege University, Bornova, Turkey and Thai Nguyen University of Technology, Vietnam last year. SMIT hosted two foreign students from Belarusian State University of Informatics and Radio Electronics, Belarus and Ha Noi University, Vietnam through the Student Exchange Programme.

SMIT builds partnerships with outstanding academic and other institutions across the globe namely Aurel Vlaicu University of Arad, Romania and Baekseok University, Republic of Korea to share international knowledge and expertise. On 27th March, 2018, Director, SMIT and Director, Firma POLKOWSKI, CompExpert, Polkowice, Poland signed a MoU to facilitate and develop a genuine and mutually beneficial process for exchange of students for Industrial Training. SMIT also collaborated with Jan Wykowski University, Poland on academic and research related activities between the two institutions.

Alumni Engagement Cell, SMIT had launched a Mentorship Program in the year 2017. The prime motto of Mentorship program is to connect the student body with specific mentors who would effectively and efficiently assist them on parameters like technical skill, industry insights, communication skill etc. The cell organized a workshop on “Artificial Intelligence and Machine Learning” during 19th – 21st August, 2017 at SMIT where Mr. Jaskirat Singh (alumni of SMIT) had been the Resource Person.

The Institute has a vibrant Training and Placement Cell that ensures campus placements for students. The institute can boast of an excellent placement record of the eligible candidates in various reputed companies of India, with many having multiple job offers. Full duration last semester industry oriented major projects and industry oriented courses help the students to get first-hand training and understand the requirements of the industry and hence prepare them well for the future. The success of alumni of the college in various high profile jobs and higher education in best institutes in India and across the globe reflects the exceptional quality of training imparted in SMIT and is an additional impetus for the budding students. Students pursue Project Training in many premier Industrial/ Research Establishments such as Dell, TCS, Ericsson, Wipro, Wells Fargo, Safran, Ixia, Think & Learn, Titan, HCL and many more. Most of the students are provided with stipend during Internship by the industries. Major Recruiter for 2017-18 were Microsoft, Ixia, Dell India, Wells Fargo, Bosch, Ais, Wipro, Thought Works, Just Dial, Ags, Capgemini, Smartprix, Proto Tech, Poornam Infovision, Click On Care, Paragyte, Think & Learn, Amazon, Global Logic, Microsoft, Solarize, Igenesys, E-Construct, Daikin, Telview, Lt Elevators. Microsoft offered the highest salary package of INR 22+ LPA for 2018 outgoing batch.

Entrepreneurship Development Cell, SMIT is an integral part of the institute that addresses needs of the society with innovations catering to the local needs. It incubates and nurtures a grass root creativity and innovation towards a viable product. In addition to the students, locals are also trained to start their own ventures. The innovative aptitude of our students motivates them to become entrepreneurs. Some of the companies that are presently incubated are After Glow Pvt Ltd., Untapped Technologies Pvt Ltd., Gooks Pvt Ltd. and Helpean Pvt Ltd. The center is in the process of designing an MVP (Minimum Viable Products) like AI controlled Bicycle, Wearable Device, Solar Car, Low-Cost Graphene etc. Three Start-ups by students have been registered under Government of India. One of the Start-Ups - “After Glow Pvt. Ltd.” has been selected amongst the winners of Elevate 100 by Government of Karnataka in August, 2017. Entrepreneurs Meet, 2017 was a huge success with the

participation of famous innovators namely Mr. Sonam Wangchuk, Founder and Director of Himalayan Institute of Alternatives, Ladakh and Who’s Who from various industries, corporations and investors. It was sponsored by North Eastern Council, Government of India and also supported by NASSCOM.

SMIT is reputed for its state of the art infrastructure. The Central Library of SMIT meets the academic and research needs of the teachers, research scholars and the students. The library is a two-storied building with 3,500 sq. m. carpet area. The total seating capacity of Library is 541 users at a time. It has built up a rich collection of all branches of Engineering, Science and Management. Central Library is a member of DELNET for online access of e-journals and e-books. Library LAN has become a part of campus-wide Network that has made it possible for the academic community of different departments to access information.

The institute offers excellent hostel facilities for both boys and girls. There are two boys’ hostels with thousand double sharing rooms and the two girls’ hostels with four hundred double sharing rooms. Hostels have attached baths, 24 hours running water with hot water facilities for winters, night canteens inside hostels, an electrical sub-station for 24-hour generator support etc. The hostels are supported by well-trained staff. The faculty members act as wardens to address the problem of any kind, the students face.

SMIT shopping complex consists of day-to-day facilities including Bank, ATM, Post Office, Stationery Shop, Binding, Lamination, Xerox Shop, Beauty Parlour/ Barber Shop, Pharmacy etc. In addition, stationery shop, SMIT Brand Shop and SBI ATM are also located within the academic premises. The institute has an ultra-modern indoor sports complex and a sprawling Food Court is also a part of the complex. Temperature Controlled Swimming Pool, Bowling Alley, Squash Court, Multi-Purpose Gym Hall, Yoga Room, Aerobics Room, Meditation Room, Table Tennis, Foos Ball, Carrom, Sauna Bath, Steam Bath, Badminton Court, Basket Ball Court, Auditorium and Tennis Court are various facilities available in the complex. Albeit, located in a hilly terrain, the institute has good outdoor facilities with football/cricket ground, lawn tennis, volleyball and basketball.

In addition, the Institute has a unique Teacher Guardian Scheme which provides academic, moral and social support to the students, and one-to-one basis interaction with the parents. Benevolent Fund Scheme of the institute supports the students in case of unforeseen incidents and is well appreciated by the student community. SMIT Health Centre provides primary healthcare to the students and staff. Resident doctors and nursing staff along with ambulances are

available round the clock. In addition, Central Referral Hospital of the University located at Tadong provides with general and specialized services. Students are covered under MEDICARE scheme for treatment in a super specialty unit under the university. All these facilities and amenities have made SMIT one of the best and most sought-after engineering and management institutes in the nation.

Student societies of the departments organize techno-fests and

cultural activities regularly. Students regularly participate and have been receiving awards in various categories in techno-fests organized by leading technological institutes of India.

In gist, SMIT is an excellent learning hub for overall development of aspiring future engineers and managers of the country.

SMIT INFRASTRUCTURE

- **100 KW Solar Power Generating System:** The system has 4 units of 25 KW each. It was installed and commissioned during the month of December, 2017 at a cost of Rs. 22.50 Lacs. The system is generating on an average of 400 units (Kwh) per day. (Rs. 22.5 lakhs)
- **Fire Hydrant Work:** Fire hydrant work for SMIT campus is under progress and likely to be completed by 15th May, 2018. (Rs. 210 lakhs)
- **New Drain and a Retaining Wall:** A new drain of approx. 190 mtr from the substation to the boundary wall and a retaining wall of 5 mtr height near substation have been created to stop the erosion of earth and retain the collapsed earth. (Rs 53 lakhs)
- **Replacement of Lifts (Elevators):** Two lifts (Elevators) have been replaced -one at Hostel No. 1 of capacity of 15 passengers and another at Hostel No. 3 (Girls Hostel) of capacity of 8passengers. Order for replacement of two more elevators has been placed - one for Hostel No. 1 and another for Hostel No. 2. Both do have15 passengers capacity. (Rs.33 lakhs and Rs.35 lakhs)
- **Development of Children Park including Walking Path:** A children park including walking path has been created in front of Staff Housing. (Rs. 13.5 lakhs)
- **Teesta Water Supply Project:** The railway project is coming up in Sikkim. Institute's water catchment area and the pipeline will be affected for this upcoming project. There might be a huge crisis of water in SMIT Campus. Therefore, a decision was taken to utilize the Teesta water with proper treatment. Appropriate water treatment plant with collection chamber need to be constructed for this purpose. Approximately an amount of Rs. 6 crores will be required to complete the project. The consultant has been appointed for designing and the same is under progress.
- **New Office for Distance Education Wings:** Finishing work of the first floor of 'F' Block near M.Sc. building has been done for Distance Education Wing. The work has been completed and the office has been shifted from SMIMS campus, Tadong to SMIT Campus, Mazitar.





CENTER FOR MATERIALS SCIENCE AND NANOTECHNOLOGY (CMSNT)

No. of Faculty Members: 02

Names of Faculty Members: Prof. (Dr.) Somenath Chatterjee, Dept of ECE

Dr. Bibhu Prasad Swain

Number of Non Teaching Staffs (Non Technical): 01

Names of Non Teaching Staffs (Non Technical): Mrs. Puspa Kala Pradhan

Details of the Paper Published by the Faculty Members

in IChhetri N, / Chatterjee S, "Effect of Grain Boundaries on the Performance of Thin-Film-Based Polycrystalline Silicon Solar Cells: A Numerical Modelling", *Journal of Materials Engineering and Performance*, Accepted, 2018.

• **Pal H., Bhubna S., Kumar P., Mahapatra R., Chatterjee S., "Synthesis of Flexible Graphene/Polymer Composites for Supercapacitor Applications", *Journal of Materials Engineering and Performance*, Accepted, 2018.**

• **Samanta D., T. Chanu T. I., Basnet P., Chatterjee S., "Organic Dye Degradation under Solar Irradiation by Hydrothermally Synthesized ZnS Nanospheres", *Journal of Materials Engineering and Performance*, Accepted, 2018.**

• **Chanu T. I., Samanta D., Tiwari A., Chatterjee S., "Effect of Reaction Parameters on Morphology and Photoluminescence of Intrinsic and Mn-doped ZnS Microspheres Synthesized by Hydrothermal Method", *Journal of Materials Engineering and Performance*, Accepted, 2018.**

• **Balaji N., Nguyen H. T., Park C., Ju M., Raja J., Chatterjee S., Jeyakumar R., Yi J., "Electrical and optical characterization of SiO₂/SiO_xN_y and SiO₂ dielectric layers and rear surface passivation by using SiO₂/SiO_xN_y stack layers with screen printed local Al-BSF for c-Si solar cells", *Current Applied Physics*, Vol. 18, pp 107-113 (2018).**

• **Das S., Datta S., Chatterjee S., "A MATLAB-Based Simulator for Amorphous Silicon and Polycrystalline Silicon Thin Film Transistor", *Advances in Electronics, Communication and Computing*, pp 733-744, Springer, 2018.**

• **Guha S., Das S., Bandyopadhyay A., Das S., Swain B. P., "Investigation of structural network and mechanical properties of Titanium silicon nitride (TiSiN) thin films", *Journal of Alloys and Compounds*, Vol. 731, pp 347-353 (2018).**

- **Kumar D., Rizal U., Das S., Swain B. S., Swain B. P.,** “*Micro-Raman and FTIR Analysis of Silicon Carbo-Nitride Thin Films at Different H₂ Flow Rate*”, **Advances in Electronics, Communication and Computing**, pp 77-83 (2018).
- **Agarwal A., Pradhan P. C., Swain B. P.,** “*From FET to SET: A Review, Advances in Electronics*”, **Communication and Computing**, pp 199-209, (2018).
- **Kumar D., Swain B. P.,** “*Characterization of Silicon Carbo-Nitride Thin Films*”, **Advances in Electronics, Communication and Computing**, pp 131-138 (2018).
- **Ghadai R. K., Das S., Mondal S. C., Swain B. P**
- “*Investigation of Structural and Electronic Environments of Nitrogen-Doped CVD-Grown DLC Films*”, **Advances in Electronics, Communication and Computing**, pp 169-179 (2018).
- **Guha S., Bandyopadhyay A., Das S., Swain B. P.,** “*Investigation of Titanium Silicon Nitride: A Review*”, **Advances in Electronics, Communication and Computing**, pp 169-179 (2018).
- **Agarwal A., Pradhan P. C., Swain B. P.,** “*Triple Gate SOI MOSFET*”, **Advances in Electronics, Communication and Computing**, pp 103-114 (2018).
- **Das S., Swain B. P.,** “*Investigation of Titanium Aluminium Nitride (TiAlN): A Review*”, **Advances in Electronics, Communication and Computing**, pp 147-158 (2018).

Faculty Achievement:

- Prof. (Dr.) Somenath Chatterjee, HOD-CMSNT received a certificate of appreciation regarding the Outstanding Contribution as a Reviewer for the International SCI-Scopus

listed journal, Results in Physics, Elsevier, Amsterdam, The Netherlands.

- Prof. (Dr.) Somenath Chatterjee, HOD-CMSNT was an Invited Speaker in First International Conference on Advanced Computational and Communication Paradigms (ICACCP) during 8th-10th September 2017, Sikkim Manipal Institute of Technology, Sikkim, India.
- Prof. (Dr.) Somenath Chatterjee, HOD-CMSNT was an Invited Speaker in Recent Trends in Material Research on 7th September, 2017, Siliguri Institute of Technology (SIT), Siliguri, India.

Ongoing Research Project Details:

- Synthesis, Characterization and Photocatalytic activities of pure and metal doped semiconductor nano-composites (Ref# SR/WOS-A/CS-120/2013) Funding Agency: Dept. of Science & Technology, Govt. of India, Worth Rs. 29 Lakhs.
- Cost effective thin film polycrystalline Silicon Solar Module (Ref# DST/TM/SERI/2K12/15) Funding Agency: Dept. of Science & Technology, Govt. of India, worth Rs. 111 Lakhs.
- Graphene back surface field based low cost Silicon nanowire solar cells. Funding Agency: Manipal Endowment fund, Manipal group, Worth Rs. 33.8 Lakhs.

Student's Activities:

- Ms. Rabina Bhujel, Ph.D scholar of CMSNT received best Poster award in International Conference on Thin films-2017, held on Nov, 2017 at NPL-Delhi. On January 2018, the committee declared the prize.



DEPARTMENT OF CHEMISTRY

No. of Faculty Members: 10

Names of Faculty Members:

- Prof. Sangeeta Jha
- Prof. Sanjay Dahal
- Prof. N. K. Bhattacharyya
- Dr. Satadru Jha
- Dr. Manoranjan Pandey
- Dr. Ramesh Sharma
- Dr. Santanu Gupta
- Dr. Moazzam Ali
- Dr. S. K. Biswas
- Dr. Joydeep Biswas

Number of Non-Teaching Staffs (Technical): 02

Names of Non-Teaching Staffs (Technical):

- Mr. Navin Dhaka
- Mrs. Sushma Chettri

Number of Non-Teaching Staffs (Non-Technical): 03

Names of Non-Teaching Staffs (Non-Technical):

- Mr. Kirti Chettri
- Mr. Manoj Kumar Rai
- Mrs. Purna Kumari Subba

Details of Conference / Workshop / Seminar / CME conducted by the Department:

- Workshop: "Science Academies" Lecture Workshop on "Emerging trends in Chemistry and its pharmaceutical applications" was organized during 30th - 31st October 2017 by the Dept. of Chemistry at Sikkim Manipal Institute of Technology. Coordinator: Prof. N. K. Bhattacharyya

Details of the Paper Presented by the Faculty Members / Students in Conference / Seminar:

- Jha Sangeeta, Bhatnagar Nitu., "High performance polymeric nano composite and its technological applications", 24th ISCB International Conference (ISCBC-2018) on Frontier Research in Chemistry & Biology Interface, scheduled from 11th-13th January, 2018 at Manipal University Jaipur.
- Subba Asha, Pandey Manoranjan, Jha, Sangeeta, Dolma Karma Gurmey, "Heavy metal and Bacteriological analysis in spring water of North Sikkim, with reference to seasonal variation", Manipal Student Research Colloquium, 15th - 16th March, 2018, at SMIT.

- Dutta Deep Jyoti, Saikia Snigdha, Narzary, Bardwi, Bordoloi Manobjyoti, Bhattacharyya Nayan Kamal., "Isolation, characterization and biological activities of the compound from *Pothos scandens* L", National Conference on "Recent Trends in Environment Responsive Chemical processes (RPERCP – 2017)" organized by Department of Chemistry, DR College, Golaghat, Assam during 22nd-23rd September 2017 and sponsored by UGC, New Delhi.
- Gupta Santanu, Mishra Bidyut Kumar, "Whether a decade-long implementation of eco-development in Kalakad-Mundanthurai Tiger Reserve, Tamil Nadu, India, was successful in reducing resource dependency, and therefore anthropogenic pressure on park?", in International Symposium on Biodiversity and Bio banking by Centre for Environment, IIT Guwahati, during 27th- 29th January 2018.
- Yadav Shilpa, Biswas Joydeep and Bandita Datta; "Copper oxide nanoparticles: Synthesis, photocatalytic activity and its application in catalysis", International Conference on Nanomaterials and their Applications, 1st – 2nd March, 2018, University of Mysore, India.
- Dr. Moazzam Ali has chaired in an International conference on "Contemporary issues in integrating climate-the emerging areas of agriculture, horticulture, biodiversity, forestry; engineering technology, fundamental/ applied science and business management for sustainable development (AGROTECH-2017)" organised by Himalayan scientific society for fundamental and applied research in collaboration with Klimpong Science Centre, Klimpong and UBKV on 11th and 12th May 2017.
- Mr. Anup Gurung has been awarded the Ph. D degree under the guidance of Prof. Sanjay Dahal in Convocation of SMU in 2017
- Prof. (Dr.) Sanjay Dahal has been appointed as Co-ordinator, IQAC.
- Prof. (Dr.) N. K. Bhattacharyya has served as a Co-ordinator Science Academy Workshop, October 2017
- Prof. (Dr.) N. K. Bhattacharyya has been appointed as appointed as Head Alumni Engagement Cell.

Faculty Achievement:

- Prof. (Dr.) Sangeeta Jha has been awarded Certificate of Appreciation for putting sincere effort in adding research strength of the institute through research infrastructure development project under DST – FIST on Annual Day 07th April 2017 by Director SMIT.
- Prof. (Dr.) Sangeeta Jha has served as a member of Editorial board of Crop Research Journal and also editorial board of Bio Info publications – Environment & Pollution in 2017.
- Prof. (Dr.) Sangeeta Jha has served as a reviewer of Polymer International.
- Prof. (Dr.) Sanjay Dahal has published two patents: (1) Application no. 201731027531A, publication dated 05/01/2018 on "A chemical sensor and a method of preparation thereof". (2) Application no. 201731027530A, dated 05/01/2018 on "A pharmaceutical compound with anti cancer activity".
- Dr. Moazzam Ali has served as a member of syllabus review committee in May, 2017.
- Dr. Satadru Jha is a participant of ongoing SMILE-3 program of Manipal Group.
- Dr. Satadru Jha has been appointed as Warden of boys Hostel, SMIT.
- Dr. Ramesh Sharma is a participant of ongoing SMILE-3 program of Manipal Group.
- Dr. Ramesh Sharma has been appointed as website auditor of SMIT.
- Dr. Manoranjan Pandey has served as a reviewer of Journal of Thermal Analysis and Calorimetry
- Dr. Joydeep Biswas has been appointed as a member of Faculty Development Program and Alumni Engagement Cell.

Ongoing Research Project Details:

- DST-FIST Level – I grant received from DST, Govt. of India, for improvement of infrastructure in science & technology for the period of five years (Nov. 2013 – Nov. 2018).

Student's Activities/Achievement:

- The following students of M.Sc. Chemistry have received Scholarship from SICPA India Private Ltd, Mamring, South Sikkim.
- Sunanda Sharma
- Mridusmita Choudhury

- M.Sc. students participated in inter departmental cricket tournament during February 2018.

New Initiatives:

Computer & networking Lab with Server has been setup in the Department for M.Sc. Students.

Procured Shimadzu Differential Scanning Calorimeter DSC-60 plus for M. Sc. Research Project Lab.

Placement Record:

Company/Institute	No. of Students
Macleod Pharmaceutical	04
Eveready Industries	02
Academic Institute	06
Total	12





DEPARTMENT OF CIVIL ENGINEERING

No. of Faculty Members: 16

Names of Faculty Members:

- Dr. Chandrashekhar Bhuiyan
- Mr. Sajal Sarkar
- Mr. Guru Prasad Sharma
- Mrs. Reena Pradhan
- Mr. Axay Thapa
- Mr. Sourav Gupta
- Mr. Supradeep Singh
- Mr. Soumyadip Chowdhury
- Mr. Sushen Kumar Roy
- Mr. Abhranil Adak
- Mr. Ramachandra Gollar
- Mr. Tamal Ghosh
- Mr. Probhakar Chakraborty
- Ms. Uden K Sherpa
- Mr. Kiran S
- Mrs. Upama Bomzon

Number of Non-Teaching Staffs (Technical): 04

Names of Non-Teaching Staffs (Technical):

- Ms. Mamta Pariyar
- Ms. Kriti Pradhan
- Mr. Krishna Rai
- Mr. Chundga Bhutia

Number of Non-Teaching Staffs (Non-Technical): 04

Names of Non Teaching Staffs (Non Technical):

- Mrs. Prema Doma Tamang
- Mr. Bidhan Rai
- Mr. Buddha Majhi
- Mr. Ranjan Pradhan

Details of Conference / Workshop / Seminar / CME conducted by the Department:

- Workshop on “Bridge Design Fabrication & Testing” held on 9th-10th October, 2017 conducted by Sky-fi Labs.
- Workshop on “Seismic Design of Building” held on 11th-12th October, 2017 conducted by Sky-fi Labs.

- Workshop on “Tall Building Design” held on 13th-4th October, 2017 conducted by Sky-fi Labs.

Details of the Paper Published by the Faculty Members in International / National Journals:

- Bhuiyan C., Saha A.K, Bandyopadhyay N, Kogan F N, “Analyzing the Impact of Thermal Stress on Vegetation Health and Agricultural Drought-A case Study of Gujrat India”, **GScience& Remote Sensing** 54 (5) (2017)pp (678-699).
- Bhuiyan, C. And Champati Ray, P.K.“Ground Water Quality Zoning in the Perspective of Health Hazards”**WaterResour Manage** (2017) 31: 251. <https://doi.org/10.1007/s11269-016-1522-4>.
- Details of the Paper Presented by the Faculty Members / Students in Conference / Seminar:Adak A., “Turbulent Flow Characteristics Over the Gravel Bed”, **1stIOP International Conference on Mechanical Materials and Renewable Energy (ICMMRE-2017)** published by IOP,2018.

Faculty Achievement:

- Asst. Prof. Mr. G.P. Sharma and Mr. Sajal Sarkar from Civil Engineering Department were given the opportunity to join in the expert team for third party quality control monitoring by Sikkim Housing and Development Board.
- Asst. Prof. Mr. G.P. Sharma from Civil Engineering Department was approached by Urban Development& Housing Department, Sikkim for evaluation of Construction of Approach Road to Landfill from NH 10 at Martam. The analysis is completed and report is submitted.
- Mr. G. P. Sharma, Ms. Uden K Sherpa and Mrs. UpamaBomzonhave been appointed as the State Technical Agency by Rural Management and Development Department for all PMGSY related works in the state of Sikkim.

Ongoing Research Project Details:

- State Specific Action Plan on Water Sector. Total Approved Grant: Rs. 30 L
- PI: Dr. C. Bhuiyan
- Co-PI: Mr. Abhranil Adak
- Co-PI: Mr. Guru Prasad Sharma

Student’s Activities:

- Civil Engineering Students Association (CESA) organized Departmental farewell program on 15th November, 2017.

Placement Record:

Company Name	CSE
E-Construct	11
I-Genesis	9
TOTAL	20





DEPARTMENT OF COMPUTER APPLICATIONS

No. of Faculty Members:10

Name of faculty members

- Dr. Ratika Pradhan
- Dr. Samarjeet Borah
- Dr. Mousumi Gupta
- Mr. Krishna Vijay Singh
- Mrs. Kapila Sharma
- Mr. Bishal Pradhan
- Mr. Ranjit Panigrahi
- Mr. Gopal Thapa
- Mrs. Moumita Pramanik
- Mr. Dipendra Gurung

Number of Non-Teaching Staffs (Technical):2

Name of Non-Teaching Staffs (Technical):

- Mrs. Hemant Chettri
- Ms. Sarika Gurung

Number of Non-Teaching Staffs (Non-Technical):2

Number of Non-Teaching Staffs (Technical):

- Mr. Dhurba Kumar
- Mr. Lalit Gurung

Details of Conference / Workshop / Seminar / CME conducted by the Department:

- International Conference on Computing and Communication conducted on 23rd to 24th March 2018 by the Department of Computer Applications.

Details of the Paper Published by the Faculty Members in International / National Journals:

- Borah Samarjeet, Bora Bedanta, Chungyalpa Wangchuk., "Crafting Strategic Objectives: Examining the Role of Business Vision and Mission Statements", **Journal of Entrepreneurship & Organization Management**, Vol. 6(1), 2017, ISSN: 2169-026X, doi: 10.4172/2169-026X.1000205.
- Gurung, Dipendra, Chakraborty Udit Kr., Sharma Pratikshya, "An analysis of the Intelligent Predictive String Search Algorithm: A Probabilistic Approach", **International Journal of Information Technology and Computer Science**, 2017, 2, pp 66-75, Published Online February 2017 in MECS (<http://www.mecspress.org/>) DOI: 10.5815/ijitcs.2017.02.08

- Gurung Dipendra, Chakraborty Udit Kr., Sharma Pratikshya, “Intelligent Predictive String Search Algorithm, Elsevier, *Procedia Computer Science*”, **Proceedings of International Conference on Communication, Computing and Virtualization (ICCCV) 2016**, Volume 79, 2016, Pp 161-169.

Details of the Paper Presented by the Faculty Members / Students in Conference / Seminar:

- BorahSamarjeet, Choden Upali, and Lepcha Narmit, “Design of a Morph Analyzer for Non-Declinable Adjectives of Nepali Language”, *Proc. of ICMLSC-2017*, 13-16 Jan. 2017, SCIEI, Ho Chi Minh City, Vietnam, ISBN: 978-1-4503-4828-7, pp. 126-130
- Dutt Inadyuti, Borah Samarjeet, Maitra Indra Kanta, Bhowmik Kuharan, Maity Ayindrilla, Das Suvosmita, “Real-time Hybrid Intrusion Detection System using Machine Learning Techniques”, **Proc. of the first International Conference in Communication, Devices and Networking (ICCDN 2017)**, Springer LNEE, 3th – 4th June 2017, SMIT.
- Giri Diksha, Borah Samarjeet, Pradhan Ratika, “Approaches and Measures to Detect Wormhole Attack in Wireless Sensor Networks: A Survey, Real-time Hybrid Intrusion Detection System using Machine Learning Techniques”, **Proc. of the first International Conference in Communication, Devices and Networking (ICCDN 2017)**, Springer LNEE, 3th – 4th June 2017.

Faculty Achievements:

- Mrs. Mousumi Gupta successfully completed Ph.D on “**Some Investigation on Target Detection for Possible Use in Surveillance**”.
- Mr. Gopal Thapa successfully completed Ph.D on “**Video Compression Using Discrete Wavelet Transform**”.
- Dr. Ratika Pradhan acted as a Resource Person for ‘An Orientation Programme on Capacity Building’ of teachers on Information and Communication Technology on 15th-17thMarch 2017 at (SCERT-Sikkim).

On-going Research Projects details-

- Mr. Krishna Vijay Kr. Singh is pursuing Ph.D in the field

Computer Network.

- Mr. Ranjit Panigrahi, pursuing Ph.D on “**Design and Development of Host Based Intrusion Detection System.**”

Students Activities (Curricular/Co-Curricular)

- **Project Description:** An online blood donor information system is developed by which a needy can collect the information of the donor online in a single platform. The project had been approved by the Government of India and constant work is being going on as per the instruction of the Government.

Recognition Number: PMOPG/E/2017/0090791 DATED 14.02.2017

- Two day workshop on Ethical Hacking and Cyber Security was conducted on 14th-15th October 2017 by Computer Applications Student Society (CASS), Department of Computer Application, Sikkim Manipal Institute of Technology, Majhitar in Collaboration with IIT Hyderabad and Azure Skynet Pvt. Ltd New Delhi.

Placement Record:

COMPANY	No. of Students
TECH MAHINDRA	02



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

No. of Faculty Members: 32

Names of Faculty Members:

- Dr. Kalpana Sharma
- Dr. Chingtham Tejbanta Singh
- Mr. Udit Kumar Chakraborty
- Dr. Sandeep Gurung
- Mr. Biswaraj Sen
- Mrs. Prativa Rai
- Mr. Santanu Kumar Misra
- Mr. Dhruva Ningombam
- Dr. Ruhul Islam
- Mr. Tawal K. Koirala
- Mr. Sanjoy Ghatak
- Mr. Kiran Gautam
- Mr. Ish Nath Jha
- Ms. Minakshi Roy
- Mr. Sourav Paul
- Ms. Sujala Pradhan
- Mr. Dependra Dhakal
- Mr. Ashis Pradhan
- Ms. Pratikshya Sharma
- Mr. Vikash K. Singh

- Ms. Bijoyeta Roy
- Mrs. Chitrapriya N.
- Mr. Suman Kalyan Kar
- Ms. Shrijana Pradhan
- Ms. Pratima Sarkar
- Mr. Chinmoy Kar
- Mr. Debanjan Konar
- Ms. Saswati Bhattacharya
- Ms. Jhuma Sunuwar
- Mr. Biraj Upadhyaya
- Ms. Nitisha Pradhan
- Mr. Sunil Dhimal

Number of Non-Teaching Staffs (Technical): 05

Names of Non-Teaching Staffs (Technical):

- Mr. S. Kalita
- Mr. Lokesh Poudyal
- Mr. Diwas Sharma
- Ms. Sangita Adhikari
- Ms. Sneha Sinha

Number of Non-Teaching Staffs (Non-Technical): 06

Names of Non Teaching Staffs (Non Technical):

- Mrs. Namita Dahal
- Mrs. Amrita Biswakarma
- Mr. Krishna Pokhrel
- Mr. Bhim Tamang
- Mr. Ram Majhi
- Mr. Ronald Lepcha

Details of Conference / Workshop / Seminar / CME conducted by the Department:

- First International Conference on Advanced Computational and Communication Paradigms (ICACCP), 8th-10th September 2017. Technically co-sponsored by IEEE Kolkata Section and IEEE Computational Intelligence Society, Kolkata Chapter IEEE Conference (Record # 42882). Proceedings will be published in two volumes by Springer (Advances Intelligent Systems and Computing (AISC) and Lecture Notes in Electrical Engineering (LNEE) and indexed in ISI Proceedings, DBLP, EI-Compendex, SCOPUS, eta Press, Springer link).
- Workshop on “NPTEL Courses & its awareness” held on 24th September, 2017 conducted by Mr. S.S. Das, Network Engineer, IIT Kharagpur.
- Training program on Big Data Analytics with Hadoop from 24th May 2017 to 10th June 2017 jointly conducted by Department of CSE and Netspect Solution.

Details of the Paper Published by the Faculty Members in International / National Journals:

- Chakraborty Udit Kr., Roy Samir, Choudhury Sankhayan, “A Fuzzy Indiscernibility Based Measure of Distance between Semantic Spaces Towards Automatic Evaluation of Free Text Answers”, **International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems**, Vol. 25, No.6 (2017), DOI: 10.1142/S021848851750043X, pp 987-1004.
- Ghosh Papri, Chingtham Singh Tejbanta, Ghose M. K, “An Empirical Homophone Ambiguity Compression (HAC) from Involuntary Speech Identification”, **International Journal of Control Theory and Application**, International Science Press, Volume 10, Number 31, 2017.

Details of the Paper Presented by the Faculty Members / Students

in Conference / Seminar:

- Ferdousi Khatun and Islam Ruhul, “Security in Cloud Computing-Based Mobile Commerce”, **1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEEERE-2016)**, published by Springer, 2018.
- Gurung Sandeep and Chakraborty Mrinaldeep, “Multiple Information Hiding in General Access Structure Visual Cryptography using Q-tron Neural Network”, **1st International Conference on Advanced Computational & Communication Paradigms (ICACCP-2017)**, 9th – 11th Sep 2017.
- N. Chitrapriya, Md. Islam Ruhul, Roy Minakshi and Pradhan Sujala, “A Study on Different Normalization Approaches of Word”, **1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEEERE-2016)** published by Springer, 2018.
- Bhandari Aishwarya, Gautam Samala, Koirala Tawal K. and Islam Md. Ruhul, “Packet Sniffing and Network Traffic Analysis Using TCP—A New Approach”, **1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEEERE-2016)**, pp 273-280, [978-981-10-4765-7_28], published by Springer, 2018.
- Kar Chinmoy, Kar Suman Kalyan, Bannerjee Sreeparna, “An Approach for Visual Cryptography Scheme on Color Images”, **1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEEERE-2016)** published in springer, vol 443, pp. 501-508, 2018.
- Kar Chinmoy, Bannerjee Sreeparna, “An Approach towards Automatic Intensity detection of tropical cyclone by weight based unique feature vector”, **Computational Intelligence and Computing Research (ICCIC-2016)**, PP-1-4, IEEE publisher.
- Ghatak Sanjoy, “Facial Representation using Linear Barcode”, **1st International Conference on Advanced Computational & Communication Paradigms (ICACCP-2017)**, 9th-11th Sep 2017.
- Sarkar Pratima, Kar Chinmoy, “TH-Leach : Threshold and Heterogeneous Node Based Energy Efficient Leach Protocol”, **Conference on Algorithm and Application**, vol-3,

10th – 12th Jan 2018.

- Roy Minakshi, Peshwe Surbhi, Pratik, “Comparative analysis of hierarchical protocols in Wireless Sensor Network: LANMAR, FSR AND STAR”, Journal of Innovation in Computer Science and Engineering, Volume 7, Issue I, July-Dec 2017.
- Pradhan Shrijana, Sharma Kalpana, Sinha Eshita, “Data Fusion by Truncation in Wireless Sensor Network”, Lecture Notes Electrical Engineering, International Conference on Advanced Computational and Communication Paradigms, Vol. 475, 2017.
- Sen Biswaraj, Goldie M, Sharma Kalpana, Ghose Mrinal Kanti, Sinha Sanku, “Mitigating Black Hole Attack in MANETs Using a Trust Based Threshold Mechanism”, First International Conference on Advanced Computational and Communication Paradigms - 2017, SMIT Sikkim, Sept 8th-10th, 2017.

Faculty Achievement:

- Prof. (Dr.) Kalpana Sharma is a member of curriculum drafting committee for new engineering college to be established by the state Government under the name of Sikkim Institute of Science & Technology.
- Mrs. Pratiba Rai Participated in QIP Short Term Course on “Algorithmic Game Theory and Mechanism Design” conducted during 10-14th April, 2017 at CCE, IISc, Bengaluru.
- Sunil Dhimal attended Faculty Development Program on “Object Oriented Programming”, during 20 to 29 November 2017, organized by: Ministry of Electronics & Information Technology at Indian Institute of Technology, Guwahati.
- 3 (three) Research Scholars were awarded Ph. D in the academic year 2017-18.
- Prof. (Dr.) Kalpana Sharma was the reviewer of Ph. D thesis of Jain University.
- Prof (Dr.) C.T. Singh and Mr. Ish Nath Jha participated in “Training of Trainers of Entrepreneurs” at Indian Institute of Entrepreneurs, Guwahati from 12th Feb 2018 to 16th February 2018.
- Editors of Book titled “Advanced Computational and Communication Paradigms (Proceedings of International

Conference on ICACCP 2017, Volume 2, Siddhartha Bhattacharyya, Nabendu Chaki, Debanjan Konar, Udit Kr. Chakraborty, and Chingtham Tejbanta Singh.

- Prof.(Dr.) Kalpana Sharma is designated as external member of Ph. D syllabus review committee at Sikkim University.
- Editors of Book titled “Advanced Computational and Communication Paradigms (Proceedings of International Conference on ICACCP 2017, Volume 1, Siddhartha Bhattacharyya, Tapan K. Gandhi, Kalpana Sharma, Paromartho Dutta, (Eds.).
- Jhuma Sunuwar securing 1st position (woman) in Marathon which was conducted by SMIT.

Ongoing Research Project details:

Healthcare Data Analytics

The primary objectives of the project are to implement concepts of data analytics in healthcare domain thereby improving healthcare services, facilitate and foster research in the area of data analytics and to provide platform and resources to students for conducting projects on Data Analytics domain.

Total Approved Grant: Rs. 29.12 L

(Endowment Fund SMU)

PI: Dr. Kalpana Sharma

Co-PI: Mr. Sunil Dhimal

Student's Activities:

- Mr. Sujeet Sharma, Student of Department of Computer Science & Engineering participated in 6th International Conference at KIIT University on “Frontiers in Intelligent Computing: Theory and Applications on 14th-15th October 2017.
- Mr. Tabish Imran Reg. No. 20130242 (4th Year CSE student) selected in prestigious Google Summer of Code 2017 under the metasploit project.
- Miss. Priyanka Priyadarshni Pradhan, M.Tech (C.S.E) student is awarded with best paper award in MSRC 2018 at SMIT.
- Blood donation camp on 15th October 2017 by student body.
- “CLEAN MY CAMPUS” on 20th August 2017.
- Digital Awareness Programme (Paytm) phase II organized by

Access of CSE department on 5th May, 2017.

- C workshop on (1st- 3rd September 2017)
- Human Values Workshop (18th January 2018).
- Java Workshop (29th – 31st January 2018).
- C Workshop (23th-25th January 2018).
- Computer Awareness Program at Little Angel, Pedong, Kalimpong on 26th January 2018.

New Initiatives:

- Formation of CSI (Computer Society of India) Student chapter.
- Formation of IEEE (Institute of Electrical and Electronics Engineers) Student chapter.
- New Facility: Multi-computing Lab with 72 numbers of high end machines.

- Registration in online courses: NPTEL, Coursera.

Placement Record:

Company Name	CSE
IXIA	13
DELL INDIA	6
WELLS FARGO	9
BOSCH	10
WIPRO	22
JUST DIAL	4
AGS	13
CAPGEMINI	13
PROTO TECH	1
POORNAM INFOVISION	3
CLICK ON CARE	17
PARAGYTE	2
THINK & LEARN	3
AMAZON	5
GLOBAL LOGIC	11
MICROSOFT	1
MICROSOFT	1
TELVIEW	2
TOTAL	136





DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

No. of Faculty Members: 17

Names of Faculty Members:

- Dr. K.S. Sherpa
- Mr. Mohammed Nasir Ansari
- Mr. Amit Kumar Singh
- Dr. Moumi Pandit
- Mr. Bijay Rai
- Mr. Rahul Kumar
- Dr. Shabbiruddin
- Mr. Dibyadeep Bhattacharya
- Mr. Sandip Kumar Gupta
- Mr. Arunava Tikader
- Mr. Roshan Pradhan
- Mr. Pratik Pradhan
- Mrs. Chitragada Roy
- Mr. Anirban Sengupta
- Mr. Saikat Chatterjee
- Mr. Akash Kumar Bhoi
- Mr. Arijit Ghosh

Number of Non-Teaching Staffs (Technical): 06

Names of Non-Teaching Staffs (Technical):

- Mr. Ramesh Sharma

- Ms. Divya Rai
- Mr. Depen Pradhan
- Ms. Priya Pradhan
- Ms. Pratiksha Subba
- Mr. Pawan Pyakurel

Number of Non-Teaching Staffs (Non-Technical): 5

Names of Non-Teaching Staffs (Non -Technical):

- Mr. Mohan Subba
- Mrs. Shanti Chettri
- Ms. Bimla Rai
- Mrs. Annu Subba
- Mr. Bedan Pradhan

Details of Conference / Workshop / Seminar / CME conducted by the Department:

- Five day workshop was organized by the department on "Applied Engineering" from 5th Feb to 9th Feb 2018.

- Workshop was organized on Fundamentals of Electrical Engineering for 1st year students in March 2018tt

Details of the Paper Published by the Faculty Members in International / National Journals:

- Shabbiruddin, Chakravorty S., Sherpa K.S., Ray A., “*Power Distribution System Planning Using Q-GIS*”, **International Journal of Energy Optimization and Engineering**, pp. 61-75, Volume 7, Issue 2, Article 3, ISSN: 2160-9500, (2018).
- Shabbiruddin, Chakravorty S., Ray A., Sherpa K.S., “*Optimal Location of Sub-Station using Q-GIS and Multi-Criteria Decision Making Approach*”,**International Journal of Decision Support System Technology (IJDSST)**, pp. 65-79, Volume 10, Issue 2, ISSN: 1941-6296 (2018).
- MoumiP., BoseT., Roy and Ghose M. K., “*Development of a square monopole antenna model using adaptive neuro fuzzy inference system*”,**International Journal of Advanced Logistics**, (2017): 1-8, 20th Jan (2017).
- Mukherjee A., Priya K., Pandit M., and Bhattacharya D., “*Use of Auto associative Network for signature recognition*”,**International Journal of Current Engineering and Technology**, 09 March 2017
- Bhoi A.K., Sherpa K.S., KhandelwalB., “*Arrhythmia and Ischemia Classification and Clustering using QRS-ST-T (QT) Analysis of Electrocardiogram*”,**Cluster Computing, Springer, 1-12, June 2017.**
- Bhoi A.K., “*Classification and Clustering of Parkinson’s and Healthy Control Gait dynamics using LDA and K-means*”,**INT. J. BIOAUTOMATION, © Bulgarian Academy of Sciences, Institute of Biophysics and Biomedical Engineering, Vol. 21(1), In-press. January 2017.**
- Pandit M., BoseT., GhoseM., “*Selection of Optimal Alphanumeric Pattern of Seven Segment Antenna Using Adaptive Neuro Fuzzy Inference System*”,**MICROWAVE REVIEW (IEEE MTTS),VOL 23(1),June 2017.**
- Mukherjee A., Priya K., Pandit M., and Bhattacharya D.,“*Use of Auto associative Network for signature recognition*”,**International Journal of Current Engineering and Technology**, Vol.7, No.2, 2 E-ISSN 2277 – 4106, P-ISSN 2347 – 5161017. 9thMarch 2017.
- Management, RTITM 2017.
- Sengupta A., Agarwal N., Sharma N., Baruah P., Pattnayak A., “*A Study of Analog Circuitry MPPT based on PSO Algorithm*”, **Innovations in Electronics and Telecommunication Design.**
- Kumar P., Sinha P., Roy C., Basu M., “*Design and Implementation of Solar Charge Controller for Photovoltaic Systems*”,**National Exhibition and Conference on New and Renewable Energy (NECONRE 2017), 6th -7th Oct, 2017.**
- Chettri S., Pradhan S., Sherpa K. S., Chatterjee S., “*Integrated model of renewable energy source feeding both ac and dc load*”, **1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEERE-2016)**, ISBN 978-981-10-4285-0, Vol 435,DOI: 10.1007/978-981-10-4286-7_59.
- Chatterjee S., Ray A. K.,“*Comparative analysis of membrane potential of bone cell and its abnormalities*”, **1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEERE-2016)**, ISBN 978-981-10-4761-9, Vol 442,DOI: 10.1007/978-981-10-4762-6_68.2017.
- Rai B., Pradhan R., Pradhan P., “*Autonomous navigation Robot based on real time image processing*”,**1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEERE-2016),ISBN: 978-93-5265-484-0, 2017.**
- Ghosh A., “*Electro Optically Tunable Switching Action Enhanced by Long Range Surface Plasmon*”,**1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEERE-2016)**, pp 727-731, Print ISBN 978-981-10-4761-9Online ISBN 978-981.2017.
- Saha S., Ansari M. N., “*Thermal Analysis of Inverter Fed Induction Motor*”, **1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEERE-2016)**,pp 221-228, Print ISBN978-981-10-4393-2, Online ISBN 978-981-10-4394-9, 28 November 2017.

Details of the Paper Presented by the Faculty Members / Students in Conference / Seminar:

- Ritu, Raval P, Shabbiruddin, “*Selection of Optimum Power Plant using Multi Criteria Decision Making (MCDM) Tool*”, **National Conference on Recent Trends in Information Technology &**
- SenguptaA., “*Improvement of Efficiency of a three phase Induction Motor using Robust Control*”,**1st Springer International Conference on Emerging Trends and Advances in Electrical**

Engineering and Renewable Energy (ETAERE-2016), pp 183-191, Print ISBN978-981-10-4393-2 Online ISBN 978-981-10-4394-9, 28 November 2017.

- Kumari R., Roy C., “*Adaptive Pi Control Of Statcom For Stability Improvement Of Power System*”,**1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAERE-2016)**, pp 465-476, Print ISBN978-981-10-4393-2, Online ISBN 978-981-10-4394, 28 November 2017.
- Kumari R., Roy C., “*Modeling Of The State Space Vector Pwm (SVPWM) Based STATCOM For voltage Improvement in the Transmission Line*”, **1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAERE-2016)**,pp 355-365, Print ISBN978-981-10-4393-2, Online ISBN978-981-10-4394-9,28thNov 2017
- Kumari R., Prerna, Roy C., “*Modelling Of UPFC (Unified Power Flow Control) to Improve Stability of Power Systems By Real And Reactive Power Control of Transmission Line*”, pp 647-655, Print ISBN978-981-10-4761-9, Online ISBN978-981-10-4762-6, 12 December 2017.
- Kumar K., Prabhakar C., Reddy U., Singh, A. K., Kumar P., “*Inverter Switching Frequency Prediction in DTC of Induction Motor Drive for an EV Drivetrain*”, **2017 IEEE PES General Meeting**, July 16 - 20, 2017 in Chicago, IL, USA.
- Upendra C., Reddy Kumar P., Singh A.K., Kumar P., “*Performance Evaluation of DTC IM Drive for an EV Application*”, **2017 IEEE PES General Meeting**, July 16 - 20, 2017 in Chicago, IL, USA.
- Mukhia A.D., Gautam A., Pradhan S., Gupta S. K., “*Design and Fabrication of scale down model of 620MVA, 275KV Transmission line*”,**1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAERE-2016)**, 2017.
- Asim M., Tariq M., Mallick M.A., Ashrafi, Kumari S., Bhoi A.K., “*Critical Evaluation of Offline MPPT Techniques of Solar PV for Standalone Applications*”,**1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAERE-2016)**,2017.
- Sahu A., Gupta S., Kumar V., Bhoi A.K., Garg A., Sherpa K.S., “*Design of Permanent Magnet Synchronous Generator for Wind Energy Conversion System*”,**1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAERE-2016)**
- Manjesh Manjunatha, K.C., Bhoi A.K., Sherpa K.S., “*Design and Development Of Buck-Boost Regulator For DC Motor Used in Electric Vehicle for the Application of Renewable Energy*”,**1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAERE-2016)**,2017.
- Bhoi A.K., Sherpa, K.S., Khandelwal B., “*Design and Development of Buck-Boost Regulator for DC Motor used in Electric Vehicle for the Application of Renewable Energy*”,**1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAERE-2016)**, 2017
- Bhoi A.K., Sherpa K.S., Khandelwal B., “*Multimodal Classification of Arrhythmia and Ischemia using QRS-ST Analysis*”,**1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAERE-2016)**, 2017.
- Naresh B., Singh V.K., Bhargavi V., Garg A., Bhoi A.K., “*Dual band Wearable Rectenna for Low Power RF Energy Harvesting*”, **1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAERE-2016)**, 2017.
- Manjesh N., Dabhade S., Garg A., Bhoi A.K., “*Reduction of THD in Nine Phase Induction Motor Drive with CLC Filter*”,**1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAERE-2016)**,2017.
- Manjesh, Hasitha K., Bhoi A.K., Garg A., “*Comparative Study of Harmonics and Total Harmonic Distortion of Five Phase Inverter Drive with Five Phase Multilevel Inverter Drive using Simulink /MATLAB*”,**1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAERE-2016)**, 2017.
- Pattnaik A., Mittal S., Gupta V., Prasad B., Bhoi A.K., “*Design and Implementation of Two Level and Multilevel Inverter*”,**1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAERE-2016)**, 2017.

- Manjesh A., Bhoi A.K., Sherpa K. S., “*Evaluation of Harmonics and THD in 5-phase Inverter constructed with High-pass filter by Matlab simulation*”, 1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEEERE-2016), 2017
 - Pattnaik A., Tomar M., Kumar P., Bhoi A.K., Gupta V., Prasad B., “*Theoretical analysis of the electrical and Optical properties of ZnS*”, 1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEEERE-2016), 2017.
 - Manjesh A., Rajesh B, Bhoi A. K., Sherpa K. S., “*Suppression of Harmonics and THD using 3 level inverter and C-type filter at the output of the inverter using Simulink/MATLAB*”, 1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEEERE-2016), 2017
 - Bhoi A.K., Sherpa K.S., Khandelwal B., “*Multimodal Classification of Arrhythmia and Ischemia using QRS-ST Analysis*”, 1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEEERE-2016), 2017
 - Singh N.K., Singh V.K., Saxena A., Bhoi A.K., Garg A., Sherpa K.S., “*A Compact Slotted Textile Patch Antenna for Ultra Wide Band Application*”, 1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEEERE-2016), 2017
 - Singh N.K., Sharma N., Ali Z., Singh V.K., Bhoi A.K., “*Inset Fed Circular Microstrip Antenna with Defected Ground*”, 1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEEERE-2016), 2017
 - Kumar P, Ansari M.N., “*Determination of Stray Loss in Three Phase Induction Motor Using Finite Element Method*”, Manipal Student Research Colloquium, Manipal University Jaipur, 17th – 18th March 2017.
 - Das I., Pandit M., “*A comparative analysis of determination of design parameters of Boost and buck-Boost converter using Artificial Intelligence*”, 1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEEERE-2016), Springer, 2017.
 - Srihari K., Parth Raval, P., Shabbirudin., “*Selection of the electric motor over induction motor by TOPSIS method.*”, Emerging trends and advances in electrical engineering and renewable energy (ETAEEERE-2016), 2017.
 - Kumari R., Prerna Roy C., “*Modelling of UPFC (Unified Power Flow Control) to Improve Stability of Power Systems By Real And Reactive Power Control of Transmission Line*”, Emerging trends and advances in electrical engineering and renewable energy (ETAEEERE-2016), pp 647-655, Print ISBN 978-981-10-4761-9 Online ISBN 978-981-10-4762-6, 12th December 2017.
 - Kumar P., Sinha P., Roy C., Basu M., “*Design and Implementation of Solar Charge Controller for Photovoltaic Systems*”, National Exhibition and Conference on New and Renewable Energy (NECONRE 2017), 6th-7th Oct, 2017.
- Faculty Achievement:**
- Mr. Shabbiruddin, was awarded Ph.D degree.
 - Mrs. Mousmi Pandit was awarded Ph.D degree
 - Mrs. Mousmi Pandit was promoted to Associate Professor.
 - Mr. Roshan Pradhan, Mr. Pratik Pradhan, Mr. Akash Kumar Bhoi and Mr. Saikat Chatterjee got promoted to Assistant Professor-I.
 - Mr. Saikat Chatterjee is working as an observer (CBSE) for JEE MAIN, NEET and UGC NET Examination.
- Ongoing Research Project details:**
- Design and Implementation of Solar Powered Electric Car.
 - Smart Energy Meter.
- Student's Activities:**
- The departmental fest ANKURIT was conducted and was very successful.
 - The Society of Electrical and Electronics Department (SEED) headed by the Head of the Department, Prof. (Dr.) K. S. Sherpa, along with the Faculty Advisors have been involved in numerous academic as well as non-academic programs and curriculums. The department organizes “SEED School” every semester, which takes up the noble initiative of helping the local children with their education.

- SEED has organized a Workshop cum Lab tour for the 1st year students.
- SEED actively participates in publishing Enigma (Departmental magazine) and Dishari (Wall magazine).

AGS	1
CAPGEMINI	1
SOLARIZE	3
Total	8

- The list of sports activities organized by SEED in the year 2017-18 is

S. No.	Sports Event
1	CRICKET
2	FOOTBALL
3	BADMINTON
4	VOLLEYBALL
5	ATHLETICS
6	CHESS
7	DOTA
8	TUG OF WAR
9	FIFA
10	COUNTER STRIKE

In the technical exhibition INCEPTION which was conducted during Kaalrav-17 some of the projects displayed by the students of EEE are listed below:

- A Robotic Arm Prototype
- Android Based Home Lighting Control
- IR Based Light Control System
- GSM Based Energy Meter With Tamper Proofing
- Frequency based filter using Op-Amp
- Sun Tracking Solar Panel
- Metro Train Prototype
- Ultrasonic Water level Detector

New Initiatives:

- Dr. RajeebDey, Assistant Professor, NIT Sichaer delivered guest lecture on Control System from 23rdOct. 2017 to 28thOct. 2017.
- Department conducted workshop for students from Pakur Polytechnic, Pakur, Jharkhand from 26th Nov to 3rd Dec 2017.
- Faculty members enrolled for NPTEL online courses.

Placement Record:

Company	No. of Students
BOSCH	1
THINK AND LEARN	1
WIPRO	1





DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

No. of Faculty Members:30

Names of Faculty Members:

- Dr. Rabindranath Bera
- Dr. Prashanta Chandra Pradhan
- Dr. Sourav Dhar
- Mr. Om Prakash Singh
- Dr. Hemanta Saikia
- Mr. Jayanta Kumar Baruah
- Dr. Amrita Biswas
- Mr. Bikash Sharma
- Mr. Kushal Pokhrel
- Dr.T anushree Bose
- Dr. Nitai Paitya
- Dr. Swastika Chakrabarty
- Dr. Swarup Sarkar
- Mrs. Barnali Dey
- Mr. Samarendra Nath Sur
- Mr. Debashish Bhaskar
- Dr. Dipanjan Bhattacharjee
- Mr. Nirmal Rai
- Ms. Soumyasree Bera
- Mr. Debjyoti Ghosh
- Mr. Himanshu Paul

- Mr. Amit Agarwal
- Mr. Arun Kr. Singh
- Mr. Jitendra Singh Tamang
- Ms. Sayantani Roy
- Mr. Rochan Banstola
- Mr. Saumya Das
- Mr. Suman Das
- Ms. Rijhi Dey
- Ms. Tinku Biswas

Number of Non Teaching Staffs (Technical): 07

Names of Non Teaching Staffs (Technical):

- Mr. Gautam Saha
- Mr. Dhruva Pradhan
- Mr. Santosh Kumar Das
- Ms. Suhsma Pradhan
- Mr. Riwas Gurung
- Mr. Preman Chettri
- Ms. Megha Subba

Number of Non Teaching Staffs (Non Technical): 05

Names of Non Teaching Staffs (Non Technical):

- Mr. Kumar Gurung
- Mr. Tikaram Sharma

- Mr. Bikram Chettri
- Mr. Biswa Gurung
- Ms. Beena Mukhia

Details of Conference / Workshop / Seminar / CME conducted by the Department:

- International Conference on Communication, Devices And Networking (ICCDN 2017) on 3rd and 4th June 2017, technically sponsored by IEEE, Publications sponsored by Springer. Total number of submitted papers: 263 and 105 papers were accepted.

Details of the Paper Published by the Faculty Members in International / National Journals:

- Pokhrel K, Dutta N., Ghose M. K., Vithalani H., Deva Sarma H. K., Polkowski Z., "Binding Lifetime Based Signaling Cost Analysis of Multilayer MIPv6", **Journal of Computers**, Vol. 13, No. 3, pp. 337-350 (2018).
- Pandit M., Bose T., Ghose M. K., "Selection of Optimal Alphnumeric Pattern of Seven Segment Antenna Using Adaptive Neuro Fuzzy Inference System", **Microtalasnavija**, Vol. 23, No. 1, pp 20-24 (2017).
- Chakraborty S. et. al., "On the association of lightning activity and projected change in climate over the Indian sub-continent", **Atmospheric Research**, Vol. 183, pp. 173-190, (2017).
- Chakraborty S. et. al., "Studies of Rain fade slope model at Ka band over Ahmedabad, an Indian tropical location", **International Journal of Engineering and Technology (UAE)**, ISSN: 2227-524X.
- Sur S. N., Bera R. and Maji B., "Capacity Analysis of MIMO in Non-Uniform Nakagami Channel with Linear Receiver", **IETE Journal of Research**, Vol. 63, Issue 6, ISSN: 0377-2063, pp. 795-804, (2017).
- Singh O. P. and Sinha R., "Sparse coding of i-vector/JFA latent vector over ensemble dictionaries for language identification systems", **International Journal of Speech Technology**, ISSN: 1572-8110, (2017)
- Sur S. N., Bera R. and Maji B., "A review on MIMO based V2V communication", **Advances in Electronics, Communication and Computing, LNEE, Springer**, pp. 333-340, (2017).

- Sur S. N., Prasad S., Bera R. and Maji B., "MMSE Based Lattice-Reduction-Aided Equalization for MIMO System in Nakagami-m Channel", **Advances in Systems, Control and Automation, LNEE, Springer**, Vol. 442, pp. 281-286, (2017).
- Tamang N. D., Sur S. N., Bera S., Bera R., "A Review on Spread Spectrum Radar", **Advances in Electronics, Communication and Computing, LNEE, Springer**, pp. 653-664, (2017).
- Das M., Singh T., Bera S., "Implementation of Doppler Radar at 24 GHz", **Advances in Electronics, Communication and Computing, LNEE, Springer**, pp. 675-684, (2017).
- Paul R., Nath P., Bera S., "Design of Spectrum Sensing System", **Advances in Electronics, Communication and Computing, LNEE, Springer**, pp. 537-544, (2017).
- Nirmal N., Agarwal A., Singh A. K., Bera R., Maji B., "Microstrip Patch Antenna: A Review", **Advances in Electronics, Communication and Computing, LNEE, Springer**, pp. 317-324, (2017)
- Singh A. K., Bera R., Maji B., "X-Band Patch Array Antenna", **Advances in Electronics, Communication and Computing, LNEE, Springer**, pp. 785-791, (2017).
- Das S., Datta S., Chatterjee S., "A MATLAB based simulator for Amorphous Silicon and Polycrystalline Silicon Thin Film Transistor", **Advances in Electronics, Communication and Computing LNEE, Springer**, Oct. 2017.

Details of the Paper Presented by the Faculty Members / Students in Conference / Seminar:

- Saikia H., Sarma K. C., "Offline Signature Verification using Radial Basis Function with Selected Feature Sets", **International Conference on Communication, Devices and Networking (ICCDN-2017)**, 3rd and 4th June 2017.
- Biswas A., "Finger Detection for Hand Gesture Recognition using Circular Hough Transform", **International Conference on Communication, Devices and Networking (ICCDN-2017)**, 3rd and 4th June, 2017.
- Rajshri, Das S., Bose T. "Multiband Slotted Circular Microstrip Patch Antenna", **International Conference on Communication, Devices and Networking (ICCDN-2017)**, 3rd and 4th June,

2017.

- Islam H., Das S., Bose T., "Design of Aperture Fed Elliptically Polarized Dielectric Resonator Antenna for WLAN IEEE 802.11 ac Applications", International Conference on Communication, Devices and Networking (ICCDN-2017), 3rd and 4th June, 2017.
- Das S., Islam H., Bose T. "Broadband Glass Paperweight Dielectric Resonator Antenna for WLAN Applications", International Conference on Communication, Devices and Networking (ICCDN-2017), 3rd and 4th June, 2017.
- Chakraborty S. et. al. "Rain fade slope model analysis at Ka band at an Indian tropical location", URSI Atlantic Radio Science Meeting, 2018.
- Bera R., Bhaskar D., Sur S. N., Bera S., Singh A. K., Chakraborty S., Sharma G., "5G and IoT System Based on Millimeter Wave Radio", IEEE COMSOC Conference, 17th-18th March, 2017.
- Sharma S., Bhaskar D., Bera R., "Adaptation of Hybrid Beamformation for the feasible mmWave 5G Mobile Communication System", IEEE Conference, IEEE Region 10 Symposium (TENSYP), July, 2017.
- Sharma S., Bhaskar D., Bera R., "Narrowband Hybrid Beamformation System for Doable mm Wave 5G Mobile Communication System", International Conference on Communication, Devices and Networking (ICCDN-2017), 3rd and 4th June, 2017.
- Bhaskar D., Sharma S., Bera R., Sharma G., Rai K. B., Chettri P., "Introducing 5G front end Femto cell to improve 4G network performance", International Conference on Communication, Devices and Networking (ICCDN-2017), 3rd and 4th June, 2017.
- Sarkar U, Nath R., Das S., "VLSI implementation of Booth's multiplier using different adders", International Conference on Communication, Devices and Networking (ICCDN-2017), 3rd and 4th June, 2017.
- Saketh M. S., Reddy N. S. and Dhar S., "Design of a Proactive Distance Handover Algorithm for WSN: A Case Study Based Approach", International Conference on Communication, Devices and Networking (ICCDN-2017), 3rd and 4th June, 2017.
- Singh O. P. and Sinha R., "Sparse representation classification over discriminatively learned dictionary for language recognition", TENCON 2017 IEEE Region 10 Conference, 2017.
- Baruah J. K., Bera R., Dhar S., "Ranking of Sensors for ADAS – An MCDM Based Approach", International Conference on Communication, Devices and Networking (ICCDN-2017), 3rd and 4th June 2017.

Ongoing Research Project details:

- **Project 1: "Development of Software Radio System" Sponsored by: DRDO, Govt. of INDIA, Amount of Rs. 8.8 Crores. C.I.: Prof. (Dr.) Rabindranath Bera.** The project related to Radar system development started in the year 2007 and the radar was developed successfully and delivered to DRDO. The RADAR is used for the field testing of Aircraft and Missile and it is operational at DRDO Lab situated at Hyderabad. The Lab was inaugurated by the Defence Minister in Nov, 2015. In this way, the project is still continuing. This development is a success story at the ECE Department and further the skills, expertise and the Knowledge are boosting the Department in the domain of EC Engineering.

Many Home-Grown Technologies Incorporated

- Orange boasts of many home-grown technologies developed with the support of DRDO. The Instrumentation Radar System (capable of measuring low RCS values) at the test range is co-developed by Bose Institute, Kolkata and Sikkim Manipal Institute of Technology (Rangpo), Sikkim. [<http://www.indiandefensenews.in/2015/10/orange-to-add-teeth-to-indias-gen-next.html>]
- **Project 2: "Lightning Detection & Electric Field Measurement During Thunder"** Sponsored by: Bose Institute, Kolkata
- Principal Investigator :Prof. (Dr.) Rabindranath Bera. MOU has been signed between Bose Institute, Kolkata and ECE Department, Sikkim Manipal Institute of Technology on 30th October, 2016
- **Project 3: "Wireless Internet of Things (W-IoT) applications in 5G Mobile network"** Research Activities for Lightning Fast Wireless Internet and IOT (Internet of Things) application for Centre of Excellence, ECE Department, Sikkim Manipal Institute of Technology. With the Proliferation of IoT in every sector of our Society, Smarter world is looking for realization of Smart Homes, Smart Cities, Smart Wearable, Smart Agriculture,

Smart Energy, Smart vehicle, Smart Health, Smart Industries. This project test bed will be unique and world class promising a wide scope of technical growth of the persons involved. So, the active endeavours from the ECE Faculty members, technical staff and the students are anticipated. Project outlay: Rs. 50 Lakhs. Sponsored by: Dr.RamdasPai& Mrs. VasanthiPai Endowment Fund Principal Investigator: Prof. (Dr.) Rabindranath Bera. Project Duration : 3 years Project Deliverable-1: Wireless IoT Test Bed Project Deliverable-2: High end journal publications. Project Deliverable-3: IoT enabled product

Student's Activities:

- ELECTRONIC DEVICES AND COMPONENTS WORKSHOP** All the components and devices which form the core of the Electronics are demonstrated in this workshop. Clippers, Clampers, filters, LED etc are the circuits which were the highlights of this workshop.
- BASIC ELECTRONICS WORKSHOP** The digital world consists of '0's and '1's. These forms the logic of all the gates which are assembled together to form integrated chips. Certain ICs are used to form the logic circuits. Adder, subtractor, converter etc were the highlights of this workshop.
- ROBOTICS SEMINAR** A seminar based on artificial intelligence was conducted. The highlights of this seminar were the use of technology in different fields and the use of smart sensors along with IoT/WoT.
- INSTRUMENTATION WORKSHOP** Electronic instruments like Strain gauge, Wheatstone bridge, capacitor sensor, crystal oscillator, and relay were the highlights of this workshop.
- NEWSPAPER/CLOTHES DRIVE** Sharing is the best feeling and recycling old clothes and newspaper is the need of the hour. A social event was conducted where all the faculty members donated their old clothes and newspaper which was further used to donate to oldage home in Kurseong.
- CHILDREN'S AWARENESS** On the occasion of Children's Day, a painting competition was held where Student's of the SEED school participated. Based on their skills, presentation and imagination prizes were distributed and happiness was shared among the participants.
- ANALOG COMMUNICATION WORKSHOP** For communication of any message, signals are needed to be

modulated and demodulated. This workshop focuses on working on the principle and the technology of how signals are being transmitted all over the world.

- LOT WORKSHOP** Internet of Things has brought the world to fingertips. It is the single term which gives the knowledge of availability of information and processes in the clouds which has the capability of connecting the whole world in real time. This workshop is based on encouragement of working on the field of IoT as this is the future.

New Initiatives:



Placement Record:

Company	No. of Students
DELL INDIA	1
WELLS FARGO	1
TECH MAHINDRA	10
WIPRO	11
THINK & LEARN	11
BOSCH	6
CGI	3
ITC INFOTECH	2
INTEL	2
ERICSSON	2
RECHNER SOFTWARE	26
AGS	4
ZEBRONICS	1
Total	80

BEST DEPARTMENT AWARD:

ECE has won the BEST DEPARTMENT AWARD in the year 2017.



DEPARTMENT OF INFORMATION TECHNOLOGY

No. of Faculty Members:9

Names of Faculty Members:

- Prof. (Dr.) Hiren K.D. Sarma
- Dr. Udayan Baruah
- Mr. Diganta Baruah
- Dr. Bhaskar Bhuyan
- Mrs. Chandralika Chakraborty
- Mr. Rustam Ali Ahmad
- Mr. Ashis Datta
- Mrs. Sonam Lhamu Bhutia
- Ms. Naiwrita Borah

Number of Non-Teaching Staffs (Technical): 2

Names of Non-Teaching Staffs(Technical):

Ms Deepa Sharma

Mr. Roshan Pradhan

Number of Non-Teaching Staffs (Non-Technical): 3

Names of Non-Teaching Staffs(Non-Technical):

- Mrs. Rezina Pradhan
- Mr. Purna Bahadur Subba
- Mrs. Sangita Pradhan

Details of the Paper Published by the Faculty Members in International / National Journals:

Singh A., Alryalat M. A., Alzubi J. A., Sarma H. K., “*Understanding Jordanian Consumers’ Online Purchase Intentions: Integrating Trust to the UTAUT2 Framework*”, **International Journal of Applied Engineering Research**, Vol. 12, Issue: 20, pp 10258-10268 (2017).

Dutta N., Sarma H. K., Polkowski Z. “*Cluster based routing in cognitive radio adhoc networks: Reconnoitering SINR and ETT impact on clustering*”, **Computer Communications**, pp 10-20 (2018).

Pokhrel K., Dutta N., Ghose M. K., Vithalani H., Sarma H. K., Polkowski Z. “*Binding lifetime based signaling cost analysis of multilayer MIPv6*”, **Journal of Computers**, Vol. 13, Issue 3, pp 337-351 (2018).

Details of the Paper Presented by the Faculty Members / Students in Conference / Seminar:

Sarma H. K. D., “Secure Communication Protocol for Mobile Wireless Sensor Networks”, **IEEE ICCIC**, 14th-16th December, 2017.

- Sharma V., Choudhury N., Mandal R., Chutia D., Baruah U. and Kumar R. A., “*An Empirical Study on Traditional Classifiers for Remotely Sensed Satellite Data Classification*,” **12th INDIACOM 2018: IEEE 5th International Conference On Computing For**

Sustainable Global Development, 14th – 16thMarch, 2018.

- Sharma V., Rawat U., Chutia D., Singh P. S., Baruah U., Raju P. L. N. and Bhattacharyya D. K., “*Random Forest Versus Rotation Forest – A Comparative Assessment Towards Classification of Satellite Data*”, **12thINDIACom 2018: IEEE 5th International Conference On Computing For Sustainable Global Development, 14th– 16thMarch, 2018.**
- Baruah R. D., Singh M., Baruah D., Misra I. S., “*Predicting activity occurrence time in smart homes with evolving fuzzy models*” **IEEE International Conference on Fuzzy Systems 2017(FUZZ-IEEE) ,9thJul, 2017.**
- Borah N., Chutia D., Baruah D. and Raju P. L. N., “*Dimension reduction of hyperion data for improving classification performance — An assessment,*” **2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), 2017.**

Student’s Activities:

- Workshop on PHP with MySQL organised by 6thSem (3rdyear) students for 1styear and 2ndyear students from 10th – 11thFeb, 2018.
- Participation of 2ndYear, B. Sc. IT student, Pallav Das in multiple dance competitions at Acheringa 2018, IIT Guwahati held on 30th- 6thJan 2018.

Placement Record:

CompanyNo. of Students

Amazon	01
AGS	03
Wipro	01
Total	05





DEPARTMENT OF MANAGEMENT STUDIES

Number of Faculty Members: 12

Names of Faculty Members:

- Dr. Ajeya Jha
- Dr. Anindita Adhikary
- Dr. Bedanta Bora
- Mr. Bibeth Sharma
- Dr. Neeta Dhusia Sharma
- Dr. Jitendra Kumar
- Mrs. Jaya Rani Pandey
- Mr. Abjhit Sarkar
- Mr. Saibal Kumar Saha
- Mr. Samrat Kumar Mukherjee
- Mrs. Ankita Sarangi
- Ms. Bhawana Rana

Number of Non - Teaching Staff: 2

Names of Non-Teaching Staff:

- Mrs. Khinita Lohar
- Mr. Madan Rai

Details of Conference / Workshop/ Seminar / CME conducted by the department:

“A Seminar on Opportunities in International Trade” organized at Sikkim Manipal Institute of Technology, Sikkim in association with

Office of the Additional Director General of Foreign Trade, Kolkata on 13th March, 2018.

Details of the Paper Published by the Faculty Members in International / National Journal:

- Kumar Jitendra, Adhikary Anindita and Jha Ajeya, “Small Active Investors’ Perceptions and Preferences towards Tax Saving Mutual Fund Schemes in Eastern India: An Empirical Note”, International Journal of Asian Business and Information Management, IGI Global, USA, 2017, Vol.8, Issue.2, Article No-3, ISSN No: 1947-9638, EISSN No: 1947-9646, Pp-35-45.
- Adhikary Anindita and Bora Bedanta, “Demonetization: A Case in Indian Perspective”- International Journal of Economic Behavior and Organization, New York, USA, Aug, 2017, Vol.5, Issue.3, ISSN No: 2328-7608 (Print); 2328-7616 (Online), Pp-80-86.
- Jha Ajeya, Kumar Nirmal, Adhikary Anindita and Bora Bedanta, “Quality Inadequacies in Supply Chain Management of Pharmaceutical Products - A Preliminary Study in India”- Global Journal of Emerging Trends in e-Business, Marketing and Consumer Psychology, Dubai, UAE, 2017, Vol.3, Issue.1, ISSN No: 2311-3170, pp-455-466.

- Kumar Jitendra, Adhikary Anindita and Jha Ajeya, "Impact of Influencers on Mutual Fund Investment Decision in Eastern India : An Empirical Note", International Journal of Emerging Technology and Advanced Engineering, India, Oct, 2017, Vol.7, Issue.10, ISSN No: 2250-2459 (Online), UGC Recommended (Serial No: 4677), Pp-67-73.
 - Sharma, Neeta Dhusia, Jha, Ajeya and Anita Gupta, "Skill Development Initiatives: Challenges and Way Out- A Study of Sikkim", International Journal of Current Trends in Engineering and Technology, ISSN 2395-3152, Vol 3, Issue 06, PG N0 451-455, Nov- Dec 2017.
 - Pandey Jaya Rani and Jha Ajeya, "An Empirical note on Health Information Digital Divide: A Study of Indian patients", International Journal of Asian Business and Information Management, IGI Global, Vol 8 Issue2 April-June 2017 • ISSN: 1947-9638 • eISSN: 1947-9646 (Scopus Indexed).
 - Jha Ajeya, Pandey Jaya Rani, Mukherjee Samrat Kumar, "An Empirical Note on Perceptions of Patients and Physicians in Direct-to-Consumer Promotion of Pharmaceutical Products: Study of Indian Patients and Physicians", Management Strategies and Technology Fluidity in the Asian Business Sector, International Journal, pp 65-87, 2018.
 - Sarkar Abhijit, Jha Ajeya and Mukherjee Diganta, "Trucks & Brand: Role of Brand in Selling Heavy Trucks in India", International Journal of Asian Business and Information Management, IGI Global, Vol 10, Issue 3, Article 1, 2018.
 - Abhijit Sarkar, Jha Ajeya, Mukherjee Diganta and Garg Amik, "The Multi - Axle Trucks and The Indian Transport Industry", International Journal of Management, Vol 9, Issue 1, 2018.
 - Jha Ajeya and Pandey Jaya Rani, "An Empirical Note on Health Information Digital Divide: A Study of Indian Patients", International Journal of Asian Business and Information Management, IGI Global (Scopus Indexed), Volume 8 • Issue 2 • April-June 2017.
 - Jha Ajeya, Sharma Bibeth and Kumar Jitendra, "Life Style Distinction between Consumers and non-consumers of Sikkim Cymbidium", Management Strategies and Technology Fluidity in the Asian Business Sector, pp 14-26, 2018.
 - Kumar Nirmal and Jha Ajeya, "Quality Risk Management during Pharmaceutical Good Distribution Practices – A Plausible Solution", Bulletin of Faculty of Pharmacy, Cairo University, Elsevier Publications (ISSN 1110-0931), 2017, (SCI indexed)
 - Rai Rachana, Sharma Neeta D., Jha Ajeya, "Identifying Demographic Determinants which Might Lead to the Purchase of Renewable Energy Products: A Study Based on Sikkim and Darjeeling", International Journal of Management and Social Science Research Review, UGC Approved Journal. (www.ijmsrr.com), publication (June-2017 issue), published and accessible Online (www.ijmsrr.com) with ISSN 2349-6746 on 7.7.2017, ISSN 2349 –6738(Print).
- Details of the Paper Published by the Faculty Members / Students in Conference / Seminar:**
- Adhikary Anindita and Bora Bedanta, "Modeling Volatility using GARCH Models : Evidence from Indian Stock Market", International Symposium on Frontiers of Infrastructure Finance (ISFIF- 2017), held at Indian Institute of Technology, Kharagpur, India, Dec, 2017, p-71, VGSOM, IIT, Kharagpur, India.
 - Bora Bedanta and Adhikary Anindita, "Ensuring Sales Force Effectiveness - A Ground Level Perception", World Conference on Business and Management (WCBM-2017), held in Bali, Indonesia, July, 2017, p-66, P&GBA, Seoul, South Korea.
 - Jha Ajeya, Mishra Manjushree, Bora Bedanta and Adhikary Anindita, "Perceptual Differences on Hydel Projects in the Context of Disasters in Sikkim", World Conference on Business and Management (WCBM-2017), held in Bali, Indonesia, July, 2017, p-82, P&GBA, Seoul, South Korea.
 - Jha Ajeya, Shenga Sherap and Saha Saibal Kumar, "Eco Tourism in the context of Cultural Ethos of Sikkim", National Conference on Business and Management: Changing Dynamics organized by Department of Management, Sikkim University during 20th-21st April, 2017.
 - Kumar Jitendra, Sil Aparna and Gupta Amit, "Performance of Tax saving Mutual Fund Scheme: A case study on selected Assets Management Companies", Manipal Student Research Colloquium (MSRC-2018) held at Sikkim Manipal Institute of Technology, Sikkim, p 81.
 - Mukherjee Samrat Kumar and Jha Ajeya, "Role of Social Media in Pharmaceutical Marketing", National Conference on Business and Management: Changing Dynamics held at Sikkim University, Sikkim on 20th April, 2017.
- Faculty Achievement:**

- Prof. (Dr.) Ajeya Jha had been the Co-convenor for 2nd Manipal Student Research Colloquium (MSRC-2018) held in SMIT during 15th – 16th March, 2018.
 - Dr. Ajeya Jha, Dr. Anindita Adhikary, Dr. Neeta Dhusia Sharma, Dr. Jitendra Kumar, Mr. Bibeth Sharma, Mrs. Jaya Rani Pandey, Mr. Saibal Kumar Saha, Mr. Samrat Kumar Mukherjee and Mrs. Angita Sarangi Chaired Technical Sessions in Manipal Student Research Colloquium (MSRC-2018) held in SMIT during 15th – 16th March, 2018. Session Coordinator : Dr. Bedanta Bora.
 - Mr. Saibal Kr. Saha and Ms. Bhawana Rana had attended 3-day FDP on Pedagogic and Personal Effectiveness from 12th-14th March, 2018 at SMIT.
 - Prof. (Dr.) Ajeya Jha was invited as a speaker at National Seminar on “Linking Pharma Academia with Industry - Future Avenues for Quality Products” held at Himalayan Pharmacy Institute organised by Sikkim University on 10th March, 2018.
 - Prof. (Dr.) Ajeya Jha participated in seven days Faculty Development Programme on “ Statistics and Research Methodology : An Exploration with a special focus on Multivariate Statistical Techniques” held at ABV Indian Institute of Information Technology and Management, Gwalior (MP) on 15th – 21st Feb, 2018.
 - Prof. (Dr.) Ajeya Jha has been appointed as Associate Director – Research & Development, Sikkim Manipal Institute of Technology with effect from 12th Feb 2018.
 - Mr. Samrat Kumar Mukherjee has completed a course on “Fundamentals of Project Planning and Management” from MOOC (Virginia University) on 15th Feb 2018.
 - Dr. Bedanta Bora chaired a Technical Session at “International Symposium on Frontiers of Infrastructure Finance (ISFIF-2017)” held at Indian Institute of Technology (IIT), Kharagpur, during Dec, 2017.
 - Dr. Bedanta Bora was invited to deliver a talk as a Key Note Speaker at “2017, 2nd International Conference on Management and Organization” held in Shanghai, China, during Oct, 2017.
 - Dr. Bedanta Bora served as a Country Co-Chair and chaired a Technical Session at “World Conference on Business and Management (WCBM- 2017)” held in Bali, Indonesia, during July, 2017.
 - Dr. Bedanta Bora is being appointed as an International Committee Member for “World Conference on Business and Management (WCBM- 2018)” to be held in Jeju Island, South Korea, during June, 2018.
 - Dr. Bedanta Bora undergone an online certificate course on “Essential Management Skills for the Workplace” organized by Alison, Galway, Ireland, on 27th Jan, 2018.
 - Dr. Bedanta Bora hosted the “2nd International Conference on Economics and Finance” held in Shanghai, China, during Oct, 2017.
 - Prof. (Dr.) Anindita Adhikary was appointed as External Examiner in Sikkim Central University during the month of May, 2017 and Nov, 2017.
 - Mr. Bibeth Sharma, Mr. Abhijit Sarkar, Mr. Saibal Kumar Saha and Mr. Samrat Kumar Mukherjee attended 4-day Workshop on Super Computer Applications in Diverse Fields of Science and Technology organized by Research and Development Section, SMIT from 30th May – 2nd June, 2017.
 - Mr. Saibal Kumar Saha participated in Faculty Development Program - CFDP TIER 1, Induction Training from 18th- 20th July, 2017 at SMIT and Faculty Development Program - CFDP TIER 2, Induction Training from 23rd Dec, 2017 to 6th Jan, 2018 at SMIT.
 - Mr. Abhijit Sarkar is appointed as Reviewer of International Journal of Asian Business and Information Management.
 - Mr. Saibal Kumar Saha is appointed as Editorial Board Member of SRIePRINTS - SRI: Journal of Management Studies (SRI: JMS).
 - Mr. Saibal Kumar Saha has completed an online course on Medicine in the Digital Age - from RICE University.
 - Mrs. Ankita Sarangi and Mr. Samrat Kumar Mukherjee attended a Workshop on Faculty Development Programme on 3rd and 4th May, 2017.
- Students' Activities:**
- Curricular:**
- Workshop on Team Building and Role of Leader was conducted on 9th Feb, 2018 by MBA 2nd Year (HR) Students for BBA 2nd Year Students. Teacher Coordinator : Mrs. Jaya Rani Pandey.
 - Workshop on MS Excel was conducted for MBA 2nd Year Students on 29th March, 2017. Teacher Coordinator : Mr. Saibal Kumar Saha.

- Workshop on MS Excel was conducted for BBA 3rd Year Students on 4th Sep, 2017. Teacher Coordinator : Mr. Saibal Kumar Saha.

Axis Bank	5
HDFC Bank	2
Total	12

- MBA 2nd Year Students attended the interview for Govt. project under NSDC at Sokaythang Office, Govt. of Sikkim on 17th April, 2017.

- Workshop on Project Management was organized for MBA 2nd Year students on 8th Sep, 2017. Teacher Coordinator : Dr. Jitendra Kumar

- MBA Students organized Inter-Department Debate Competition on 20th Sep, 2017.

- MBA Students organized Inter-Department Logo Quiz Competition on 21st Sep, 2017.

Co-curricular:

- Trekking activity was planned for students on 26th January, 2018 by Prof. (Dr.) Ajeya Jha.

- Students of Management Department organized Management Fest - ATHENA on 22nd and 23rd April, 2017.

- Plantation Programme was initiative by the Department of Management Studies on 7th August, 2017. During the programme MBA & BBA students along with the faculty member planted more than 50 saplings in the campus.

- BBA 3rd year Students won the 1st position for Football Tournament and BBA 1st Year Students won the 1st runner-up during 6th to 8th Sep, 2017 Intra Department Competition.

- MBA 1st year Students organized a Social Talk on How to Feed the Stray Dogs on 20th Sep 2017. Experts from Gangtok were the speakers during the talk.

New Initiatives:

- Linh Thi Khanh Tran, Ha Noi University, Vietnam undergone Internship Programme for 4 months at SMIT under supervision of Prof. (Dr) Ajeya Jha from 1st July, 2017 to 1st Nov, 2017.

- Students of Department of Management Studies organised Cultural Programme for MIS Staff of SMIT on 24th Oct, 2017.

Placement Record:

Company	No. of Students
ICICI Bank	5

No. of Faculty Members:13

Names of Faculty Members:

- Dr. Anjan Raychaudhuri
- Dr. Pankaj Chettri
- Dr. Archit Yajnik
- Dr. Santonu Savapondit
- Dr. Biswajit Deb
- Dr. Piyanka Dhar
- Dr. AsitSaha
- Dr. Rituparna Das
- Mrs. Chandrima Raychaudhuri
- Mr. Satyajit Sarkar
- Mr. Rustam Ali
- Dr. Rajeev Kumar Singh
- Mr. Yogen Ghatani

Number of Non Teaching Staffs (Non Technical):02

Names of Non Teaching Staffs (Non Technical):

- Mr. Santosh Chettri
- Mrs. Bina Lohar

Details of the Paper Published by the Faculty Members in International / National Journals:

- ChettriP., "ps-ro fuzzy strongly -irresolute function", Acta Univ. Sapientiae, Mathematica, Vol. 9, Issue 1, pp 260-268 (2017).
- Chettri P. &ChettriA., "ps -ro fuzzy -irresolute functions", Songklanakarin Journal of Science and Technology(2017).
- Saha A. and Ali R. "Dynamics of the positron acousticwaves in electron- positron-ion magnetoplasmas", Indian Journal of Physics, Vol. 91, Issue 6, pp 689-699 (2017).
- Saha A., "Dynamics of the generalized KP-MEW-Burgers equation with external periodic perturbation", Computers and Mathematics with Applications, Vol. 73, Issue 9, pp 1879-1885 (2017).
- Saha A., "Oblique Interaction of Ion-Acoustic Solitary Waves in e- p-i Plasmas", Brazilian journal of PhysicsVol. 47, Issue 3, pp 295-301 (2017).
- Saha A., "Effect of dust ion collisional frequency on transition

of dust ion acoustic waves from quasiperiodic motion to limit cycle oscillation in a magnetized dusty plasma”, Physics of Plasmas, Vol. 24, Issue 7 (2017).

- Saha A. and Tamang J., “Qualitative analysis of the positron- acoustic waves in electron-positron- ion plasmas with deformed Kaniadakis distributed electrons and hot positrons”, Physics of Plasmas, Vol. 24, Issue 8, (2017).
- Saha A. and Ali R., “Comment on “Solitonic and chaotic behaviors for the nonlinear dust-acoustic waves in a magnetized dusty plasma”, Physics of Plasmas, Vol. 24, Issue 9 (2017).
- Saha A. and Ali R., “Nonlinear excitations for the positron acoustic waves in auroral acceleration regions”, Advances in Space Research, Vol. 60, Issue 6, pp 1220-1236 (2017).
- Saha A., “Analytical electron acoustic solitary wave solution for the forced KdV equation in superthermal plasmas”, Physics of Plasmas, Vol. 24, Issue 12 (2017).
- Ali R., Saha A., and Chatterjee P., “Analytical electron acoustic solitary wave solution for the forced KdV equation in superthermal plasmas”, Physics of Plasmas (2017).
- Chatterjee P., Ali R. and Saha A., “Analytical Solitary Wave solution of the Dust Ion Acoustic Waves for the Damped Forced Korteweg-de Vries Equation in Superthermal Plasmas” Zeitschrift für Naturforschung A, (2018).
- Tamang J., Sarkar K. and Saha A. “Solitary wave solution and dynamic transition of dust ion acoustic waves in a collisional nonextensive dusty plasma with ionization effect”, Physica A: Statistical Mechanics and its Applications (2018).
- Ali R., “Effect of dust ion collision on dust ion acoustic waves in the framework of damped Zakharov-Kuznetsov equation in presence of external periodic force”, Physics of Plasmas, (2017).
- Das R., “Spectrum and fine spectrum of the Zweiermatrix over the sequence space cs ”, Boletim da Sociedade Paranaense de Matematica, Vol: 35, Issue 2, pp 209-221 (2017).

- Das R. “On the spectrum and fine spectrum of the upper triangular matrix over the sequence space c_0 ” Afrika Matematika, Vol. 28, Issue 5-6, pp 841-849 (2017).
- Das R., “On the fine spectrum of the lower triangular matrix $B(r,s)$ over the Hahn sequence space”, Kyungpook Mathematical Journal, Vol. 57, pp 441-445, (2017).

Details of the Paper Presented by the Faculty Members / Students in Conference / Seminar:

- Deb B, “Reachability problem on graphs by a robot with jump”, International Conference on Linear Algebra and its Applications, 2017

Faculty Achievement:

- Two faculty members were promoted to Professors.
- Faculty members are given additional Institute post and responsibilities such as Additional Registrar, Institute TG Coordinator and Head International Collaboration Cell, SMIT.

Ongoing Research Project details:

- Project under Cognitive Science Research Initiative (CSRI) entitled “Study and develop a natural language parser for Nepali Language” from Govt. of India, Ministry of Science & Technology, Deptt. of Science and Technology.

Student’s Activities:

- The students are attending classes regularly and following their courses of study well. Almost all of them are doing well in their examinations.
- Students arranged farewell function to the final year students and fresher’s welcome to the freshers.
- AsitSaha and Jharna Tamang “Qualitative analysis of the positron-acoustic waves in electron-positron- ion plasmas with deformed Kaniadakis distributed electrons and hot positrons” Physics of Plasmas 24 (8), 082101 (2017).
- Jharna Tamang, Koyeli Sarkar and AsitSaha “Solitary wave solution and dynamic transition of dust ion acoustic waves in a collisional nonextensive dusty plasma with ionization effect”, Physica A: Statistical Mechanics and its Applications, March 2018, in press, <https://doi.org/10.1016/j.physa.2018.02.213>.

New Initiatives:

- Active functioning of DAC members.

Placement Record:

- Almost 90% of pass out students have got job in different positions throughout the country.



DEPARTMENT OF MATHEMATICS

No. of Faculty Members:13

Names of Faculty Members:

- Dr. Anjan Raychaudhuri
- Dr. Pankaj Chettri
- Dr. Archit Yajnik
- Dr. Santonu Savapondit
- Dr. Biswajit Deb
- Dr. Piyanka Dhar
- Dr. Asit Saha
- Dr. Rituparna Das
- Mrs. Chandrima Raychaudhuri
- Mr. Satyajit Sarkar
- Mr. Rustam Ali
- Dr. Rajeev Kumar Singh
- Mr. Yogen Ghatani

Number of Non Teaching Staffs (Non Technical):02

Names of Non Teaching Staffs (Non Technical):

- Mr. Santosh Chettri
Mrs. Bina Lohar

Details of the Paper Published by the Faculty Members in International / National Journals:

Chettri P., “*ps-ro fuzzy strongly a-irresolute function*”, *Acta Univ. Sapientiae, Mathematica*, Vol. 9, Issue 1, pp 260-268 (2017).

Chettri P. & Chettri A., “*ps -ro fuzzy a -irresolute functions*”, *Songklanakarin Journal of Science and Technology* (2017).

Saha A. and Ali R. “*Dynamics of the positron acoustic waves in electron- positron-ion magnetoplasmas*”, *Indian Journal of Physics*, Vol. 91, Issue 6, pp 689-699 (2017).

Saha A., “*Dynamics of the generalized KP-MEW-Burgers equation with external periodic perturbation*”, *Computers and Mathematics with Applications*, Vol. 73, Issue 9, pp 1879-1885 (2017).

Saha A., “*Oblique Interaction of Ion-Acoustic Solitary Waves in e- p-i Plasmas*”, *Brazilian journal of Physics* Vol. 47, Issue 3, pp 295-301 (2017).

Saha A., “*Effect of dust ion collisional frequency on transition of dust ion acoustic waves from quasiperiodic motion to limit cycle oscillation in a magnetized dusty plasma*”, *Physics of Plasmas*, Vol. 24, Issue 7 (2017).

Saha A. and Tamang J., “*Qualitative analysis of the positron- acoustic*

waves in electron-positron- ion plasmas with k deformed Kaniadakis distributed electrons and hot positrons”, **Physics of Plasmas**, Vol. 24, Issue 8, (2017).

Saha A. and Ali R., “Comment on “Solitonic and chaotic behaviors for the nonlinear dust-acoustic waves in a magnetized dusty plasma”, **Physics of Plasmas**, Vol. 24, Issue 9 (2017).

Saha A. and Ali R., “Nonlinear excitations for the positron acoustic waves in auroral acceleration regions”, **Advances in Space Research**, Vol. 60, Issue 6, pp 1220-1236 (2017).

Saha A., “Analytical electron acoustic solitary wave solution for the forced KdV equation in superthermal plasmas”, **Physics of Plasmas**, Vol. 24, Issue 12 (2017).

Ali R., Saha A., and Chatterjee P., “Analytical electron acoustic solitary wave solution for the forced KdV equation in superthermal plasmas”, **Physics of Plasmas** (2017).

Chatterjee P., Ali R. and Saha A., “Analytical Solitary Wave solution of the Dust Ion Acoustic Waves for the Damped Forced Korteweg-de Vries Equation in Superthermal Plasmas” **Zeitschrift für Naturforschung A**, (2018).

Tamang J., Sarkar K. and Saha A. “Solitary wave solution and dynamic transition of dust ion acoustic waves in a collisional nonextensive dusty plasma with ionization effect”, **Physica A: Statistical Mechanics and its Applications** (2018).

Ali R., “Effect of dust ion collision on dustion acoustic waves in the framework of damped Zakharov-Kuznetsov equation in presence of external periodic force”, **Physics of Plasmas**, (2017).

Das R., “Spectrum and fine spectrum of the Zweiermatrix over the sequence space c^s ”, **Boletim da Sociedade Paranaense de Matematica**, Vol: 35, Issue 2, pp 209-221 (2017).

Das R. “On the spectrum and fine spectrum of the upper triangular matrix over the sequence space c^0 ” **Afrika Matematika**, Vol. 28, Issue 5-6, pp 841-849 (2017).

Das R., “On the fine spectrum of the lower triangular matrix $B(r,s)$ over the Hahn sequence space”, **Kyungpook Mathematical Journal**, Vol. 57, pp 441-445, (2017).

Details of the Paper Presented by the Faculty Members / Students in Conference / Seminar:

- Deb B, “Reachability problem on graphs by a robot with jump”, **International Conference on Linear Algebra and its Applications, 2017**

FACULTY ACHIEVEMENT:

- Two faculty members were promoted to Professors.
- Faculty members are given additional Institute post and responsibilities such as Additional Registrar, Institute TG Coordinator and Head International Collaboration Cell, SMIT.

Ongoing Research Project Details:

- Project under Cognitive Science Research Initiative (CSRI) entitled “Study and develop a natural language parser for Nepali Language” from Govt. of India, Ministry of Science & Technology, Deptt. of Science and Technology.

Student’s Activities:

- The students are attending classes regularly and following their courses of study well. Almost all of them are doing well in their examinations.
- Students arranged farewell function to the final year students and fresher’s welcome to the freshers.
- Asit Saha and Jharna Tamang “Qualitative analysis of the positron- acoustic waves in electron-positron- ion plasmas with k deformed Kaniadakis distributed electrons and hot positrons” **Physics of Plasmas** 24 (8), 082101 (20117).
- Jharna Tamang, Koyeli Sarkar and Asit Saha “Solitary wave solution and dynamic transition of dust ion acoustic waves in a collisional nonextensive dusty plasma with ionization effect”, **Physica A: Statistical Mechanics and its Applications**, March 2018, in press, <https://doi.org/10.1016/j.physa.2018.02.213>.

New Initiatives:

- Active functioning of DAC members.

Placement Record:

- Almost 90% of pass out students have got job in different positions throughout the country.



DEPARTMENT OF MECHANICAL ENGINEERING

No. of Faculty Members:29

Names of Faculty Members:

Dr. B.B. Pradhan (HOD)
 Dr. A. P. Tiwary
 Dr. Ruben Phipon
 Dr. A.K. Roy
 Dr. M.K. Roy
 Mr. S. R. Dutta
 Mr. Sunny Diyaley
 Mr. P. R. Dewan
 Ms. T. Y. Ladakhi
 Mr. S. Chakraborty
 Mr. Saurabh Sharma
 Mr. P. M. Pradhan
 Mr. S.K. Dey
 Mr. Dhruva Kumar
 Mr. Dheeraj Kumar
 Mr. P.K. Mahto
 Mr. Saikat Chatterjee
 Mr. I. Shivakoti
 Mr. Soham Das
 Mr. Abhinandan Baruah

Mr. R. K. Ghadai
 Mr. Spandan Guha
 Mr. R. Ranjan
 Mr. Sanjeev Kumar
 Ms. L.P. Lepcha
 Mr. P.P. Das
 Mr. Priyank Gupta
 Mr. A.K. Sinha
 Mr. Zeeshan Mustafa

Number of Non-Teaching Staffs (Technical): 13

Names of Non-Teaching Staffs(Technical):

K. B. Chettri
 Bikash Chettri
 Mohan Pradhan
 Santosh Subba
 Manoranjan Das
 Buddha Raj Rai
 Prahlad Mondal
 Bhopal Tamang
 Rupa Lamichaney
 Mandeep Limboo
 Avishek Pradhan

Phurba Bhutia
Suman Rai

Number of Non-Teaching Staffs (Non-Technical): 05

Names of Non-Teaching Staffs(Non- Technical):

Mr. Mohan Pradhan
Mr. Bikash Cheetri
Ms. Lata Chettri
Mr. Sanjay
Mr. Bhopal Tamang

Details of Conference / Workshop / Seminar / CME conducted by the Department:

- 1st International Conference on Mechanical Materials and Renewable Energy (ICMMRE - 2017) conducted during 8th-10th Dec 2017

Details of the Paper Published by the Faculty Members in International / National Journals:

- GuhaSpandan, DasSoham, BandyopadhyayAsish, DasSantanu, SwainBibhu P., "Investigation of Structural network and Mechanical properties of Titanium Silicon Nitride (TiSiN) Thin films", Journal of Alloys and Compounds, vol. 731 pp.347-353, (2018).
- DasSoham, GuhaSpandan, GhadaiRanjan, KumarDhruva, SwainBibhu P., "Structural and Mechanical Properties of CVD Deposited Titanium Aluminium Nitride (TiAlN) Thin Films", Applied Physics A, vol. 123:412, 2017.
- GuhaSpandan, DasSoham, BandyopadhyayAsish, DasSantanu, SwainBibhu P., "Investigation of Mechanical Properties of CVD grown Titanium Silicon Nitride Thin films under Reduced Atmosphere", Applied Physics A, vol. 124:45, 2017.
- GhadaiRanjan Kumar, DasSoham, KumarDhruva, MondalSubhas C, SwainBiphu P., "Correlation between Structural and Mechanical Properties of Silicon doped DLC Thin films", Diamond and Related Materials, vol. 82, pp. 25-32, 2017.
- DiyaleySunny, ShilalPramod, ShivakotiIshwer, GhadaiRanjan Kumar, KalitaKanak, "PSI and TOPSIS Based Selection of Process Parameters in WEDM", PeriodicaPolytechnicaEngineering Mechanical Engineering, vol. 61(4), pp. 255-260, 2017.
- ShivakotiIshwer, PradhanBalBahadur, DiyaleySunny, GhadaiRanjan Kumar, KalitaKanak, "Fuzzy TOPSIS-Based Selection of Laser Beam Micro-marking Process Parameters", Arabian Journal for Science and Engineering, vol. 42, pp. 4825-4831, 2017.
- GhadaiRanjan Kr, DasSoham, MondalSubhasCh, SwainBibhu P, "Investigation of Structural and Electronic Environments of Nitrogen-Doped CVD-Grown DLC Films", Lecture Notes in Electrical Engineering book series
- Das P. P., GuptaP., GhadaiR. K., RamachandranM., Kalita K., "Optimization of Turning Process Parameters by Taguchi-Based Six Sigma", Mechanics and MechanicalEngineering, Vol. 21 No. 3 (2017) 649-656
- TiwaryA. P., PradhanB. B., BhattachariyaB, "Investigation on effect of Dielectrics during micro electro discharge machining of Ti-6 Al-4V", Int-J AdvManufTechnol
- ChakrabortyShankar, DasP. P., KumarVidyapati, "Application of Gray Fuzzy logic technic for parametric optimization of Non-traditional machining processes", Gray systems: theory of applications, Vol. 8 No.1. 2018, pp. 46-68
- GuhaS.Pandan, BandyopadhyayAshish, DasSantanu, SwainB. P., "Investigation of Titanium Silicon Nitride: A review", Springer Nature SingaporePvt Ltd, Advances in Electronics, Communication and Computing, Lecture Notes in Electrical Engineering 443.
- KalitaKanak, ShivakotiIshwer, GhadaiRanjan Kumar, Haldar-Salil, "Rotary Inertia Effect in Isotropic Plates Part II: Taper Thickness", Romanian Journal of Acoustics and Vibration, Vol. 8 issue 2/2016, ISSN 1584-7284
- KalitaKanak, ShivakotiIshwer, GhadaiRanjan Kumar, "Optimizing process parameters for laser beam micro-marking using genetic algorithm and particle swarm optimization", Materials and Manufacturing Processes, me 32, 2017- issue 10
- KalitaKanak, ShivakotiIshwer, GhadaiRanjan Kumar, HaldarSalil, "Rotary Inertia Effect in Isotropic Plates Part I: Uniform Thickness", Romanian Journal of Acoustics and Vibration, Vol. 8 issue 2/2016, ISSN 1584-7284
- KibriaGolam, ShivakotiI., PradhanB. B., BhattacharyyaB., "Electrical Discharge Micro-hole Machining Process of

Ti-6Al-4V: Improvement of Accuracy and Performance”, Non-traditional Micromachining Processes, springer.com/chapter/10.1007/978-3-319-52009-4_3#citeas

- DasPartha Protim, ChakrabortyShankar, “A Grey Fuzzy Logic Approach for Cotton Fibre Selection”, Journal of the Institution of Engineers (India): Series E, vol. 98, pp 1-9, 2017.

Details of the Paper Presented by the Faculty Members / Students in Conference / Seminar:

- ShivakotiI., “Multi Response Optimization of Laser Micro Marking Process: A Grey-Fuzzy Approach”, IOP Conference Series: Materials Science and Engineering 217 (1), 012033, 2017.
- GhadaiRanjan, “Grey fuzzy logic approach for the optimization of DLC thin film coating process parameters using PACVD technique”, IOP Conference Series: Materials Science and Engineering 217 (1), 012033, 2017.
- GuptaPriyank, DasP.P., MubarakM., ShajjaA., “Performance and emission analysis of single cylinder SI engine using bioethanol-gasoline blends produced by Salviniamoesta”, TSME-ICoME 2017, Bangkok, Thailand held during 12th -15th Dec 2017.
- DasP.P., Gupta Priyank, DasS., PradhanB.B., ChakrabortyS., “Application of grey-fuzzy approach in parametric optimization of EDM process in machining of MDN 300 steel”, TSME-ICoME297, 012013, Bangkok, Thailand held during 12th -15th Dec 2017.
- TiwaryA. P , DasP. P., ChakrabortyS., PradhanB. B., BhattacharyaB, “Parametric optimization of Micro EDM process during Micro holemachining on Ti-6Al-4vusing WASPAS method”, ICMMRE 2017, SMIT
- MukherjeeBarnak, PradhanB. B. and DeySujoy Kr., “The recent trends and inspections about poweredexoskeletons”, ICMMRE 2017, SMIT

Faculty Achievement:

- Mr. A.K. Roy was awarded Ph.D degree
- Mr. M.K. Roy was awarded Ph.D degree

Student’s Activities:

- A group of students under the guidance of Asst. Prof. ZeeshanMustafareachedin final round of ISIE-INDIAN KARTING (IKR).

- Obtained appreciation certificates for active contribution and participation in ICMMRE 2017.
- Active participation in workshop on Basic Aspects of Electrical and Electronics Engineering, Society of Electrical and Electronics Department.
- Attendance at Entrepreneurs’ meet 2017, TOKEN, SMIT
- Active contribution and participation in different events during Kaalrav’17, SMIT

Placement Record:

Company	No. of Students
Global Logic	02
Daikin	02
Total	04





DEPARTMENT OF PHYSICS

No. of Faculty Members : 9 (1 on leave)

Names of Faculty Members:

- Dr. V. K. Sayal
- Dr. G. C. Mishra
- Dr. U. Deka
- Mrs. P. Chettri
- Mr. V. Mukherjee
- Dr. S. K. Das
- Dr. T. K. Dey
- Dr. S. Kabi

Number of Non-Teaching Staffs (Technical): 02

Names of Non-Teaching Staffs(Technical):

- Mr. Dilli Ram Chhetri
- Mr. Binesh Pradhan

Number of Non-Teaching Staffs (Non-Technical): 03

Names of Non-Teaching Staffs(Non-Technical):

- Mr. Bikash Subba
- Mr. Kishan Sharma
- Miss. Mamita Rai

Details of Conference / Workshop / Seminar / CME conducted by the Department:

- Workshop on UHV & PE level I conducted in SMIT from 1st- 8th July 2017.

Details of the Paper Presented by the Faculty Members / Students in Conference / Seminar:

- Deka U., "Effects of Low Pressure Plasma Irradiation on Electrical Resistivity of Perovskiteoxide $\text{Eu}_{1-x}\text{Sr}_x\text{MnO}_3$ ", 1st International Conference on Mechanical, Materials and Renewable Energy (ICMMRE – 2017), SMIT

Placement Record:

Company	No. of Students
PGT	02
Total	02



OFFICE OF THE DEAN (STUDENT AFFAIRS)

HOO: Prof. (Dr.) Ratika Pradhan

No. of Staff: 03

Number of Non Teaching Staffs : 03

Names of Non Teaching Staffs:

- Mrs. Sakun Chettri
- Mr. Abinash Shrestha
- Mr. Saimon Pradhan

Activities:

Food Festival 2017:

The inaugural event of Food Festival, SMIT was held on 7th November, 2017 to celebrate the various flavors of the world. Multiple food vendors from across Sikkim were invited to showcase their cuisines. Competitions such as Man vs Food, Pani Puri Wars amongst others were held. The event was attended by the Director, SMIT who lauded the event as something that was unique. The event served as an exercise to unite the students of SMIT and appreciate the vendors around the college who serve them daily.

Cultural Fest- IIT Guwahati:

- The following Students represented SMIT in the Cultural Fest- IIT Guwahati from 1st Feb. to 4th Feb. 2018 and won prizes in the various Events.

From SMIT, a team of 1 students, namely- Muhammed Fardeen Alam (1st year), Nishant Gupta (1st year), Rudrani Bahurupi (1st year), Somik Datta (1st year), Alisha Pravin (Civil Dept.), Rohan Kumar Jaishy (ECE Dept.), Pallav Das, Sudipta Dey (CSE Dept.) , Sudeep Das and Shubham Kumar (CSE Dept.), participated in Alcherihga' 18, IIT Guwahati. The team was led by our esteemed faculty members- Mr. Sourabh Sharma, ME Dept. and Ms. Naiwrita Borah, IT Dept. Students participated in almost all the events of Cultural Fest, IIT Guwahati, 2017 and have come out successfully.

The lists of achievements of the team are as follows:

Mr. Alcheringa: Rohan Kumar Jaisy secured 1st position and Nishant Gupta was runner-up.

Lip Painting: Sudeep Das and Rudrani Bahurupi secured 1st position.

Tech Adrishta – 2018:

Annual Technical Festival - Adrishta 2018, a two-day technical extravaganza, was held on 16th and 17th February 2018. Tech Adrishta has been organized as the first independent technical festival of SMIT – to bring out the brightest minds of the institute

and recognize their technical prowess. Tech Adrishta 2018 was inaugurated by Chief Guest, Lt. Gen. (Retd.) Dr. M.D. Venkatesh – Vice Chancellor, SMU. The SMIT chapter of AIESEC was also launched during the inaugural event. A total of 20+ events were held including Tech Showdown (project displaying competition), Hackathon, Tech MUN, CAD Design Competition, Game Development Competition amongst others. A total of 80+ projects were submitted by students across various streams. The SMIT Hackathon was held in association with Hacker Earth and a number of workshops were held in association with Roboversity. A large number of schools and colleges from within and outside Sikkim participated in the fest. The two day event was concluded with the prize distribution and cultural ceremony presided over by Dr. Ashis Sharma, Director – SMIT. Tech Adrishta hopes that it can continue to bring out new talent in technical fields from amongst the brightest students of SMIT.

Kaalrav-2018: Annual Cultural Festival - Kaalrav 2018, a three-day mega event was held from 9th March to 11th March 2018. This Kaalrav, inter-collegiate cultural and sports events were held with full joy and pomp over the three days. Kaalrav 2018 was inaugurated by Chief Guest, Lt. Gen. (Retd.) Dr. M.D. Venkatesh – Vice Chancellor, SMU and Guest of Honor, Shri Tenzing Loden Lepcha, S.P (East), Govt. of Sikkim. A total of 50+ events were held including singing competitions, dance competitions, dramatics among others. Sports

events such as Futsal, Tennis, Squash etc. were also held. The Live Your Passion initiative was launched, under which students participating in competitions such as Short Film Making and Illustration were given a chance to intern at companies such as Nandkishore Telefilms and Myndroot. Two Quizzing Competitions were held in association with Inquizitive and a national quizzing startup, Quizzora. The Fashion Show was also held with great fanfare as Miss Sikkim participant and female entrepreneur, Ms. Puja Kharel, attended the event as a guest judge and performer. Preceding Battle of Bands, which was held as a concert for a cause, a highly anticipated performance was delivered by the little boys and girls of Little Angels Orphanage, Kalimpong. Various locations of the campus were decorated as different parts of the World and a cosplay competition was held by students under the Japan sector. A record number of 18 colleges from within and outside Sikkim participated in the fest. For the first time in Kaalrav history there were 3 headlining performances – On 9th March, standup comedian Biswa Kalyan Rath – On 10th March, EDM Night with DJ Ritviz. Finally, the fest came to its conclusion with a grand, one of a kind performance in Kaalrav history, held on top of the Red Bull Tour Bus featuring bands, The Local Train and Arogya on the night of 11th March 2018.

The special guest for the event was Indian footballing legend, Shri. Bhaichung Bhutia who was felicitated by Dr. Ashis Sharma, Director – SMIT.

TRAINING AND PLACEMENT DEPARTMENT

Training and Placement (T&P) Department is the hub of all possible interaction between the Corporates & Industry houses with Sikkim Manipal Institute of Technology (SMIT). The main objective of this department is to provide career opportunities for the students through placement events. The T&P Cell with the support of external partner conducts intensive employability training so as to ensure high placement during placement drives. Career Counselling and Guidance is offered to all the students on a regular basis. Apart from conducting campus hiring drive, T&P also explores the possibility of Industrial Internship for the students.

The T&P Department has also been organizing highly successful Industry-Academia Interaction meets which act as a spring board to help SMIT to stay connected with the current and relevant trends in the industry.

The department is headed by Mr. Biswaraj Sen and supported by Mr.

Rakesh Krishna and Mr. Arun Kumar Singh as Training & Placement Officer. Each academic department also nominates faculty members as Departmental Training & Placement Officer who also becomes part of Training & Placement Department.

No. of Companies visited for the batch Graduating in Jul / Aug 2018(as on 20th Feb 2018):28

Major Recruiter for 2017-18: MICROSOFT, IXIA, DELL INDIA, WELLS FARGO, BOSCH, AIS, WIPRO, THOUGHTWORKS, JUST DIAL, AGS, CAPGEMINI, SMARTPRIX, PROTO TECH, POORNAM INFOVISION, CLICK ON CARE, PARAGYTE, THINK & LEARN, AMAZON, GLOBAL LOGIC, MICROSOFT,

Average Salary (lakhs/annum)	6.07
Median Salary (lakhs/annum)	3.2
Maximum Salary (lakhs/annum)	22.38
Lowest Salary (lakhs/annum)	2.0

Total Number of Offers (in nos.)	206
Total Number of Eligible/Interested Students	320

SOLARIZE, IGENESYS, E-CONSTRUCT, DAIKIN, TELVIEW, LT ELEVATORS

Summary of Compensation Package for 2018 Outgoing B-Tech. Batch

Industry-Academia Interaction

- 24th April - 1st May 2017: Tech Mahindra Workshop.

- 11th-13th Jan 2018: Ericsson Campus Connect Program.
- 3rd Feb 2018: "Oracle" - Student interaction on Engagement Program by Mr. Sukumar-Head University Relation and Mr. Arghya.
- 12thFeb 2018: TCS workshop on ERP by Mr. Abhijit Banerjee.

mitho FOOD DELIVERY SERVICE PRESENTS

CO SPONSORED BY **GANGTOK GROOVE**

YOUTH PARTNER **GANGTOK YOUTH PARTNER**

POWERED BY **OSM**

9TH - 11TH MARCH

SMIT SIKKIM MANIPAL UNIVERSITY SIKKIM MANIPAL INSTITUTE OF TECHNOLOGY

ritutz

KARNATAKA '18

3 Days 3 Proshows 1 Mega Event

RED BULL MUSIC

THE LOCAL TRAIN & AROGYA

BISWA KALYAN RATH

60+ EVENTS 3 DAYS IT CAN'T GET BETTER THAN THIS

MYND ROOT, ROOSH PRODUCTIONS, RED FM 93.5, PAYTM



SMIT CENTRAL LIBRARY

Number of staff: 10

Librarian:

Dr.Kh.Premoda Devi

06 are Professional Staff and 04 are Non-Professional Staff.

The SMIT Central Library serves as a model of an evolving and dynamic facility in technical learning since 1997. The library is a two-storied building with 3500sq.m carpet area. The seating capacity for the library is 541 users at a time.

The Library's collection comprises hybrid resources (Print & Electronic) in the field of Science and Technology, Engineering & Management. The Library also has a separate Internet section consisting of a number of networked terminals for providing recent and most comprehensive access to e-journals and other e-reference resources to the faculty, students and staff under Intranet and Internet environment. The Central library has automated all its routine activities through library software called "EASYLIB" and also extended the scope of various services like CD-ROM database search, & EPAC.

Collection of the Library as on 31st March 2018

Particulars	2018-19
Total number of book accessioned	58,829
Total No. of Titles	19,197
Reference Books	3985
Lending Books	39460
Bound Periodicals	5881
Theses	65
Non—Print Materials (CD)	3864
Project Reports	6746
General Books	1566
Novels	229
Book Bank	499
Departmental issued Books	8008
Indian Journals	39
International Journals	79

E-Resources Subscribed at SMIT Central Library during 2018-19

Sl.no.	Name of Packages
01.	IEEE(ASPP)
02.	Springer Link
03.	ASME
04.	ASCE
05.	Elsevier Science Direct
06.	J-Gate(Engineering& Management)
07.	EBSCO
08.	Access Engineering(e-book)
09.	ASTM Digital Library
10.	Sage (Management)
11.	DELNET (Developing Library Network)



Facilities Available in the Library:

- SMIT, Central Library provides the following facilities to the users:
- The library follows open access system by which a reader can select his/her desired book(s) direct from the rack.
- The library has a well-furnished reading room with a seating capacity of 256 users at a time.
- EPAC (Electronic Public Access Catalogue) is available for checking the availability of a book in the library and it can be accessed through SMUERP home page (http://172.16.0.5/epac/epac_selog.asp).
- Xerox facilities are available in the library from 9.30am to 6pm.
- The library has internet and Wi-Fi facilities.

Statistics:

Circulation	Reference User	Dues Collection	Photocopies
Issue:16,237	9.00 am – 6.00pm: 39,622	From Book: Rs. 2,04, 721	Rs. 14,541
Return:15,360	After 6.00pm to 8.00pm:11,007	From Card:Rs. 10,900	
Renew:8,565			
Total:31,597	Total: 50,629	Total: Rs.215,621.00	Total:Rs.14,541



SIKKIM MANIPAL INSTITUTE OF MEDICAL SCIENCES

Sikkim Manipal Institute of Medical Sciences (SMIMS) is a constituent college of Sikkim Manipal University (SMU) established in the year 2001. Prior to this this was running as Central referral hospital since 1997. The first batch of MBBS students were enrolled in the year 2001.

SMIMS is driven with the cores objectives to support, promote and undertake the advancement of academics; to encourage research, creation and dissemination of knowledge; to facilitate extension and community service, and to ensure steady growth of the University.

The first and only medical college in the State of Sikkim, SMIMS, with its world class health care and educational facilities, has been contributing immensely towards the growth of the educational sector Sikkim and the North East region. It is the gateway of learning for the North East with around 50% of the students from the region. 20% seats are reserved for Sikkim students with 75% concession in tuition fees.

With a team of 393 faculties SMIMS conducts Medical and Health Sciences courses in (i) MBBS (ii) M.Sc Medical Bio Technology (iii) MS in ENT & OBG, (v) MD in General Medicine, Pediatrics, Community Medicine, Pharmacology,

OBG, Biochemistry, Psychiatry, Microbiology & Physiology.

SMIMS follows a decentralized admission process. For medical programs, students are admitted based on their merit in National Eligibility cum Entrance Test (NEET). As per the agreement with Government of Sikkim, 20% of the seats for each program are reserved for candidates (includes SC, ST and OBC) selected by Government of Sikkim.

SMIMS has a structured student feedback mechanism for the evaluation of teachers. Suggestions made by students on the teaching learning process are discussed, deliberated at the department level and implemented to enhance the quality of education.

SMU has a definitive Research Policy. The Research Committee frames and implements the guidelines for conducting research in the University. SMU has created a post of Associate Dean-Research in 2016 to facilitate and coordinate research activities, timely release of grants, administrative and technical support. SMIMS departments regularly organize Continuing Medical Education (CME) and Continuing Nursing Education (CNEs) programs, conferences, workshops to facilitate dissemination of knowledge.

SMIMS provides a comfortable and lively campus stay with both academic and enriched vibrant cultural and sports environment. Exhibiting a unique combination of Sikkim style and modern architecture, SMIMScampus is an eco-friendly medical campus spread across a sprawling area of 25 acres surrounded with lush greenery. The Institute provides a very congenial environment for academic activities with well equipped laboratory infrastructure, lecture theatres with all modern audio visual amenities. SMIMS library has a seating capacity of more than 200 students at a time with all the modern facilities of computers, internet, interactive CDs to support the teaching, learning, and research activities of the students. The Institution has a 750 seated air conditioned auditorium with all modern facilities. A 42-seated conference hall and a 45-seated seminar hall are also available to hold state and national level events. Hi-speed internet connectivity is provided to the faculty members, students and research scholars through local area network/Wi-Fi. 24x7 medical facilities are also provided to all the faculty and students as required.

SMIMS provides hostel facilities for around 600 students with 24 hours uninterrupted power and water supply, attached bathrooms

and a 300 seated dining hall. The hostel also has a Gymnasium, Badminton Court, TV Rooms and internet facilities for the students. The campus also has volley ball and basketball courts.

The associated Central Referral Hospital (CRH) is a 500 bedded tertiary care hospital. The hospital has 21 specialties and super specialties in Neurosurgery, Cardiology, Gastroenterology, Pediatric Surgery with state of the art equipments. The Hospital houses modern diagnostic facilities like CT Scan, Digital Radiography, MRI Ultra Sound, Dialysis Unit, Central Laboratory for various investigations, 24 hours Pharmacy and completely automated and online Hospital Information System. Emergency cases are handled at CRH through a well-equipped Emergency Medicine Department manned by expert clinicians and paramedical staff.

The Hospital also has facilities for ambulance services, canteen & cafeterias, general stores, comfortable waiting areas, bank and post office. SMIMS aims at providing continual excellence in medical education together with community healthcare services.





DEPARTMENT OF ANAESTHESIOLOGY

Introduction:

The Department has its inception since 01 March 1997 and thus as old as the mother institution in a Health Care System, **Department of Anaesthesiology & Critical Care** has always been the backbone of the institution in looking after functions of all operation Theatres as well as managing all Critical Patients in CCUs, ICUs, Wards and Accident Cum Casualty Department. Both Undergraduates and Post Graduate Medical students are taught the best art and skill of Resuscitation and Life Support Techniques in addition to other students from Nursing, Physiotherapy and Paramedics, making them complete and competent healthcare providers. The Objective has been to provide its clientele a modern, scientific and reliable health care service in a compassionate environment.

A. Teaching Staff:

Sl No.	Name	Designation	Qualification
1.	Dr Basanta Kumar Gandhi	Prof & HOD	MBBS, MD
2.	Dr Asoke Chakraborty	Prof	MBBS, MD
3.	Dr Yanki D Shipmo	Assoc. Prof	MBBS, MD

4.	Dr Meyong P Bhutia	Assoc. Prof	MBBS, MD
5.	Dr Arati Rai	Assoc. Prof	MBBS, DNB
6.	Dr Aradhna Sinha	Assoc. Prof	MBBS, MD
7.	Dr Sofia Batool	Asst. Prof	MBBS, MD
8.	Dr Pallavi Shende	Asst. Prof	MBBS, MD
9.	Dr Yogesh Narwat	Asst. Prof	MBBS, MD

B. Non-Teaching Staff:

(i)	Operation Theatre Technician	10
(ii)	Operation Theatre Nurses	21
(iii)	Clerk	1
(iv)	OT Attendants	3
(v)	Cleaners	4

Conference / Workshop / Seminar / CME Conducted by the Department :

- Workshop on “Basic Life Support/ Airway Management” for Nursing Professionals and Paramedics was jointly conducted by the Department of Anaesthesiology and College of Nursing (SMCON) on 18.8.2017 & 19.8.2017.
- Live Surgical Workshop for “Advanced Temporal bone Dissection” was conducted with the Department of Oto Rhino Laryngology (ENT) on 5 May 2017.
- “Life Support Workshop ISTOLS” was conducted along with the department of Forensic Medicine and Toxicology (FMT) for Indian Society of Toxicology National Conference held at SMIMS, Gangtok on 7 April 2018.

Research Publications of the Existing Permanent Faculty in the Current Academic Session in National/ International Journals

- Dexmedetomidine as an Additive to Spinal Anaesthesia in Orthopaedic Patients Undergoing Lower Limb Surgeries : A Randomized Clinical Trial Comparing Two Different Doses of Dexmedetomidine. Rai, Arati; Bhutia Meyong Pincho. Journal of Clinical and Diagnostic Research. 2017; Vol-11(4); 9-12
- Attenuation of Haemodynamic Parameters in Response to Pneumoperitoneum During Laparoscopic Cholecystectomy: A Randomized Controlled Trial Comparing Infusion of Propofol and Dexmedetomidine. Rai, arati; Bhutia Meyong Pincho: Journal of Clinical and Diagnostic research. 2017; Vol-11(5);1-4
- Appropriate Use of Oxygen Delivery Devices. Batool, Sofia; Garg Rakesh. The Open Anaesthesiology Journal. 2017; Vol 11; 35-38
- Efficacy of Dexmedetomidine Compared to Clonidine as an Adjuvant to Ropivacaine in Ultrasound Guided Supraclavicular Brachial Plexus Block. Yogesh Narwat et al. Indian Journal of Anaesthesia and Analgesia. 2017; Vol 4(4); 929-934
- Comparison of Granisetron, Palonosetron & Ondansetron for Prevention of Post-Operative Nausea & Vomiting in Gynaecological surgery under General Anaesthesia. Batool, Sofia; Mandal, Sudipta Kumar et al. Annals of International Medical and Dental Research. 2017; Vol 3 (3); 40-44

Faculty Achievements

- **Prof BK Gandhi & Prof Asoke Chakraborty** of the Department has been invited to chair Scientific Sessions and performed the role of Judges on Poster Presentations in the National conference of Indian Society of Anaesthesiology (ISACON) 2017 held at Kolkata, WB from 26 to 28 December 2017.
- **Prof B K Gandhi** has been invited by West Bengal University of Health Sciences (WBUHS) as an External examiner for the ensuing Post Graduate Diploma Oral & Practical Examination 2018 to be Held at Vivekananda Institute of Medical Sciences, Kolkata on 26/5/2018.
- **Dr Pallavi Shende, Asst Prof** of the Department was a Guest Speaker in the Neurology & Interventional Radiology Conference held in SMIMS, Gangtok on 13 April 2018. The Session was also chaired by **Dr Aradhna Sinha & Prof B K Gandhi** from the Dept.
- **Dr Aradhna, Asst Prof** has attended ISACON-2017 held at Kolkata, 26-28 December, 2017. she has also attended Research Theme Program Wksp and Pedagogic & Personal Effectiveness Conferences held at Gangtok on 15 March 2017 and 28 Apr 2017 Respectively.
- **Dr Yogesh, Sr Resident** attended Palliative Care Conf/ Wksp held at Gangtok on 27 May 2017
- **Dr Sofia Batool, Asst Prof** attended an international Conf & Wksp on Palliative Care held at New Delhi on 23-25 February 2017.

Ongoing Research Projects in the Dept : Nil

Student Activities : Not Applicable to the Department

New Initiative and Implementations in Department: The University and the Institution have taken all necessary steps and care for the introduction of Post-Graduation Course (MD, Anaesthesiology) in the Department from the coming academic session to boost the academic environment. The Inspection of the Sanctioning Authorities from the MCI is impeding. The Renovation of the main OT complex is complete with state of art modern Technologies and provisions in our work place.



DEPARTMENT OF ANATOMY

Department: Anatomy

Department Established in the Year 1999

Objectives:

Proper solid foundation to become a basic doctor by enabling them.

- To identify / verify the different component parts of entire Human body as regards its Gross anatomy, Micro anatomy, Development Anatomy.
- To Develop basic application skill to explain common clinical problem e.g. Erb's palsy, Bell's palsy, Hydrocephalus etc.
- To motivate to take up Research activity to explain the Anatomical Background of Congenital abnormalities/ surgical/ medical

2.	Dr. Pranoti Sinha	Associate Professor	MBBS, M.Sc.Medical Anatomy
3.	Dr. Kalpana Chhetri	Associate Professor	MBBS, M.Sc.Medical Anatomy
4.	Dr. Poonam Shilal	Associate Professor	MBBS, MD
5.	Dr. Khrietouzo Atou Chielie	Associate Professor	MBBS, MD
6.	Dr. Polly Lama	Associate Professor	M.Sc.Medical Anatomy Ph. D
7.	Dr. Karma Lakhi Bhutia	Lecturer	M.Sc.Medical Anatomy Ph. D
8.	Mr. Rohit Sarda	Tutor	M.Sc.Medical Anatomy
9.	Ms. Jerina Tewari	Tutor	M.Sc.Medical Anatomy
10.	Ms. Th. Bedita Devi	Tutor	M.Sc.Medical Anatomy

Names of Non-Teaching			
Sl No.	Name of the Staff	Designation	Qualification
1.	Dr Binod Kr. Tamang	Prof & HOD	B.A, MA (MBBS, MD)
2.	Mrs. GeetaPradhan	Junior Assistant (1)	B.Sc., BMLT
3.	Mr. Karma SonamBhutia	Senior Lab Technician	B.Sc, BMLT
4.	Mr. Tika Ram Sharma	Senior Lab Technician	Class X
5.	Mr. Chandra Bdr. Rai	General Duty Worker	Class III
6.	Mr. Deo Kumar Darjee	Dissection Hall Attender	Class XI
7.	Mr. Binod Kr. Ram	General Duty Worker	Class IX
8.	Ms. MeenaChettri	General Duty Worker	

Sl No.	Name of the Staff	Designation	Qualification
1.	Dr Binod Kr. Tamang	Prof & HOD	MBBS, MD

Details of Conference/workshop/Seminar/CME conducted by the department: N/A

Details of Papers published by faculty in International/National Journal

- Binod Kr. Tamang, Karma Lakhi, PranotiSinha, Rohit Sarda. Study of tracheal dimension in adult cadaver from eastern India. Indian journal of clinical anatomy and Physiology, April June 2017 vol: 4(2):144 -147. DOI – 10.18231/2394-2126.2017.0036. ISSN-2394-2118
- Polly Lama, Jyoti P. Kulkarni, Binod Kr. Tamang. The role of cell cluster in intervertebral disc degeneration and its relevance behind repair. Spine Journal 2017; Vol 3 no3:15-21 ISSN-2471-8173
- PranotiSinha, Karma Lakhi Bhutia, Binod Kr. Tamang, Morphometric measurements of segments in dry humerus. J.Evolution Med. DENT. Sci.2017;6(67): 4819-4822. DOI: 10.14260/Jemds/2017/1045
- A.Bala, P C Sarmah, B.Khandelwal ,Binod Kr. Tamang Palmar dermatoglyphics in diabetes mellitus and diabetic with hypertension patients in Gangtok region. International journal of advance research.vol.3,Issue 4,page 1117-1125. ISSN-2320-5407

Dr. Pranoti Sinha:

- Binod Kr. Tamang, Karma Lakhi, Pranoti Sinha, Rohit Sarda. Study of tracheal dimension in adult cadaver from eastern India Indian journal of clinical anatomy and Physiology, April June 2017 vol:4(2): 144 -147. DOI – 10.18231/2394-2126.2017.0036. ISSN-2394-2118
- Pranoti Sinha, Karma Lakhi Bhutia, Binod Kr. Tamang, Morphometric measurements of segments in dry humerus. J. Evolution Med. DENT. Sci.2017;6(67): 4819-4822,DOI: 10.14260/Jemds/2017/1045
- M.N.Chettri, Pranoti Sinha, S. Chakraborty, H. Jain., Naso Facial anthropometric study of Female Sikkimese University Students IOSR Journal of Dental and Mendical Sciences (IOSR-JDMS) Voume16,Issue 3 Ver.VII (march 2017).pp49-54. ISSN:2279-0853,p-ISSN:2279-0861.

Dr. Polly Lama:

- Polly Lama, Christine L Le Matire, IJ Harding, P Dolan, M A Adams. Nerves and blood vessels in degenerated intervertebral disc are confined to physically disrupted tissue. Journal of Anatomy 2018. Accepted for Publication, Online first. ISSN: 1469-7580.ISI Journal Citation Reports @ Ranking: 2016:3/21 (Anatomy & Morphology).
- Polly Lama, Jyoti P. Kulkarni, Binod Kr. Tamang,The role of cell cluster in intervertebral disc degeneration and its relevance behind repair. Spine Journal 2017; Vol 3 no3:15-21. ISSN-2471-8173

Dr. Karma LakhiBhutia:

- Binod Kr. Tamang, Karma Lakhi Bhutia, Pranoti Sinha, Rohit Sarda. Study of tracheal. Indian journal of clinical anatomy and Physiology, April June 2017 vol:4(2):144 -147. DOI – 10.18231/2394-2126.2017.0036
- PranotiSinha, Karma Lakhi Bhutia, Binod Kr. Tamang, Morphometric measurements of segments in dry humerus. J.Evolution Med. DENT. Sci.2017;6(67):4819-4822.DOI: 10.14260/Jemds/2017/1045

Mr. Rohit Kumar Sarda:

- Binod Kr. Tamang, Karma Lakhi, Pranoti Sinha, Rohit Sarda. Study of tracheal dimension in adult cadaver from eastern India. Indian journal of clinical anatomy and Physiology, April June 2017 vol:4 (2):144 -147. DOI – 10.18231/2394-2126.2017.0036. ISSN-2394-2118.

Ms. Th.Bedita Devi:

- Thoudam Bedita Devi, S. Jibon kumar Singh, Estimation of Stature from Cephalometric Measurement among Male Muslims of Manipur, India. International Journal of Research in Medical Science September 2017,Vol.5(9),ISSN:2320-6071, page number 4055-4060. DOI:10.18203/2320-6012 IJMRMS 20173982
- ThoudamBedita Devi, S. Jibonkumar Singh, Binod Kumar Tamang, Th. Naranbabu Singh “Inter-Generational Variation of Nasal Morphology of Meitei Males of Manipur, India” International Journal of Medical Research Professional, published on 31st May 2017, Vol.3(3), Pg-59-64.ISSN-2454-6364.

Details of Papers presented by Faculty:

Dr. Polly Lama:

- Polly Lama, D Bisson, D Rosenzweigh, P Roughley, J Ouellet, L Haglund. Fragmented SLRP's and fibronectin in deformed facet joints as potential alarmins and biomarkers of matrix damage. Oral and Bone Health Network (RSBO), Nature Index Meeting, 23rd May 2017, Montreal, Canada.
- Polly Lama, D Bisson, D Rosenzweigh, J Ouellet, L Haglund. Fragmentation of SLRP's in patients with adolescent's idiopathic scoliosis. 23rd Canadian Connective Tissue Society Meeting 18th-20th May 2017, Montreal, Canada.

ThoudamBedita Devi:

- Thoudam Bedita Devi, "A Study on Secular Tend in Nasal Morphology and Nasal Index of Meitei Male Population of Manipur, India" in the 65th National Conference of Anatomical Society of India, held at Pt.J.N.M. Medical College, Raipur , 30th November -3rd December 2017, India.
- Thoudam Bedita Devi, "A Diachronic Study of Nasio-Facial Anatomy of Meitei Males of Manipur, India". 105th Indian Science Congress (ISC), Manipur University, Canchipur 16th-20th March 2018, India.

Faculty Achievements:

- Dr. Polly Lama, was awarded competitive Post-Doctoral Salarial Support from the Oral and Bone Health Network (RSBO), Montreal, Canada, 2016-2017, for the study "The role of alarmins in structurally deformed scoliotic facet Joints"
- Thoudam Bedita Devi, published a book chapter title "Variation in classificatory finger and Palmar Dermatoglyphics Traits among some selected populations of Manipur" for the Book Recent Trends in Dermatoglyphic Research (Commemoration Volume in Memory of Late Professor Ramesh Chaube), B.R.Publication Corporation (India) Ltd. Delhi, First Edition, 2018, ISBN:- 9789386223722, Page no. 97-111, Chapter-4.

Ongoing research Project Details:

ICMR Funded Projects:			
Sl No.	Title of the Projects	Principal Investigator	Co Investigators
1.	Cell cluster in intervertebral disc degeneration and its relevance behind disc repair. No:5/7/1290/2015-RCH	Dr. Polly Lama	Dr. Binod Kr Tamang

2.	To study dendritic formation in Rat Fetal Neural Stem Cells using Bacoposide and its analogues in vitro and in vivo.5/7/1260/2015-RCH.	Dr. Amlan Gupta	Mr. Rohit Sarda
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Ph. D Projects:			
Sl No.	Title of the Projects	Principal Investigator	Co Investigators
1.	Secular trend in cephalometric characters of the Meitei males of Manipur Valley (Registration number 201410011).	Ms. Th. Bedita Devi	Dr. Binod Kr Tamang
2.	Glycoproteins of the cadaveric and pathological intervertebral disc (Registration number: 201510009).	Mrs. Jerina Tewari	Dr. Polly Lama
3.	Therapeutic evaluation of Bacopa in spinal cord injuries (Registration number: 201410002).	Ms. Rohit Sarda	Dr. Amalan Gupta, Dr. Rohan Sinha

Student Activities

Ph. D Projects:			
Sl No.	Title of the Projects	Principal Investigator	Co Investigators
1.	Characterization of intervertebral disc cell clusters and progenitor cell source- STS project funded by Dr. RamdasPai&Vasanthi Pai Endowment Fund.	Mr. Pulkit Muterja (M.B.B.S 3rd Year)	Dr. Polly Lama

New Initiatives:

Launch of Annual Student Research Day, 2018 (tentative date to be held on June 18-19th 2018), This event is supported by Dr. Ramdas Pai &Vasanthi Pai Endowment Fund, which will present research work and scholarly activities by the students of SMIMS, SMCON, and SMCOP.



DEPARTMENT OF BIOCHEMISTRY

Introduction-

Since the inception of college, Department of Biochemistry started with the registration of 100 MBBS 1st Professional and Ph D in 2002. The post graduate course, MD in Biochemistry permitted in 2011 and recognition was given in 2014. The purpose of PG education is to create specialists who would provide high quality health care and advance the cause of science through research & training. The student who has obtained MD degree in Biochemistry should be well-versed in basic concepts and recent advances in the subject and should have acquired skills and expertise in various laboratory techniques applicable to metabolic and molecular aspects of medicine and in research methodology.

Till date, eight MDs in Biochemistry and five Ph D have been awarded their degree under Sikkim Manipal University, Gangtok.

The research areas of the department are mostly based on molecular biology, immuno techniques and stem cell research that has proven that the department is able to stand at the edge of international arena of stem cells research for the first time in the NE region of India with support of fund more than INR 1.5 crore from ICMRD&DBT India

Objectives: At the end of MD course a student should be able to. At the end of the MD training programme in Biochemistry, the post graduate student should have acquired competencies in the following areas, as detailed below.

Acquisition of Knowledge: The student should be able to explain clearly concepts and principles of biochemistry and cell biology, including correlations of these with cellular and molecular processes involved in health and disease.

Teaching and Training: The student should be able to effectively teach undergraduate students in medicine and allied health science courses so they become competent health care professionals and able to contribute to training of postgraduate post graduate students. Diagnostic services: The student should be able to set up/supervise/ manage a diagnostic laboratory in Biochemistry in a hospital, ensuring quality control, and providing a reliable support service. The student should be able to provide clinicians with consultation services for diagnostic tests in biochemistry and in interpretation of laboratory results.

Number & Names of Faculty / Staff (Teaching and Non – Teaching)

Teaching Faculty -			
Sl No.	Name of the Staff	Designation	Qualification
1.	Dr T A Singh	Prof & Head	MD, FMSA
2.	Dr Mingma L Sherpa	Professor	MD
3.	Dr Sanjeev Dhakal	Assoc. Professor	MD
4.	Dr Sameer Bhandari	Assoc. Professor	MD
5.	Dr Sonam Choden	Asst. Professor	Ph D
6.	Dr Mumta Subba	Asst. Professor	MD
7.	Dr Rashmi Rekha Phukan	Asst. Professor	MD
8.	Ms Samita Rai	Sr Lecturer	M Sc (Medical)
9.	Ms Yazum Bhutia	Sr Lecturer	M Sc (Medical)
10.	Mr T Paras Singh	Sr Lecturer	M Sc (Medical)
11.	Ms Rinchen D Bhutia	Sr Lecturer	M Sc (Medical)

Non Teaching Staff -: 05			
Sl No.	Name of the Staff	Designation	Qualification
1.	Mrs. Sangita Dhakal	Sr. Assistant	MBA
2.	Mrs. Dawa Doma Lepcha	Assistant Technician	DMLT (Class 12 Passed)
3.	Ms. Anupa Rai	Technician	BMLT (Class 12 Passed)
4.	Mr. Phurba Tshring Lepcha	Attender - IV – Grade	Class V Appeared
5.	Meena Pradhan	Cleaner IV – Grade	Class V Appeared

Details of conference /workshop / Seminar /CME/ medical camps/ guest lecture/Outreach programme conducted by the department (mention point wise only .

- Workshop on Laboratory Basics in Biotechnology Sr. secondary School faculties and student learned about the laboratory Basic , held on 22-24 March 2018.
- Workshop on Basic Biological Lab Technique learned the student of Central Agriculture University , Ranipool on 28th March 2018.

Outreach programmes of Biotechnology in senior Secondary as an Elective Subject & Laboratory structure , conducted in three school –

- Mount Zion school , MP Golai , Tadong Gangtok on 7th March 2018.

- Biraspati Parsai Sr. Secondary School ,Marchak, Ranipool , E. Sikkim on 7th March 2018.
- Govt. Sr. Secondary School Assam Lingzey , E. Sikkim , on 19th March 2018.

Details of paper publication by the faculty in International / National :-

- Dr. Sonam C. Bhutia, Dr. T. A Singh ,Dr. M.L Sherpa Dr. S.K Dewan paper published in “Correlation of cartilage metabolic markers and antioxidants with the severity of knee osteoarthritis”. Indian journal , of Medical Research, on 2016 Dec/144 (6) 932-934 published in 2017
- Ms. Rinchen d. Bhutia ,Dr. T.A Singh , M.L Sherpa Didita Khandelwal paper published in “Metabolic of Diabetic Retinopathy in type 2 diabetic patients Attending tertiary Care Hospital in Sikkim”. Indian journal of clinical Biochemistry, on 2017 oct; 32(4): 4 80-486.
- Dr. Karma Loday Bhutia ,Dr. Neiwete Lomi , Dr. Sonam C. Bhutia paper published in “Prevalence of Diabetic retinopathy in Type 2 Diabetic Patients Attending Tertiary care Hospital in Sikkim”. Delhi J of Ophthalmology, on 28 (2) oct.2017.
- Soibam Deepa , T.A Singh , parvati Nandi & S.K Dewan paper published in “SP1 binding site polymorphism at COL1 A1 gene and its relation to bone mineral density for osteoporosis risk factor among the Sikkimese men and women of North- East India”. Indian journal of clinical Biochemistry, on 2017 accepted for publication
- Rinchen D. Bhutia, Mingma L. Sherpa , T. A Singh and Bidita Khandelwal paper published in “ Oxidative stress in metabolic syndrome and DNA strand break”. Indian Journal of Medical Research, Accepted for publication in 2017.

Details of Faculty Achievement :-

- Received six year grand Rs.6.00 lakhs against Biotech Hub under Prof. T. A Singh, on April 2017
- Received three years grant of 53.00 lakhs against ICMR under Prof. Mingma L. Sherpa. Starting on March 2017.

collaborative work with Microbiology Department with support Biotech Hub, DBT India .

Ongoing Research Project in Details :-

- Wharton Jelly MSc generation & trial for Generation of Islet like cells on induced diabetic mice with the financial support from NER –BPMC , DBT India & ICMR , Govt. of India .
- Metabolic syndrome & broken DNA Comet Assay with financial support fro ICMR India and infrastructure supports of DBT India .
- Metabolic syndrome & Molecular study of Indigenojuse people of Manipur.
- Polyclonal anti T3 production and its diagnostic study.
- MDR molecular strain typing among people of Sikkim a

Students Activities :-

Curricular Activities –

- Theory class
- Seminar -14
- Practical class
- Tutorial
- Problem Based Learning
- Part Completion Test

Co- Curricular Activities-

- Cultural Activities
- Sport Activities
- Attends Clinical Meet
- Attends & Participates the relevant research workshops etc.



DEPARTMENT OF MEDICAL BIOTECHNOLOGY

Department of Medical Biotechnology was established in 2008 in the department of Biochemistry, SMIMS and is running independently since January 17, 2013 with the objective to develop professionals of excellent technical calibre in the field of medical biotechnology with a humane approach capable of shouldering the responsibility of building the nation and be globally competent.

Number of Faculty

- Teaching 3

Teaching Faculty - 3			
Sl No.	Name of the Staff	Designation	Qualification
1.	Dr. Prasanta Kumar Mitra	Professor & HoD	M.Sc.(Cal), Ph.D.(Cal), Ph.D.(NBU), Ph.D. (NBU), Ph.D. (SMU)
2.	Dr.Arundhati Bag	Assistant Professor	M.Sc. (BU), Ph.D. (BHU)
3.	Dr.TanayaGhosh	Assistant Professor	M.Sc. (NBU), Ph.D. (SMU)

As this department has collaboration with the departments of Anatomy, Biochemistry, Community Medicine, Computer Science, Microbiology, Pathology and Physiology, teachers of these departments are also involved in teaching program of medical biotechnology

Non-Teaching - 1

Sl No.	Name of the Staff	Designation	Qualification
1.	Tsering Doma Bhutia	Attender	Class VIII

Conferences Workshops/ Seminars : 1 CMEs Conducted by the Department.

Workshop on Entrepreneurship Awareness & IPR has been organized in collaboration with the Dept. of Science Technology & Climate Change, Govt. of Sikkim on 22nd November 2017 at Auditorium, 6th level, New College Building, SMIMS, SMU.

Resource Persons were,

- Ms. Nandita Chandavarkar, Head - C-SAP, C-CAMP, Bangaluru.
- Dr. K. K. Narayanan, Former Managing Director, Metahelix Life Sciences. Bangaluru.
- Dr. S. Banerjee, Registered Indian Patent Agent, L. S. Davar & Co., Kolkata.
- Sri Rajdeep Gurung, Scientist, Dept. of Science Technology & Climate Change, Govt. of Sikkim.
- Ms Smrita Pradhan, Individual Entrepreneur, Sikkim.

Paper published by the faculty in National / International Journals.

1. Mitra, Prasenjit., Ghosh, Tanaya. and Mitra, Prasanta Kumar. (2017). In vitro Anti Thiamine Activity of an Isolated Compound from *Murryakoenigii* (linn.) Spreng Wettst Leaves: Effect of Season. *SMU Medical Journal*, 4(1), pp. 128-141.
2. Mitra, Prasenjit., Ghosh, Tanaya. and Mitra, Prasanta Kumar. (2017). Effect of Season on In Vitro Anti Oxidant Activity of *Ageratum conyzoides* L. Leaves. *SMU Medical Journal*, 4(2), pp. 222-233.
3. Mitra, Prasanta Kumar., Ghosh, Tanaya., Mitra Prasenjit., Gupta, Sumanta. and Basu, Basudeb. (2017). Isolation and Characterization of a Compound from the Leaves of *Amaranthus spinosus* Linn. *SMU Medical Journal*, 4(2), pp. 259-268.
4. Ghosh, Tanaya, Mitra, Prasenjit., Jha, Dilip Kumar., Gupta, Sumanta., Basu, Basudeb. and Mitra, Prasanta Kumar. (2017). Isolation and characterization of a bioactive compound from *Abrus precatorius linnaeus* leaves. *World Journal of Pharmacy and Pharmaceutical Sciences*, 6(8), pp. 1163 – 1174.
5. Ghosh, Tanaya., Mitra, Prasenjit., Jha, Dilip Kumar. and Mitra, Prasanta Kumar. (2017). *Abrus precatorius linnaeus* and its biological activities - a review. *World Journal of Pharmacy and Pharmaceutical Sciences*. 6(8), pp. 352 - 368.
6. Ghosh, Tanaya., Mitra, Prasenjit., Jha, Dilip Kumar. and Mitra, Prasanta Kumar. (2017). Isolation of a compound (AP-II) from the leaves of *Abrus precatorius Linnaeus* and its effect on body weight loss in albino rats. *European Journal of Biomedical and Pharmaceutical Sciences*, 4(8), pp. 452 – 456.
7. Ghosh, Tanaya., Mitra, Prasenjit., Jha, Dilip Kumar. and Mitra, Prasanta Kumar. (2017). Good and bad effects of *Abrus precatorius linnaeus* - a review. *European Journal of Biomedical and Pharmaceutical Sciences*, 4(8), pp. 200 – 207.
8. Mitra, Prasanta Kumar., Ghosh, Tanaya. and Mitra, Prasenjit. (2017). Effect of Season on In Vitro Anti Oxidant Activity of *Astilberivularis* Buch. – Ham. Ex D. Don leaves. *Biomedical Journal of Scientific & Technical Research*, 1(1), pp. 1-4.

9. Mitra, Prasanta Kumar., Ghosh, Tanaya. and Mitra, Prasenjit. (2017). In vitro anti oxidant activity of chromatographically separated fractions from the leaves of *Ageratum conyzoides* L. *International Journal of Research in AYUSH and Pharmaceutical Sciences*, 1(1), pp. 7-13.
10. Mitra, Prasanta Kumar., Mitra, Prasenjit. and Ghosh, Tanaya. (2017). Medical ethics amongst medical intern students: a study from the eastern part of India. *Global Bioethics Enquiry*, 5(2), pp. 73-77.

Details of Faculty Achievement

Prof. (Dr.) Prasanta Kumar Mitra, HOD

- Acted as Council Member of International Forum of Teachers (IFT) of the UNESCO Chair in Bioethics
- Delivered invited lecture at Manipal Research colloquium, Manipal University, Mangaluru held on 24-26th April 2017.
- Continued as, Member Secretary, Research Protocol Evaluation Committee, SMIMS
 1. Member Secretary, Institutional Ethics Committee, SMIMS
 2. Member Secretary, Research Publication Committee, SMIMS
 3. Member, Institutional Purchase Committee, SMIMS.
 4. Incharge, Research Unit, SMIMS.
 5. Nodal Officer, IPR Cell, Sikkim Manipal University.
 6. Editor, SMU Medical Journal.
- Book chapter written Mitra, Prasanta Kumar., Mitra, Prasenjit. and Ghosh, Tanaya. (2017). Biotechnological advances In India. In, *Progress of Biotechnology in India*, Ed. Santra S.C. & Mallick Mallick, ENVIS Centre on Environmental Biotechnology, Dept. of Environmental Sciences, University of Kalyani, West Bengal, India, PP. 88 – 105.

Dr. Arundhati Bag, Assistant Professor

Received Manipal Endowment Seed Grant to work on, “Study for association of Manganese Superoxide Dismutase target sequence polymorphism Val16Ala with diabetic nephropathy” and initiated work.

Ms. Tanaya Ghosh, Assistant Professor Attended

- a) National Conference
 - For oral presentation at Manipal Research colloquium, Manipal University, Mangaluru held on 24-26th April 2017.

- For poster presentation at Clinical Biologist Association of India (ACBICON) held at Lucknow wef 3-6 December 2017.

b) International Conference

- For poster presentation at IFCC World lab congress held in Durban, South Africa wef 25-28 October, 2017.

Ongoing Research Project in Details

a) Title: Improving health and nutritional status of vulnerable segment of population in East Sikkim by implementing multi-component health and nutrition education intervention as a sustainable model of intervention.

b) Name of the Investigator: Dr. Prasanta Kumar Mitra

c) Type of Research: Field study

d) Details of grant: INR44,79,872 (ICMR, Govt. of India)

Student Activities

Higher Education

- a) Pausali Sen, student of this department, has been selected by the University of Toronto, Canada for higher education.
- b) Sweta Sarmah, student of this department, has been selected by the University of Campinas, Sao Paulo, Brazil for higher education.

Others

- Sri Adish Majumder, student of this department, wrote columns in the Sikkim Express.
- Students participated in AURA – 2017 and bagged many prizes.

New Initiatives Implementation

Academic

- Board of studies meeting was conducted on October 11, 2017 to bring about changes in syllabus.
- Initiatives were taken for which the on-line Medical Journal of the Sikkim Manipal University, SMU MEDICAL JOURNAL, has been indexed in various national / international indexing agencies like SIS (USA), ASI (Germany), and SJIF (Morocco), I2OR (India) and i-Scholar (India) as well as Cosmos Foundation (Germany).

Non-Academic

- Series of meetings were organized with the villagers of Nandok, Saramsa, Bashilakha, Changgey, Upper Syari, Bhotey Gaon, Rakshey, Chisopani, Sajong and Tumin villages of East Sikkim on health and nutrition.

Clinical Trial : Nil

Placement Record

Sl No.	Name of the Students Passed Out in 2017	Present Status
1.	Sunaina Sewa	Doing Preparation for UGCNET
2.	Tayenjam J enclar	Studying Foreign Language in Manipur.
3.	Shashank Barua	Doing Preparation for UGCNET
4.	Prakash Chettri	Doing Service at Tour Genie, Gangtok
5.	Gourav Dey	Doing Coaching of Medical Coding, Bangaluru.





DEPARTMENT OF COMMUNITY MEDICINE

The Department of Community Medicine at SMIMS was established in 2001 and covers the following subjects:

- Epidemiology
- Biostatistics
- Research Methodology
- Sociology
- Nutrition
- Health Management
- Health Communication
- Health Environment and Medical Entomology
- Health System and Health Programmes
- Health related policies, laws
- Communicable & NCDs including National Health programmes

KEY FEATURES

- Use epidemiology as a scientific tool to make rational decisions relevant to communities and individuals for preventive, promotive, curative and rehabilitative care.
- Diagnose and manage public health problems prevailing in the community keeping in mind the existing health care system in the context of the prevailing socio-cultural beliefs.
- Guides the health system at policy, planning, implementing and evaluation level.

CORE COMPETENCIES

- Research
- Trains the medical (MBBS& MD students of all streams) and paramedical staff.
- Technical support and monitoring the national health program.
- Health promotion and disease prevention in community.
- Community awareness for disease prevention and control.
- Outbreak investigation and containment

Teaching Staff			
Sl No.	Name of the Staff	Designation	Qualification
1.	DR. V. K. MEHTA	Professor	MD
2.	DR. DECHENLA TSERING	Professor	MD, MPH
3.	DR. F. A. ZAMAN	Professor	MD, FIPHA
4.	DR. SUMITKAR	Professor	MD
5.	DR. N. B. LASKAR	Asst. Professor	MD
6.	Dr. RAJ KUMARIS DEVI	Asst. Professor	MSc, PhD
7.	DR. BINU UPRETI	Asst. Professor	MD
8.	DR. TSHERING DOLKAR	Asst. Professor	MD
9.	DR. UDIT PRADHAN	Asst. Professor	MD

Non-Teaching Staff			
Sl No.	Name of the Staff	Designation	Qualification
1.	DR. SARADA TENZING	Sr. MO, UHC	MBBS
2.	DR. CHANG CHUPDOMAYETHENPA	Sr. MO, UHC	MBBS
3.	Ms. JAYANTINIROLA	Technician	BSc, BSc MLT
4.	MR. BIPAN PRADHAN	Jr. Asstt	M.A, DCA
5.	Ms. NANDA TAMANG	General Duty Worker	Below Matric
6.	Ms. SUGRI RAI	General Duty Worker	Below Matric
7.	RUPA NEOPANEY	MSW	MA
8.	PEMADOMA SHERPA	MSW	MSW

Details of the Conference/Workshop/Seminar/CME conducted by the Department

- World Health Day 2017 was organized by Department of Community Medicine under the aegis of SMIMS on 7th April 2017. The slogan for WHD 2017 was "Depression, Let's Talk". The event was organized at Rural Health Training Centre (RHTC), Pakyong. The event was marked by Health Checkup by specialist from Psychiatry Department. Students performed a skit, group songs at RHTC Pakyong & a floor National IAPSM Quiz on the theme at SMIMS auditorium. There were about 120 posters based on the theme submitted by students for the display. All the events were performed by MBBS 2015 batch students guided by different faculty members.

Details of the papers published by the faculty in International/ National Journal. Publications from 1st April 2017 to 31st March 2018

DR V K MEHTA

- Frieda Bokali P Engheepi, Ajoy Daniel Rai, Nikita Joshi Sonowal & V. K. Mehta. Quality of life & elderly in Rural areas of East Sikkim, India ; a cross sectional study. 65270 ICOPH 2017; 3209
- Forhad Akhtar Zaman, Vijay Kumar Mehta, Utpal Sharma, A Study of the Status and Factors affecting Isoniazid Chemoprophylaxis for Paediatric Contacts of the Smear-Positive Tuberculosis Cases in East District of Sikkim In India, J Evol of Med and Den Scie' / Volume 6/Issue 77/ September 2017.

- Manikala Moktan, Vijay Kumra Mehta & Dr Elsa Sana. Assessment of current status of Nursing education in Bhutan a cross sectional study. J Nur & Healscie,3(6)
- Manikala Moktan, Vijay Kumra Mehta & Elsa Sana. Diploma in nursing and midwifery students assessing the current teaching techniques and resources at faculty of nursing and public health in Bhutan. Ind J appl res. 2018, 8(6);475-478.
- Ajay Dheer, Vijay Kumra Mehta, Role of Nycocard D- Dimer Test in prevention of Thrombotic Catastrophes in asymptomatic healthy individuals serving at High altitude. Ind J of Applied Resr. 2018, 8(2); 250-51

Dr. F. A. Zaman

- Koirala PK, Bidita Khandelwal, Forhad Akhtar Zaman, Study of Hematological Profile and Effect of Antitubercular Medications on the Hematological derangements in Patients Suffering from Tuberculosis, Ind J Emergency Med,2017;3 (1)
- Forhad Akhtar Zaman, Vijay Kumar Mehta, Utpal Sharma, A Study of the Status and Factors affecting Isoniazid Chemoprophylaxis for Paediatric Contacts of the Smear-Positive Tuberculosis Cases in East District of Sikkim In India, J Evol of Med and Den Sciences' / Volume 6/Issue 77/ September 2017.
- Upreti B, Zaman FA, Satpathy SV. Prevalence of Diabetes Mellitus among ethnic adult population in an urban community in East Sikkim, India. J Evid Based Med Healthc. 2017; 4(83), 4900-4905.
- T. Shanti Kumar Singh, Forhad Akhtar Zaman, Hiromu Sugiyama, Epidemiology and Laboratory Diagnosis of Paragonimiasis, Int J of Cur Med and App Sciences, Vol 16/ Issue: 1, Sep 2017.
- Prakash Kumar Koirala, Bidita Khandelwal, Forhad Akhtar Zaman, Comparative Analysis of the Grade of Sputum Positivity with the Radiological Lesions in Pulmonary Tuberculosis. Int J of Cur Med and App Sciences, Vol 16/ Issue: 1, Sep 2017.
- R L Sharma, Anil Mishra & Forhad Akhtar Zaman, A Clinico epidemiological Study of Alopecia Areata with it's demographic Correlation in an urban Hospital Setting in Odisha. Int J of Cur Med and App Sciences, Vol 16/ Issue: 3, Nov 2017
- R L Sharma, Forhad Akhtar Zaman & Anil Mishra, Study on Evaluation of Magnitude of Skin Diseases and Pattern of Various Dermatoses with the Etio-Clinical Correlates in a Tertiary Care Hospital in Sikkim. Int J of Cur Med and App

Dr. Binu Upreti

- Upreti B, Zaman FA, Satpathy SV. Prevalence of Diabetes Mellitus among ethnic adult population in an urban community in East Sikkim, India. J Evid Based Med Healthc. 2017; 4(83), 4900-4905.

Dr. T. Dolkar Bhutia

- Trikha Sushma, Singh Neelima, Wangdi Jigdel, Dolkar Tshering. Study of hyponatraemia and its prognostic implications in hospitalised patients with cirrhosis of liver. Ind J Pub H res & dev 2017. 8(1), 13-17.

Details of the Faculty Achievement

DR VIJAY KUMAR MEHTA.

- Attended 3rd International conference on Public Health at Kuala Lumpur Malaysia for 27th to 29th July 2017 and chaired three scientific session.
- Participated as chairperson in scientific Plenary session in National Conference of IAPSM- 2018 held from 9th to 11th March 2018 at Smt Kashibal Navale Medical College Pune.
- Participated in three day workshop in “Academic Leadership” on 15th to 17th March 2018 at SMIMS, Gangtok
- Participated as a resources person in the “Stroke & Neuro international update 2018 at SMIMS, Gangtok on 13th April 2018 Chaired a session on “Epidemiology of Strokes”
- Resource person for Ph D research Course work for the session 2017-2018 under Sikkim Manipal University at Sikkim Manipal Institute of Medical Sciences, Gangtok
- Participated in North East Health Care Summit from 8th to 9th Sept. 2017 under the aegis of Public Health Foundation of India and Dept. of HC, HS & FW, Govt. of Sikkim at Gangtok
- Appointed as “Associate Dean student Affairs” for a period of two years w.e.f 1st Aug. 2017
- Appointed member of Academic senate of the Sikkim Manipal University of a nominee of the vice chancellor for the period of three years w.e.f. 3rd Aug 2017
- Appointed member of scientific committee and abstract reviewer of International conference of public health 2017 & 2018

- Appointed member of editorial board of Manipal journal of Medical Sciences 2018-19

- Selected as vice chairman of STF Sikkim

DR. DECHENLATSERING

- Resource person for Revised Basic Course Workshop under the aegis of Regional MCI Nodal Centre for Medical Education technologies- SCB Medical College, Cuttack, Odisha held from 27th – 29th March 2018 at Sikkim Manipal Institute of Medical Sciences, Gangtok
- Resource person for PhD research Coursework for the session 2017-2018 under Sikkim Manipal University at Sikkim Manipal Institute of Medical Sciences, Gangtok
- Participated in Workshop on “Academic Leadership” organized by Sikkim Manipal Institute of Medical Sciences from 15th to 17th March 2018
- Participated in “Revised Basic Course and ATCOM Workshop” organized by MCI MET Regional training Centre, SCB Medical College, Cuttack, Odisha from 10th to 13th October 2017
- Participated in State Measles Rubella Case based Surveillance transitioning workshop from 14th to 15th November 2017 under the aegis of WHO, India and Dept. of HC,HS& FW, Govt. of Sikkim at Gangtok
- Participated in North East health care Summit from 8th to 9th Sept. 2017 under the aegis of Public Health Foundation of India and Dept. of HC,HS& FW, Govt. of Sikkim at Gangtok
- Appointed as Admission Officer, SMIMS
- Appointed as Executive member, Medical Education Unit, SMIMS
- Plenary speaker and chaired sessions at the 3rd INTERNATIONAL CONFERENCE ON PUBLIC HEALTH at Kuala Lumpur, Malaysia from 27th July to 29th July 2017.
- Presented a research paper and Chaired Session at the IEA World Congress of Epidemiology at Saitama, Japan from 19th Aug to 22nd Aug. 2017
- Attended National Task Force (TB) workshop of RNTCP at Guwahati, Assam from 11th April to 12th April 2017

- Attended 1st Contact session of MCI Advance Course in Medical Education (ACME) from Sri Ramachandra University, MCI Nodal Centre for Medical Education at Chennai , TN from 5th Sept to 9th Sept. 2017.
 - Attended Zonal Task Force (TB) Workshop at Imphal , Manipur from 19th Dec to 20th Dec. 2017.
 - Attended Zonal Operational Research (TB) Workshop at Agartala from 24th Oct to 25th Oct 2017.
 - Attended Intellectual Property Rights (IPR) at Gangtok on 4th Nov 2017
 - Attended 2nd North East Health Care Summit at Gangtok from 8th Sep to 9th Sep 2017.
 - Attended as OR Chairman of Zonal Task Force (NE Zone) to End TB Summit at Delhi on 13th March 2018
 - Attended National Task Force (TB) workshop of RNTCP at Delhi on 14th March 2018
 - Attended 2nd Contact session of MCI Advance Course in Medical Education (ACME) from Sri Ramachandra University, MCI Nodal Centre for Medical Education at Chennai , TN from 9th March to 11th March 2018
 - Attended workshop on Theatre of Oppressed- Art & Science of Communication at SMIMS, Gangtok from 31st Jan to 2nd Feb 2018
 - Attended North- East Workshop on Data Analytics for Medical & Healthcare Professionals at SMIMS, Gangtok from 21st March to 23rd March 2018.
 - Resource person at Revised Basic Course Workshop on MET at SMIMS, Gangtok from 27th March to 29th March 2018
 - Selected member of Editorial Board of Manipal Journal of Medical sciences in 2018.
 - Chair person for a session in the CME on Stroke & Neurointerventional update at SMIMS on 13th April 2018
 - Selected member of Advisory Board of Bholanath College Science Journal, Dhubri, Assam in 2017.
 - 18. Selected Chairman of Operational Research (OR) RNTCP Zonal Task Force (ZTF, NE) on 20th Dec. 2017.
 - Awarded Fellowship of Indian Public Health Association (FIPHA) at AIIMS, Jodhpur in 2017.
 - Coordinator MEU, SMIMS
 - Appointed member of scientific committee and abstract reviewer of International conference of public health 2017 & 2018
- DRSUMITKAR**
- Attended & chaired session 45th National IAPSM conference and 19th Maharashtra State Joint Conference of IAPSM and IPHA – 2018 held at Pune on 9th to 11th March 2018.
 - Attended a workshop on Pedagogy and Personal effectiveness as a part of faculty development programme at SMIMS on 29th April 2017 to 1st May 2017
 - Selected member of Editorial Board of SMU Medical Journal in 2018.
 - Member of Institutional Purchase committee SMU
 - Member of Publication Evaluation Committee SMIMS
 - Chaired session at Manipal Student research Colloquium 2018 held on March 15th& 16th 2018 at SMIT
- DR. NASRINBANULASKAR**
- Attended 2nd North Eastern Health Care Summit from 8th – 9th September 2017, Organised by PHFI in Collaboration with STNM Hospital Gangtok.
 - Participated in a Workshop on Intellectual Property Rights (IPR) and Patenting held on 4th November 2017, Organised by SMIMS, Gangtok with assistance from the Patent Office Kolkata.
 - Participated in a Workshop on “Art and Science of Communication- Theatre of Oppressed” organised by SMIMS from 31st January to 2nd February 2018.
- DRBINU UPRETI**
- Chaired sessions at the 3rd INTERNATIONAL CONFERENCE ON PUBLIC HEALTH at Kuala Lumpur, Malaysia from 27th July to 29th July 2017.
 - Attended North- East Workshop on Data Analytics for Medical & Healthcare Professionals at SMIMS, Gangtok from 21st March to 23rd March 2018.

- Attended Revised Basic Course Workshop on MET at SMIMS, Gangtok from 27th March to 29th March 2018

DR. R. K SANATOMBI DEVI

- Attended Indian Science Congress at Manipur University, Imphal from 16/03/2018 to 20/03/2018
- Attended 37th Annual Conference of Indian Association for the Study of Population at Andhra University, Vizag from 20/12/2017 to 22/12/2017
- Attended 35th Annual Conference of Indian Society for Medical Statistics at Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, UP from 02 /11/2017 to 0 4/11/2017
- Attended “Stroke & Neuro international update 2018 at SMIMS, Gangtok on 13th April 2018 Chaired a session on “Epidemiology of Strokes”
- Attended Revised Basic Course Workshop on Medical Education Technologies at SMIMS, Sikkim from 27/03/2018 to 29/03/2018
- Attended Modeling Epidemiological (Count) Data: At Biostatistics Resource and Training Centre, Christian Medical College, from 08/05/2017 to 10/05/2017
- Attended Sample Size Calculation at Biostatistics Resource and Training Centre, Christian Medical College, Vellore, Tamil Nadu from 11/05/2017 to 12/05/2017
- Attended Hands-on Workshop on Public Health Analytics and Disease Modelling at Indian Statistical Institute, Kolkata at NEHU Univ, Shillong from 02/05/2017 to 05/05/2017

DR. UDIT PRADHAN

- Attended North- East Workshop on Data Analytics for Medical & Healthcare Professionals at SMIMS, Gangtok from 21st March to 23rd March 2018.
- Attended 45th National IAPSM conference and 19th Maharashtra State Joint Conference of IAPSM and IPHA – 2018 held at Pune on 9th to 11th March 2018.
- Attended Revised Basic Course Workshop on MET at SMIMS, Gangtok from 27th March to 29th March 2018
- Attended Pedagogic and personal effectiveness workshop at SMIMS from 28th April to 1st May 2017

- Awarded 1st place in the oral presentation in 2nd northeast health care summit held on 8th -9th sept 2017 in chintanbawan at Gangtok Sikkim

Ongoing research Projects in Details (Title, Name of the Investigator, type of research and details of grants if any)

- Research project titled “Improving health and nutritional status of vulnerable segment of population in east Sikkim y implementing multi-component health and nutrition education intervention as a sustainable model of intervention” with principal investigator Dr P K Mitra & co investigator Dr S Kar, Dr V K Mehta with grants amount around 50 lakhs.
- Working with Registrar General of India (RGI) and Centers for Global Health Research (CGHR), University of Toronto, Canada, in Physician coding as Health Care Professional for assigning causes of death based on Routine, Representative, Re-sampled, Household Interview of Mortality with Medical Evaluation (RHIME) household reports of the project titled “Million Death Study (MDS) in India” from March 2011 with principal investigator F A Zaman, Dr S Kar, Dr NB Laskar
- Research project titled “Burden of Tuberculosis amongst the contacts of Sputum Positive TB patients I East District of Sikkim” with principal investigator Prof (Dr) Forhad A Zaman & co investigator Prof (Dr) V.K Mehta with grants amount of Rs. 5,00,000/-.

Student Activities (Curricular / Co-curricular)

Students of 4th term MBBS conducted health education campaigns in schools.





DEPARTMENT OF DENTAL SURGERY

Introduction: The Department of Dental Surgery started functioning in the year of 1999 along with other clinical department of Central Referral Hospital (CRH). The objective of the dept. of Dental Surgery is to advance oral health through excellence in teaching and learning, research, quality patient care at affordable price and community activities.

Dept. conducts theory and clinical classes for 6th and 7th semester MBBS students. Apart from this, theory class of 2nd year BSc Nursing Students are also undertaken.

The Dept. deals with the diagnosis and management of patients with Orofacial diseases and trauma. The department works in collaboration with other clinical and para clinical specialities like the Departments of ENT and Surgery. It serves the needs of medically compromised patients and in patients of other departments who need Orofacial consultation.

Teaching Staff			
SJ No.	Name of the Staff	Designation	Qualification
1.	Colonel (Dr). Satish Gupta	HOD & Professor	MDS
2.	Dr. Atanu Bhanja	Associate Professor	MDS
3.	Dr. Sandeep Kashyap	Assistant Professor	MDS

4.	Dr. Gaveshana Rai	Senior Resident	BDS
5.	Dr. Mandira Gurung	Senior Resident	BDS
6.	Dr. Archana Sharma	Emergency Dental Officer	BDS

Non Teaching Staff			
SJ No.	Name of the Staff	Designation	Qualification
1.	Mrs. Sarda Sharma,	Sister-in Charge	GNM
2.	Mrs. Madhu Sharma	Dental Technician	DDT
3.	Mr. Cherakh Tamang	Oral Hygienist	DDH
4.	Mr. Tashi Namgyal Bhutia	Junior Assistant	DCS, CCNA
5.	Mrs. Laxmi Manger	Attender	VIII
6.	Ms. Phurba Yangee Sherpa	Attender	BA

Details of Conference/ Workshop/ Seminar/ CME / medical camps / guest lecture conducted by the Department. : Nil

Details of Paper Published by the Faculty/ in International/ National Journal.

- D'Souza D, Atanu B. Bioethical and Biosafety Issues in Biomaterials Used in Oral Rehabilitation. JOJ Material Sci. 2017; 1(1):. 555553. DOI: 10.19080/JOJMS.2017.01.555553
- Dr. Sandeep Kashyap; "Comparison of scalpel versus soft tissue

diode laser for biopsy of oral lesions”: International journal of oral care and research, Accepted for publication

- Dr. Sandeep Kashyap; “Buccal fat pad for closure of orolrantral and oro nasal communication: Study of 16 cases” :International journal of oral care and research, Accepted for publication

Details of Faculty Achievement (Certificate/Awards of participation in any CME/ Workshop/paper presentation/poster presentation/ book publication/Academic & non –academic award/fellowship/ degree certificate/research grant award/additional post and position in details if any).

Workshop & Conference Attended

- Dr. Atanu Bhanja attended Workshop on Pedagogic & Personal Effectiveness from 28th April -1st May 2017 at SMIMS
- Dr. Mandira attended Hands-on Troubles in Endodontic on 29 April 2017 at Hotel Tibet Gangtok.
- Dr. Atanu Bhanja attended CD Eprogramme on Application of CBCT in our Day to Day Dental Practice at IDA Siliguri Branch on 6 Aug 2017.
- Dr. Atanu Bhanja attended and chaired session in CME on oral Oncology Update of F.H.N.O by A.O.I Siliguri Branch at Siliguri on 26 Aug 2017.
- Dr Sandeep Kashyap attended international conference in STRESS FREE DENTISTRY in Pattaya Thailand on 4th nov 2017
- Dr. Atanu Bhanja attended 19th Annual Conference IDA Siliguri “Success Mantra in Day-to-Day Dentistry & Practice of Bioethics” on 12th Nov. 2017
- Colonel (Dr). Satish Gupta and Dr. SandeepKashyap attended workshop in Theatre of Oppressed, Art of Communication at SMIMS from 31 jan-2 Feb 2018.
- Dr. Atanu Bhanja attended “Leadership Training Workshop” funded by Pai Endowment Fund from 15 March- 17 March 2018 at SMIMS
- Dr. Sandeep Kashyap attended ‘Advanced workshop on MET’ from 27 March-29 March 2018 at SMIMS L-IV Conference Hall

Research Grant

- Dr. Atanu Bhanja has received seed grant of 25000/- for research project titled, “Trauma Registry with analysis of data in CRH” under “Dr. Ramdas Pai and Vasanthi Pai Endowment fund”

Other

1. Colonel (Dr). Satish Gupta has been selected and appointed as “Editor of International Journal of Dentistry and Dental Practices”.
2. Dr. Atanu Bhanja has received reviewer recognition from Medical Journal of Armed Forces India.
3. Dr. Atanu Bhanja has been selected for ‘SMILE’- leadership development program.
4. Dr. Atanu Bhanja is member of College Cultural Committee.
5. Dr. Atanu Bhanja is member of Convocation Committee.
6. Dr. Atanu Bhanja is member of Anti-Ragging committee.
7. Dr. Atanu Bhanja is Chairman of material checking committee of General Store.

Ongoing research projects in details(Title, Name of the Investigator, type of research and details of grants if any).

- “Trauma Registry with analysis of data in CRH” of Dr. AtanuBhanja under “Dr. RamdasPai and VasanthiPai Endowment fund”

Students Activities [curricular (STS project, poster, seminar, journal, PBL, tutorials, case presentation, workshop, if any).Co-curricular (quiz, skit, culture, sports activity)]

None

New Initiatives implementation (Academic & non-academic if any)

Establishment of “Dental Implant Centre” in CRH, first of its kind in the state of Sikkim.





DEPARTMENT OF DERMATOLOGY

- Department of Dermatology is fully committed to teach the students of different batches. We conduct theory classes to the MBBS students and Physiotherapy students. We also take clinical classes to these students of various batches. In addition, problem based learning is another teaching activity where the students are taught about different topics and doubts are also cleared.
- We conduct theory examination for MBBS and Physiotherapy students.
- We also conduct examinations for the students of Medicines by allotting spot cases in their practical examinations.
- Post graduate students of Medicine are posted in the department of dermatology in batches for a period of 15 days. The Department imparts them the clinical training and orientation in management of dermatological illnesses.

Teaching Staff		
Sl No.	Name of the Staff	Designation
1.	Dr. R.L Sharma	HOD
2.	Dr. Rekha Sharma	JR

Non Teaching Staff		
Sl No.	Name of the Staff	Designation
1.	Rebika Berdewa	Sister In-Charge
2.	Tashi Namgyal Bhutia	Junior Assistant
3.	Bimla Chettri	Attender

Details of Conference/ Workshop/ Seminar/ CME conducted by the department - Nil

Details of Paper Published by the Faculty/ in International/ National Journal.

a. Dr. Anil Mishra, Dr. RL Sharma, "Clinicoepidemiological study of Alopecia Areata with its demographic correlation in Anurban hospital setting in Western Odisha": International Archives of Integrated Medicine, 2017; 4(5):26-30

b. Dr. RL Sharma, Forhad Akhtar Zaman & Dr. Anil Mishra; "Study on evaluation of magnitude of skin diseases and pattern of various Dermatoses with the Etio-clinical correlates in a Tertiary Care Hospital in Sikkim": International journal of Current Medical and Applied Sciences, 2017,16(3),125-128.

c. Dr. RL Sharma, Dr. Rekha Sharma; "Recurrent Dermatophytosis: A Rising problem in Sikkim, a Himalayan state of India" :Indian Journal of Pathology and Microbiology, 2017,60:541-5

d. Dr. Rekha Sharma, Dr. TSK Singh; "Profile of Intestinal Parasites Infection in patients attending Central Referral Hospital, Gangtok- A Retrospective Analysis": Indian Journal Of Research, 2017;9(6)99-100

e. Dr. Rekha Sharma, Dr. Luna Adhikari, Dr. R.L Sharma; "Increased Resistance to Anti-Fungal Agents by Dermatophytes isolated from Sikkim, a Himalayan state of India" : International Journal Of Scientific Research, 2017;9(6):99-100

Details of The Paper presented by the Faculty/students in Conference/Seminar

Chaired a session & acted as resource person – on "Stroke and Neuro-interventional Update" 2018, on 13th April 2018 at SMIMS.



Ongoing Research Projects Details

- Departmental referrals from all other departments to Dermatology and analysis of these cases.
- Various drug combination drug trials in dermatophytes and assess their efficacy.

Students Activities (Curricular/Co-Curricular)

- Clinical and Theory classes and problem based learning classes are conducted in regular basis for MBBS students of Semester IV, VI & VIII.
- Classes for Physiotherapy students conducted as per the schedule and examination conduction

New Initiatives

- a. Commencement of PLATELET RICH PLASMA THERAPY in the pipeline.





DEPARTMENT OF FORENSIC MEDICINE & TOXICOLOGY,, SMIMS, SMU

The Department of Forensic Medicine & Toxicology, established in April 2002, SMIMS is a well-equipped and established department for Under Graduate Teaching of MBBS course and also having facilities for opening post graduate course in Forensic Medicine. It is one of the few private Medical Institution in India having medicolegal autopsy facility.

Objectives:

- Identify and define medicolegal problems as they emerge in the community and work to resolve such problems by planning, implementing, evaluating and modulating medicolegal services.
- Impart education in Forensic Medicine & Toxicology to students with the help of modern teaching aids and conduct of research in the subject.
- Undertake medicolegal responsibilities and discharge medicolegal duties in required settings.

Teaching Staff			
Sl No.	Name of the Staff	Designation	Qualification
1.	Dr. Prateek Rastogi	Professor & HOD	MD, PGDMLE, PGDCFS PGCTM, PGCMNCPA, Dip. Cyber Law, PAGE
2.	Dr. Ashim Mishra	Asst. Professor	MD
3.	Dr. Karma Mingur Diki Bhutia	Asst. Professor	MD
4.	Dr. Chedup Lepcha	Senior Tutor	MBBS

Non Teaching Staff		
Sl No.	Name of the Staff	Designation
1.	Binay Tamang	Senior Asst. – III
2.	Tashi Tshering Bhutia	Senior GDW – III
3.	Mrs. Gabani Limboo	Senior GDW – I
4.	Bijay Rawat	Junior GDW – I

Details of Conference/ workshop/Seminar/CME conducted by the department.

- “Workshop on Medico legal aspects of patient care” for doctors and nursing staff of SMIMS and CRH organized by HR, SMIMS on 10-12 July and 17-18 July 2017.

Details of paper published by the faculty in International /

National journal.

a) Gedion HA, Shetty PH, Shetty BSK, Rastogi P, Rao PPJ, Jain A, Enyew D.(2017). A Cross- sectional Study on Pattern of Organs Fatally Damaged in Road Traffic Accidents in Mangalore During the Year 2015: Autopsy-Based Study. *Medicolegal Update*, 17(2), pp124-129.

b) Enyew D, RaoPPJ, Shetty PH, Shetty BSK, Rastogi P, Sesan T.(2017). Profile of Sudden Deaths Due to Lung Pathologies. *Medicolegal Update*, 17(2), pp149-155.

c) Esmael S, Rastogi P, Rao PPJ, Shetty PH, Shetty BSK, Kotian MS, Gedion HA.(2017). Profile of Asphyxial Deaths at District Hospital Mangalore – A Retrospective Study. *Journal of Punjab Academy of Forensic Medicine Toxicology*, 17(2), pp50-54.

d) Sesen, Shetty BSK, Rastogi P, Rao PPJ, Shetty H P, Esmail, Kotian M S.(2018). Knowledge, Attitude Vis-À-Vis to Medico Legal Autopsies among the Non-Teaching Staff in a Private Medical College in Mangaluru. *Medico-Legal Update*, 18(1), pp 172-177.

e) Said E, Rastogi P, Rao PPJ, Shetty PH, Shetty BSK, Kotian MS, Gedion AH. (2017). Profile of Asphyxial Deaths at District Hospital Mangalore-A Retrospective Study. *Journal of Punjab Academy of Forensic Medicine & Toxicology*, 17(2), pp50-54.

f) Das S, Mishra A, Patnaik KK, Mohanty SN. (2018) A cross sectional study of female married victims of domestic violence in a tertiary care hospital. *Indian Journal of Forensic Medicine & Toxicology*, 12(1), pp 31 - 35

g) Das S, Mishra A.(2017). A study of pattern of road traffic accidents and detection of alcohol in vitreous humor as an evaluation tool An Autopsy based study. *Indian Journal of Forensic Medicine & Pathology*, 10(4), pp 259 - 263

Details of Faculty Achievement:

Dr. Prateek Rastogi:

- Presented a poster titled “Asphyxial Deaths in Mangalore A Retrospective Post Mortem Study” during Emirates International Forensic Conference & Exhibition, at Dubai International Convention Centre, Dubai from 2nd-4th April 2017.
- Member of NAAC Committee, SMIMS

- Member of MCI Cell, SMIMS
- Member of IEC, SMIMS.
- Member of Maternal Death Review Committee, CRH.
- Member of IPC, SMIMS.
- Member of Institutional Grievance Redressal Committee.
- Member of BOS, Para-clinical, SMIMS
- Examiner, Maharashtra University of Health Sciences, West Bengal University of Health Sciences, Sikkim Manipal University, Kerala University of Health Sciences, Rajiv Gandhi University of Health sciences, Manipal University, Goa University.
- Peer Reviewer of 37 National and International Journal of Repute in Medical field.
- Member of Editorial & advisory board of 14 journals and 3 books in Medical Field.
- Contributed chapters to six forensic medicine text books.
- Life Member of 12 Medical Professional Associations
- Attended North East Summit’ 2017 at Chintan Bhawan, Gangtok in Sept 2017.
- Attended Revised Basic Course MET workshop at SMIMS, March 2018

Dr. Ashim Mishra:

- Member, Sikkim Medical council.
- Member of Ethics committee, Sikkim Medical Council
- Member, NAAC Core committee, SMU
- Member, Medical education unit, SMIMS.
- Coordinator, IQAC, SMIMS
- Member, Prevention of Sexual Harassment at workplace Committee, SMU
- Member of NAAC steering committee, SMIMS.
- Member of steering committee of UNESCO Bioethics, Sikkim unit (Haifa)
- Resource person for CNE, SMU
- Organizing Secretary, IPR and Patent workshop, SMIMS.

- Reviewer Journal of Indian Society of Toxicology.
- Completed Advanced certificate in Death Certification by CGHR in Collaboration with University of Toronto and ICMR, April' 2017.
- Attended Research methodology and use of R software workshop organized by SMCPT at SMIMS, Gangtok, April' 2017
- Undergoing SMILE Leadership program by Manipal University.
- Resource Person in Revised Basic Course MET workshop, March'2018.
- Teacher in Charge of Intercollegiate Student fest: Eclipse'2017
- Cultural Vice chairman, SMIMS.
- Attended North East Summit' 2017 at Chintan Bhawan, Gangtok.

Dr. Karma Mingur Diki Bhutia

- Single point of Contact for NAAC, Dept. of FMT, SMIMS
- Member, Departmental Grievance Committee
- Attended Revised Basic Course MET workshop at SMIMS, March' 2018
- Teacher Guardian
- Attended North East Summit'2017 at Chintan Bhawan, Gangtok

Dr. Chedup Lepcha

Attended North East Summit'2017 at Chintan Bhawan, Gangtok

Ongoing Research Project Details:

- ICMR, STS project, Title Study of Knowledge and attitude on Organ donation among medical students in Sikkim. by Miss Renuka Dhaka (MBBS students, 2016 batch under guidance of Dr. Prateek Rastogi.
- Concept Proposal for pilot project on software development for customised Trauma Registry with analysis of data in Central Referral Hospital, Gangtok (Dr.A. Mishra-Co-investigator), Under TM Pai and Vasnathi Pai endowment Fund:2017 at SMIMS, Gangtok.
- A Study of Professionalism Among Medical College Students. ICMRSTS Grant (Dr A Mishra- Co-guide), 2017 at SMIMS, Gangtok by Aishwarya Mishra.

Student Activities:

- Students of IInd MBBS regularly participate in Post Mortem encompassing the dissection of dead body and also take part in

various aspects of handling medico-legal cases and medicolegal report writing.

- They also take part in Seminars on 4th Saturday in ML Cases and attend ML Cases in Casualty (Emergency Ward).
- The students are also posted for rotatory internship after completion of Final MBBS Examination.

New Initiatives:

- Plan to start integrated teaching in collaboration with the clinical departments of CRH for the benefit of interns as well as the students.
- Proposed to attend the medicolegal post mortem of death in CRH by the post graduates of concerned department.
- Proposed for compulsory posting of Interns in FMT department at least for one month to make them familiar with Medico-legal cases.
- Plan to start MD course in forensic medicine.
- Plan to start Poison Information Centre under FMT dept.
- Plan to organize RFSL visit for undergraduate students

for personal and social transformation. This workshop was held to augment skills for empathy and communication in doctor-patient relationship.

SIKKIM MANIPAL UNIVERSITY MEDICAL JOURNAL

SMU Medical Journal is biennial peer reviewed ejournal* published under the aegis of Sikkim Manipal University. Prime focus of the Journal is to publish articles related to research in Medical Sciences in Medical , Experimental. and Allied branches (Nursing , Physiotherapy and Biotechnology). A fair number of academics and health care workers undertake small research projects to understand some problems that are confined to the field area they work, but they find it difficult to convince the world at large the significance they feel about it. This Journal provides the platform with aim of helping students, academics and researchers in the field of bio-medical science to project their findings even though they may be feasibility studies, may be limited due to lack of appropriate sample size or lack of sophisticated instrumentation, show negative results or P values are not significant**. This journal publishes original research work (authentication of the data provided may be asked for). All manuscripts are subjected to a review process initially by an assigned reviewer then the editorial board.

* a print version may be started at a later date

** Daniel Benjamin “all research should be published, regardless of P value” Nature 3rd August 2017, Vol 548 Issue7665 page 17

The Journal invites

- Review Articles
- Research related to laboratory based experimental work, clinical survey, development of methodology in clinical services, epidemiological work, hospital based surveys, case series and their summary findings, educational research in medical sciences, nursing, physiotherapy, medical biotechnology, medical laboratory technology and engineering applications in medical science.
- Appropriate articles related to application of disciplines of humanities in biomedical research may also be published subject to the discretion of the editorial board. e.g. health economics.
- Short communications from undergraduate students and postgraduate students
- Scientific Memoirs and Meta-Analysis
- Results of applications of new protocols in bio-medical sciences

It is published from the office of Associate Dean (Research) , SMIMS, Sikkim Manipal University, Gangtok Pin: 737102
email : medicaljournal@smu.edu.in
Ph No +91 3592 270294 – Ext 205 (3pm – 5pm IST)

Editorial Board

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- Professor Bidita Khandelwal , M.D Associate Dean (Research) ,Head of Department , Medicine , SMIMS

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- Dr Nikita Joshi Sonowal , Professor and Principal , Sikkim Manipal College of Physiotherapy ,SMIMS
- Dr Prasanta Mitra , Head of Department , Department of Biotechnology , Sikkim Manipal University



SMU / SMIMS CENTRAL LIBRARY

The Library Annual Report is prepared to summarize the activities and services given by the Library staff completed throughout the academic year. It contains statistical data about our physical materials, electronic resources, programs and services. We use the Annual Report to evaluate the adequacy of our Library resources and services in meeting student needs.

Central Library manages knowledge, both in print and digital formats, ensures seamless discovery and access to these scholarly resources and provides faculty, students, and staff with professional support to find, evaluate, manage, and use such resources. It provides high quality ambiance for both reflective and collaborative work and study. Its collection of about 16,291 books were used by more than 1360 Active members out of 4176 registered members and other visitor who made 39,600 visits to the library during the year.

1.1 Establishment of the Library

Central Library of SMIMS, was established on October 1999.

1.2 Aims and Objective of the Library

1. To provide a supportive and stimulating environment for students and staff

2. To encourage all students to reach their full potential as independent learners and develop a positive attitude to life long learning.

3. To provide the opportunities for the students to develop the knowledge and skills necessary to access library resources.

4. To develop an awareness in students of the importance of books and other resources as a means of recording and sharing human achievements failure and aspirations.

5. To contribute to the development of positive personal attributes within each students.

Collection	Added During 2017-18	Total as on 31 March 2018
Books	549	16291
E-book (online)	14	105
Journals	140	140
e- Journals	05	91
CD/DVD	38	1077
Thesis	09	56
Medical Dissertation	41	307
News Papers	00	05

Digital Library

Central Library has its own homepage on intranet (<http://smuerp/smimslib/index.html>) and provides web-based access to its resources like books and journals. It procures over 91 e-journals and 105e-books in its databases.

3.1 EPAC The EPAC (**Electronic Public Access Catalogue**) is one of the mostly used databases or information resource of the library and is accessible 24x7 via library web page. Besides listing all the documents available in the library.

3.2 Searching Process: The status of reading materials of library is search through EPAC which is searchable by author, title, subject and several keywords, which indicate the status or availability of the particular reading materials in the library which shown in below format.

Library Services

4.1 Reference, Consultation & Circulation

Reference service helps users to make full use of library resources and services. It provides necessary assistance to users in locating information or document of their choice. The Library had given on loan 10758 books and other documents to its members during the current year. 39,600 users including students, medical professional faculty members staff and other visitors from academic institutions used the library. It is open from 09.00 AM to 09.00 PM (Monday – Sunday)

4.2 Internet Facilities

For internet serving library provided broadband as well as 24x7 WiFi facilities for users.

4.3 Printing, Scanning and Photocopy Service Library provided 2226 printouts to individuals on payment to users and 5,228 prints to faculty & officials, free of charge. It provided 9,981 pages of photocopies to individuals on payment. The library also supplied 20,660 pages of photocopies to the institute, faculty on free of charge. It also provided scanning facilities for free of cost to users and other.

4.4 Information Alert Services

The library continues to alert the users about the latest information of their interest by:

- Additions, new arrivals
- News items display
- Useful articles Display
- Faculty publications display

Display of Scholarship and fellowship information

Display of Forthcoming conferences, other national and international events, employment etc.

Opportunities and prospectus of foreign universities.

Library also staled a suggestion box for user's feedback for further improvement of library services.

LIBRARY STAFF			
Sl No.	Name	Designation	Qualification
1	Dr. Rajnish Trivedi	Librarian	M.A.(Psychology) M.Lib.Isc Phd (Library & Information Science)
2	Mis.Lhaphutti Sherpa	Documentalist	M.Lib.Isc
3	Mrs.Geeta Sharma	Asst. Librarian	B.A, B.Lib. Isc
4	Mr.Kashinath lamichaney	Asst. Librarian	BSc,B.Lib.Isc
5	Mr. Khem lal Dulal	Asst. Librarian	BA,B.Lib.Isc
6.	Mrs. Champa Adhikari	Asst. Librarian	BA,M.Lib.Isc
7	Mrs. Tika Bhattarai	Asst. Librarian	MA,M.Lib.Isc
8	Mr. Sonam Rapgay Bhuti	Library Attenden	Intermediated
9	Mr. Amber Chettri	Library Attenden	Metric
10	Mrs. Harimaya Gurung	Safaikarmachary	Under metric

Dr. Rajnish Trivedi, Librarian

The library has a team of talented and dedicated officers and staff who perform their duties exceptionally well, and are always appreciated by our users for their intelligence, enthusiasm and honesty with which they serve them.

Workshops Attended

Librarian Dr. Rajnish Trivedi attended three days National workshop on Open Source Software (Koha & Dspace) Adoption and Implementations organised by Teesta-Indus Central Library, Sikkim University, Gangtok, Sikkim. INFLIBNET Centre, Gandhinagar, Gujarat from 8th -10th March 2018.

CORPORATE TIE UPS	
Total New OPD Patients	74,824
Total Repeat OPD Patients	1,79,449
Total IPD Patients	19,219
Total No. of Major Surgeries	2,819
Total No. of Minor Surgeries	10,221
Total No. of Normal Deliveries	920
Total No. of Caesarian Section	973
Total No of Health Camps organized	1292
Total No of Blood Donation Camps Organized	14

INSURANCE AND TPA TIE-UPS	
<ul style="list-style-type: none"> • ICICI Lombard • Future Generali • M D India Healthcare services (TPA) Pvt. Ltd. • Medicare TPA services Pvt. Ltd • HDFC ERGO • Bajaj Allianz general Insurance ltd. • Paramount Health care services • Apollo Munich • Med-Assist 	<ul style="list-style-type: none"> • Med- Save • Star Health and Allied Insurance • Religare Health Insurance Company Limited • Family Health Plan • Dedicated Health Services • Good Health Plan • E-Meditech • RakshaTPA • Vidal Health TPA Pvt. Ltd



CHIEF ENGINEERING OFFICE OF SMU/SMIMS/CRH AT TADONG, SIKKIM

Team Member of Engineering Department

Col. Umakant Singh (Retd.) Head General Services, SMU

1. Sanjay Kumar Gupta, Sr. Manager, Infra and Facilities,
2. Rajesh Prasad, Assistant Engineer,
3. Biswadeep Pradhan, Assistant Engineer,
4. Bikky Pradhan, Jr. Engineer, Civil
5. Prayash Rai, Jr. Engineer, Electrical
6. Balam Singh, Sr. Site Supervisor.
7. Usha Das, Jr. Assistant,
8. Damber Chhetri, Store Keeper-I
9. Naveen Tamang, Store Helper,
10. Geeta Devi Chettri, Sr. GDW



Engineering Team

Engineering Department Achievement's for Financial Year 2017-18

This Financial year major renovation works at CRH is done to meet the requirement of Medical Council of India



Passage towards ICU

1. Renovation of general wards at level VII and VI at CRH as per MCI requirement.
2. Creation of addition Beds 70 Numbers at level VIII, Level VII and V.
3. Shifting of Nursing Class rooms from Level V to Level II at CRH.
4. Creation of Mammography room at level III in Radiology Department.
5. Renovation and functional of Emergency OT at Level III, OBG OT at Level VI and Minor OT at level IV.



OT Inauguration

6. Shifting of labour room in OBG wards.
7. Main OT Complex at level VI.
8. Renovation of OBG OPD at level IV at CRH.
9. Shifting of Central Stores from level II to level I.
10. Creation and Shifting of Examination Division with required strong rooms and CCTV Surveillance.



Post Operative & Pre Operative



OT Inside



Inauguration of Exam Cell





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