



SMU SIKKIM
MANIPAL
UNIVERSITY

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

ANNUAL REPORT 2018-19



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, VSM (Retd.)

Vice Chancellor

Sikkim Manipal University

Annual report of Sikkim Manipal University for the period
01-04-2018 to 01-05-2019

(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 2018-19. Being the Chancellor of this prestigious institution, it is a matter of great joy for me to acknowledge and appreciate the progress and growth that SMU has recorded in the last two decades of its existence.

It is a matter of immense satisfaction that the Sikkim Manipal University has today established itself as an institution of excellence when it comes to the subject of medical and technical education in particular and higher learning in general in the entire North Eastern region. This success is the result of years of hard work, perseverance and dedication of dedicated group of academicians lead by efficient and visionary leadership.

All along our memorable development journey over the years, we must acknowledge the role of people of Sikkim whose unconditional support and goodwill has remained the key ingredient in all our accomplishments. We firmly stand with our commitment towards our goal and conviction to enrich and empower the human resource of our country, ensuring quality health services to the people of Sikkim at the same time.

My best wishes to the faculty members, staff and the students for success in all their collective endeavours towards excellence.

Shri Ganga Prasad
Hon'ble Governor of Sikkim
Raj Bhavan, Gangtok



MESSAGE



The economic and social dimensions of any country is, to a large extent, dependent on the state of education of its population. Industry can grow and flourish only if the relevant skills are locally available. In this context, Sikkim Manipal University's (SMU) pioneering efforts, over the last two decades, in building the skill pools of doctors, engineers, management and IT professionals in the State of Sikkim as well as in the North Eastern States of our country has contributed enormously in the economic and social development and progress of these regions. SMU has also 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 2018-19 of SMU highlights initiatives undertaken, milestones reached, achievements celebrated and the growth and progress in the University during the past year and, particularly, among 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 greater levels of achievements in the years to come.

Shri Rajen Padukone
Pro-Chancellor
Sikkim Manipal University



MESSAGE



The Sikkim Manipal University (SMU) established in the State of Sikkim has contributed immensely and provided given rapid opportunities for higher education.

I come to know that Sikkim Manipal University is bringing out its Annual Report for the year 2018-19 on all the events and activities of the University.

My best wishes and congratulation for the entire team of Sikkim Manipal University for their endeavour in delivering quality services not only to our State but also to the entire nation.

(Dr. M.K. Sharma)

Minister

Health Care, Human Services and Family Welfare,
Social Justice, Empowerment & Welfare Department,
Government of Sikkim



MESSAGE



The role of Higher Technical Education is inevitably increasing, particularly when knowledge based industries are now required to play a vital part in propelling the pace of socio – economic development of the nation. The system of Higher Education, therefore, must be geared to equip students with adequate skill and knowledge to enable their greater and meaningful contribution in the development process. The universities are primarily the hub of such brain trusts where their knowledge is harnessed and their skill honed to create a cutting-edge manpower the nation needs for meeting future development challenges.

In this context, the role of Sikkim Manipal University in imparting quality technical education in this tiny Himalayan State of Sikkim no less comparable to any major technical institutions in the country. A superb infrastructure and a competitive academic milieu has been the hall mark of Sikkim Manipal University that has seen scores of cable and competent technical manpower making their grade and finding, placement in various major industries in the country.

On the occasion of Sikkim Manipal University bringing out its Annual Report 2018-19, I wish to place on record the appreciation of the state government for the contribution that Sikkim Manipal University has been making in the field of quality higher technical education and human resource development.

I wish the university all the very best in its future endeavours.

Shri Kunga Nima Lepcha
Minister of Education
Government of Sikkim



MESSAGE



It gives me immense pleasure to present Sikkim Manipal University's Annual Report 2018-19.

This University was set-up with the prime objective of providing the much-needed high quality of Higher educational opportunities and healthcare services to Sikkim and the entire north-eastern region.

Today, I can proudly say that Sikkim Manipal University has proved beyond doubt that this objective has been greatly achieved and proved that it has the capacity, knowledge, and research necessary to help achieve the goals of socio-economic development of Sikkim and the nation as a whole. The University has grown from strength to strength since its inception and has occupied an enviable position in higher education space both within and outside the country. Sikkim Manipal University is regarded as the gateway of learning and is a household name in the North East. The University can boast of excellent faculty, staff and vibrant campuses with students belonging to all parts of the country. We believe in continuous improvements and imbibe such qualities amongst our students that they become thorough professionals, innovative and useful members of the society when they graduate from the university.

This annual report is a comprehensive compilation of all the events and activities for the past year. I congratulate the constituent units and all those who are responsible for highlighting the achievements of the University in the Annual Report 2018-19. I am sure this Report will be useful and informative to all.

Lt. Gen (Dr) MD Venkatesh, VSM (Retd.)
Vice Chancellor
Sikkim Manipal University



MESSAGE



It's my honour and privilege to present our Annual Report 2018-19 which is the reflection of achievements that Sikkim Manipal University (SMU) has made during the last one year.

SMU, in its successful existence of more than two decades, has carved its own niche in the field of education and health care sector at the national arena. The University provides a friendly and inviting atmosphere where students feel comfortable in sharing their thoughts, opinions and questions with their faculty as well as among themselves. All programme are designed to equip students with the knowledge and skill-set necessary to respond to the full diversity of global needs.

Year on year, SMU and its constituent units have been ranked high by the National Ranking Agencies. The University could achieve the milestone set with its strong source of support of its faculty members, students and well-wishers.

Further, the University has declared the year 2019-2020 as "SMU Year of Research". With the enthusiasm and positive energy among its fraternity, the University has set its journey into world-class research that could address societal problems in a substantial way.

Marching ahead, the University is confident that we will achieve further heights with our belief in working 'smart' and empowering everyone to ideate, create and innovate.

Prof (Dr) KS Sherpa
Registrar
Sikkim Manipal University

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)
- Directorate of Distance Education (SMUDDE)
- Department of Humanities & Social Sciences (H&SS)
- Department of Medical Biotechnology

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 Dec, 2009 and received the assent of The Governor of Sikkim on the 22nd of 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.

SMU is headed by the Honourable Governor of Sikkim as the Chancellor. The Governing Body of the University have the Head of the Department of Education and the Department of Family Welfare & Health Care Services, Government of Sikkim as the representatives.

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 milestones. 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 2018-19.

SMU RANKINGS 2018-19

INDIA TODAY MDRA BEST COLLEGES RANKING 2019

SMU : 11th Best Technical University in India
11th Best Medical University in India

Outlook-ICARE India University Rankings 2019 Top 50 Private State Universities

SMU : Rank 16

SMIT RANKINGS 2018-19

THEWEEKHANSA RANKING SURVEY 2019

SMIT: 10th Top Engineering Colleges in the East Zone

INDIA TODAY MDRA BEST COLLEGES RANKING 2019

3rd Top 25 Emerging Private Colleges of the Century
16th Top Private Engineering Colleges Of India

As per the CSR-GHRDC, SMIT is the Top engineering college in the state of Sikkim and 6th in India amongst the top engineering colleges of super excellence.

SMIMS RANKINGS 2018-19

THE WEEK HANSA RANKING SURVEY 2019

34th Top 40 Best Medical Colleges

INDIA TODAY MDRA BEST COLLEGES RANKING 2019

11th Top 13 India's Best Government Medical Universities

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. Tonse Madhav Ananth Pai, 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

- B.Tech Civil Engineering (CE)**
- B.Tech Computer Science Engineering (CSE)**
- B.Tech Electrical and Electronics Engineering (EEE)**
- B.Tech Electronics and Communication Engineering (ECE)**
- B.Tech Information Technology (IT)**
- B.Tech Mechanical Engineering (ME)**
- Bachelor of Computer Application (CA)**
- BBA - Bachelor of Business Administration**
- BSc. in Information Technology**
- Lateral B.Tech (CE, CSE, ECE, EEE, IT, ME)**

POST GRADUATE

- M.Tech in Computer Science & Engineering**
- M.Tech in Digital Electronics & Communication Engineering**
- M.Tech in Information Technology**
- M.Tech in Power Electronics**
- M.Tech in Production Engineering**
- M.Tech in Structural Engineering**
- Master of Computer Application**
- MBA - Master of Business Administration**
- 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 was running as Central Referral Hospital since 1997. The first batch of MBBS students were enrolled in the year 2001.

With a team of dedicated and experienced faculty, SMIMS today is one of the most sought-after medical colleges in the region.

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
- MD (Biochemistry)
- MD (Community Medicine)
- MD (General Medicine)
- MD (Microbiology)
- MD (Pediatrics)
- MD (Pharmacology)
- MD (Physiology)
- MD (Psychiatry)
- MS (ENT)
- MS (Obstetrics & Gynecology)
- MSc Medical – Biotechnology
- BSc 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. 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.

PROGRAMME OFFERED:

1. Bachelor of Science in Nursing
2. Master of Science in 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.

SMCPT is duly accredited by the Indian Association of Physiotherapists for both BPT and MPT programmes. The current intake capacity for BPT is 40 and for MPT is 12. Master's programme is offered in four disciplines. The institute has also started PhD programme in Physiotherapy.

PROGRAMME OFFERED

POST-GRADUATE PROGRAMME:

Master of Physiotherapy (MPT)

UNDERGRADUATE PROGRAMME

Bachelor of Physiotherapy (BPT)

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. (English, and Sociology), B.Com, M.Com and MHA 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 OFFERED:

- Master of Business Administration (MBA)
- Bachelor of Business Administration (BBA)
- Master of Computer Application (MCA)
- Bachelor of Computer Application (BCA)
- Master of Science in Information Technology (M.Sc.IT)
- Bachelor of Science in Information Technology (B.Sc.IT)
- Bachelor of Arts (BA)
-

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. Gautam Dey, 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

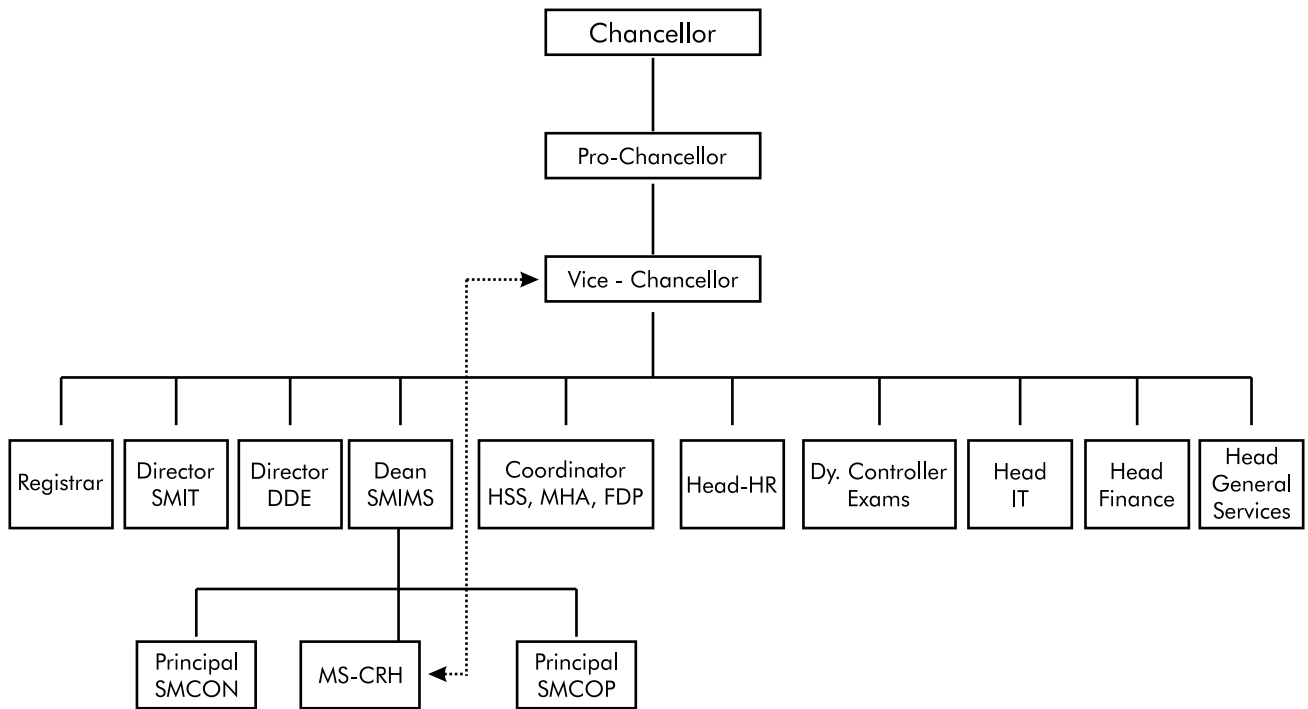
FINANCE COMMITTEE MEMBERS

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.) Ashis Sharma, 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

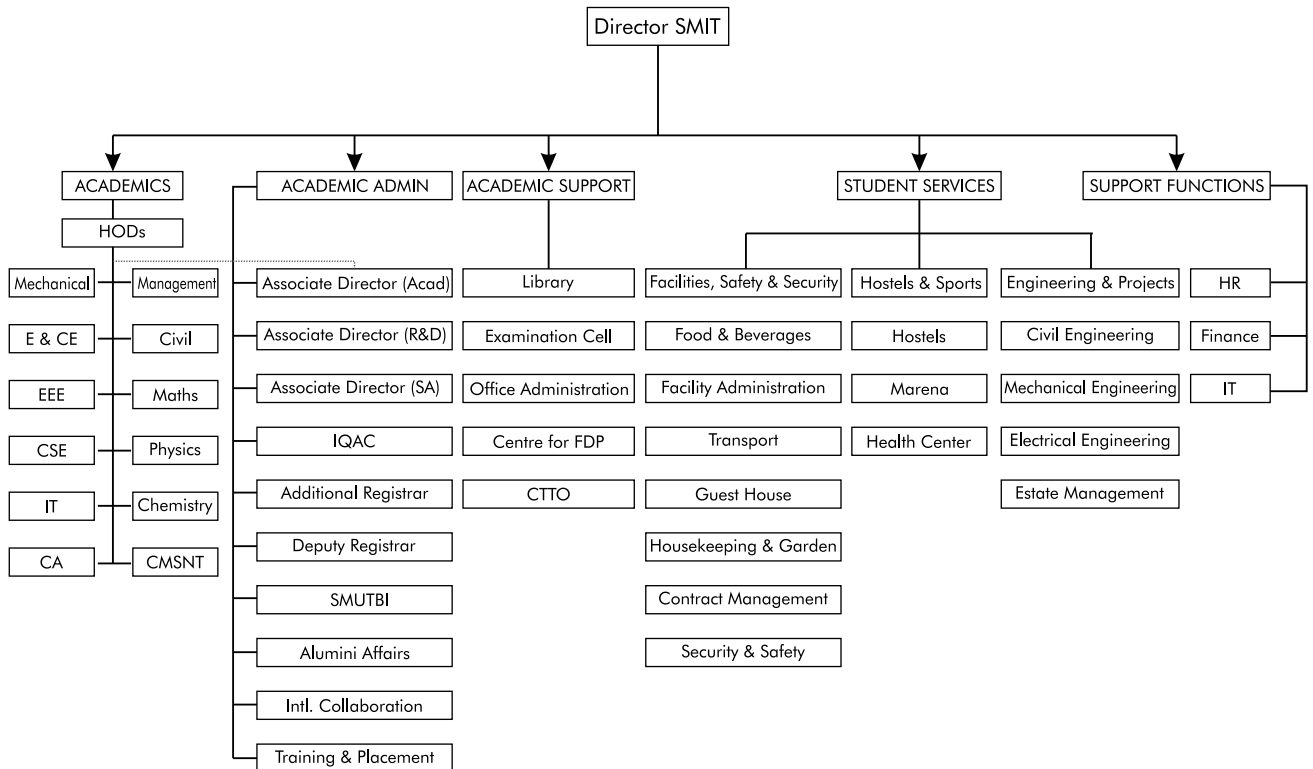
MEMBERS OF ACADEMIC SENATE MEETING

1. Lt Gen (Dr) M.D Venkatesh, Vice Chancellor, SMU
2. Prof Mahesh Chandra Govil, Director, NIT, Sikkim
3. Prof (Dr) Vinod V Thomas, Registrar Evaluation MAHE
4. Dr. Mihir Kumar Bhattacharya, Emeritus Professor, Kolkata
5. Prof (Dr) K S Sherpa, Registrar, SMU
6. Prof (Dr) V K Mehta, Dean, SMIMS
7. Prof (Dr) Ashis Sharma, Director, SMIT
8. Prof (Dr) Manoj Kumar Nagasampige, Director, IQAC, SMU
9. Prof Mridula Das, Principal, SMCON
10. Prof Nikita Joshi, Principal, SMCPT
11. Dr G Mallikarjuna, Director (i/c), SMUDDE
12. Prof (Dr) B B Pradhan, Associate Director (A), SMIT
13. Prof (Dr) Sanjiba Dutta, Associate Dean (A), SMIMS
14. Prof (Dr) Kalpana Sharma, Head, Dept. of CSE, SMIT
15. Prof (Dr) Sudip Dutta, Head, Dept. of Paediatrics, SMIMS

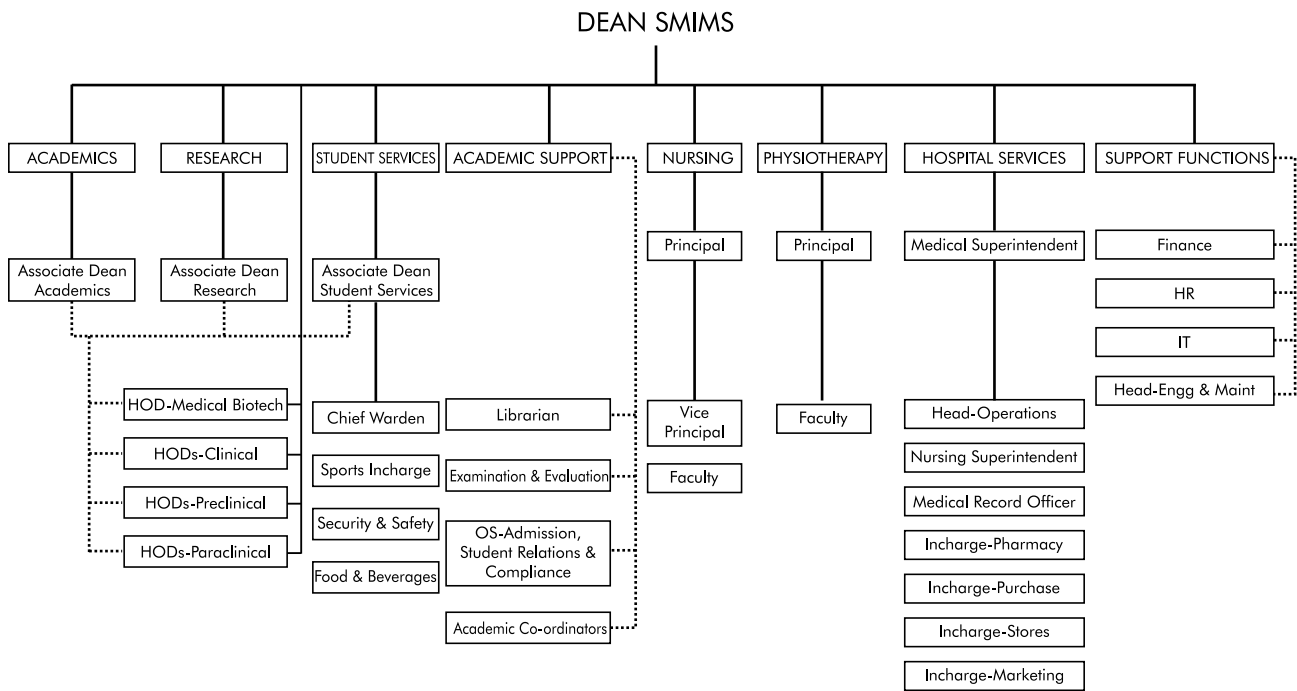
ORGANIZATIONAL STRUCTURE OF SIKKIM MANIPAL UNIVERSITY



ORGANIZATIONAL STRUCTURE OF SIKKIM MANIPAL INSTITUTE OF TECHNOLOGY



ORGANIZATIONAL STRUCTURE OF SIKKIM MANIPAL INSTITUTE OF MEDICAL SCIENCE



PhD Programme

The following research scholars of the University had successfully defended their theses & awarded with PhD degree during the forthcoming 19th Convocation of SMU.

- (A) **Ms Deepanjana Dass**, External /Part Time, Reg No. 201210004, Department of Pharmacology, SMIMS,
Supervisors : Dr Bidita Khandelwal, Professor & Head, Dept of Medicine, SMIMS
Dr Amit Chakrabarti, Scientist "E" (Deputy Director - Medical), ROHC, Eastern, NIOH, ICMR, Kolkata, West Bengal
Topic : "Prevalence and Predictors of Analgesic Misuse: A Controlled, Cross-Sectional Study among Urban Young Adults of East Sikkim, North East India"
- (B) **Ms Rinchen Doma Bhutia**, Internal/ Part Time, Reg No: 201210002, Department of Biochemistry, SMIMS
Supervisors : Dr T A Singh, Professor & Head, Department of Biochemistry, SMIMS
: Dr Bidita Khandelwal, Professor & Head, Department of Medicine, SMIMS
: Dr ML Sherpa, Professor, Dept. of Biochemistry, SMIMS
Topic : "A study of blood oxidation products of DNA, Lipid and Protein in and among individuals progressing towards metabolic syndrome"
- (C) **Ms Anju Bala**, External /Part Time, Reg No. 201310008, Department of Anatomy, SMIMS
Supervisors : Dr Binod Kr Tamang, Professor & Head, Department of Anatomy, SMIMS
: Dr P C Sarmah, Ex-Prof. & Head, Dept. of FMT, SMIMS
: Dr Bidita Khandelwal, Professor & Head, Department of Medicine SMIMS
Topic : "A Study of Palmar and Digital Dermatoglyphics Patterns of Patients with Diabetes Mellitus with or without Hypertension in a Tertiary care hospital in Sikkim"
- (D) **Mr Avijit Sarkar**, Internal / Part Time, Reg No: 201210010, Department of Management Studies SMIT
Supervisor : Dr Ajeya Jha, Professor, Department of Management Studies, SMIT
: Dr Diganta Mukherjee, Associate Prof, ISI, Kolkata, WB
Topic : "Impact of Premium Multi-Axle Vehicles of Indian Transport Industry"
- (E) **Mr Bibeth Sharma**, Internal/Part Time, Reg No. 200910016, Department of Management Studies, SMIT
Supervisor : Dr Ajeya Jha, Professor Department of Management Studies, SMIT
Topic : "Marketing Strategies for Cymbidium Orchid and their value added Products in Sikkim Himalayas: Status, Vision and Challenges".
- (F) **Mr Nirmal Kumar**, External/ Part Time, Reg No. 201310005, Department of Management Studies, SMIT
Supervisor : Dr Ajeya Jha, Professor Department of Management Studies, SMIT
Topic : "Development of a Model for Integration of Good Manufacturing Practices and Good Distribution Practices in Indian Pharmaceutical Industry"
- (G) **Mr Akash Kr Bhoi**, Internal/Part Time, Reg No: 2001510001 Dept. of EEE, SMIT
Supervisors : Prof (Dr) K. S. Sherpa, Registrar, SMU
: Dr Bidita Khandelwal, Professor & Head, Department of Medicine SMIMS
Topic : "Characterization of QT- Complex for Detection of Ischemic Heart Disease (IHD) and Ventricular Tachyarrhythmia (VT) Using Electrocardiogram."

DEPARTMENT OF FINANCE



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

The University Finance Department is led by Deputy Manager Mr. Chandra Rai with a team of six 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' is lead 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 Assistant Manager, 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 Assistant Manager, Mr. Binod Hingmang. The total staff strength of this office is two.

- 4) SMU - Directorate of Distance Education, headed by Deputy Manager, Mr. Radhakrishna Samaga. The total staff strength of this office is six.

FINANCIAL PERFORMANCE FOR THE PERIOD 01/04/2018 TO 31/03/2019

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 the year ending on 31st March, 2019.

BALANCE SHEET

(Rupees in Lakhs)

PARTICULARS	UNAUDITED 31st MARCH, 2019
<u>SOURCES OF FUNDS</u>	
RESERVE & SURPLUS	8,207.04
LOAN FUNDS	3,502.24
OTHER FUNDS	500.05
TOTAL FUNDS EMPLOYED	12,209.33
<u>APPLICATION OF FUNDS</u>	
FIXED ASSETS (GROSS BLOCK)	56,080.45
LESS: DEPRECIATION	34,379.14
FIXED ASSETS (NET BLOCK)	21,701.31
CAPITAL WORK IN PROGRESS & ADVANCES	151.63
SHORT TERM INVESTMENT	5,713.81
CURRENT ASSETS, LOANS AND ADVANCES	4,647.70
LESS: CURRENT LIABILITIES & PROVISIONS	20,005.12
TOTAL APPLICATION OF FUND	12,209.33

INCOME & EXPENDITURE

(Rupees in Lakhs)

PARTICULARS	UNAUDITED 31st MARCH, 2019
TOTAL OPERATING RECEIPTS	19,789.91
TOTAL OPERATING EXPENSES	16,577.73
SURPLUS / (DEFICIT) BEFORE FINANCE COST AND DEPRECIATION	3,212.18
FINANCE COST	347.34
DEPRECIATION	2,133.40
NET SURPLUS / (DEFICIT)	731.44

HUMAN RESOURCES DEPARTMENT, SMU



The Human Resources function is spearheaded by Head-HR, M.S. Sridhar covering SMU and all its constituent units. The HR department has been divided into 3 areas of operations viz. Business HR, Shared Services and Centre of Excellence. Every major units like SMIMS, CRH and SMIT has separate Business-HRs supported by HR Spocs attached to Shared Services. The role of Business-HRs is to help the Heads of the Institutions on various HR aspects related to respective units. The Shared Services Team and the Centre of Excellence Team extend services like Talent Acquisition, Training & Development, Performance Management System, Compensation & Benefits, Employee Engagement, Time Office Management cutting across all units. All the 3 areas of operations run like a well-oiled machine. The following heads the major units:

- 1] Sonam Bhutia - Senior Executive, CRH
- 2] Umashankar - Senior Executive, SMIMS
- 3] Amarnath - Senior Executive, SMIT

Mr. Narayan Mohapatra, Ms. Ankita Chettri and Ms. Bhima Chettri drives various strategic initiatives like SMILE Program, Compensation Philosophy, Talent Acquisition Strategies, HR Strategic input and data support for various accreditations and ranking.

The entire Time Office function with respect attendance monitoring, MCI compliance on attendance, salary management, etc. is managed by Ms. Sushma, Mr. Lal Bahadur, Ms. Kessang and Ms. Aruna.

The HR department also has an Employee Engagement Handle run under Team-Sampark with the prime motto of engaging employees with effective communication, recognizing employees with suitable awards, conducting annual sports activities and celebrating important events to ensure the employees are valued and engaged.

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



Team Member of Engineering Department

Col. Uma Kant Singh (Retd.) Head General Services,
SMU

Sanjay Kumar Gupta, Sr. Manager Infra and Facilities.

Rajesh Prasad, Executive Engineer,

Biswadeep Pradhan, Assistant Executive Engineer.

Bikky Pradhan, Jr. Engineer, Civil

Prayash Rai, Jr. Engineer, Electrical

Abhishek Gupta, Jr. Engineer, Civil

Balam Singh, Superintendent Site,

Usha Das, Executive Assistant,

Diwash Gurung, Fire and Security Officer,

Engineering Department Achievement's for Financial Year 2018-2019.

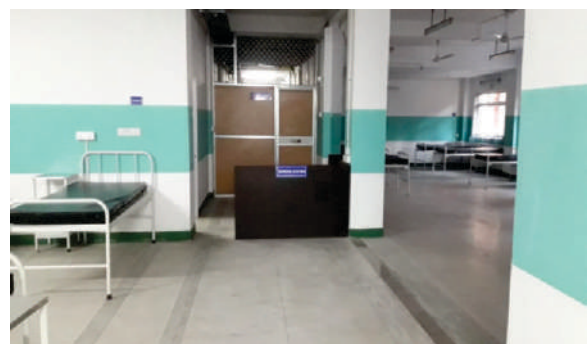
Financial Year 2018-2019 major Infrastructure works at
CRH to full fill requirement of Medical Council of India.

- Additional 30 bedded ward for ENT department
has been created at level -IX
- Additional 60 bedded ward for Orthopaedics and
30 bedded ward for Paediatrics has been created at
level-V.
- Making of additional 10 nursing stations for
general ward.

Other Infrastructure works carried out at CRH

- Creation of new office for Finance and Purchase
Deptt. of CRH at level-V

- Installation of Sludge drying bed for Incinerator.
- Creation/Construction of Exit Ramp (24 m X 2.4 m)
near oxygen plant.
- Renovation of Medicine OPD, Chest & TB OPD at
level -III , SICU at level -VI and General Medicine
(Female ward) at level VII.
- Renovation and modification of pharmacy at
level-VI.



*Creation of 90 bedded Paediatric & Orthopaedic ward
after modifying class room and Physiotherapy dept.
At level - V. CRH Building*



Creation/Construction of 30 bedded ENT ward at level – IX of CRH Building.

Infrastructure work carried out at SMIMS Campus

- a. Creation of one classroom for MBBS students having 120 seating capacity at level –VI of CRH building.
- b. Modification and renovation of Old Cement store to relocate HR Deptt of SMIMS and CRH.
- c. Construction of Toilets for Department of Biotechnology.
- d. Providing cover to staircase connecting Nursing Hostel to Student's Mess with MS Tubular Truss and colour coated corrugated CGI sheet.
- e. Providing cover to staircase near D block of staff housing with MS Tubular Truss and colour coated corrugated CGI sheet.
- f. Modification and Renovation of SMIMS Conference Hall.
- g. Modification and Renovation of Animal House.



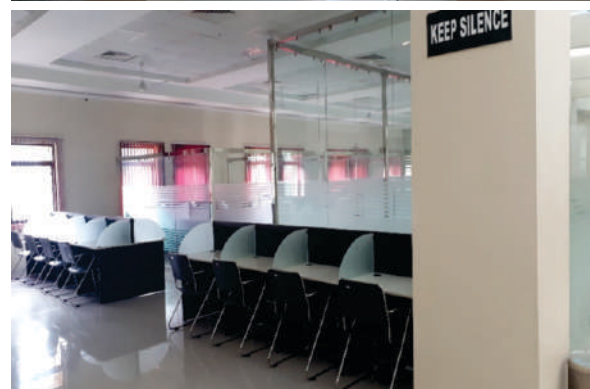
Modification and Renovation of SMIMS Conference Hall.

Infrastructure works carried out at SMIT

- a. Replacement of two lifts (elevators), one for Hostel 1 and the other for Hostel 2, both are with 15 passenger's capacity.
- b. Creation of a new air conditioned central computing facility having 111 computers.
- c. An area of 10000 sq ft has been developed as Atal Incubation Centre.
- d. Renovation and Modification of Training Placement and Industry Liaison.
- e. Construction of a fire hydrant system for entire campus.



Renovation and Modification of Training Placement and Industry Liaison.



A glimpse of Atal Incubation Centre

EXAMINATION DIVISION, SMIMS



1. Introduction

The Examination Division (Medical Campus) of the Sikkim Manipal University is governed by the rules and regulation as laid down in the Examination Manual published by the University on June 2018. It is located within the campus of SMIMS, besides the new college building. The unit is headed by the Controller, Lt. Gen. (Dr) MD Venkatesh followed by Dr. (Prof.) Luna Adhikari (Dy. Controller of Exams (Med.)), Mr. Bibhushan Dhungyal (Assistant Controller of Exams (Med.)). The unit is supported by Ms. Sangeeta Rai (Junior Assistant), Mr. Rana Karmakar (Programmer), Mr. Karma Wangyal Bhutia (Attendant) and Ms. Sabina Chettri (Attendant).

2. Process

Various activities involved in the unit are segregated under the headings of Pre-examination, Conduct of Examination and Post examination as follows :-

Pre-Examination:

- i. Preparation of University examination calendar.
- ii. Preparation of University examination time-tables.
- iii. Preparation of invigilation time-tables.
- iv. Preparation of list of eligible candidates for University examination.

- v. Dissertation submission by Post graduate students.
- vi. Preparation of list of Room Superintendent/ invigilators/ attendants.
- vii. Issue of admit card.
- viii. Issue of appointment letters to examiners.
- ix. Setting of question papers and safe custody of question papers.
- x. Moderation of question papers and safe custody of question papers.
- xi. Typing, proof reading and storing of question papers.
- xii. Selection of question paper by the Controller.
- xiii. Printing and packeting of question papers.

Conduct of Examination

- i. Examination Hall arrangement.
- ii. Sealed packet containing question papers counter signed by the Dean, SMIMS.
- iii. Handing over the sealed packet containing question papers and required materials to the Room Superintendent.
- iv. Opening the sealed packet containing question paper in the examination hall in the presence of two witness.

- v. Briefing of examination rules to the candidates by the Room Superintendent.
- vi. Conduct of examination as per the examination rules of SMU.
- vii. Handing over the answer books, attendance sheets, malpractice report (if required) and remaining stationaries to the Examination Division by the Room Superintendent.

Post Examination

- i. Storing of answer books in the designated strong room.
- ii. Filing up of attendance sheets.
- iii. Filing up of the master copy of the question papers.
- iv. Coding of answer books and valuation slips.
- v. Handing over of the coded answer books, valuation slips and the required materials to the CAP team.
- vi. Evaluation of the answer books by the examiners.
- vii. Scrutinization of the answer books and the valuation slips.
- viii. Handing over of the evaluated answer books with its valuation slips and other relevant documents to the Examination Division by the CAP team.
- ix. Scrutinization of answer books in the Examination Division.
- x. Preparation of mark list.
- xi. Third evaluation of the answer books if required.
- xii. Preparation of final mark list.
- xiii. Preparation of the draft of the result, to be put up to the Controller of Examinations for his reference and approval.
- xiv. Preparation of the final results and submission to the Controller of Examinations for approval.

- xv. Publication of the result.
- xvi. Re-totalling of marks carried out if applied by candidates.
- xvii. Re-evaluation of answer books carried out if applied by the candidates.
- xviii. Issue of Degree Certificate in the upcoming convocation.
- xix. Issue of Provisional Degree Certificate.
- xx. Issue of Pass Certificate.
- xxi. Issue of Migration Certificate.
- xxii. Issue of Marksheet.
- xxiii. Issue of Transcript on demand.
- xxiv. Issue of duplicate certificate.

3. Publication of Manual

The first edition of the University Examination manual was approved by the 52nd Academic Senate on December 21, 2017 and enacted thereafter. The manual lays down the complete examination process and rules and regulation for the conduct of University Examinations.

4. Central Assessment Programme (CAP)

The Scheme of Central Assessment Programme has been introduced by the University with a view to :

- Declaring the results in the shortest possible time,
- Increasing the reliability of the results,
- Maintaining uniformity and consistency in the assessment,
- Increasing accuracy and efficiency in the declaration of results, and
- Creating confidence amongst the students about the assessment system.

6. National Academic Depository (NAD)

The Examination Division (Medical Campus) is registered with NAD which is a National system set up by the Ministry of Human Resources, and all the degree certificates are uploaded to their database system.

7. Conclusion.

The Examination Division (SMU) is engaged throughout the year for the conduct of various

university examinations of various courses of SMU. The unit has been successful in conducting timely and fair examinations as well as publication of the results. Further, with the Examination manual in place, the procedures are well laid out and systematic. The unit now is working towards online publication of the results at the first instance and ultimately towards automation in the near future. The unit is also registered with the National Academic Depository (NAD).



18th CONVOCATION



Sikkim Manipal University (SMU) held its 18th convocation on October 13, 2018 where a total of 1040 students were awarded their graduation degrees.

The Governor of Sikkim and Chancellor, SMU, Shri Ganga Prasad presided over the function.

Dr. NS Rajan, Group CHRO, Group CMO IDFC Bank & CEO - IDFC Foundation, was the chief guest on the occasion.

IPR minister Shri A.K. Ghatani, Chief Secretary, Government of Sikkim, Shri A.K. Shrivastava and HRDD Additional Chief Secretary Shri G.P. Upadhyaya, along with Shri Rajen Padukone, Pro Chancellor, SMU, Lt. Gen M.D. Venkatesh, Vice Chancellor, SMU; Prof Dr. K.S. Sherpa, Registrar, SMU; Air Marshal G.S. Joneja, Dean SMIMS and Prof Dr Ashis Sharma, Director SMIT were also present along with the faculties, non-teaching staffs, graduating students and parents.

In his address, Hon'ble Governor & Chancellor, SMU, Shri Ganga Prasad said that universities have a major role to play in the development of a region, State and the country wherein higher education and economic development go hand in hand. "I am happy that SMU has been contributing towards it here in Sikkim since 1995. SMU is a recognized university in the country. The faculty here has been devoted in preparing the students to tackle their career in a better way as per their choices.

They shape the students in being better human beings as well. There have been shortcomings in recognized education in the North Eastern States regarding state-of-the-art educational facilities. Since 1995 SMU has been working on those developments here in Sikkim," he said.

The Chief Guest Dr. N.S. Rajan, in his address, stated, "I have known Sikkim as multi-cultural and multi ethnic State with hospitality being a key part of the State and its people. Man has a unique ability to learn from his surroundings. Intellect is now a property and knowledge has replaced capital. The students need to reflect on their capabilities on a wider scale from here on where you need to have a profound conversation with yourself as to what you wish to do and what you wish to achieve. Our values, vision and purpose and therewith our actions can reap an outcome but not all outcome shape us. There is a need for chiselling our values as our characters are depicted by our values. Our hunger for knowledge and an open mind will help us advance. You deserve more than you desire".

The Vice Chancellor Lt Gen MD Venkatesh highlighted how SMU has been devoted in empowering Sikkim as well ensuring growth of its students for the last 21 years. He embarked on the initiation of distance education programme in 2006 which has popularized the university across the country. "The University has been constantly upgrading with state of the art facilities for the students as well as for the people of Sikkim. The

gender distribution among the faculties here has the women edging over the men. With 240 teaching staffs, our faculty has published over 1200 papers. There have 4 patents awarded to the students in the last two years. Four start-up companies have begun and 4 more are in incubation. Last year, our student secured a Rs. 22-lakh package from Microsoft. The ratio of graduates here today is 341 in medical and 699 in technical studies. There are 200 doctors here in the Central Referral Hospital and 1500 engineers are contributing to Sikkim. SMU is one of the largest local employers in the State with 1300 locals engaged in services," he said.

The Annual Report of SMU was also released on the occasion. The Vote of Thanks was presented by Prof Dr Ashis Sharma, Registrar, SMU.

A total number of 1122 graduates received their degrees during the Convocation. They include. They include Engineering and Management Graduates are from

Sikkim Manipal Institute of Technology (SMIT), Medical Graduates and Post Graduates from Sikkim Manipal Institute of Medical Science (SMIMS), Nursing Graduates from Sikkim Manipal College of Nursing (SMCON), Physiotherapy graduates and post graduates from Sikkim Manipal College of Physiotherapy (SMCPT), Master of Hospital Administration and Bachelor of Arts and Master of Arts graduates from Department of Humanities & Social Sciences, SMU.

Gold and Silver medal winners were also awarded during the Convocation. Manisha Agarwal was B. Tech overall topper and CSE topper securing gold and silver medals, Arifa Karim was MBA topper, Sherry Sarao was BBA topper, Sanju Tamang was BCA topper, Sailesh Chettri was M.Sc topper, Ritesh Raj Giri was M.Tech topper, Bhawana Sharma was MBBS topper, Sweeta Chettri was B.Sc Nursing topper, Dekyi was M. Com topper and Anjula Shanker was B. Com topper.

SIKKIM MANIPAL INSTITUTE OF TECHNOLOGY



Sikkim Manipal Institute of Technology (SMIT) came into existence in the year 1997 as a constituent college of Sikkim Manipal University (SMU). It is a model of Public Private Partnership (PPP) for which the agreement was signed on 15th November, 1992 between the Government of Sikkim and the Manipal Pai Foundation with the aim of imparting excellent education in the state of Sikkim and beyond boundaries.

The courses offered by SMIT are approved by All India Council for Technical Education (AICTE). In addition, SMIT holds ISO 9001 certification vide NS-EN ISO 9001:2000 for all its courses. It had the distinction of prestigious accreditation for engineering disciplines by National Board of Accreditation (NBA)/ACCR-860/06 dated 22nd January, 2008.

SMIT is situated at Majhitar, near Rangpo, Sikkim, which shares its border with West Bengal. The campus is spread across beautifully landscaped 35 acres of land. 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 a perfect place for gaining wisdom.

Over the years, the institute has been consistently delivering excellence in the field of education and research along with nurturing young minds towards success. Achieving recognitions from several institutions and authorities happen to be a proof of

commitment of SMIT towards ensuring excellence. As per Competition Success Review-GHRDC Ranking 2018, SMIT topped the list in the State of Sikkim, 2nd position amongst the Top Engineering Colleges of Eminence, 16th amongst the Top 25 Engineering Colleges in terms of Faculty, Research, Consultancy, EDP & Other Programmes, 15th amongst the Top 25 Engineering Colleges in terms of Placement, USP, Social Responsibility, Networking & Industry Interface. SMIT is also ranked 80th in Outlook Top 100 Engineering Colleges in 2018.

As per India Today Ranking 2018, SMIT holds 2nd position amongst the Top Private Colleges (East Zone), 12th amongst the Top Private Engineering Colleges (All India), 7th amongst the Top Private Engineering Colleges offering Best Annual Average Salary and 41st position in the Top amongst all Technical Colleges (All India). Further, THE WEEK-Hansa Research Best Colleges Survey 2018, shows SMIT in 70th position in the Top Private Engineering Colleges (All India) and 121st position in the Top Engineering Colleges (All India).

SMIT has grown in leaps and bounds in all spheres of activities, since its inception in 1997. The institute commenced with four B. Tech programmes (CE, CSE, EEE & ECE) with a sanctioned student strength of 270 and currently the institute offers six B. Tech programs (CE, CSE, EEE, ECE, IT & ME). In addition, M. Tech programmes 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 programmes. 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 183 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 centre 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 meticulous and vibrant. At present, SMIT has 6 sponsored projects worth Rs. 174.58 lakhs which are being supported by funding agencies like Department of Atomic Energy (DAE), Board of Research in Nuclear Sciences (BRNS), AICTE, National Institute of Rural Development & Panchyati Raj, DST, ISRO and SMU. SMIT supports Centre of Excellence in "5G Internet of Things (IoT)", "Healthcare Data Analytics" and Nanotechnology. 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. High Super Computing facility "PARAM Shavak" has been installed at SMIT in collaboration with C-DAC, Pune.

The institute has well-established research laboratories to pursue research in the frontier areas. The quality of research is exemplified by 61 publications in reputed journals and 126 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.

National, International Conferences and Workshops are organized by various departments on regular basis. Such events are committed to provide a platform where technical and scientific community may present their original works and share their views and ideas. 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 in Communication, Devices and Networking (ICCDN-2018) hosted by the Department of Electronics and Communication Engineering, during 2nd-3rd June, 2018.
- 6th PSSI - PLASMA SCHOLARS COLLOQUIUM (PSC-2018) organised by the Department of Physics, during 24th - 26th August, 2018.
- International Conference on Synthetic Potent Molecule and Its Applications (ICSPMIA-2018) hosted by Department of Chemistry during 30th - 31st October, 2018.
- 3rd National Conference on Communication, Cloud and Big Data (CCB) 2018 was organized by Department of Information Technology, SMIT during 8th to 9th November, 2018.
- Second International Conference on Advanced Computational and Communication Paradigms (ICACCP-2019) organized by Department of Computer Science and Engineering (CSE) from 25th to 28th February, 2019.
- First International Symposium on Computer Vision and Machine Intelligence in Medical Image Analysis (ISCMM-2019) organised by Department of Computer Application from 26th February to 27th February, 2019.

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. Most 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 the growth of students as Techno-Managers and to become thorough professionals. SMIT has signed a Memorandum of Understanding (MoU) with Tech-Mahindra for Capability Development, upgrading skills of graduate and postgraduate students / associates and faculty members / SMEs at both Tech Mahindra and SMIT. Tech Mahindra provides curriculum assistance for the courses too.

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 2018-19 were Microsoft, Dell, Shell, Infosys, TCS, Wipro, Boston Scientific, IXIA, Just Dial, Wells Fargo, Bosch, Ericsson, Britannia, Emami, Keross, WebSkitters, Bid Ocean, Idemia, Thoughtworks, Think & Learn, Talview, FL Smidth, Mphasis, Genesys, AGS, LTE, Click On Care, Computronics, Halodoc, InnoEye, Parker Hannifin, Go Speedy GO, C-CORE and DXC Technology.

The International Collaboration Cell (ICC) at SMIT recognizes the value of international collaborative research, teaching, exchange, and service. It is actively engaged in collaborating with universities and research institutions worldwide in order to facilitate a variety of intellectual interactions and exchanges. Two such collaborations were initiated by signing of MoUs with College of Electrical Engineering and Computer Science (EECS), National Taipei University of Technology (Taipei Tech), Taiwan on 21st June, 2018 and The University of Padova, Italy on 20th December, 2018. ICC also assists to align international opportunity enabling student mobility across institutions through The International Association for the Exchange of Students for Technical Experience (IAESTE). In 2018, five students got an opportunity to experience the exposure in Egypt and Mauritius. SMIT hosted one foreign student from Federal University of Technology, Owerri, Nigeria through the Student Exchange Programme.

Alumni Engagement Cell, SMIT has been successful in creating an engaged and supportive *alumni* network. The alumni associations are contributing back to their

alma mater. Be it scholarships grants, placements, mentorship, guest lectures or industry interactions, the role played by the alumni is immense. The Cell takes the pride in organizing SMIT Global Alumni Meet – 2018 at Tivoli Garden Resort, Chattarpur, Mehrauli, New Delhi on 16th June, 2018 and SMIT Global Alumni Meet – 2019 at JRC Conventions & Trade Fairs, Hyderabad on 23rd February, 2019.

It is the illustrious and successful alumni of SMIT that motivate present batches by visiting the institute and interacting with them. In this context, Induction Program was organised for B.Tech. first year students by Mr. Satyarup Siddhanda, Alumni of SMIT (Batch 2005) on 16th July, 2018. The cell also organized a workshop on “Introduction to Game Design” by Ms. Vasundhara Agarwal, Alumni of SMIT (Batch 2010) on 20th September, 2018 at SMIT. Alumni Interactive Sessions are held from time to time. The Cell initiated Alumni Talk at SMIT by Mr. Prakash Natarajan (Batch 2017) and Mr. Varun Anand Modi (Batch 2007) on 6th September, 2018 to motivate the current students. Further, Alumni Talk was held on “Digital Payments and Banking – How India is leading digitalization in the Financial Services Industry” by Ms. Priyanka Paul, (Batch 2005) and “Future of Work – Automation of Services, Successful Program Management” by Mr. Harsh Singh (Batch 2002) on 1st February, 2019.

The Cell Organized CONCOURS - 2018 (Science Project Exhibition cum Competition & Quiz) on the occasion of World Science Day (i.e.; 10th November) during 2nd & 3rd November, 2018 at SMIT. The event was co-ordinated by Prof. (Dr.) N. K. Bhattacharyya, Mr. Kushal Pokhrel and Mr. Bibeth Sharma

SMIT has India's most esteemed Atal Incubation Centre (AIC) that incubates and nurtures early-stage entrepreneurial ventures based on Technology and Innovation by providing infrastructure, consultancy, and seed grants to pursue their dreams of starting their own firm. It incubates and nurtures a grass root creativity and innovation towards a viable product. The innovative aptitude of our students motivates them to become entrepreneurs. Under the Atal Innovation Mission of NITI Aayog, AIC-SMUTBI has a grant of 8 crores INR from the Govt. of India. AIC-SMUTBI has a pool of eminent mentors and advisors to bring an impact in the Startup Ecosystem in the entire nation. The two companies that have been successfully incubated at the Institutes Incubation center are Afterglow tech Pvt. Ltd. and Untapped Technologies Pvt. Ltd.

Entrepreneurs Meet, 2018 organized on 7th - 8th April, 2018 was a huge success with the participation of Mr. Ramanan Ramanathan, Mission Director, Atal Innovation Mission, Govt. of India, Dr. Pawan Agrawal, Mumbai Dabbawala, Mr. Parikshit Choudhury, Senior Vice President, Make MyTrip, Goibibo, Redbus and Who's Who from various industries, corporations and investors.

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 2500 sq. m. carpet area. The total seating capacity of Library is 382 users at a time. It has built up a rich collection of all branches of Engineering, Science and Management. The Central library has automated all its routine activities through library software called "EASYLIB" Desktop as well as Web Version and also extended the scope of various services like CD-ROM database search & EPAC.

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, Grocery Shop, Stationery Shop, Binding, Lamination, Xerox Shop, Beauty Parlour / Barber Shop, Pharmacy etc. In

addition, stationery 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. Indoor Swimming Pool, 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 student in case of unforeseen incident 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. Our students regularly participate in various categories in techno-fests organized by leading technological institutes of India and have been receiving awards.

ADDITION IN SMIT INFRASTRUCTURE IN 2018-19

- **Fire Hydrant Work:** The Fire hydrant work in the campus has been completed. Total completion cost amounts to Rs. 2.04 crores.
- **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 initiated 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. However, the work has been postponed for the time being as the approval from various competent authority is awaited.
- **Extension of Drainage System:** The existing drainage system has been extended by approximately 65 meters from the end of food ball ground to the Teesta River.

- **Retaining Wall:** Three river protection / retaining walls in front of the substation have been created to stop the erosion of earth and retain the collapsed earth.
- **Replacement of Lifts (Elevators):** Two lifts (Elevators) have been replaced- one at Hostel No. 1 and another in hostel No. 2 of capacity 15 passengers each.
- **Construction of Water Fountain:** A water fountain has been created in front of the academic block.
- **Infrastructure Facility for SMU Atal Incubation Centre:** Finishing / interior design work on 5th Floor of 'F' Block designated for Atal Incubation Centre is completed. However, the procurement of furniture for the office is yet to be finalized.
- **Renovation of Training & Placement Cell:** The existing CMSNT lab and Plazma lab have been shifted and the space is being renovated for Training & Placement Cell by providing glass partition, false ceiling, vinyl flooring, AC etc. The entire renovation work will be completed shortly.
- **Painting of Administrative Block and Student's Hostel:** The entire corridor of academic building and internal surface of all class room, labs, etc. in Block 'A' & 'E' have been repainted. The students' room in hostel No. 1, 2 and 3 have been upgraded by providing internal painting.
- **Air Conditioned Central Computing Facility for 110 Students:** The existing drawing hall located in second floor of academic building has been renovated and converted into Central Computing Facility Lab (CCF Lab). The lab is fully air conditioned with capacity of 110 students. In addition, CCTV, Projector facilities are provided in the lab.
- **STP Waste Water Recycling Facility:** It has been decided that STP water will be reused in the gardening and the work will be taken up in phase manner. In the first phase, 20,000 litres of RCC water tank has been constructed on the terrace level of college building in Block 'E' and the pumping arrangement including distribution pipe line has also been made for the same.
- **Construction of Gazebo:** Construction of Gazebo beside Academic Block 'A' has been completed.
- **Provision of Accommodation and Allied Facilities for conducting Training of SBI Personnel:** In the month of December 2018, SBI Training was conducted in the campus. Facilities like accommodation and hospitality for 500 participants were arranged by SMIT in the campus with existing infrastructure. In addition, blankets, pillows, pillow covers, bed sheets, buckets, mugs etc. were provided to the trainees.



DEPARTMENT OF CHEMISTRY



Number of Faculty Members:10

Names of Faculty Members:

- Prof. (Dr.) Sanjay Dahal
- Prof. (Dr.) Sangeeta Jha
- Prof. (Dr.) 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 Dhakal
- Mrs. Sushma Chettri

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

Names of Non Teaching Staffs (Non Technical):

- Mrs. Laxmi Pradhan
- Mr. Manoj Kumar Rai
- Mrs. Purna Kumari Subba

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

- International Conference on Synthetic Potent Molecule and Its Application (ICSPMIA - 2018)

organized by Dept. of Chemistry, SMIT in collaboration with Royal Society of Chemistry, East India Section during 30th – 31st October, 2018. (The Conference was sponsored / funded by Science and Engineering Research Board (SERB), DST, Govt. of India and CSIR - ICT Hyderabad, CSIR - CSMCRI, Bhavnagar, Govt. of India).

- Prof. (Dr.) Sanjay Dahal, Prof. (Dr.) Sangeeta Jha, Prof. (Dr.) N. K. Bhattacharyya, Dr. Satadru Jha, Dr. Manoranjan Pandey, Dr. Ramesh Sharma, Dr. Santanu Gupta, Dr. Moazzam Ali, Dr. Soumya Kanti Biswas, Dr. Joydeep Biswas served as Members of Editorial Board of Proceedings of International Conference on Synthetic Potent Molecule and Its Application (ICSPMIA - 2018) organized by Dept. of Chemistry, SMIT During 30th – 31st October, 2018.
- Conducted first ever Alumni Meet of Department of Chemistry “ChemSmriti, A Reunion 2019” on 14th February, 2019.
- Celebration of National Science Day on 28th February, 2019.

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

- Subba, A., Pandey, M., Jha, S., Dolma, K. G., “Heavy metal and Bacteriological analysis in spring water of North Sikkim, with reference to seasonal variation”,

International Journal of Bioscience and Applications, 2018, (DOI:10.22662/IJBSA.2018.1.1.001).

- Dey, N., Kumari, N., Biswakarma, D., Jha, S., Bhattacharya, S., "Colorimetric indicators for specific recognition of Cu²⁺ and Hg²⁺ in physiological media: Effect of variations of signaling unit on optical response", *Inorganica Chimica Acta*, 487, 50-57, 2019.

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

- Dutta, D., Saikia, S., Narzary, B. B, M., Bhattacharyya, N.K. Research paper "Isolation of a bio-active compound from *Pathos scandens* L", presented in the Materials Research Society of India (MRSI) - North East Chapter Conference - 2018 on "The Frontiers in Chemical Biology" held during 26th-28th June, 2018 at CSIR - North East Institute of Science and Technology, Jorhat jointly organized by CSIR - North East Institute of Science and Technology and Assam Science Society, Jorhat Branch, Jorhat, Assam.
- Samanta, D., Basnet, P., Chanu, T. I, Jha, S. Chatterjee, S., "Glycine Capped Solic-State Synthesis of Zno Nanoparticles for Effective Decolouration of a Textile Effluent", **Rhodamine B, International Conference on Synthetic Potent Molecule and Its Application (ICSPMIA - 2018)** organised by Department of Chemistry, SMIT, during 30th - 31st October, 2018.
- Samanta, D., Basnet, P. Chanu, T. I., Jha S., Chatterjee, S., "Hydrothermal Synthesis of Cysteine Stabilized Zns Nanomaterials as Photocatalyst for Effective Removal of Water Pollutants Under Sunlight", **International Conference on Synthetic Potent Molecule and Its Application (ICSPMIA - 2018)** organised by Department of Chemistry, SMIT, during 30th - 31st October, 2018.
- Sarkar, A. and Biswas, S. K. "Inorganic - Organic Hybrid Heterojunction Solar Cell: Perovskite Material as Sensitizer", **International Conference on Synthetic Potent Molecule and Its Application (ICSPMIA - 2018)** organised by Department of Chemistry, SMIT, during 30th - 31st October, 2018.

Faculty Achievement:

Sanjay Dahal:

- SMU PRIDE AWARDS 2018 on 15th November, 2018. 1) Excellence Teaching Award. 2) Certificate of Appreciation.

- Member of Advisory Committee in Science Academy Workshop, October, 2017.
- Appointed as Co-ordinator, IQAC.

Sangeeta Jha:

- Standing Ovation Award under SMU PRIDE AWARDS 2018 on 15th November, 2018.

N. K. Bhattacharyya:

- **Joint-Convener** of the International Conference on "Synthetic Potent Molecule and its Application" (ICSPMIA 2018) (ISBN of Conference Proceedings: 978-93-88467-02-5, Published by 24by7 Publishing, Kolkata) organized by Dept. of Chemistry, SMIT, in collaboration with Royal Society of Chemistry (Eastern India Section) held during 30th - 31st October, 2018 at Sikkim Manipal Institute of Technology, Sikkim.
- **Coordinator** of the SMIT Global Alumni Meet - 2019 held in JRC Conventions & Trade Fairs, Hyderabad on 23rd February, 2019.
- **Coordinator** of the SMIT Global Alumni Meet - 2018 held in Tivoli Garden Resort, Chattarpur, Mehrauli, New Delhi - 110074 on 16th June, 2018.
- **Coordinator of Concours 2018** (Science Project Exhibition - Cum-Competition & Quiz) held at SMIT during 2nd - 3rd November, 2018.
- **Alumni Talk**
Organized Alumni Talk from Alumni Engagement Cell at SMIT on "Digital Payments and Banking - How India is leading digitalization in the financial services industry" and "Future of work - Automation of Services, Successful Program Management", to motivate students of SMIT on 1st February, 2019.
- **Participated in the SMILE Phase 2 programme organized by Manipal Group.**

Satadru Jha:

- **Convener** of International Conference on Synthetic Potent Molecule and Its Application (ICSPMIA - 2018) organised by Department of Chemistry SMIT in collaboration with Royal Society of Chemistry, East India Section during 30th - 31st October, 2018.
- **Participant of ongoing SMILE-3 program of Manipal Group.**

- Organized Guest lecture by Dr.Amitava Das, Director, CSIR-CSMCRI, Bhavnagar, Gujrat.
- Affiliate Member, Royal Society of Chemistry, Cambridge.
- Participated in International Conference RSC-Roadshow at IACS, Kolkata on 26th September, 2018.
- Appointed as Adjudicator of the Scientific Poster Drawing Competition sponsored by RSC, Eastern India Section and BITM, Kolkata.
- Appointed as Warden of Boys Hostel, SMIT.

Manoranjan Pandey:

- Reviewer and Member (Editorial Board) of Journal of Thermal Analysis and Calorimetry.

Ramesh Sharma:

- Completed SMILE Phase 1 program of Manipal Group.
- Website Auditor of SMIT.

Moazzam Ali:

- Invited talk "Amazing Chemical Reactions", Kalimpong Science Centre.
- Advisory Committee of Himalayan Research Journal.

Soumya Kanti Biswas:

- Dr. Soumya Kanti Biswas has received Seed Grant of Dr. Ramdas Pai and Mrs. Vasanti Pai Endowment Fund (2018).

Joydeep Biswas:

- Conducted first ever Alumni Meet of Department

of Chemistry "ChemSmriti, A Reunion 2019" on 14th February, 2019. Dr. Joydeep Biswas served as the Event Coordinator of the Alumni Meet.

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 (November, 2013 - November, 2018) and successfully completed.
- Seed Grant of Dr.RamdasPai and Mrs. VasantiPai Endowment Fund (2018) to Dr. Soumya Kanti Biswas.

Student's Activities/Achievement:

- The following students of M.Sc. Chemistry have received Scholarship from SICPA India Private Ltd, Mamring, South Sikkim.
 - Meghna Khadka
 - Sayan Sharma
- M.Sc. students secured 3rd position in both Essay writing and Quiz competition organised in National Science Day celebration in SMIT 2019.

New Initiatives:

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

Placement Record:

Company/Institute	No. of Students
Cipla Pharma	04
Total	04

DEPARTMENT OF CIVIL ENGINEERING



Number of Faculty Members:16

Names of Faculty Members:

- Dr. Chandrashekhkar Bhuiyan
- Mr. Sajal Sarkar
- Mr. Guru Prasad Sharma
- Ms. Reena Pradhan
- Mr. Axay Thapa
- Mr. Sourav Gupta
- Mr. Supradeep Singh
- Mr. Soumyadip Chowdhury
- Mr. Abhranil Adak
- Mr. Tamal Ghosh
- Mr. Probhakar Chakravorty
- Ms. Uden Kiroung Sherpa
- Mr. Kiran Sriram
- Ms. Upama Bomzon
- Mr. Rajdeep Roy
- Mr. Kiran Kumar G. R.

Number of Non-Teaching Staffs (Technical): 6

Names of Non-Teaching Staffs (Technical):

- Ms. Mamta Pariyar
- Mr. Krishna Rai
- Ms. Kirti Pradhan
- Mr. Chungda Bhutia
- Mr. John Gurung
- Mr. Jyoti Prasanna Sen Gupta

Number of Non-Teaching Staffs (Non Technical): 4

Names of Non-Teaching Staffs (Non Technical):

- Ms. Prema Doma Tamang
- Mr. Bidhan Rai
- Mr. Buddha Bahadur Majhi
- Ms. Maya Mangar

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

- Workshop - Project Based Learning on Construction Planning and Management using BIM Technology. This particular Project Based Course would help students to understand and apply the advanced concept of Building Planning, Design and Management using the concept of Building Information Modelling in ongoing or future Projects.

Date- 24th -29th September, 2018

Duration- 6 Days

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

International Journal:

- Mohammad, A. H., Jung, H. C., Odeh, T., Bhuiyan, C., Hussein, H., "Understanding the impact of Droughts in the Yarmouk Basin, Jordan: monitoring droughts through meteorological and hydrological drought indices", **Arabian Journal of Geosciences**", Springer Berlin Heidelberg, Vol. 11, Issue, 05, pp 103, 2018.

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

- Ghosh, T., Anya, B., "A Study on effect of different kind of shear walls in seismic behavior of buildings", Manipal Colloquium, International Journal of Emerging Multidisciplinary Research, 2018.

Faculty Achievement:

- Mr. G. P. Sharma and Mr. Sajal Sarkar were Resource Person for IEI workshop at NIT, Sikkim.
- Successfully completed consultancy project work amounting to Rs. 3.2 Lakhs in this financial year.

Ongoing Research/Consultancy Project details:

- State Specific Action Plan on Water Resources under National Water Mission (Govt. of India) Total Project Cost: Rs. 30 Lakhs.
- Expert team for third party quality control monitoring for SHDB, Govt. of Sikkim. Total Project Remuneration: Rs.50 Lakhs.

Student's Activities: Survey Camp

- Survey camp was conducted to groom civil engineering students with essential knowledge and exposure to the real world and to encourage leadership and teamwork skills.
- The 6 days camp was divided into 2 surveying exercises: Plane table surveying and Contouring. In the camp all the students of Civil Engineering Department learnt all the technical aspects which are required in Surveying.

Date: 23/07/2018 to 28/07/2018

Place of survey: SMU, Gangtok, SMIT campus

Placement Record:

Company	No. of Students
I-Genesis	2
Total	2



DEPARTMENT OF COMPUTER APPLICATIONS



Number of Faculty Members:10

Names of Faculty Members:

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

Number of Non-Teaching Staffs (Technical):01

Names of Non-Teaching Staffs (Technical):

- Mrs. Hemant Chettri

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

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

- Mrs. Sakun Chettri
- Mr. Dhurba Kumar Pradhan
- Mr. Lalit Gurung

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

- First International Symposium on Computer Vision and Machine Intelligence in Medical Image Analysis (ISCMM-2019) held from 26th February to 27th February, 2019 at SMIT.
- **Fifteen days on job training organized for the students of Government Senior Secondary School, Singtam from 10th December– 26th December, 2018.**

- **Two days workshop on “Human Values and Professional Ethics” organized on 9th and 10th October, 2018.**

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

International Journal:

- Banerjee, P., Ghose, M. K., Pradhan, R., "Identification of Essential Descriptors in Spatial Socioeconomic Impact Assessment Modeling: a Case Study of Highway Broadening in Sikkim Himalaya", **Journal of Geovisualization and Spatial Analysis**, Vol.3, Issue 1, 2019.
- Kumar, P., Pradhan, R., Ghose, M. K., "Geo-Statistical Modelling of Remote Sensing Data for Forest Carbon Estimation - A Case Study on Sikkim, Himalayas", **Recent Developments in Machine Learning and Data Analytics**, Springer, pp. 511-527, 2019.
- Thapa, V., Sunuwar, J., Pradhan, R., "Finger Spelling Recognition for Nepali Sign Language", **Recent Developments in Machine Learning and Data Analytics**, Springer, pp. 219-227, 2019.
- Banerjee, P., Ghose, M. K., Pradhan, R., "AHP-based Spatial Air Quality Impact Assessment Model of vehicular traffic change due to highway broadening in Sikkim Himalaya", **Annals of GIS**, Taylor & Francis, pp.1-16, 2018.
- Banerjee, P., Ghose, M. K., Pradhan, R., "Analytic hierarchy process based spatial biodiversity impact assessment model of highway broadening in Sikkim Himalaya", **Geocarto International**, Taylor & Francis, pp.1-24, 2018.
- Banerjee, P., Ghose, M. K., Pradhan, R., "AHP-based spatial analysis of water quality impact assessment due to change in vehicular traffic caused by highway broadening

in Sikkim Himalaya", **Applied Water Science**, Vol. 8, Issue 2, pp. 72, 2018.

- Banerjee, P., Ghose, M. K., Pradhan, R., "Analytic hierarchy process and information value method-based landslide susceptibility mapping and vehicle vulnerability assessment along a highway in Sikkim Himalaya", **Arabian Journal of Geosciences**, Vol. 11, Issue 7, pp. 139, 2018.
- Giri, D., Borah, S., Pradhan, R., "Approaches and Measures to Detect Wormhole Attack in Wireless Sensor Networks: A Survey", **Advances in Communication, Devices and Networking**, pp. 855-864, 2018.
- Yajnik, A., Bhutia, F., Borah, S., "Parsing in Nepali Language Using Linear Programming Problem", **Recent Developments in Machine Learning and Data Analytics**, pp. 229-247, 2019.
- Panigrahi, R., Borah, S., "Rank Allocation to J48 Group of Decision Tree Classifiers using Binary and Multiclass Intrusion Detection Datasets", **Procedia Computer Science**, Vol 132, pp. 323-332, 2019.
- Dey, N., Borah, S., Babo, R., Ashour, A.S., "Social Network Analytics: Computational Research Methods and Techniques", **Academic Press**, 2019.
- Panigrahi, R., Borah, S., "Classification and Analysis of Facebook Metrics Dataset Using Supervised Classifiers", **Social Network Analytics: Computational Research Methods and Techniques**, p.1, 2018.
- Panigrahi, R., Borah, S., "A detailed analysis of CICIDS2017 dataset for designing Intrusion Detection Systems", **International Journal of Engineering & Technology**, Vol. 7 Issue 3.24, pp 479-482, 2018.
- Panigrahi, R., Borah, S., "Rank of Normalizers through TOPSIS with the Help of Supervised Classifiers", **International Journal of Engineering & Technology**. Vol. 7 Issue 3.24, pp. 483-490, 2018.
- Dutt, I., Borah, S., Maitra, I. K., Bhowmik, K., Maity, A., Das, S., "Real-time hybrid intrusion detection system using machine learning techniques", **Advances in Communication, Devices and Networking**, pp. 885-894, 2018.
- Borah, S., Panigrahi, R., Chakraborty, A., "An enhanced intrusion detection system based on clustering", **Progress in Advanced Computing and Intelligent Engineering**, pp. 37-45, 2018.
- Bhattacharjee, S., Ghatak, S., Dutta, S., Chatterjee, B., Gupta, M., "A Survey on Comparison Analysis between EEG Signal and MRI for Brain Stroke Detection", **Emerging Technologies in Data Mining and Information Security**, pp. 377-382, 2019.

- Gupta, M., Chatterjee, S., "Quantified Differentiation of Surface Topography for Nano-materials As-Obtained from Atomic Force Microscopy Images", **Journal of Materials Engineering and Performance**, Vol. 32, pp. 1-7, 2018.

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

- Kalita, J., Balas, V. E., Borah, S., Pradhan, R., "Recent Developments in Machine Learning and Data Analytics", **Second International Conference on Computing and Communication**, 2018.
- Sarma, H. K. D., Borah, S., Dutta, N., "Advances in Communication, Cloud, and Big Data", **Proceedings of 2nd National Conference on CCB 2016**, Springer, 2018.
- Dutt, I., Borah, S., Maitra, I., "A Proposed Machine Learning based Scheme for Intrusion Detection", **2018 Second International Conference on Electronics, Communication and Aerospace**, pp. 479-483, 2018.
- Singh, K. V. K., Pandey, M., "SDN Based Fast Handover Approach to improve the QoS of Video Streaming over Wi-Fi Networks", **Second International Research Symposium on Computing and Network Sustainability (IRSCNS-18)**, LNNS series, ISSN: pp. 2367-3370.

Faculty Achievement:

- Mr. Bishal Pradhan, Mrs. Kapila Sharma and Mrs. Moumita Pramanik have successfully completed NPTEL certificate course in 2018.

Student's Activities:

- Football tournament was organized by the students of CA department in memory of Late. Susan Subba, a student of BCA.
- School visit program to Pasighat, Arunachal Pradesh and Dhemaji district, Assam was conducted and also workshop on HTML was organized from 1st to 4th July and 14th and 15th July, 2018.
- School visit program to BVA Lakhimpur, Assam was conducted in July 2018.

Placement Record:

Company	No. of Students
Bid Ocean	6
Infosys	2
Telview	1
Innoeye	1
Total	10

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



Number of Faculty Members:32

Names of Faculty Members:

- Dr. Kalpana Sharma
- Dr. Chingtham Tejbanta Singh
- Dr. 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): 04

Names of Non Teaching Staffs (Technical):

- Mr. Simanta Kalita
- Mr. Diwas Sharma
- Ms. Sangita Adhikary
- Mr. Lokesh Poudyal

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

Names of Non Teaching Staffs (Non Technical):

- Ms. Namita Dahal (Junior Assistant)
- Mrs. Amrita Bishwakarma
- Mr. Bhim Tamang
- Mr. Ronald Lepcha
- Mr. Manish Chettri
- Mr. Buddhi Sharma

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

- CSE department has organized “Second International Conference on Advanced Computational and Communication Paradigms” from 25th February to 28th February, 2019

- Workshop on “Data Analytics using R Programming” organized by E&ICT Academy, IIT Guwahati in association with CSE, SMIT from 30th August to 1st September, 2018.
- Workshop on “Machine Learning” organized by E&ICT Academy, IIT Kanpur in association with CSE, SMIT from 30th – 31st October, 2018
- Workshop on "Computer Vision and Image Processing using MATLAB", 11th October, 2018, CSE, SMIT, Sikkim
- Workshop on “Artificial Intelligence with Deep Learning” was organized by the Department of CSE, SMIT in association Revert Technology Pvt. Ltd., and IIT, Roorkee, 2018.
- Department has conducted Summer Training from 4th to 23rd June, 2018 for Manipal Jaipur Students in the following course:
 - Advanced Programming with Java & its Application
 - Python Programming
 - Data Analytics using R Programming
- Coding competition in C programming was organised by ACCESS, 14th February, 2019.
- LOGO Quiz & Design Competition was organized by ACCESS from 11th to 12th February, 2019
- Workshop on Database Management Systems was organized by ACCESS on 13th February, 2019
- Workshop on "Programming Principles" was organized by ACCESS on 28th August, 2018.

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

International Journal:

- Konar, D., Sharma, K., Sarogi, V., Bhattacharyya, S., “A Multi-Objective Quantum-Inspired Genetic Algorithm (Mo-QIGA) for Real-Time Tasks Scheduling in Multiprocessor Environment”, **Procedia Computer Science**, Vol. 131, pp. 591-599, 2018.
- Pradhan, A., Sen, B., “A brief study on Contention Based Multi-Channel MAC Protocol for MANETs”, **International Journal of Emerging Trends in Engineering Research**, Vol 6, No 12, Dec 2018, ISSN 2347 - 3983, pp 74 – 78
- Sen, B., Meitei, M., G., Sharma, K., Ghose, M., K., and Sinha, S., "Mitigating Black Hole Attacks in MANETs Using a Trust-Based Threshold Mechanism", **International Journal of Applied Engineering Research**, ISSN 0973-4562 Volume 13, Number 7 (2018), pp. 5458-5463.
- Ningombam, D., Chingtham, T., S., “Autonomous Mobile Robot Navigation and Localisation using Cloud, based on Landmark”, **International Journal of Management, Technology And Engineering**, ISSN NO: 2249-74, Volume 8, Issue: XII Pages:1265-1278, December 2018.
- Chakrabarty, S., Karmakar, G., Islam, M., R., De, D., “Reckoning of Music Rhythm Density and Complexity through Mathematical Measures”, **Advanced Computational and Communication Paradigms** pp 387-394, 8th June, 2018, LNEE, Volume 475, Springer.
- Singh, M., Pradhan, S., Islam, M., R., Chitrapriya, N., “A Comparative Study on Different Genres of Image Restoration Techniques”, **Advances in Communication Devices and Networking**, pp 373-383, 2019, LNEE, Volume 537, Springer.
- Sengupta, U., Kumari, P., Paul, T., Islam, M., R., “Smart Water Pump Controller”, **Advances in Communication Devices and Networking**, pp 563-572, 2019. LNEE, Volume 537, Springer.
- Sircar, S., Alok, S., Sarkar, P., “Vehicle Number Plate Detection and Recognition of Characters by Image Processing”, **International Journal of Computer Applications** (0975 – 8887) Volume 179 – No.37, April 2018.
- Kar, C., Banerjee, S., “An image processing approach for intensity detection of tropical cyclone using feature vector analysis”, **International Journal of Image and Data Fusion**, 2018.
- Islam, M. R., Koirala, T. K., Khatun, F., “Network Traffic Analysis and Packet Sniffing Using UDP”, pp 907-914, **LNEE**, volume 462, Springer, 2018.
- Roy, M., Adhikary, S., “Cloud Computing: Characteristics, Advantages and Issues”, **International Journal of Innovations & Advancement in Computer Science**, (ISSN 2347-8616), Volume 7, Issue 4, pp. 296-303 April 2018
- Pradhan, N., Pradhan, S., “Performance evaluation of wireless sensor network using ED-TDMA with AODV and DSR”, **International Journal of Advance Engineering and Research Development**, Vol 5, Issue 3, 2018.
- Gurung, S., Sikhwal, H., Subedi, A., Ghose, M., K., “Deep Learning Approach on Network Intrusion

Detection System using NSL-KDD Dataset", **International Journal of Computer Network and Information Security (IJCNIS)**, MECS Publisher, ISSN: 2074-9090 (Print), ISSN: 2074-9104 (Online), DOI: 10.5815/ijcnis, Vol 11, No 2, March, 2019

- Kar, C., Banerjee, S., "Bangla Character Recognition by Euclidean Distance between Center of Gravity and Endpoints", **Smart Intelligent Computing and Applications, Smart Innovation Systems and Technologies**, 104, 2019. DOI:978-981-13-1921-1_1.

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

- Machangpa, J., W., Chingtham, T. S., "Head Gesture Controlled Wheelchair for Quadriplegic Patients", **International Conference on Computational Intelligence and Data Science (ICCIDS 2018)**, Published by Elsevier, Procedia Computer Science 132 (2018) 342-351.
- Subba, T., Chingtham, T. S., "A Survey: EMG Signal-Based Controller for Human-Computer Interaction", **Advances in Communication, Cloud, and Big Data**, Springer, pp 117-125, 2018.
- Sapkota, K., Pradhan, A., Singh, A. K., Rai, P. "Speed Control of Single Phase Induction Motor Using Fuzzy Logic Controller", **Advances in Communication, Devices and Networking. Lecture Notes in Electrical Engineering**, Vol. 462. pp 719-727 Springer, Singapore 24th May, 2018.
- Rai, P., "A Game Theory based Framework for Energy Efficient Routing in Cognitive Radio Wireless Sensor Networks", **3rd National Conference on Communication, Cloud and Big Data (CCB), 2018**.
- Rai, R., Rai, P., "Survey on Energy-Efficient Routing Protocols in Wireless Sensor Networks Using Game Theory", **Advances in Communication, Cloud, and Big Data. Lecture Notes in Networks and Systems**, Vol 31. Springer, Singapore, 2018.
- Ningombam, D., "Multipurpose GPS Guided Autonomous Mobile Robot", **Advances in Intelligent Systems and Computing book series**, PP 361-372, (AISE, Volume 564).
- Rai, P., Ningombam, D., "Landmark-Based Robot Navigation: A Paradigm Shift from Onboard Processing to cloud", **Advances in Communication, Cloud and Big Data**, PP 49-50.
- Roy, M., Ahsan, S., Kumar, G., Vimal, A., "Implementation of Quick UDP internet connections

(QUIC) protocol", **3rd National Conference on Communication, Cloud and Big Data (CCB), 2018**.

- Roy, M., Bhowmik, D., Biswas, D., "Converting and Developing live web site into a web content management system", **Lecture Notes in Networks and Systems**, Book series (LNNS, volume 31), First online: 16 June 2018, PP 79-87, Springer, Singapore.
- Sarkar, P., Kar, C., "TH-LEACH: Threshold Value and Heterogeneous Nodes-Based Energy-Efficient LEACH Protocol", **Smart Innovation, Systems and Technologies book series (SIST)**, Volume 88, pp 41-49, Publisher, Springer, Singapore.
- Bhattacharyya, S., Snasel, V., Dey, A., Dey, S., Konar, D., "Quantum Spider Monkey Optimization (QSMO) Algorithm for Automatic Gray-Scale Image Clustering", **2018 IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI)**, DOI: 10.1109/ICACCI.2018.8554872
- Thapa, V., Sunuwar, J., Pradhan, R, "Finger Spelling Recognition for Nepali Sign Language", **Recent Developments in Machine Learning and Data Analytics. Advances in Intelligent Systems and Computing**, vol. 740. Springer, Singapore.
- Roy, B., Gupta, M., "Macroscopic Reconstruction of Histopathology Images-A Survey", **International Symposium on Computer Vision and Machine Intelligence in Medical Image Analysis**, 2019
- Bhattacharjee, S., Gupta, M., "A Survey on: Facial Emotion Recognition invariant to Pose, Illumination, Age", **International Conference on Computational and Communication Paradigms**, 2019.
- Kharel, P., Sharma, K., Dhimal, S., Sharma, S., "Early Detection of Depression and Treatment Response Prediction Using Machine Learning: A Review", **International Conference on Computational and Communication Paradigms**, 2019
- Dey, S., De, S., Ghosh, D., Bhattacharyya, S., Konar, D., Platos, J., "A Novel Quantum Inspired Sperm Whale Meta-heuristic for Image Thresholding", **Second International Conference on Advanced Computational and Communication Paradigms (ICACCP), 2019**
- Dr. Md. Ruhul Islam Attended an online conference 2019 on **AWS Innovation in Machine Learning & AI Edition**.
- Rai, S., Sharma, K., Dhakal, D., "Survey on detection

and Mitigation of Distributed Denial of Service Attack in Named Data Networking”, **Advances in Communication, Cloud and Big Data**, Springer, pp163-171, ISBN:978-981-10-8911-4

- Rai, S., Dhakal, D., “A Survey on detection and Mitigation of interest flooding attack in Named Data Networking”, **Advanced Computational and Communication Paradigm**, pp-523-531, ISBN:978-981-10-8237-5
- Ghatak, S., “Facial Representation Using Linear Barcode”, **Advanced Computational and Communication Paradigm**, ISBN:978-981-10-8237-5

Faculty Achievement:

- Dr. Kalpana Sharma has received “Excellence in Teaching Award” in SMU PRIDE AWARD, 2018.
- Dr. Kalpana Sharma was awarded as Active SPOC of NPTEL local Chapter in 2019.
- Dr. Kalpana Sharma chaired a session in the International Conference on Communication Devices and Networking-2018 organized by Department of Electronics & Communication Engineering
- Dr. Kalpana Sharma contributed as reviewer in the International Conference on Communication Devices and Networking-2018 organized by Department of Electronics & Communication Engineering
- Dr. Kalpana Sharma has successfully coordinated the three days workshop on “Data Analytics using R Programming” organized by E&ICT Academy, IIT Guwahati in association with CSE, SMIT from 30th August to 1st September, 2018.
- Dr. C. T. Singh has received “Spot Light” Award in SMU PRIDE AWARD, 2018.
- Ms. Bijoyeta Roy is awarded as best faculty of SMIT in the month of September, 2018
- Mr. Sunil Dhimal is awarded as best faculty of SMIT in the month of March, 2019.
- Mr. Chinmoy Kar received award for “Team of Excellence” in SMU PRIDE AWARD.
- Dr. Udit Kumar Chakraborty was awarded with Ph.D degree by University of Calcutta in 2018.
- Mr. Biraj Upadhyaya, Mr. Dendra Dhakal and

Ms. Chitrapriya have registered as Ph.D Scholar under SMU in 2018.

- Mr. Ashis Pradhan has registered as Ph.D Scholar under Sikkim University in 2018.
- Ms. Pratikshya Sharma has registered in Ulster University, UK in 2018 as full time Ph.D Scholar.
- Chinmoy Kar was awarded as Active SPOC of SWAYAMNPTEL local Chapter in 2019.
- Ms. Bijoyeta Roy was amongst top 5% in NPTEL online course on “Introduction to Machine Learning” in 2018.
- The following faculty members have completed online certification course of

NPTEL/COURSERA/Others in 2018

- Mrs. Pratima Sarkar (NPTEL)
- Ms. Bijoyeta Roy (NPTEL)
- Mr. Santanu Kr. Misra (NPTEL)
- Dr. Md. Ruhul Islam (AWS Training and Certification,
- Dr. Md. Ruhul Islam (Udemy certification)
- Dr. Md. Ruhul Islam (ISC2 Certified Security Professional)
- Dr. Md. Ruhul Islam (Google Analytics Academy Certification)
- Ms. Shrijana Pradhan (NPTEL)
- Ms. Meenakshi Roy (COURSERA)
- Ms. Sujala Pradhan (NPTEL)
- Ms. Saswati Bhattacharya (NPTEL)
- Mr. Dendra Dhakal (NPTEL)
- Mr. Ashis Pradhan (NPTEL)
- Mr. Dhruva Ningombam (NPTEL)
- Mr. Jhuma Sunuwar (NPTEL)
- Mr. Biraj Upadhyaya (NPTEL)
- Mr. Biraj Upadhyaya (AWS)
- Ms. Nitisha Pradhan (AWS)
- Ms. Nitisha Pradhan (Udemy)
- Dr Udit Kumar Chakraborty (Swayam)
- Dr. Udit Kr. Chakraborty successfully coordinated a Two Day workshop on “Artificial Intelligence with Deep Learning”.
- Dr. Udit Kr. Chakraborty has done Short term training Programme on “Mathematics and Computations” from 31st December, 2018 to 11th January, 2019 organized by NITTTR, Kolkata

- Dr. Kalpana Sharma and Mr. Biswaraj Sen has attended Infosys Summit InfyTQ in Mysore, 2019
- Mr. Debanjon Konar has received award in recognition of outstanding reviewer in Applied Soft Computing, Elsevier, 2018.
- Mr. Debanjon Konar is member of Editorial Board of American Journal of Neural Networks and Applications, INDERSCIENCE
- Dr. Kalpana Sharma is member of Editorial Board of INDERSCIENCE.
- Dr. C. T. Singh attended a Capacity Building training from 20th - 22nd August, 2018 at GLS/IIM Ahmedabad organized by NITI Aayog on the topic "Building a world class incubator".
- Mr. Biswaraj Sen is advisory Board Member of "Fourth International Conference on Communication, Computing and Information Technology (ICCCMIT), MOP Vaishnav College for Women, Chennai"
- Dr. Md. Ruhul Islam is life time member of SDIWC.
- Dr. Md. Ruhul Islam is member of Editorial Board on computer and information engineering.
- Dr. Md. Ruhul Islam was reviewer in ICCDN, 2018.
- Dr. Md. Ruhul Islam was reviewer in IJACSA, 2018 & 2019.
- Dr. Md. Ruhul Islam was reviewer in ECCES, 2019.
- Dr. Sandeep Gurung was reviewer in current Journal of applied Science and technology.
- Dr. Sandeep Gurung was reviewer in IJNS.
- Dr. Udit Kumar Chakraborty was reviewer of Applied Soft Computing in Elsevier.
- Dr. Udit Kumar Chakraborty was reviewer of the SCI indexed International Journal of Uncertainty, Fuzziness and Knowledge-based Systems.
- Kiran Gautam was Editor and Contributor of Lecture Notes in Networks and Systems.
- Dr Udit Kumar Chakraborty was Editorial member of JIEP.
- Mr. Debanjan Konar was a TPC member of ICRCICN-2019.
- Mr. Debanjan Konar was a Reviewer of ICSC-2018.
- Mr. Debanjan Konar was an Editorial member of AJNNA.
- Mr. Chinmoy Kar was a TPC member of ICRCICN 2019.
- Mr. Chinmoy Kar was a Reviewer of IJCA.
- Mr. Sanjoy Ghatak is an Editorial Board Member of World Journal of Computer Application and Technology.
- Mr. Sanjoy Ghatak in Elsevier, Digital Signal Processing.
- Mr. Sanjoy Ghatak is a reviewer of IJLN.
- Mr. Sanjoy Ghatak Advisory Board Member of ICCCMIT conference 2019.
- Mr. Debanjon Konar received Rs. 100000 fund for ICACCP 2019 from DST and Rs 50,000 from INSA
- Mr. Debanjon Konar, Mr. Chinmoy Kar, Dr. Kalpana Sharma are the Editor of Book "Hybrid Machine Intelligence for Medical Image Analysis" published by Springer (Studies in Computational Intelligence). The books of this series are indexed in Web of Science and Scopus. (In Print)
- Mr. Kiran Gautam published a Book Chapter "Survey on Transmission Control Protocol Performance Over Different Mobile Ad-hoc Routing Protocols" in Lecture Notes in Network and Systems, 2019
- Mr. Debanjon Konar and Mr. Suman Kalyan Kar published a book chapter "An Efficient Handwritten Character Recognition Using Quantum Multilayer Neural Network (QMLNN) Architecture: Quantum Multilayer Neural Network" in Quantum Inspired Intelligent Systems for Multimedia Data Analysis, DOI: 10.4018/978-1-5225-5219-2.ch008, 2018
- Mr. Dhruva Ningombam has received Taxes Instruments award for fostering anecosystem Government, Industry and Academia.
- Mr. Ish Nath Jha has participated in "Towards an Inclusive Digital Society: Shaping the Agenda for Technology Design" Organized by CITAPP, IIIT Bangalore.

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:

- ACCESS (All Core Computer Engineering Students Society): Students' forum of the Computer Engineering department. ACCESS conducted following co-curricular activities:
- Coding competition in C programming was organised by ACCESS, 14th February, 2019.
- LOGO Quiz & Design Competition was organized by ACCESS from 11th to 12th February, 2019
- Workshop on Database Management Systems was organized by ACCESS on 13th February, 2019
- Sports Event Nimbus 2019 was organized by ACCESS for 12 days, 20th January to 31st January, 2019.
- Workshop on "Programming Principles" was organized by ACCESS on 28th August, 2018
- Workshop on "Scratch and C Programming" was organized by ACCESS on 24th-27th August, 2018.
- Cultural Fest 'VAASTUSASMITAM' was organized on 4th November, 2018
- "Mission Education Programme" was conducted from 14th to 21st August, 2018
- Mr. Rajdeep Singh Golan has successfully completed the Industrial Training Program on Big Data from 23rd May, 2018 to 15th June, 2018.
- Mr. Akash Gupta has successfully completed the Industrial Training Program on Big Data from 23rd May, 2018 to 15th June, 2018.
- 67 students have successfully completed workshop on "Artificial Intelligence with Deep Learning" was organized by the Department of CSE, SMIT in association Revert Technology Pvt. Ltd., 2018.

New Initiatives:

- Extended Lesson Plan
- Lab Manual
- Floated new electives: Big Data, Social Network Analysis, Python, Enterprise Resource Planning, Fundamental of Web Technologies, Agile, Soft skills and Interpersonal Communication, Deep Learning and Neural Network, Latest Trends in Computer Science, Internet of Things, Mobile Robotics, Cloud Computing etc.
- Organized "International Conference on Computational and Communication Paradigms" 2019 from 25th to 28th February, 2019.

- Department has conducted Summer Training from 4th to 23rd June, 2018 for Manipal Jaipur Students in the following course:
- Advance Programming with Java & its Application
- Python Programming
- Data Analytics using R Programming.
- Workshop on "Data Analytics using R Programming" organized by E&ICT Academy, IIT Guwahati in association with CSE, SMIT from 30th August to 1st September, 2018.
- Workshop on "Machine Learning" organized by E&ICT Academy, IIT Kanpur in association with CSE, SMIT from 30th - 31st October, 2018
- Workshop on "Computer Vision and Image Processing using MATLAB", 11th October, 2018, CSE, SMIT, Sikkim

Placement Record:

Company	No. of Students
IXIA	7
MICROSOFT	7
DELL	5
SHELL	7
JUST DIAL	1
WELLS FARGO	11
BOSCH	9
WIPRO	17
TCS	14
KERROSS	1
Web Skitters	8
BID OCEAN	35
INFOSYS	40
IDEMIA	9
THOUGHTWORKS	2
THINK & LEARN	6
TELVIEW	1
MPHASIS	1
AGS	4
CLICK ON CARE	8
BOSTON SCIENTIFIC	2
ERICSSON	5
HALODOC	4
INNOEYE	1
TOTAL	205

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



Number of Faculty Members:16

Names of Faculty Members:

- Prof. (Dr.) Karma Sonam Sherpa
- Mr. Mohammed Nasir Ansari
- Mr. Amit Kumar Singh
- Dr. Moumi Pandit
- Dr. Shabbiruddin
- Mr. Bijay Rai
- Mr. Dibyadeep Bhattacharya
- Mr. Sandip Kumar Gupta
- Mr. Roshan Pradhan
- Mr. Pratik Pradhan
- Mr. Rahul Kumar
- Ms. Chitrangada Roy
- Mr. Anirban Sengupta
- Mr. Saikat Chatterjee
- Mr. Akash Kumar Bhoi
- Mr. Arijit Ghosh

Number of Non-Teaching Staffs (Technical):05

Names of Non-Teaching Staffs (Technical):

- Mr. Ramesh Sharma
- Ms. Priya Pradhan
- Mr. Pawan Pyakurel
- Mr. Rabin Dahal
- Ms. Srijana Rai

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

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

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

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

- One day workshop on "Application of MATLAB IN Electrical and Electronics Engineering" conducted on 8th February, 2019.
- Workshop on "Practical Aspects of Electrical Engineering" conducted on 22nd to 25th February, 2019 (3days).

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

International Journal:

- Shabbiruddin, Chakravorty, S., Sherpa, K. S., "Power Distribution System Planning Using Q-GIS", *International Journal of Energy Optimization and Engineering*, ISSN: 2160-9500 Volume 7, Issue 2, April-June 2018, ESCI.
- Shabbiruddin, Chakravorty, S., Sherpa, K. S., "Optimal Location of Sub-Station Using Q-GIS and Multi-Criteria Decision Making Approach",

International Journal of Decision Support System Technology Decision Making Approach, Volume 10, Issue 2, April-June 2018, SCOPUS, ESCI.

- Shabbiruddin, Chakravorty, S., Sherpa, K. S., "Transmission Line Routing Using Open Source Software Q-GIS", **International Journal of Open Source Software and Processes (IJOSSP)**, Volume 8, Issue 4, Article 4, pp. 71-82, 2018, ESCI.
- Shabbiruddin, Chakravorty, S., Sherpa, K. S., "Power Flow Investigation Using Cubic Spline Function A Case Study", **International Journal of Energy Optimization and Engineering (IJE OE)**, Volume 7, Issue 4, October-December 2018, ESCI.
- Prabhakar, K., Upendra, R. C., Singh, A.K., Kumar, P., "Efficiency and Performance Analysis of DTC based IM Drivetrain Using Variable Dc-link Voltage for Electric Vehicle", *IET Electrical Systems in Transportation*, 10 pp. DOI: 10.1049/iet-est.2017.0086, Online ISSN 2042-9746 Available online: 14th March, 2018.
- Ansari, M. N., Dalal, A., Kumar, P., "A Method for Determining Non-linear Inductances of Electrical Equivalent Circuit for Three-phase Induction Motor", **Electric Power Components and Systems Journal, UEMP-2017**, Taylor and Francis, Vol. 46, Issue 4, pp 379-390, May, 2018.
- Kumar, P., Sinha, P., Roy C., Basu, M., "Design and Implementation of Solar Charge Controller for Photovoltaic Systems", **ADBU-Journal of Engineering Technology (AJET)**, ISSN:2348-7305, Volume 7, Issue 1, June, 2018, 007010601 (4PP).
- Asim, M., Tariq, M., Mallick, M. A., Ashraf, I., Kumari, S., Bhoi, A.K., "Advances in Smart Grid and Renewable Energy", *Lecture Notes in Electrical Engineering*, Vol. 435. (2018) Springer, Singapore.
- Sahu, A., Gupta, S., Singh, V. K., Bhoi, A.K., Garg, A., Sherpa, K. S., "Design of Permanent Magnet Synchronous Generator for Wind Energy Conversion System", **Advances in Smart Grid and Renewable Energy. Lecture Notes in Electrical Engineering**, Vol. 435. (2018), Springer, Singapore.
- 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", **Advances in Smart Grid and Renewable Energy. Lecture Notes in Electrical Engineering**, Vol. 435. (2018) Springer, Singapore.
- Bhoi, A. K., Sherpa, K. S., Khandelwal, B., "Multimodal Classification of Arrhythmia and Ischemia Using QRS-ST Analysis", **Advances in Systems, Control and Automation. Lecture Notes in Electrical Engineering**, Vol. 442. (2018) Springer, Singapore.
- Naresh, B., Singh, V. K., Bhargavi, V., Garg, A., Bhoi, A.K., "Dual-Band Wearable Rectenna for Low-Power RF Energy Harvesting", **Advances in Power Systems and Energy Management. Lecture Notes in Electrical Engineering**, Vol. 436. (2018) Springer, Singapore.
- Manjesh, Dabhade, N. S., Garg, A., Bhoi, A. K., "Reduction of THD in Nine-Phase Induction Motor Drive with CLC Filter", **Advances in Power Systems and Energy Management. Lecture Notes in Electrical Engineering**, Vol. 436. (2018) Springer, Singapore.
- Manjesh, Dabhade, N. S., Garg, A., Bhoi, A. K., "Comparative Study of Harmonics and Total Harmonic Distortion of Five-Phase Inverter Drive with Five-Phase Multilevel Inverter Drive Using Simulink/MATLAB", **Advances in Power Systems and Energy Management. Lecture Notes in Electrical Engineering**, Vol. 436. (2018) Springer, Singapore.
- Manjesh, Dabhade, N. S., Garg, A., Bhoi, A. K., "Evaluation of Harmonics and THD in Five-Phase Inverter Constructed with High-Pass Filter by MATLAB Simulation", **Advances in Systems, Control and Automation. Lecture Notes in Electrical Engineering**, Vol. 436. (2018) Springer, Singapore.
- Pattnaik, A., Tomar, M., Jha, P. K., Bhoi, A.K., Gupta V., Prasad, B., "Theoretical Analysis of the Electrical and Optical Properties of ZnS", **Advances in Systems, Control and Automation. Lecture Notes in Electrical Engineering**, Vol. 442. (2018) Springer, Singapore.
- 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", **Advances in Electronics, Communication and Computing. Lecture Notes in Electrical Engineering**, Vol. 443. (2018) Springer, Singapore.
- Singh, N. K., Singh V. K., Saxena, A., Bhoi, A. K., Garg, A., Sherpa, K.S., "Inset Fed Circular Microstrip Antenna with Defected Ground", **Advances in Electronics, Communication and Computing. Lecture Notes in Electrical Engineering**, Vol. 443. (2018) Springer, Singapore.

- Sherpa, K. S., Chatterjee, S. Chettri, S., Pradhan, S., "Integrated Model of Renewable Energy Sources Feeding Both AC and DC Load", **Advances in Smart Grid and Renewable Energy. Lecture Notes in Electrical Engineering**, Vol. 435, Springer, Singapore.
- Pradhan, R., Shabbiruddin, "Speed Control of DC Motor Using Fuzzy Logic Control and Simulink", **International Journal on Advanced Electrical and Computer Engineering (IJAECE)**, Vol. 5, Issue 2-3, pp.55-58,2018,Scopus.
- Ansari, M. N., Dalal, A., Kumar, P., "A Method for Determining Non-linear Inductances of Electrical Equivalent Circuit for Three-phase Induction Motor", **Electric Power Components and Systems Journal, UEMP-2017, Taylor and Francis**, Vol. 46, Issue 4, pp. 379-390, May, 2018. SCI (Web of Science).
- Deogam, N., Shabbiruddin., "Optimal Site Selection for Solar Photovoltaic Power Plant in North Eastern State of India using Hybrid MCDM Tools", **IGI Global Scholarly Journal**, Volume 8(2),Issue April-June 2019.
- Priyadarshi, N., Sharma, A. K., Bhoi, A. K., Ahmad, S. N., Azam, F., Priyam, S., "Mat lab/simulink based Fault Analysis of PV Grid with Intelligent Fuzzy Logic Control MPPT", **International Journal of Engineering & Technology**, 7 (2.12), pp. 198-204, 2018, Scopus.
- Bano, N., Singh, V. K., Bhoi, A. K., Sharma, S., "Design and Analysis of Key Shaped Wearable Textile Antenna", **International Journal of Engineering & Technology**, 7 (2.12), pp. 219-221, 2018, Scopus.
- Dubey, R., Singh, V. K., Bhoi, A. K., Ali, Z., "Realization of trophy shaped flexible wearable antenna based on foam substrate", **International Journal of Engineering & Technology**, 7 (2.12), pp. 222-224, 2018, Scopus.
- Priyadarshi, N., Sharma, A. K., Bhoi, A.K., Azam, F., Priyam, S., "A Practical performance verification of AFLC based MPPT for standalone PV power system under varying weather condition", **International Journal of Engineering & Technology**, 7 (2.12), pp. 338-343, 2018, Scopus.
- Chettri, S., Bhoi, A. K., Chae, G. S., Gurung, N., Sharma, A., "Analytical modeling of the human cardiovascular system with real-time implementation using NI ELVIS-II", **International Journal of Engineering & Technology**, 7 (2.33), pp. 628-631, 2018, Scopus.
- Singh, V. K., Singh, N. K., Kumar, R., Yadav, A., Chae, G.S., Sharma, A., Bhoi, A. K., "Rectenna Design for Electromagnetic Energy Harvesting and Wireless Power Transfer", **International Journal of Engineering & Technology**, 7 (2.33), pp. 632-633, 2018, Scopus.
- Singh, V. K., Singh, N. K., Kumar, R., Yadav, A., Chae, G.S., Sharma, A., Bhoi, A. K., "Rectenna Design for Electromagnetic Energy Harvesting and Wireless Power Transfer", **International Journal of Engineering & Technology**, 7 (2.33), pp. 632-633, 2018, Scopus.
- Singh, V. K., Singh, N. K., Kumar, R., Yadav, A., Chae, G. S., Sharma, A., Bhoi, A. K., "Solar Auto Irrigation Control (SAIC) Using Resistivity Measurement at Multiple Points", **International Journal of Engineering & Technology**, 7 (2.33), pp. 642-643, 2018, Scopus.
- Singh, V. K., Singh, N. K., Kumar, R., Yadav, A., Chae, G.S., Sharma, A., "Rectenna Circuit at 6.13 GHz to Operate the Sensor Devices", **International Journal of Engineering & Technology**, 7 (2.33), pp. 644-646, 2018, Scopus.
- Singh, V. K., Singh, N. K., Kumar, R., Yadav, A., Chae, G.S., Sharma, A., "Power Harvesting Through Flexible Rectenna At Dual Resonant Frequency For Low Power Devices", **International Journal of Engineering & Technology**, 7 (2.33), pp. 647-649, 2018, Scopus.
- Loni1a, J., Singh, V. K., Tripathi, A. K., Chae, G. S., Sharma, A., Bhoi, A.K., "Improvement of The Performance of Wearable Textile Antenna", **International Journal of Engineering & Technology**, 7 (2.33), pp. 650-652, 2018, Scopus.
- Kalita, K., Mallick, P. K., Bhoi, A. K., Ghadai, R. K., "Optimizing Drilling Induced Delamination in GFRP Composites Using Genetic Algorithm & Particle Swarm Optimisation", **Advanced Composites Letters**, Vol. 27, Issue 1, 2018, Scopus, SCI(IF: 0.422).
- Ragavendran, U., Ghadai, R. K., Bhoi, A. K., Ramachandran, M., Kalita, K., "Sensitivity Analysis and Optimization of EDM Process Parameters", **Transactions of the Canadian Society for Mechanical Engineering**, 2018, Scopus, SCI(IF: 0.333)
- Prabhakar, K. K., Reddy, C. U., Singh, A. K., Kumar, P., "Efficiency And Performance Analysis of DTC Based IM Drive Train Using Variable DC-Link Voltage for Electric Vehicle Application", **IET**

Electrical Systems in Transportation, ISSN 1751-8644.

- Bhoi, A. K., Karma, K. S., Khandelwal B., Mallick, P. K., "An Analytical Review of Different Approaches for Detection and Analysis of Electrocardiographic ST Segment", In **Cognitive Informatics and Soft Computing. Advances in Intelligent Systems and Computing**, Vol 768. pp. 39-51 Springer, Singapore. ISSN: 21945357. Indexed in Scopus, UGC approved Journal.
- Bhoi, A. K., Karma, K. S., Khandelwal, B., Mallick, P. K., "T wave Analysis: Potential Marker of Arrhythmia and Ischemia Detection Review", In **Cognitive Informatics and Soft Computing. Advances in Intelligent Systems and Computing**, Vol 768. pp. 121-130, Springer, Singapore. ISSN: 21945357, Indexed in Scopus, UGC approved Journal.

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

- Rai, B., "Evaluation and Minimization of Total Harmonic Distortion in Two Level Voltage Source Inverter Fed Induction Motor Drives", **2018 IEEE conference on Current Trends on Converting Technologies**.
- Rai, B., "Optimal PWM in Three Level Inverter Fed Induction Motor Drives with Quarter wave Symmetry Relaxed", **2018 IEEE conference on Current Trends on Converting Technologies**.
- Bhowmik, S., Pradip, R. P., Roy, C., "Design of PID Controller for Maximum Power Point Tracking for PV Energy Systems", **International Conference in Communication, Devices and Networking (ICCDN 2018)**, 02-03 June 2018, Presented.
- Roy, S. K., Rowniar, R. K., Singh, A. K., "Hardware Implementation of Five Level Cascaded H-Bridge Multilevel Inverter", **2nd International Conference on Communication, Devices and Networking (ICCDN-2018)**, 02-03 June 2018, Presented.
- Saini, R., Singh, V. K., Singh, N., Saini J. P., Bhoi, A. K., "Multi Resonant Textile Antenna with Partial Ground for Multiband Applications", **International Conference on Communication, Devices and Networking (ICCDN-2017) Advances in Communication, Devices and Networking, LNEE, Lecture Notes in Electrical Engineering**, Vol. 462. (2018) Springer, Singapore.
- Saini, R., Singh, V. K., Singh, N., Saini, J. P., Bhoi, A. K., "Microstrip Textile Antenna with Jeans Substrate with Applications in S-Band", **Advances in**

Communication, Devices and Networking. Lecture Notes in Electrical Engineering, (ICCDN-2017), Lecture Notes in Electrical Engineering, Vol 462. 2018, Springer, Singapore.

- Tripathi, P., Tomar, U., Singh, V. K., Bhoi, A. K., "Solution of Economic Load Dispatch Problems Through Moth Flame Optimization Algorithm", **Advances in Communication, Devices and Networking. Lecture Notes in Electrical Engineering, (ICCDN-2017), Lecture Notes in Electrical Engineering**, Vol 462. 2018, Springer, Singapore.
- Devi, M., Singh, V. K., Sharma, S., Bhoi, A. K., "Antenna for Wireless Area Network and Bluetooth Application", **Advances in Communication, Devices and Networking. Lecture Notes in Electrical Engineering, (ICCDN-2017), Lecture Notes in Electrical Engineering**, Vol 462. 2018, Springer, Singapore.
- Kumar, A., Lala, A., Singh, V.K., Bhoi, A. K., "Estimation of Frequency Band of Microstrip Antenna (MSA) with Radial Basis Function (RBF)", **Advances in Communication, Devices and Networking. Lecture Notes in Electrical Engineering, (ICCDN-2017), Lecture Notes in Electrical Engineering**, Vol. 462. (2018) Springer, Singapore.
- Singh, P., Singh, V. K., Lala, A., Bhoi, A. K., "Design and Analysis of Microstrip Antenna Using Multilayer Feed-Forward Back-Propagation Neural Network (MLPFBP-ANN)", **Advances in Communication, Devices and Networking. Lecture Notes in Electrical Engineering, (ICCDN-2017), Lecture Notes in Electrical Engineering**, Vol 462. (2018) Springer, Singapore.
- Bhoi, A. K., Sherpa, K. S., Khandelwal, B., "Ischemia and Arrhythmia Classification Using Time-Frequency Domain Features of QRS Complex", **International conference on computational intelligence and data science (ICCIDS-2018)**, Procedia Computer Science, 132, 606-613. (2018) Elsevier.
- Lamichaney, N., Roy, C., "Implementation of Single Phase PWM Inverter using Arduino Uno", **International Journal on Advanced Electrical and Computer Engineering (IJAECE)**, ISSN (Online): 2349-9338, ISSN (Print): 2349-932X Volume -5, Issue -2-3, pp. 49-51, 2018.
- Nandan, A., Choudhary, S., "Simulation of VOLT/HERTZ (V/F) Control for converter Fed Induction motor drive", **International Journal on Advanced Electrical and Computer Engineering (IJAECE)**, ISSN (Online): 2349-9338, ISSN (Print):

2349-932X Volume -5, Issue -2-2, pp- 80-82, 15th-16th March, 2018.

- Roy, S. K., "A Review Cascaded H-Bridge Multi Level Inverter: Control Techniques With Comparison Between Open-Loop And Closed-Loop Techniques", **International Journal on Advanced Electrical and Computer Engineering (IJAECE)**, ISSN (Online): 2349-9338, ISSN (Print): 2349-932X Volume -5, Issue-2-3, 2018.
- Hazarika, N., Ghose, D., Tamuli, P., Pradhan, S., "Analysis of efficiency of Solar PV module with the variation of Temperature and Irradiation Level in SMIT, Sikkim", **International Journal on Advanced Electrical and Computer Engineering (IJAECE)**, ISSN (Online): 2349-9338, ISSN (Print): 2349-932X Volume-5, Issue-2-3, pp76-79, 2018.
- Prakash, S., Singh, A. K., "Harmonic Analysis of Five Level Inverter", **International Journal on Advanced Electrical and Computer Engineering (IJAECE)**, ISSN (Online): 2349-9338, ISSN (Print): Volume-5, Issue-2-3, pp-86-88, 2018.
- Karki, R., Keshav, R., Pradhan, K. R., Kumar, R., "A Review on Solar MPPT Techniques", **International Journal on Advanced Electrical and Computer Engineering (IJAECE)**, ISSN(Online): 2349-9338, ISSN(Print): 2349-932X Volume -5, Issue -2-3, pp. 71-75, 2018.
- Pradhan, R., Shabbiruddin, "Speed Control of DC Motor Using Fuzzy Logic Control and Simulink", **International Journal on Advanced Electrical and Computer Engineering (IJAECE)**, Vol. 5, Issue 2-3, pp 55-58, 2018.
- Ghose D., "Analysis of Solar Capacity for West Bengal (I) using Q- GIS", **3rd Regional Science & Technology Congress, 2018.**

Faculty Achievement:

- **Focus Area Science Technology Summer Fellowship [FAST-SF] - 2018**
Selected and successfully completed **Focus Area Science Technology Summer Fellowship [FAST-SF] -2018** offered by Inter Academy Panel [Indian Academy of Sciences, Bengaluru, Indian National Science Academy, New Delhi and The National Academy of Sciences, India, Allahabad] (**Teacher category**) at **Indian Institute of Engineering Science and Technology (IIST), Shibpur.**
Project Title: Movement Intentions Detection and Classification using EEG Signals
Duration: 56 days (23rd May 2018 - 17th July 2018)

Guide/Institution: Prof. Subhasis Bhaumik, Head, School of Mechatronics and Robotics and Professor, Department of Aerospace Engineering and Applied Mechanics, Indian Institute of Engineering Science and Technology, Shibpur-711103

- **Project under Endowment Fund**

Name: Dr. Ramdas Pai & Mrs. Vasanthi Pai
Endowment Fund (Year 2017-2018)

Project Title: Development and Validation of a device protocol to measure degrees of freedom using inertial sensors.

Seed Grant: Rs. 25,000

Principal Investigator: Dr. Saumen Gupta, SMCPT, SMU

Co- Investigator: Mr. Akash Kr. Bhoi, Mr. Bijay Rai and Dr. C. T. Singh, SMIT, SMU.

Ongoing Research Project details:

- SEED grant Endowment fund (2018-19) granted for the project of Mrs. Chitrangada Roy and Mr. Anirban Sengupta on "Wireless electricity transfer".

Student's Activities:

- **Activity: SEED School**
Started on 24th September, 2018
Short report: SEED School is an open resource free of cost school to provide education to local students in and around Majitar. Students from SMIT voluntarily take up the role of teachers to teach children.
- **Event: Workshop on Practical Aspects of Electrical Engineering**
Duration: 19th - 21st September, 2018.
Short report: A three days workshop on "Practical Aspects of Electrical Engineering" was organized by SEED from the 19th to 21st of September, 2018 for the 1st year students of 2018 batch. Beautifully coordinated amongst the students as well as the faculty members of EEE, the workshop attracted over 70 participants through the span of three days. Students, after a brief induction by Mr. Nasir Ansari (HOD, EEE), were divided in groups. Each group was escorted by the senior students and the faculty members into the various laboratories, namely; the Electrical Machines lab, the Power systems lab, the Microprocessor Lab, the Advanced Programming Lab, the Control Systems

lab, the Electrical Circuits Lab, the Power Electronics lab and the Basic Electronics lab where they were shown the working of instruments in the laboratories and the basic theory of the machinery used. Students involved in practical making of simple circuits like rectifiers, and with the help of our wonderful faculty, they explored into the larger world of electricity, being told about robotics, arduino applications and advanced electrical applications to name a few. It was very interesting among the first year students. They were excited and happy about the events. On the last day, each of them was awarded with a certificate by Mr. Nasir Ansari and Dr. Moumi Pandit for their active participation.

- **Activity:** Paper drive and collection of clothes to raise fund by SEED students.

Date: 11th August, 2018.

Short report: On 11th August, 2018 the department of SEED conducted the program at the Faculty quarter, SMIT, Majitar. It started from 9:00 am in the morning till 1:00 in the afternoon where there were 14 students from 2nd, 3rd and 4th year along with faculty members of Electrical and Electronics department. This was a fundraiser program whose benefits have been given to the kids of Spastic Society of Sikkim situated in Gangtok. The papers collected were sold to the shopkeepers and some were sold to a place where papers are recycled in the nearby town. The amount collected from it have been used to buy study tables, chairs, three water dispenser of 16 litres, each for the children of Spastic Society. Many clothes have been collected which were later organized according to the age groups of the children and also the quality of the clothes was checked.

- **Activity:** Visit to Spastic Society of Sikkim by SEED students.

Date: 23rd September, 2018

Short report: On 23rd September, 2018 few students of SEED council have visited Spastic Society of Sikkim situated in Gangtok, to give them all the necessities collected and bought for them. The contributed items are: Study tables, Chairs, three water dispensers of 16 litres each and clothes.

- **Activity:** Unveiling of Department Wall Magazine "Dishari"

Date: 03rd October, 2018

Short report: Dishari is the annual wall magazine

of EEE department. A beautiful initiative by the SEED, Dishari has always been a means to inspire both the creative and co-curricular side of the students. This year, the Dishari board got lit up with the basic theme of "Tech Talkies 2018". As the theme suggests, advancement in technologies in a variegated independent range of fields, ranging from the latest model S Tesla car to NASA's Parker Solar Probe, the upcoming one plus 6T android phone, synthetic blood discoveries and numerous more were displayed beautifully on the board.

- **Workshop: Application of MATLAB in Electrical and Electronics Engineering**

Date: 08th February, 2019

- **Workshop: Practical Aspects of Electrical Engineering**

Date: 22nd to 25th February, 2019

New Initiatives:

- Faculties are applying for different projects.
- New sets of experiments are incorporated in different labs.
- GATE coaching class will be conducted for the higher semester students.

Placement Record:

Electrical & Electronics Engg. Department	
Batch	2015-2019
Eligible & Interested Students	23
Total No. of Job Offers	21
Robert Bosch	2
Bid Ocean	2
LT Elevators	3
AGS India Pvt. Ltd	1
Wipro	1
Genesys	9
Think & Learn	3



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



Number of Faculty Members: 27

Names of Faculty Members:

- Prof. (Dr.) Sourav Dhar (HoD)
- Prof. (Dr.) Rabindranath Bera
- Prof. (Dr.) Prashanta Chandra Pradhan
- Mr. Om Prakash Singh
- Dr. Hemanta Saikia
- Dr. Amrita Biswas
- Dr. Bikash Sharma
- Mr. Jayanta Kumar Baruah
- Dr. Tanushree Bose
- Mr. Kushal Pokhrel
- Dr. Swarup Sarkar
- Dr. Nitai Paitya
- Dr. Swastika Chakraborty
- Dr. Barnali Dey
- Dr. Dipanjan Bhattacharjee
- Mr. Samarendra Nath Sur
- Mr. Debjyoti Ghosh
- Mr. Nirmal Rai
- Mr. Himanshu Paul
- Mr. Amit Agarwal
- Mr. Arun Kr. Singh
- Mr. Jitendra Singh Tamang
- Ms. Sayantani Roy
- Ms. Rijhi Dey

- Mr. Saumya Das
- Mr. Rochan Banstola
- Mr. Suman Das

Number of Non Teaching Staffs (Technical): 07

Names of Non Teaching Staffs (Technical):

- Mr. Gautam Saha
- Mr. Dhruva Pradhan
- Mr. Santosh Kumar Das
- Ms. Sushma 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 2018) on 3rd & 4th of June, 2018, technically sponsored by IEEE,

Publications sponsored by Springer. Total number of submitted papers were 152 and 64 papers were accepted and published.

- An Invited Talk on “Radiation Hazards of Electromagnetic Waves” by Dr. MonojitMitra (Professor & Head, Department of Electronics & Tele Communications, Indian Institute of Engineering Science and Technology, Shibpur) was delivered on 21st of September, 2018.
- Two Days Workshop on Advanced VLSI Design was conducted by the Deptt. for the 6th Semester Students on 4th & 6th of February, 2019.
- One Day PCB Designing workshop was conducted by the Junior Engineers of the Department for the 4th Semester studentson 12th February, 2019.
- One Day Training Program of Flying Quadcopter “DRONE” by the Dept. for the students was conducted on 26th of January, 2019.
- One Day Workshop on EMW and Its Application was conducted by the department on 1st March, 2019 for the above average students of 4th & 6th Semester.
- Two Days Workshop on IoT & 5G Technologies conducted by the Dept. for all the students on 26th & 27th March, 2019.
- Prasad, B., Kumar, S., Tamang, J. S., “Development of an Electronic Guide Stick and Roving Vehicle Using Wire Guidance Technology”, **International Journal on Advanced Electrical and Computer Engineering**, Vol. 5, Issue 2-3, pp 93-95, 2018.
- Das, S., Islam, H. and Bose, T., “Compact low profile body worn and wrist worn lightweight antenna for ISM and GPS band navigation and medical applications”, **Microwave and Optical Technology Letters**, Wiley, Vol. 60, Issue 19, pp2122-2127, September 2018.
- Das, S., Islam, H., Bose, T., Gupta, N., “ Coplanar waveguide fed stacked dielectric resonator antenna on safety helmet for rescue workers”, **Microwave and Optical Technology Letters**, Vol. 61, Issue 2, pp 498-502, December 2018.
- Pal, H., Bhubna, S., Kumar, P., Mahapatra, R., Chatterjee, S. “Synthesis of Flexible Graphene/Polymer Composites for Super-capacitor Applications”, **Journal of Materials Engineering and Performance**, Vol. 27, Issue 6, pp 2668-2672, June 2018.
- Dey, B., Hossain, A., Dey, R., Bera, R., “Integrated Blind Signal Separation and Neural Network Based Energy Detector Architecture”, **Wireless Personal Communications**, Springer Nature, pp 1-19, 16th November, 2018.
- Sarkar, S., “Fabrication of multilayer 3D MEMS device for optimizing piezoelectric field thermal effect on cancer cell nanoporation”, **Journal of Bionano Science**, Vol. 12, pp 357-363, 2018
- Sarkar, S., “Role of irreversible nano electroporation on the A549 epithelial cancer cell”, **Journal of Bionano Science**, Vol. 12, Issue 6, pp 608-615, 2018.
- Prasad, J., Agarwal, A., Pradhan, P. C., Swain, B. P., “Analytical modeling of surface potential for cylindrical gate all around in as nanowire FET”, **International Journal on Advanced Electrical and Computer Engineering**, Vol. 5, Issue 2-3, March, 2018
- Singh, O. P., Sinha, R., “Sparse coding of i-vector/JFA latent vector over ensemble dictionaries for language identification systems”, **International Journal of Speech Technology**, Vol. 21, pp 435-450, 2018
- Bhaskar, D., Bera, R., Bera, S., Chettri, P., Shome, S. “IoT Smart Radio Control of SMIT Street Lights”, **International Journal on Advanced Electrical and Computer Engineering**, Vol. 5, Issue 2-3, 2018
- Anand, H., Chunchala, S., P., Kumar, S. V. and Bera, S., “Realization of CDMA system”, **International Journal on Advanced Electrical and**

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

- Narayan, H., Dey R., "A heartbeat detection method based on IOT and monitoring system using Arduino UNO and thing-speak", **International Journal of Electronics, Communication & Instrumentation Engineering Research and Development**, Vol. 8, Issue 3, pp 11-16, August 2018.
- Dutta, N., Acharya, K., Dey, R., “Design and Implementation of a Cyclic Analog to Digital Converter Architecture using Variable Range Flash ADC”, **International Journal on Advanced Electrical and Computer Engineering (IJAECE)**, Vol. 5, Issue 2-3, pp 1-3, 2018.
- Singh, A. K., Bera, R., Maji, B. And Gurung R., “Microstrip Patch Antenna towards Future of Communication” **Indian Journal of Science and Technology**, Vol. 12(3), pp 1-5, January 2019.
- Tamang, J. S., Prasad, B., Jha, S. K., “Development of Point To Point Laser Communication Model”, **International Journal on Advanced Electrical and Computer Engineering**, Vol. 5, Issue 2-3, pp.89-92, 2018.

Computer Engineering (IJAECE), Vol. 5, Issue 2-3, pp. 69-70, 2018

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

- Dutta, R., Paitya, N., "Effect of pocket intrinsic doping on double and triple gate tunnel effect transistors", ICCDC, 2019
- Dutta, R., Paitya, N., "Influence of gate and channel engineering on multi gate tunnel FETs: A review", ICCACCS 2018
- Bera, D., Chandra, A., Sur, S. N., Singh A. K., "Implementation and analysis of Spectrum Sensing using Energy Detection Method", ICCDN 2nd - 3rd June, 2018
- Daimary, Z. Z., Sur, S. N., "BER Analysis for Lattice Reduction Aided MIMO Receiver", ICCDN, 2nd - 3rd June, 2018
- Shome, S., Sur, S. N., Bera, S., Bera, R., Maji, B., "Design of Phased MIMO Radar and Its Performance Analysis Based on Different Beamforming Algorithms", ICCDN 2-3 June, 2018
- Priya, A., Sur, S. N., Bera, S., "LabVIEW-Based Software and Hardware Implementation of 16-QAM Modem", ICCDN, 2nd - 3rd June, 2018
- Sur, S. N., Bera, R., Maji, B., "Phased-MIMO Radar in Low SNR Regime", ICCDN, 2nd - 3rd June, 2018
- Singh, A. K., Bera, R., Maji, B., Gurung R., "Gain enhancement in Microstrip Patch using different Array Configuration" ICCDN, 2nd - 3rd June, 2018
- Baruah, J. K., Kumar, A., Bera, R., Dhar S., "Autonomous Vehicle - A Miniaturized Prototype Development", ICCDN, 2nd - 3rd June, 2018
- Thapa, A., Sarkar, C. K., Sharma, B., "Stability Performance comparison of a MTJ memory device using low-dimensional HfO₂, Al₂O₃, La₂O₃ and h-BN as composite dielectric." IEEE EDKCON 2018 (24th - 25th November, 2018)
- Chakrabarty, S., "Smart fertilizer Dispensary for Automated Drip Irrigation", 3rd IEEE international conference on Recent Trends in Electronics, Information & Communication Technology (RVEICT-2018)
- Ghosh, R., Das, S., Dhar, S., "Expert system for green IOT: A survey", 3rd Regional Science & Technology Congress, 12th - 13th December, 2018
- Gupta, M. K., Akhtar, N., Dhar, S., "Mobile cloud computing: A case study", 3rd Regional science & Technology Congress, 12th - 13th December, 2018
- Singh, O. P., Sinha, R., "Sparse coding of bottleneck features based I vector representation for language recognition", ICCDN, 2nd - 3rd June, 2018

Faculty Achievement:

- Mr. Samarendra Nath Sur got "Certificate of outstanding contribution" in reviewing for the month of June 2018 for the Elsevier journal ADHOC Networks".
- Dr. Swarup Sarkar published a book on "Impact of electric field on nanoporation" IRA publication, July 2018.
- Dr. Swarup Sarkar published a book on "Microelectronics mechanical system for cellular nanoporation", Lambert publication, December, 2018.
- Dr. Swarup Sarkar has been invited as a speaker at 4th World Congress and Expo on Immunology (Immunology Congress -2019) to be held in Dubai on 11th - 12th October, 2019.
- Dr. Swarup Sarkar became Scientific Adviser and Organizing Committee Member in 3rd International Conference on Applied Physics and Mathematics" scheduled to be held during 29th - 30th July, 2019 at Bangkok, Thailand
- Mr. Himangshu Pal received the "Faculty of the month of October, 2018 Award" from SMIT.
- Mr. Himangshu Pal received Team Excellence Award from SMU.
- Mr. Himangshu Pal got Excellence in teaching Award, 2018 from SMU.
- Dr. Nitai Paitya served as a Session Chair of ICACCP 2019 of track no. 9.
- Dr. Bikash Sharma got 2017-18 Albert Nelson Marquis Lifetime Achievement Award, USA.
- Dr. Dipanjan Bhattacharjee guided the students for Engineering Fair 2019, held in Kolkata and won special prize.
- Dr. Swastika Chakraborty won IEEE Grand Challenge Award.
- Dr. P. C. Pradhan is reviewing a Ph.D thesis "Modeling and simulation of efficient Nanoscale MOSFET and photovoltaic Devices".
- Mr. Saumya Das got the faculty of the month, August, 2018 award from SMIT.
- Mr. Saumya Das got Team Excellence Award from SMU.

- Mr. Saumya Das got Excellence in teaching Award, 2018 from SMU.
- Mr. Suman Das became a reviewer of IEEE Electron Device letters.

Ongoing research project details:

- Mr. Samarendra Nath Sur as PI: "Feasibility Study of Radiometric Passive Sensor Development", Ramdas Pai & Mrs. Vasanthi Pai Endowment Fund, October, 2018 – September, 2019, Rs.50,000/- (Rupees Fifty Thousand).
- Mr. Himangshu Pal as PI: "An Integrated System Design for Energy Generation to Drive a Flat Panel Display" starting 29th March, 2018, Grant approved Rs. 37,000/- (Rupees Thirty Seven Thousand)
- Mr. Himangshu Pal as PI: "Flexible/Wearable, High Efficient Cost-Effective Li-ion Pouch Cell", starting 11th April, 2018, Grant approved Rs. 50,000/- (Rupees Fifty Thousand).
- Mr. Himangshu Pal as PI: "Hand Gesture Controlled Smart Wheel Chair Using Microcontroller" starting 29th March, 2018, Grant approved Rs. 40,000/- (Rupees Forty Thousand).
- Dr. Swastika Chakraborty as PI: "Experimental Studies on Tropospheric Scintillation and Associated Rain Attenuation for SATCOM Links over North Eastern India (Sikkim) at Ku/Ka Band" starting 8th January, 2019 (3 years), Rs. 17.5 Lakhs.
- Dr. Swastika Chakraborty as PI: "Real Time Monitoring and Assessment of Dynamic Changes of Shako Cho Glacial Lake in Eastern Himalaya", June, 2018-December, 2019, 6000(USD).
- Dr. Rabindranath Bera as PI: "5G based Wireless IoT", Dr. Ramdas Pai & Mrs. Vasanthi Pai Endowment Fund SMU, November, 2016-November, 2019, Rs.50 Lacs

Student's Activities:

ECSA (Electronics & Communication Students Association) is a society set up with an intention to provide a platform to the students as well as faculty members to showcase their potentials in cultural, sports, academics and other extra-curricular activities. ECSA is known for creating platforms for students to hone their technical skills. In particular, ECSA conducts student run workshops by third year and second year students respectively. These workshops provide students an opportunity to experience teaching as well as the participants a brilliant learning opportunity to

learn and grow in a supportive technology driven environment. Some of the workshops that are conducted by our students are:

- **Basic Electronics Workshop:**

A workshop conducted by the second year students for the first year students from all departments attracting them and giving them a sneak peek into the progressive world of Electronics and Communication Engineering. It comes as a huge opportunity for second year students to showcase their projects as well as hone their presentation, teaching and technical skills. It was conducted on 19th of September, 2018.

- **Digital Electronics Workshop:**

A major part of Electronics is the Digital Electronics. It is a foundational course for any aspiring computer or electronics engineer. This workshop was conducted by the third year students for the first year students from various departments. It was conducted on 20th of September, 2018.

- **Instrumentation & Measurement Workshop:**

In industries, now-a-days Instrumentation & Measurement play a vital role. It is the most significant area for the Electronic Engineers too. Electronic instruments like Strain gauge, Wheatstone bridge, capacitive sensor, crystal oscillator, and relay were the highlights of this workshop. The workshop was conducted on 18th of September, 2018.

- **Microprocessor & Arduino Workshop:**

It is one of the best hardware prototyping platforms. It is an open source and is addicting for hobbyists & engineers. Our department students organized a one day workshop for students of first and second year. It received high participation from different departments. It was organized on 25th of September, 2018.

- **Basic Communication Workshop:**

Communication Engineering is a major part of E&C Engineering. It is a foundational course for any aspiring E& C engineer. This workshop was conducted by the third year students for the first year and the second year students from various departments, demonstrating various experiments and introducing various equipments used in the field. It was held on 26th of September, 2018.

- **MULTISIM Workshop:**
NI Multisim is an electronic schematic capture and simulation program which is part of a suite of circuit design programs, along with NI Ultiboard. Multisim is one of the few circuit design programs to employ the original Berkeley SPICE based software simulation. It is one of the basic tools needs to be learned by the department students and thus this workshop was organized on 11th of February, 2019.
- **MATLAB & SIMULINK Workshop:**
One of the best mathematical modeling tools that engineers use, both in the field as well as in the classroom is the MATLAB. Our department students conducted this workshop on 12th of February, 2019.
- **Logo Designing Competition:**
As the Dept. wanted to have an official logo, ECSA took the initiative to conduct an Inter-Department Logo Designing Competition on 27th of February, 2019.

SOCIAL CAMPAIGNS:

ECSA conducts various social drives throughout the year. Some of them are:

- **News Paper Drive:** Old newspapers were collected and sold. The money collected is donated to a local school. It was held on 26th January, 2019.
- **Old Clothes Donation Drive:** Old cloths of faculty and students were collected and sold. The money collected was donated to a local school. It was held on 26th January, 2019.
- **Blood Donation Camp:** On 30th of September, 2018 ECSA organized a blood donation camp in collaboration with the CRH, Gangtok. Around 10 Staffs from CRH Gangtok and more than 70 Participants donated blood and made the campaign successful.
- Five students from the Department won special award at Science and Engineering fair held in Kolkata on 9th January, 2019 for their innovative projects on smart embedded systems. The five days technical fair was organized by Birla Industrial and Technological Museum under National Council of Science Museum, Ministry of Culture, Govt. of India.
- Mr. Nishant Gupta won awards in the events held at IIT Guwahati & IIT Kharagpur in the month of January, 2019.

New Initiatives:

- **Industrial Visit at NHPC, Teesta V, Singtam:** On 23rd February, 2019, E&C Dept. was successful

enough to make their students a bit more skillful by making the first Industrial visit of the year to NHPC, Balutar Singtam.

The Industrial Visit was made possible by 57 no. of 6th Semester Students accompanied 4 E& C Department Faculty Members. The experience of the NHPC visit was very fruitful to the students as well as to the Faculty Members.

- **Gate Coaching:** Graduate Aptitude Test in Engineering (GATE) is an all-India examination being conducted and administered by the Indian Institute of Science and seven Indian Institutes of Technology. In the present competitive scenario, where there is mushrooming of universities and engineering colleges, the only yardstick to measure and test the caliber of engineering students is the GATE. Joining a coaching institute is beneficial as students would be exposed to a regular systematic study. Thus, keeping in mind these significances, the Faculty Members of the ECE department have taken an initiative in the month of February, 2019 to nurture the minds of the 4th and 6th Semester students by giving them lectures on specialized subjects.
- With active initiative of the department, IEEE GRSS Student Chapter has been formed in SMIT
- 10 faculties from the department, with complete support of the institute, presented proposals for research funding under the RPS-NER scheme in AICTE office, New Delhi in an attempt to enrich the department and the institute.

Placement:

Eligible candidate: 34

Company Name	Job offered
IXIA	1
WELLS FARGO	2
BOSCH	3
WIPRO	2
TCS	2
KEROS	1
Web Skitters	4
BID OCEAN	6
INFOSYS	5
THINK & LEARN	5
GENESYS	15
AGS	1
LTE	1
COMPUTRONICS	4
ERICSSON	8
TOTAL	60

DEPARTMENT OF INFORMATION TECHNOLOGY



Number 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
- Dr. Rustam Ali Ahmed
- 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 Conference/ Workshop/ Seminar/ CME conducted by the Department:

- One Day Seminar on Current Research and Industry Trends in Robotics was organized jointly by Department of Information Technology & Department of Mechanical Engineering on 5th November, 2018.

- 3rd National Conference on Communication, Cloud, and Big Data (CCB) 2018 was organized by Department of Information Technology, SMIT during 8th to 9th of November 2018.

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

International Journal:

- Dutta, N., Sarma, H. K. D., "A Scheme for Dynamic MAP Selection in HMIPv6", **Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, Springer**, ISSN: 0369-8203 (print version), 2250-1762 (electronic version), (SCIE), IF: 0.725 (Springer Journal) 2019.
- Sharma, V, Chutia, D., Baruah, D., Goswami J., Baruah U, Raju P. L. N., "enSVM: A classification framework using ensemble of SVMs" **Journal of Geomatics**, Vol. 12, Issue 2, ISSN:0976-1330, pp 183-189 (October, 2018)

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

- Sarma, H. K. D., "Secure Multimedia Communication over Mobile Ad-hoc Networks", **Proc. of IEEE PDGC**, held at Jaypee University, Solan, India, during 20th - 22nd December, 2018.
- Chakraborty, S., Islam, R., Sarma, H. K. D., "An approach towards modeling of Pattern Similarity in Music using Statistical Measures", **Proc. of IEEE PDGC**, held at Jaypee University, Solan, India, during 20th - 22nd December, 2018.

Faculty Achievement:

- Rustam Ali Ahmed has completed his Ph.D from Tezpur University in December, 2018.

Students' Activities:

- Technical Discussion on Pointers and Structures using C was organized by 4th Semester (2nd year) students for 1st year and 2nd year students on 10 January 2019.
- Technical Discussion on Data Encapsulation, Inheritance and Polymorphism using C++ was organized by 6th Semester (3rd year) students for 1st year and 2nd year students on 16th January, 2019.
- A hands on session on the Basics of C++ was organized by 6th Semester (3rd year) students for 1st year and 2nd year students on 23rd of January, 2019.
- 3rd Year, B. Sc. IT student, Pallav Das participated in multiple dance competitions at Spring Fest, IIT Kharagpur, 2019.

- 3rd Year student, Suave Thapa participated in Spring Fest, IIT Kharagpur, 2019 in dance competition and Brand D competition.

Placement Record:

Company	No. of Students
MICROSOFT	1
WIPRO	1
BOSTON SCIENTIFIC	1
INFOSYS	1
BID OCEAN	2
AGS	2
Total	8



DEPARTMENT OF MANAGEMENT STUDIES



Number of Faculty Members: 11

Names of Faculty Members:

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

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:

- MDP on 'Stress Management' was conducted by Prof. (Dr.) Ajeya Jha for Industry Executives / Managers at SMIT on 24th July, 2018.
- Workshop on "Consumer Protection Right" was organized for Management Students on 26th September, 2018. The Session was conducted by Mr. Arun Saxena, President, International Consumer Forum.

- Workshop on "MS Excel" was conducted for Trainee Officers of Teesta Urja Ltd. (North Sikkim) by Mr. Saibal Kr. Saha on 8th November, 2018.
- Workshop on "Motivation" was conducted for Trainee Officers of Teesta Urja Ltd. (North Sikkim) by Prof. (Dr.) Ajeya Jha on 12th November, 2018.
- Training Programme on "Personal Growth" was conducted by Prof. (Dr.) A. Jha at Zydus Health Care Ltd., Sikkim on 7th February, 2019.
- Training Programme on "Team Building" was conducted by Prof. (Dr.) A. Jha at NHPC, Singtam, Sikkim on 25th February, 2019.
- Dr. Bedanta Bora organized an Alumni Interaction & Orientation Session on Recent HR Practices in Industry at SMIT on 5th March, 2019. The session was addressed by Head-HR, Zydus Health Care Ltd, Sikkim.
- Dr. Bedanta Bora organized an "Orientation Seminar on Recent Trend & Practices in Capital Market" at Seminar Hall, SMIT on 12th March, 2019. The session was conducted by Mr. N. Shinde, NISM, Mumbai.

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

International Journal:

- Saha, S.K. and Jha, A., "Role of Information Technology on Supply Chain Management of Pharmaceutical Industry", *International Journal of Applied Logistics*, Vol. 8, Issue 2, pp 39 – 68, 2018

- Saha, S. K., "Consumers' Perspective on Cab Services in Guwahati", **Business and Economics Journal**, Vol. 9, Issue 3, 2018
- Bora, B., Borah, S. and Chungyalpa, W., "CT Assessment Framework: A generic Framework for Assessing and Prioritizing Impact of Technology on Businesses", **International Journal of Applied Business and Economic Research (IJABER)** (Scopus Indexed), Vol. 16, Issue 3, pp 665-676, 2018
- Pandey, J. R., Jha, A., Mukherjee, S. K. and Saha, S. K., "An Empirical Note on Comparative Perceptions of Indian Patients and Physicians in Direct-to-Consumer Promotion of Pharmaceutical Products", **Dynamic Perspectives on Globalization and Sustainable Business in Asia** (Book Chapter), pp 128-, 2019
- Pandey, J. R., Jha, A. and Saha, S. K., "Impact of Manipulative Character of Direct-to-Consumer Promotion", **Dynamic Perspectives on Globalization and Sustainable Business in Asia** (Book Chapter), pp 198-11, 2019.
- Sarkar, A, Jha, A. and Mukherjee, D., "Trucker Value Perception and Manufacturer Value Offering in Indian Truck Market: Business Model through Value Perspective", **Dynamic Perspectives on Globalization and Sustainable Business in Asia** (Book Chapter 6), 2019.
- Rai, R., Sharma, N. D., Jha, A., & Pradhan, B. B., "Influence of Socio-Environment Factors towards acceptance of Renewable Energy Products", **Global Business and Finance Review** (Scopus Indexed), Vol. 24, Issue 01, 2019.

National Journal:

- Sarkar, A., Jha, A. and Mukherjee, D. "Rise in Sales of Multi Axle Trucks in India: Governmental Initiatives, Industrial Development, and Operator Preferences", **Indian Journal of Marketing** (Scopus Indexed), Vol 7, Issue 22, pp 7-22, 2018
- Saha, S. K., "Adventure Tourism in Meghalaya" **Journal of Tourism & Hospitality**, Volume 7, Issue 2, 2018.
- Bora, B. and Adhikary, A. Upadhyay, H. and Das, S., "Journal of Science, Technology and Management, MACFAST Publication, Kerala", **Re-inforcing Sales Force Performance - A Few Artistic Practices**, Volume 11, Issue 2, pp 154-160, 2018.

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

- Bora, B., Adhikary, A., Jha, A. and Sharma, N. D., "Make-in-India Revolution' and 'Patanjali Herbal' - A

Case Review of an Indigenous Entrepreneurship", **International Conference on Global Trends in Management, Economics, Commerce and Legal Studies**, Thailand-2018", AIT, Bangkok, Thailand, Nov, pp 52-53,, 2018

Faculty Achievement:

- Mr. Saibal Kr. Saha reviewed a paper titled "Innovation and Sustainability within the Argentinean Health System" for Scifed Journal of PublicHealth during April, 2018.
- Workshop on 'MS Excel' was conducted by Mr. Saibal Kr. Saha & Mr. Samrat Kr. Mukherjee for MBA IV Semester Students on 12th April, 2018.
- Mr. Saibal Kr. Saha reviewed a paper titled "Approach based on Holistic Model in General Medicine and Public Health" for Scifed Journal of PublicHealth during May, 2018.
- Dr. Bedanta Bora was an International Committee Member for "World Conference on Business and Management (WCBM- 2018)" held in Jeju Island, Korea, June, 2018.
- Dr. Bedanta Bora reviewed a paper titled "The Role of Job-esteem between Psychological Ownership and Organizational Identification of Hotel Employees" published in Global Business and Finance Review (Scopus Indexed), Seoul, South Korea, during August, 2018.
- Mr. Saibal Kr. Saha and Mr. Samrat Kr. Mukherjee attended Workshops on "Research Paper Writing, Indexing and Policy" conducted by R&D unit of SMIT on 9th August, 2018.
- Mr. Saibal Kr. Saha attended Workshop on "How to get Research Funding Project" R&D unit of SMIT on 10th August, 2018.
- Mr. Abhijit Sarkar, Mr. Saibal Kr. Saha and Mr. Samrat Kr. Mukherjee attended Workshop on Data Analytics Using R Programming" conducted jointly by E&ICT Academy, IIT Guwahati and Department of Computer Science Engineering, SMIT on 30th August - 1st September, 2018.
- Prof. (Dr.) A. Jha was invited as Guest Faculty for Residential Training Programme on 'RTI Problems, Issues and Challenges and CIC/SIC Judgment and Modern Management' organized by National Productivity Council at Gangtok, East-Sikkim on 17th - 21st September, 2018.
- Dr. Bedanta Bora participated in International Conference on Global Trends in Management,

- Economics, Commerce and Legal Studies, Thailand-2018 held at Asian Institute of Technology, Bangkok, Thailand, November, 2018.
- Dr. Bedanta Bora delivered a talk as Invited Speaker and served as a Rapporteur at "International Conference on Global Trends in Management, Economics, Commerce and Legal Studies, Thailand-2018" held at Asian Institute of Technology, Bangkok, Thailand, November, 2018.
 - Dr. Bedanta Bora was honored with a Best Paper award at "International Conference on Global Trends in Management, Economics, Commerce and Legal Studies, Thailand-2018" held at Asian Institute of Technology, Bangkok, Thailand, November, 2018.
 - Dr. Bedanta Bora reviewed a paper titled "Antecedents and Consequence of Frontline Employees' Commitment to Service Quality in Hotels: Proactivity, Organizational Learning Culture, Empowerment, and Job Efficacy" published in Global Business and Finance Review (Scopus Indexed), Seoul, South Korea, during November, 2018.
 - Prof. (Dr.) Ajeya Jha conducted a 4-day Workshop on Communication at Pt. Ravishankar Shukla University, Raipur, Chhattisgarh on 24th - 27th December, 2018.
 - One day Workshop on "Team Building" was conducted by Prof. (Dr.) Ajeya Jha and Dr. Jaya Rani Pandey for BBA -II Year Students on 10th January, 2019.
 - Prof. Dr. Ajeya Jha, Mr. Saibal Kr. Saha and Mr. Samrat Kr. Mukherjee attended Workshops on "Mendeley - Reference Management Software & Researcher Network" conducted by R&D unit of SMIT on 22nd January, 2019.
 - Mr. Saibal Kr. Saha attended the Workshop on "LaTeX - A Document Preparation System" on 25th January, 2019
 - Mr. Abhijit Sarkar participated in a Panel Discussion on "Opportunity, Challenges and Way Forward" organized by Confederation Indian Industries (CII) on 12th February, 2019 held at Gangtok East-Sikkim.
 - Dr. J. Kumar has participated in SMILE 3 (Phase-2) Training held on 19th & 20th February, 2019 at SMU, Gangtok.
 - Mr. Samrat Kr. Mukherjee reviewed a paper titled "Development of a Crowd Sourcing Multiagent System for Knowledge Extraction" from International Journal of e-collaboration (IJeC), Web of Science and Scopus indexed during February, 2019.
 - Mr. Samrat Kr. Mukherjee has completed an online course in Coursera "Market Research and Consumer Behavior" offered by IE Business School during February, 2019.
 - Dr. Jitendra Kumar has completed 5 weeks online course in Coursera on "Financial Accounting Fundamentals" offered by University of Virginia during February, 2019
 - Mr. Saibal Kr. Saha has completed an online course in Coursera - "Essentials of Entrepreneurship: Thinking & Action" during February, 2019.
 - Prof. (Dr.) Anindita Adhikary reviewed a paper titled "Acceptance of Mobile Payments among Middle-Aged People- A Comparative Study" for International Journal of Asian Business and Information Management (IJABIM) (Scopus Indexed) during February, 2019.
 - Mr. Saibal Kr. Saha has completed an online course in Coursera - "Quantitative Research" on 8th March, 2019.
 - Prof. (Dr.) Anindita Adhikary has completed an online course in Coursera - "Introduction in Financial Management" on 8th March, 2019.
 - Mr. Samrat Kr. Mukherjee was a resource person for the workshop on "Mendeley Desktop" organized by R&D unit of SMIT on 9th March, 2019.
 - Dr. N. D. Sharma participated at 6th International Management Conference on "Regional Rural Banks in India: Growth, Problems and Prospects" held at Kathmandu, Nepal on 13th March, 2019.
 - Dr. Jitendra Kumar has completed an online course in Coursera on "Understanding Financial Statements: Company Performance" on 14th March 2019.
 - Dr. Jaya Rani reviewed a paper on "Dynamic Relationship between Stock Market Sector Indices and Macroeconomic Variables in India" for 'International Journal of Applied Management Theory and Research' (IJAMTR) on 19th March, 2019. (Scopus Indexed).

Ongoing Research Project details:

- Project Title: Research Study on Time & Work Study for PR Functionaries in India
Sanctioned by : National Institute of Rural Development & Panchyati Raj, Govt of India
Sanctioned Amount Rs. 6,84,400
Principal Investigator: Prof. (Dr.) Ajeya Jha

Students' Activities:

Curricular:

- Industrial Visit was organized for MBA and BBA 1st Years Students to Mayfair Resort, Gangtok, Sikkim on 24th and 25th January, 2019.
- Industrial Visit was organized for BBA 3rd Year Students to SBL, Majitar, Sikkim on 4th February, 2019.
- Industrial Visit was organized for MBA 1st Years Students to Torrent Pharmaceuticals, Baghey Khola, Sikkim on 7th February, 2019.
- Mr. Saibal Kr. Saha has introduced the concept of Coursera Courses for students. He showed a Demo Lecture of a course in B.Tech Semester II (Sec F and J), BBA Sem II, BCA Sem VI and MBA Sem IV on 8th February, 2019.
- Role Playing Exercise on "CEOs and Shareholders Meet on decision related to Old Plant Relocation" was conducted by Dr. Jitendra Kumar for MBA 1st Year on 25th February, 2019.
- A Movie Show "The Circle" was organized for students of MBA-IV Semester, MBA-II Semester & BBA-VI Semester at Seminar Hall, SMIT on 12th March, 2019. (Faculty Co-ordinator - Mr. Bibeth Sharma & Dr. Jaya Rani Pandey)

Co-curricular:

- Management Students organized Farewell Party for MBA & BBA Final Year Student on 2nd May, 2018.
- A Plantation Drive for planting saplings in the campus was undertaken by the Students of Department of Management Studies on 7th August, 2018.
- Mr. Nayan Jyoti Borah (Reg. No. 201823019) students of MBA-1 Year participated in 1st Open Bench Press Competition in the heavy weight category of 75-80 kg. and won Silver Medal held in Rangpo, East Sikkim on 20th January, 2019.
- Tushar Dixit (Reg. No 201719047) a student of BBA

IIInd year has completed an online course in Coursera - "Effective Problem-Solving and Decision-Making" on 15th March, 2019.

- Mr. Mono Agarwal, (Reg. No. 201619005) a student of BBA final year won a Gold Medal for Table Tennis Competition held at ICFAI University, Gangtok, Sikkim on 28th March, 2019.
- Mr. Tuhin Limbu (Reg. No. 201823021) a student of MBA first year won a Silver Medal for Singing Competition held at ICFAI University, Gangtok, Sikkim on 28th March, 2019.

New Initiatives:

- Two days Workshop on 'Communication Skills & MS Excel' was conducted for Non Teaching Staff on 26th & 27th July, 2018 by Dr. Jaya Rani Pandey, Mr. Abhijit Sarkar, Mr. Saibal Kr. Saha, Mr. Samrat Kr. Mukherjee, and Mrs. Ankita Sarangi.

Placement Record:

Company	No. of Students
ICICI Bank	6
ICICI securities	2
Think and Learn	1
Trademints Financial Services	3
Total	12



DEPARTMENT OF MATHEMATICS



Number 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
- Mr. Yogen Ghatani
- Mr. David Raj Michael

Number of Non Teaching Staffs (Non Technical): 02

Names of Non Teaching Staffs (Non Technical):

- Mr. Santosh Chettri
- Mrs. Bina Lohar

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

- Indian National Mathematics Olympiad Training Camp (INMOTC-2019) was organized during 19th - 23rd December, 2018 at SMIT.

Details of the Paper Published by the Faculty Members in International/

International Journal:

- Chettri, P., "*Ps-ro fuzzy a-irresolute functions*" **Songklanakarinn Journal of Science Technology**, Vol. 40(5), ISSN:1055-1060, 2018.
- Yajnik, A., "*Analysis of verb frame for the Nepali Parser based on Bipartite Graph*" **International Journal of Mind, Brain & Cognition**, Vol. 9, pp 1-2, 2018
- Yajnik, A., "*ANN Based POS Tagging For Nepali Tex*", **International Journal on Natural Language Computing (IJNLC)**, Vol. 7, Issue-3, pp 13-16, 2018.
- Ali, R., Saha, A., "*Analytical Solitary Wave Solution of the Dust Ion Acoustic Waves for the Damped Forced Korteweg-de-Vries Equation in Super-thermal Plasmas*" **Zeitschrift fur Naturforschung A**, Vol. 73, Issue 2, pp 151-159, 2018.
- Tamang, J., Sarkar, K., Saha, A., "*Solitary wave solution and dynamic transition of dust ion acoustic waves in a collisional non-extensive dusty plasma with ionization effect*" **Physica A: Statistical Mechanics and its Applications**, Vol. 505, pp 18-34, ISSN-0378-4371, 2018.
- Ali, M. N., Husnine, S. M., Saha, A., Bhowmik, S. K., Dhawan, S., Ak, T., "*Exact solutions, conservation laws, bifurcation of nonlinear and super-nonlinear travelling waves for Sharma-Tasso-Olver equation*" **Nonlinear Dynamics**, DOI

- <https://doi.org/10.1007/s11071-018-4457-x> ISSN:0924-090X, 2018.
- Ak, T., Aydemir, T., Saha, A., Kara, A. H. "Propagation of nonlinear shock waves for the generalised Oskolkov equation and its dynamic motions in the presence of an external periodic perturbation" **Pramana**, Vol. 90, Issue 6, pp 78, ISSN-0304-4289, 2018.
- Das, A., Saha, A., "Dynamical survey of the dual power Zakharov-Kuznetsov-Burgers equation with external periodic perturbation" **Computers & Mathematics with Applications**, Vol. 76, I-5, pp 1174-1183, ISSN: 0898-1221, 2018.
- Das, T., Choudhury, S., Saha, A. "Effect of electron-phonon and hole-phonon collision frequencies and exchange-correlation potential on the quasiperiodic and periodic structures in quantum semiconductor plasmas" **Bulletin - Calcutta Mathematical Society**, Vol-110, Issue 2, pp 95-110, 2018.
- Rahim, A, Adnan, M, Qamar, A., Saha, A. "Nonplanar dust-acoustic waves and chaotic motions in Thomas Fermi dusty plasmas" **Physics of Plasmas**, Vol. 25, Issue 08, pp 83706, ISSN-1070-664X, 2018.
- Mandi, L., Saha, A., Chatterjee, P. "Comment on "The collision effect between dust grains and ions to the dustion acoustic waves in a dusty plasma" **Physics of Plasmas**, Vol. 25, Issue 8, pp 84701, ISSN-1070-664X, 2018.
- Saha, A., "Exact solutions, conservation laws, bifurcation of nonlinear and supernonlinear traveling waves for Sharma-Tasso-Olver equation" **Nonlinear Dynamics**, Vol. 94, Issue 3, pp 1791-1801, 2018.
- Saha, A. "Effect of q-nonextensive hot electrons on bifurcations of nonlinear and supernonlinear ion-acoustic periodic waves" **Advances in Space Research**, Vol. 63, pp 1596-1606, 2019.
- Ali, R, "Three soliton interaction and soliton turbulence in superthermal dusty plasmas" **Zeitschrift für Naturforschung A**, 2019.
- Das, R. "Fine spectrum of the upper triangular matrix $U(r,0,0,s)$ over the sequence spaces c_0 and c " **Proyecciones Journal of Mathematics**, Vol. 37, Issue 1, pp 85-101, ISSN- 0717-6279, 2018.

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

- Dr. A. Raychaudhuri presented a paper entitled "Finite Difference Method for solving Black Scholes Equation for Pricing Options" in 8th National

Conference on Wave Mechanics and Vibration organized by NIT Rourkela

Faculty Achievement:

- Dr. Asit Saha, Assistant Professor [SG] was awarded the best faculty award for the month of January, 2019.
- Dr. Asit Saha successfully completed NPTEL online course on "Integral Equations, Calculus of Variation and its Applications."
- Dr. R. Das, Mr. R. Ali and Mrs. C. Raychaudhuri successfully completed NPTEL online course on "Introduction to Abstract and Linear Algebra".
- Faculty members are given additional Institute post and responsibilities such as Additional Registrar, Institute Coordinator for Rejoined students and Head International Collaboration Cell, SMIT.

Ongoing Research Project details:

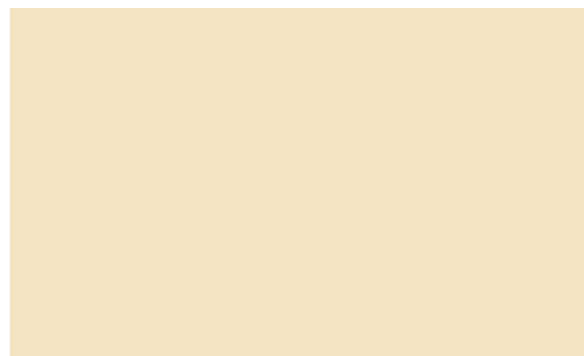
Project under Cognitive Science Research Initiative (CSRI) entitled "Study and develop a natural language parser for Nepali Language" from Govt. of India, Ministry of Science & Technology, Department of Science and Technology.

Student's Activities:

- Three M. Sc. Mathematics students of this department have passed the Ph.D. entrance examination of SMU.
- Students arranged Teacher Day Function, farewell function to the final year students and fresher's welcome to newly joined students.

New Initiatives:

- Monthly Meeting of DAC with HoD to improve the quality of teaching methodology.



DEPARTMENT OF MECHANICAL ENGINEERING



Number of Faculty Members:27

Names of Faculty Members:

- Dr. Ruben Phipon
- Dr. A. P. Tiwary
- Dr. A. K. Roy
- Dr. M. K. Roy
- Mrs. T. Y. Ladakhi
- Mr. Saurabh Sharma
- Mr. Sunny Diyaley(QIP)
- Mr. P. R. Dewan
- Mr. P. M. Pradhan
- Mr. S. K. Dey
- Mr. I. Shivakoti
- Mr. Dheeraj Kumar
- Mr. Dhruva Kumar
- Mr. Santanu Chakraborty
- Mr. Premchand Mahto
- Mr. Soham Das
- Mr. Saikat Chatterjee
- Mr. Zeeshan Mustafa
- Mr. R. K. Ghadai
- Mr. Abhinandan Baruah
- Mr. Rakesh Ranjan
- Mr. Sanjeev Kumar
- Ms. Leom Pandi Lepcha

- Mr. Partha Protim Das
- Mr. Priyank Gupta
- Mr. Amresh Kr. Sinha
- Mr. S. R. Dutta

Number of Non Teaching Staffs (Technical):04

Names of Non Teaching Staffs (Technical):

- Mr. K. B. Chettri
- Mr. Mandeep Limboo
- Ms. Rupa Lamichaney
- Mr. Avishek Pradhan

Number of Non-Teaching Staffs (Non-Technical):07

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

- Mr. Bikash Chettri
- Mr. Mohan Pradhan
- Mr. Buddha Raj Rai
- Mr. Prahlad Mondal
- Mr. Bhopal Tamang
- Mr. Saimon Rai
- Mr. Gopi Sharma

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

- Prof. Subhashis Bhowmik of IEST Shibpur has delivered a lecture on "Mechatronics System" in the month of August 2018.

- Workshop on MATLAB was conducted on 8th February, 2019
- Workshop on Mechatronics & Robotics was organized by ME and IT dept. on 5th November, 2018.
- Workshop on Automobile Engineering was conducted on 12th-13th March, 2018.

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

Internationals:

- Chakraborty, S., Chatterjee, P. and Das, P. P. "Cotton Fabric Selection Using a Grey Fuzzy Relational Analysis Approach", **Journal of The Institution of Engineers (India): Series E**, Vol.100 (1), pp 16-25 (2019)
- Das, P. P., Diyaley, S., Chakraborty, S. and Ghadai, R. K., "Multi-Objective Optimization of Wire Electro Discharge Machining (WEDM) Process Parameters Using Grey-Fuzzy Approach", **Periodica Polytechnica Mechanical Engineering**, Vol. 8(8), pp 873-884 (2019)
- Chakraborty, S. and Das, P. P., "A multivariate quality loss function approach for parametric optimization of non-traditional machining processes", **Management Science Letters**, Vol.63(1), pp 46-68 (2019)
- Shivakoti, I., Kibria, G., Pradhan, B. B., "Predictive Model and Parametric Analysis of Laser Beam Marking on Gallium Nitride Material Using Diode Pumped NDYAG Laser", **Journal of Optics and Laser Technology**, Vol. 115, pp 58-70 (2019)
- Shivakoti, I., Kibria, G., Pradhan, P. M., Pradhan, B. B., "ANFIS based Prediction and Parametric Analysis during Turning Operation of Stainless Steel", **Materials and Manufacturing Processes**, Vol. 34, pp 112-121 (2019).
- Das, S., Guha, S., Ghadai, R., Kumar, D., & Swain, B. P., "Morphological and Structural Properties of CVD Deposited Titanium Aluminium Nitride (TiAlN) Thin Films", **Material Science and Engineering**, Vol.377, pp (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", **Communication and Computing**, Vol. 377, pp 301-306 (2018)

Details of the Papers Published by the Faculty Members/Students in Conference/Seminar

- Jaiswal, A., Peshwani, B., Shivakoti, I., "Multi response Optimization of Wire EDM Process Parameters" **Materials and Manufacturing Processes**, Vol. 34, pp112-121, (2019).
- Ghadai, R. K., Mondal, S. C., & Swain, B. P., "Investigation of Structural and Mechanical Properties of DLC thin films in Reduction atmosphere", **I-GEM Kuala Lumpur, Malaysia**, April 10-12.
- Das, P. P. and Chakraborty S., "Parametric optimization of Electrochemical Machining process using Taguchi method and super ranking concept while machining on Inconel 825", **AEOTIT 2018 SVNIT Surat**, 3rd -5th August, 2018.
- Chakraborty, S., Jaiswal, A., & Peshwani, B., "Optimization of Powder Mixed Electro Discharge Machining using MABAC", **3rd Regional Science and Technology Congress-2019**, by Govt. of W. B. 2018 Jalpaiguri Govt. Engg. College, WB, 12-13 December, 2018.

Faculty/Student achievements:

1. Mr. Manish Kr. Roy, Assistant Professor I (SG) was awarded PhD on "Study on the Process Parameters of Non-Traditional Machining Techniques for the Development of an Expert System", by Sikkim Manipal Institute of Technology, Sikkim Manipal University.
2. Mr. Ashish Jaiswal, and Miss Bhomika Peshwani, VII semester Students was awarded "Best Paper Award" on "Optimization of Powder Mixed Electro Discharge Machining using MABAC" by 3rd Regional Science and Technology Congress, 2019, by Govt. of W. B. held on 12th - 13th December, 2018.
3. Mr. Premchand Mahato, Assistant Professor I was given "Best faculty of the month" for the month November, 2018 of by Sikkim Manipal Institute of Technology, Sikkim Manipal University.
4. In Inter Department Cricket tournament students of Mechanical Engg. Dept secured 1st position.
5. Mr. P.M. Pradhan, Assistant Prof. I was awarded a certificate of excellence for his exception Zeal and hard work for the preparation and successful accomplishment of NAAC Peer team visit to the Institute by the Director of SMIT on 6th October, 2019.

Students's Activities:

Like every year, this year too Sri Sri Vishwakarma Puja was organized by the students of Mechanical Engineering Department and celebrated with great fervor.

Students of 7th Semester visited NHPC, Teesta V Project, Balutar, Singtam on 30th August, 2018.

A Departmental Dinner was also organized by the students of our department for the 3rd and 4th year students.

Clean my campus drive was conducted on 3rd February, 2019.

New Initiatives:

- i) Placement (Campus) preparation Club, Research Club, Inovation Club, Gate Club and Soft Computing Club has been introduced for the students of Mechanical Engineering Dept.
- ii) Brand new Twin Turbo diesel engine with 8-speed Automatic Steptronic Transmission has been received from BMW.
- iii) New subject Latest trend in Mechanical Engineering (LTME) has been introduced for 7th Semester students.
- iv) New Plotter Machine has been installed in CAD/CAM Lab.

Student Activities:

- Like every year, this year too Sri Sri Vishwakarma Puja was organized by the students of Mechanical Engineering Department and celebrated with great fervor.
- Farewell evening was coordinated by the 3rd year students for the students of final year.
- Departmental Dinner was also organized by the students of our department for the 3rd and 4th year students.

Placement Record:

Company Name	No. of Selects
WELLS FARGO	2
WIPRO	1
BID OCEAN	4
INFOSYS	2
THINK & LEARN	1
FL SMIDTH	3
GENESYS	20
AGS	1
PARKER HANNIFIN	2
C-CORE	4
GO SPEEDY GO	8
BRITANNIA	4
EMAMI	1



DEPARTMENT OF PHYSICS



Number of Faculty Members : 9

Names of Faculty Members:

- Prof. Vinod Kumar Sayal
- Prof. Gobinda Chandra Mishra
- Prof. Utpal Deka
- Mrs. Pronita Chettri
- Dr. Tanay Kumar Dey
- Mr. Vivekananda Mukherjee
- Mr. Amalendu Das
- Dr. Sanat Kumar Das
- Dr. Sanjib Kabi

Number of Non-Teaching Staffs (Technical) : 2

Names of Non-Teaching Staffs (Technical):

- Mr. Dilli Ram Chhetri
- Mr. Binesh Pradhan

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

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:

- 6th PSSI PLASMA SCHOLARS COLLOQUIUM 2018, held from 24th Aug. 2018 to 26th Aug. 2018.

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

International Journal:

- Deka, U., "Effects of low pressure plasma irradiation on electrical resistivity of perovskite oxide $\text{Eu}_{1-x}\text{Sr}_x\text{MnO}_3$ ", **IOP Conference Series: Materials Science and Engineering**, 377 (2018) 012173 doi:10.1088/1757-99X/377/1/012173
- Deka, U., "Electrical, thermal and magnetic studies on 7.5MeV electron beam irradiated PrCoO_3 polycrystalline samples" **Physica B**, 540, 26-32 (2018)
- Dey, T., "Phase transition of AdS Schwarzschild black hole and gauge theory dual in presence of external string cloud" **International Journal of Modern Physics A**.

National Journal:

- Chettri, P., Kunwar, B., "Examining the decay constants of radioactive dice experiment", **Physics Education**, 2018.

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

- Chettri, P., Rao, A., Nagaraja, B. S, Deka U., "Influence of Plasma Irradiation on the Electrical Resistivity and Structural Parameters of $\text{Sm}_{1-x}\text{Sr}_x\text{MnO}_3$ manganites ($0.2 \leq x \leq 0.5$)", **6th PSSI Plasma Scholars Colloquium 24th - 26th August, 2018.**
- Kumar, A, Deka, U., "Molecular Dynamics Simulation

of Plasma Interactions with Macromolecules”, **6th PSSI Plasma Scholars Colloquium, 24th - 26th August, 2018.**

- Bhujel, R., Lepcha, U. C., Swain, B. P, Deka U., “Effect of Low Pressure Plasma irradiation on Electrical Properties of Silicon Nanowires for Photovoltaics applications”, **6th PSSI Plasma Scholars Colloquium, 24-26 August, 2018**
- Chettri, P., Rao, A., Deka, U., “Study of Electrical Resistivity Behavior of $Gd_{1-x}Sr_xMnO_3$ due to Low Pressure Plasma Irradiation”, **6th PSSI Plasma Scholars Colloquium, 24th - 26th August, 2018**
- Bhujel, R., Deka, U., Rai, S., Swain, B. P, “Electrical Properties of Plasma Irradiated Silicon Nanowires for Photovoltaics Applications”, **IEEE Electron Device Kolkata Conference (November, 2018 IEEE EDKCON).**
- Deka, U., *Advanced facilitation Skills using NLP under SMILE Phase 2, Sikkim Manipal Univeristy, Tadong, Gangtok*
- Das, S. K, “The recent Developments in Physics”, **Nar Bahadur Bhandari College, Tadong, 21st September, 2018**
- Kabi, S., “III-V Semiconductor Nanostructures: Growth, Characterization and

Applications”, **EMERGING FRONTIERS IN MATERIALS SCIENCE-EFMS_2019**

Ongoing Research Project details:

- Dr. Ramdas Pai and Mrs. Vasanthi Pai Endowment Fund Project Title Graphene back surface field based low cost Silicon Nanowire hybrid Solar cell (Ref. no. SMU/ENDOW/2016-17/292/002) under U. Deka.
- Dr. Ramdas Pai and Mrs. Vasanthi Pai Endowment Fund Project Title, “To study the structural properties and electrical resistivity of pristine and plasma irradiated $La_{0.5}Sr_{0.5}MnO_3$ and $Nd_{0.5}MnO_3$ Samples” (Ref. no. 1094/SMIT/OO/319/2018), under P. Chettri.

Student's Activities:

- Two Students Team participated in SWAACH BHARAT, Summer Internship and won 2nd Prize in the University Level.
- M.Sc. Physics team along with Chemistry and Math has won the 1st Prize in Boys Volleyball event in Annual SMIT Sports meet.



OFFICE OF THE DEAN (STUDENT AFFAIRS)

HOD: Prof. (Dr.) Ratika Pradhan

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

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

- Abinash Shrestha
- Saimon Pradhan

Activities:

TECHKRITI (Boeing Aeromodelling Competition) - IIT Kanpur

A team of 4 students namely Rishikesh Borah, ME Dept., Abhinov Dutta, ME Dept., Ankit Khalkho, ME Dept., and Dixita Devi, 1st year were selected to participate in TECHKRITI 2019, the annual technical fest of IIT Kanpur in the event of Boeing Aeromodelling Competition from 8th - 10th March 2019. Out of 90 teams from various colleges from all over the country, our students secured 46th rank.

Spring Fest 2019 - IIT Kharagpur

Students represented SMIT in the Spring Fest - IIT Kharagpur from 25th to 27th January, 2019 and won prizes in various events.

From SMIT, a team of 18 students participated in almost all the events of Spring Fest - IIT Kharagpur 2019 and they came out successfully as winners in the following events:

Sl. No.	Event	Name of Participants	Position
1	"SF Idol"	Nishant Gupta	1 st
2	Solo Singing Competition	Nishant Gupta	2 nd
3	Lakeside Dreams	Nishat Gupta	2 nd
4	JAM	Hiteshi Singhal Ronita Debnath,	2 nd
5	"DumbC"	Angana Goswami, and Parth Rastogi Ronita Debnath ,	3 rd
6	"Brand D" competition	Sudeep Das, Suave and Akriti Sharma	3 rd

Kaalrav-2019

Annual Cultural Festival - Kaalrav 2019 three days mega event was held from 8th to 10th March, 2019. Brig. (Dr.) Vijay Kr. Mehta, Dean SMIMS, inaugurated the events. The cultural events included singing competitions,

dance competitions, dramatics among others. Various colleges from Sikkim and other places participated in the fest. Mr. Siddhant Tewari from Syama Prasad College, Kolkata and Miss Rashika Olemyan from SMIMS, Gangtok were crowned as Mr. and Miss Kaalrav'19 edition. On 9th March, 2019 there was a performance by Shirley Setia and team. The fest came to its conclusion with a grand performance by Naalayak band on the night of 10th March, 2019.

Annual Day 2018

Annual Day was held on 20th April, 2018 in view of 121th birth anniversary of Dr. T. M. A Pai, founder of Manipal Group. Vice Chancellor Lt. Gen. (Dr) Venkatesh, SMU was the Chief Guest for the event and the parents of overall topper Mr. Dichen Theingh of B.Tech. (Civil Engg.) up to seventh semester were invited as Guest of Honor. The Annual Magazine SMITSONIAN was launched followed by a cultural program, which included a medley of songs and dances, both folk and classical and prize distribution to the students who had excelled in various Intra and Inter Institute cultural, Academic, literary and sports activities during the year.

CONCOURS 2018

CONCOURS 2018 (Science Project Exhibition cum Quiz) was held from 2nd -3rd November, 2018 at Sikkim Manipal Institute of Technology. Admission Cell of SMIT started this event in 2016 on the occasion of World Science Day. Around 40 teams (two students per team) participated in Science Project Competition and around 70 teams (two students per team) participated in Quiz from Sikkim, Kalimpong, Darjeeling and Siliguri.

Free Eye Checkup - DADATI

DADATI, social welfare club of SMIT conducted free eye check-up camp for MIS staffs and SMIT employees on 14th April, 2018 at SMIT Dispensary in collaboration with Lions Club, Siliguri & Rangpo branch. 25 members of Lions Club and volunteers of DADATI helped more than 100 interested participants to register and do the eyes check-up. Free spectacles were also given to some needy patients.

Donation Collection & Community Awareness - DADATI

DADATI observed Daan Utssav on 2nd - 8th October, 2018. Volunteers of DADATI organized collection of cloths and food items from hostels and staff residents and distributed the same to Lee Aal Old Age Home

situated in Tintek, East Sikkim headed by Mrs. Passankit Lepcha.

Workshop on Competitive Coding and Data Structures - INNOVISION

Technical Club of SMIT, Coding Ninjas under supervision of INNOVISION club conducted Workshop on Competitive Coding and Data Structures from 22nd - 23rd September, 2018. Mr. Yaman Sharma, Marketing Head of Coding Ninjas and Mr. Parikh Jain, Instructor and Product Engineer of Coding Ninjas conducted the workshop.

Workshop on CLOUD COMPUTING with AZURE by Intel - INNOVISION

Workshop on CLOUD COMPUTING with AZURE under the supervision of INNOVISION Club was conducted from 3rd - 4th November, 2018. Mr. Avirup Basu (Senior IOT developer, INTEL), Mr. Mayank Mishra (Software Engineer, McAfee), Mr. Risab Biswas (Data Analyst, INTEL), Mr. Barnamoy Chowdhury (IOT Developer) were the guest speakers. Around 120 students attended the workshop. They were trained and certified by INTEL.

Workshop on Natural Processing Language (NLP) by NIIT, Kolkata - INNOVISION

Two days workshop on Natural Processing Language (NLP) by NIIT, Kolkata was conducted by INNOVISION on 19th - 20th January, 2019. The mentors were from NIIT, Kolkata. Around 121 students attended the workshop and every student was certified by NIIT (National Institute of Industrial Training), Kolkata.

Workshop on E - Car by Society of Hydraulics and Automation (SOHA), Pune - INNOVISION

Two days Workshop on E-Car by Society of Hydraulics and Automation (SOHA), Pune was conducted in 3rd and 11th February, 2019 under the supervision of INNOVISION club. Around 71 students attended the workshop.

Food Festival 2018:

Food Festival, SMIT was held on 12th November, 2018 to celebrate the various flavours of the world. Multiple food vendors from across Sikkim were invited to show case their cuisines. The event was attended by the Director, SMIT who lauded the event as something that was unique.

ATHLIMA 2018

The first sports fest of SMIT was held from 3rd - 5th November, 2018. 8 teams from Sikkim took part in the 3 day event. SRM University, Gangtok emerged victorious.

National Service Scheme (NSS)

NSS, SMIT celebrated NSS day on 24th September, 2018 and volunteers of SMIT arranged cleanliness and educational drives to celebrate this day with sheer joy and happiness. NSS volunteers of SMIT took to the streets of surrounding Majhitar area to bring out a rally spreading the awareness of having clean and green society. NSS volunteers also visited Government Secondary School, Majhitar and addressed the students of 9th & 10th standard for career counselling session.

Swachh Bharat Summer Internship Program

NSS SMIT registered for Swachh Bharat Summer Internship program to transform India for the better from 19th - 24th May, 2018. A group of three students organized various cleaning and awareness activities. In addition, group lead by Ms. Saruina Chettri was successful to win second prize in college level competition of Summer Internship.

Awareness of Human Trafficking and the importance of Education

NSS Volunteers from SMIT visited Govt. Secondary School, Majhitar on 6th September, 2018 for the awareness of Human Trafficking and the importance of Education. A group of seven volunteers addressed 8th to 10th grade and educated them about the same.

Tech. Adrishta 2019

Annual Technical Festival - Tech. Adrishta 2019, a two-day technical extravaganza, was held on 30th and 31st March, 2019. A total of 20+ events were held including Tech Showdown (project displaying competition), Hackathon, Tech MUN, CAD Design Competition and Game Development Competition amongst others. A total of 80+ projects were submitted by students across various streams. More than 200 students participated from SMIT and 12 colleges and schools participated in the two-day event. Mr. Saksham Choudhury, Founder of Learn Code Online, conducted workshop on Hackon. 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.

TRAINING AND PLACEMENT DEPARTMENT

Training & 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. 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 Dr. BhaskarBhuyan as Associate Head and Mr. Rakesh Krishna 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 July/ August, 2019 (as on 28th February 2019): 34

Major Recruiter for 2018-19: MICROSOFT, DELL, SHELL, INFOSYS, TCS, WIPRO, BOSTON SCIENTIFIC, IXIA, JUST DIAL, WELLS FARGO, BOSCH, ERICSSON, BRITANNIA, EMAMI, KERROSS, WEBSKITTERS, BID OCEAN, IDEMIA, THOUGHTWORKS, THINK & LEARN,

TALVIEW, FL SMIDTH, MPHASIS, GENESYS, AGS, LTE, CLICK ON CARE, COMPUTRONICS, HALODOC, INNOEYE, PARKER HANNIFIN, GO SPEEDY GO, C-CORE, DXC TECHNOLOGY.

Summary of Compensation Package for 2019 Outgoing B-Tech. Batch

Average salary (lakhs/annum)	4.67
Median salary (lakhs/annum)	3.58
Maximum salary (lakhs/annum)	10.5
Lowest salary (lakhs/annum)	2.8
Total number of offers (In Nos.)	367
Total number of eligible/Interested students	220

Besides the placement of engineering students, T&P Cell also organized hiring events for MBA/BBA in companies like Byjus, ICICI Securities, ICICI Bank Ltd, Tredemints etc.

M.Sc students also appeared in campus hiring event viz Infosys, Cipla etc.

INDUSTRY ACADEMIA INTERACTION

7th - 9th February, 2019: Ericsson Campus Connect Program where 50 students of B.Tech (ECE) have been trained in modern communication technologies by Ericsson expert at SMIT.

Mr. B. Sen, Head Industry Academia Linkage & TPIL and Prof. (Dr.) Kalpana Sharma, HOD, Computer Science & Engineering were invited at Infosys Conclave - INFYTQ 2019 held at Infosys Campus, Mysore on 15th February, 2019.



SMIT CENTRAL LIBRARY

Sr. Librarian: Dr. Kh. Premoda Devi

Number of Staff: 09

05 are Professional 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'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" Desktop as well as Web Version and also extended the scope of various services like CD-ROM database search & EPAC.

The library is a two-storied building with 2500 sq.m. carpet area. SMIT library has built up a rich collection on all branches of Engineering, Science and Management. The seating capacity for library is 382 users at a time.

Collection of the Library as on 28th February, 2019:

Particulars	2018-19
Total number of book accessioned	61,467
Total No. of Titles	20,634
Reference Books	7,860
Lending Books	39,460
Bound Periodicals	5881
Theses	75
Non-Print Materials (CD)	3864
Project Reports	5,754
General Books	1,647
Novels	269
Book Bank	499
Departmental issued Books	8,672
Indian Journals	39
International Journals	79

Statistics:

Circulation	Reference User	Dues Collection	Photocopies
<i>Issue:</i> 16,044 <i>Return:</i> 16,396 <i>Renew:</i> 8,791	9.00 am – 8.00 pm: 21,146	<i>From Book:</i> Rs. 1,95,283	Rs. 14,541
Total: 41,231	Total: 21,146	Total: Rs.1,95,283	Total: Rs.14,541

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.	Dspace (Institutional Digital Repository)
07.	EBSCO (Business Source Elite)
08.	Knimbus E-Library (Remote Access)
09.	Sage (Management)
10.	DELNET (Developing Library Network)
11.	Videeya E-books

Facilities Available in the Library:

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) directly from the rack.
- The library has well-furnished reading room with a seating capacity of 382 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/epacselorg.asp>).
- Xerox facilities are available in the library between 9:30AM and 5:00PM.
- The library has internet and Wi-Fi facilities.
- The library has also the facility of new book arrival.

SIKKIM MANIPAL INSTITUTE OF MEDICAL SCIENCES



Sikkim Manipal Institute of Medical Sciences (SMIMS) is a constituent college of Sikkim Manipal University (SMU). Central Referral Hospital was established in the year 1997. The first batch of MBBS students were enrolled in the year 2001.

SMIMS conducts the following Medical and Health Sciences courses: (i) MBBS (ii) MD in Medicine, Paediatrics, Psychiatry, Community Medicine, Pharmacology, Biochemistry, Microbiology & Physiology (iii) MS in ENT & OBG (iv) B.Sc Medical Biotechnology & M.Sc Medical Bio Technology. All courses run by the SMU. MBBS and MD/MS are recognised by Board of Governors in supersession of Medical Council of India.

Exhibiting a unique combination of Sikkim's style and modern architecture, SMIMS is spread in a sprawling area of 25 acres of mountainous land.

SMIMS provides hostel facilities for 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, Table tennis, TV Rooms and internet facilities for the students. The campus also has volley ball and basketball courts. SMIMS library has a seating capacity of more than 150 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 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. 50% seats are reserved for Sikkim Students.

SMIMS gives high priority to academic activities with 122 CMEs, conferences and workshops with National and International Faculty during last year.

With a team of 288 dedicated faculty who inspire the students to become a whole some doctor with the highest ethical standards, innovations and research.

The associated Central Referral Hospital is a 525 bedded tertiary care hospital. The hospital has 21 specialities and super specialities in Neurosurgery, Cardiology, Gastroenterology, Cardio-surgery and Urology with state of the art equipment. The hospital houses modern amenities of treatment like MRI, CT scan, Ultra Sound, Dialysis Unit, and Central Laboratory for various investigations, 24 hrs pharmacy and completely automated and online Hospital Information System. 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 health care services.

Keeping abreast with the mission and vision of Manipal group, emphasis has been on maintaining highest standards of quality patient care and patient safety.

Programs offered:

- MBBS
- MD (Biochemistry)
- MD (CommunityMedicine)
- MD (General Medicine)
- MD (Microbiology)
- MD (Pediatics)

- MD (Pharmacology)
- MD (Physiology)
- MD (Psychiatry)
- MS (ENT)
- MS (Obstetrics & Gynecology)
- MSc Medical Biotechnology
- BSc Medical Biotechnology

Ranking

THE WEEK HANSA RANKING SURVEY 2019

34th position amongst Top 40 Best Medical Colleges.

INDIA TODAY RANKING 2019

11th position amongst Top 13 India's Best Government Medical Universities.



DEPARTMENT OF ANAESTHESIOLOGY



1. **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.

2. Faculty/Staff in the Department:

a. Teaching/ Technical Faculty Members

Sl No	Name	Designation	Qualification
1	Dr Basanta Kumar Gandhi	Prof & HOD	MBBS, MD
2	Dr Yanki D Shipmo	Assoc. Prof	MBBS, MD
3	Dr Meyong P Bhutia	Assoc. Prof	MBBS, MD
4	Dr Arati Rai	Assoc. Prof	MBBS, DNB
5	Dr Aradhna Sinha	Assoc. Prof	MBBS, MD
6	Dr Sofia Batool	Asst. Prof	MBBS, MD
7	Dr Yogesh Narwat	Asst. Prof	MBBS, MD
8	Rajni	Asst. Prof	MBBS, MD
9	Tshering P Bhutia	Sr Resident	MBBS, MD
10	Ram Bahadur Rai	Sr Resident	MBBS, DNB
11	Dr Karma G Bhutia	Jr Resident	MBBS
12	Dr Pawan Kr Singh	Jr Resident	MBBS
13	Dr Dupjor Lepcha	Jr Resident	MBBS
14	Dr Anurag Khawas	Jr Resident	MBBS

b. Non-Teaching Staff

(i)	Operation theatre Technician	09
(ii)	Operation Theatre Nurses	23
(iii)	Clerk	1
(iv)	OT Attendants	2
(v)	Cleaners	5

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

- CME ON BASIC AND ADVANCED ENDOSCOPIC PROCEDURES** was organised by Department of Gastroenterology CRH on 29/09/2018. Department of Anaesthesia was involved in giving General Anaesthesia to patients undergoing endoscopic procedure.
- EAST ZONE YUVA FOGSI** workshop was conducted by Department of OBG on 22/11/2018 with support from Department of Anaesthesia.

4. Research Publications of the existing Permanent Faculty in the Current Academic Session in National/ International Journals

- Comparative study between intravenous dexmedetomidine and esmolol in attenuation of haemodynamic stress response during endotracheal intubation and laryngoscopy. Tshering P. Bhutia. J.Evolution Med.Dent.Sci./Vol.7/Issue 44/Oct,29,2018.

5. Faculty achievements:

- Prof B K Gandhi was invited by West Bengal University of Health Sciences (WBUHS) as an External Examiner for the Post Graduate Diploma Oral & Practical Examination 2018 held at Vivekananda Institute of Medical Sciences, Kolkata on 26/5/2018.
- Prof B K Gandhi was invited by West Bengal University of Health Sciences (WBUHS) as an External Examiner for the Post Graduate MD (Anaes) Oral & Practical Examination 2018 held at North Bengal Medical College, Siliguri on 24/9/2018.
- Dr Rajni, Asst Prof & Tshering P Bhutia, Senior Resident of the Department attended the CME Programme organised by Indian Society of Anaesthesiology, Assam Branch at Kaziranga on 30th & 31st March 2019.

6. 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) in Anaesthesiology and Diploma in Operation Theatre Technology in the Department from the coming academic session to boost the academic environment.

DEPARTMENT OF ANATOMY



Department established in the year 1999

Objectives:

1. Proper solid foundation to become a basic doctor by enabling them.
2. To identify / verify the different component parts of entire Human body as regards its Gross anatomy, Micro Anatomy, Development Anatomy.
3. To develop basic application skill to explain common clinical problem e.g. Erb's palsy, Bell's palsy, Hydrocephalus etc.
4. To motivate to take up Research activity to explain the Anatomical background of congenital abnormalities /surgical/medical

2. Number and Name of Faculty/staff (Teaching and Non – Teaching)

Names of Teaching Faculty

Sl.No	Name of the Staff	Designation	Qualification
1	Dr.Binod Kr. Tamang	Professor / HOD	MBBS, MD
2	Dr. Kalpana Chhetri	Associate Professor	MBBS, M.Sc. Medical Anatomy
3	Dr.Poonam Shilal	Associate Professor	MBBS, MD
4.	Dr.Khrieketouzo Atou Chielie	Assistant Professor	MBBS, MD
5	Dr.Polly Lama	Assistant Professor	M.Sc. Medical Anatomy, Ph.D.
6	Dr.Karma Lakhi Bhutia	Lecturer	M.Sc. Medical Anatomy, Ph.D.
7	Mr. Rohit Kr. Sarda	Tutor	M.Sc. Medical Anatomy
8	Mrs. Jerina Tewari	Tutor	M.Sc. Medical Anatomy
9	Ms. Th. Bedita Devi	Tutor	M.Sc. Medical Anatomy

Names of Non-Teaching Staff

Sl.No	Name of the Staff	Designation	Qualification
1	Mrs. Geeta Pradhan	Junior Assistant (I)	B.A.,M.A (Sociology)
2	Mr. Karma Sonam Bhutia	Senior Lab Technician	B.Sc., B.Sc.MLT
3	Mr. Tika Ram Sharma	Senior Lab Technician	B.Sc., B.Sc.MLT
4	Mr. Chandra Bdr. Rai	General Duty Worker	Class X
5	Mr. Deo Kumar Darjee	Dissection Hall Attender	Class III
6	Mr. Binod Kr. Ram	General Duty Worker	Class XI
7	Ms. Meena Chhetri	General Duty Worker	Class IX

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

1st Annual Student Research Colloquium was organised on 18th -19th June 2018 to celebrate the research achievements of medical, paramedical. Master's and Ph.D scholars of SMIMS, SMCON and SMCOP. The event witnessed scientific presentation as oral and poster papers. This event was supported by Dr. Ramdas Pai & Vasanthi Pai Endowment Funds.

4. Details of Papers published by faculty in International/National Journal

Dr. Binod Kr. Tamang:

- ❖ **Binod Kr. Tamang**, Arvind Deswal, Anju Bala. Study of variations of carotico-clinoid foramen and sella turcica bridges in human fully ossified skulls. International journal of scientific research, november-2018 volume-7 | issue-11 | ISSN no 2277 -8179

Dr. Poonam Shilal:

- ❖ **Shilal P**, Agarwal S, Tuli A, Kakkar S. Variations in the Drainage Pattern of Middle Hepatic Vein and Left Hepatic Vein in the Left Lobe of Liver. 2018; Sep, Vol-12(9): AC13-AC17.

Dr. Polly Lama:

- ❖ Daniel G. Bisson, **Polly Lama**, Fahad Abduljabbar, Derek H Rosenzweig, Neil Saran, Jean A Ouellet, Lisbet Haglund (2018). Facet joint degeneration in adolescent idiopathic scoliosis. Journal of Orthopaedic Research Spine. 1 : e1016: <https://doi.org/10.1002/jsp.1016> (online first)

- ❖ **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 (2018). Journal of Anatomy. **233** (1): 86-97. PMID: 29708266.

Ms. Thoudam Bedita Devi:

- ❖ **Thoudam Bedita Devi**, S.Jibonkumar 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
- ❖ **Thoudam Bedita 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.

Ms Jerina Tewari

- ❖ Pravin Kr. Ravi, **Jerina Tewari**, Pravash Ranjan Mishra, Sujit Kr. Tripathi, Saurav Narayan Nanda, Amit Gantaguru. Variations of extensor polices brevis tendon in Indian population: A cadaveric study and review of literature. Journal of clinical orthopedic and trauma.2018; <https://doi.org/10.1016/j.jcot.2018.02.008>

5. Details of Book Published by faculty in International/National

Ms. Thoudam Bedita Devi:

- ❖ Esther Lalremkin, **Thoudam Bedita Devi** and S. Jibonkumar Singh 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 January, ISBN:- 9789386223722, Page no. 97-111, Chapter-4.
- ❖ S. Jibonkumar Singh and **Thoudam Bedita Devi** published a book chapter title "Modernisation and Obesity : A Pandemic Issue for the Book "Obesity and Syndrome X : A Global Public Health Burden", Nova Science Publishers, INC 400 oser Avenue, Suite 1600, Hauppauge, New York 11788-3619,USA., 2019 February, ISBN:- 978-1-53614-470-7, Page no.249-264, Chapter-12.

6. Details of Papers presented by Faculty:

Dr. Polly Lama:

- ❖ Jyoti P Kulkarni, **Polly Lama**, Binod k Tamang, Pranoti Sinha (2018). The impact and significance of small and large group teaching and learning in first year medical curriculum in anatomy. 66th National Conference of Anatomical Society of India, 11th-14th November 2018, AIIMS Rishikesh.
- ❖ Pulkit Muterja, **Polly Lama**, Michael A Adams (2018). Intervertebral disc cells exhausts in increasing grade of disc degeneration. 1st Annual Student Research Colloquium, 18th-19th June 2018, SMU, Sikkim.
- ❖ Jerina Tewari, **Polly Lama** (2018). Histological features of intervertebral disc from patients with severe degeneration and pain. 1st Annual Student Research Colloquium, 18th-19th June 2018, SMU, Sikkim.
- ❖ Andolika Ravi Kannan, **Polly Lama** (2018). Does a narrow spinal canal dimension predict low back pain, or vice versa? 1st Annual Student Research Colloquium, 18th-19th June 2018, SMU, Sikkim.

Thoudam Bedita Devi:

- ❖ **Thoudam Bedita Devi**, "A Study on Secular Trend 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", Section of Anthropological & Behavioural Sciences, 105th Indian Science Congress (ISC), Manipur University, Canchipur, 16th- 20th March 2018, India.
- ❖ **Thoudam Bedita Devi**, "Nasio-Facial Anatomy of Meitei Males of Manipur: An Inter-generational Comparison" at 66th National Conference of Anatomical Society of India, held at AIIMS, Rishikesh, 12th-14th November 2018, India.
- ❖ **Thoudam Bedita Devi**, " Facial Anatomy of Meitei Males of Manipur : A Secular Trend", Section of Anthropological & Behavioural Sciences, 106th Indian Science Congress (ISC), Lovely Professional University, Jalandhar, Phagwara, Punjab, 3rd-7th January 2019, India.
- ❖ **Thoudam Bedita Devi**, "Intergenerational Cephalo-facial anatomy of Meitei Males of

Manipur Valley” Section of Medical Sciences including Physiology, 106th Indian Science Congress (ISC), Lovely Professional University, Jalandhar, Phagwara, Punjab, 3rd-7th January 2019, India.

Ms Jerina Tewari

- ❖ **Jerina Tewari, Polly Lama** (2018). Histological features of intervertebral disc from patients with severe degeneration and pain. 1st Annual Student Research Colloquium, 18th-19th June 2018, SMU, Sikkim.

7. Faculty Achievements:

- ❖ **Dr Polly Lama** was awarded Nation Builder Award, on 4th of March 2019 by Shree Krishna Ek Lavya Family and Skills Mind Foundation, India for her exemplary contribution towards the Development of Nation in her area of research expertise in cartilage degeneration and pathogenesis.
- ❖ **Dr Polly Lama**, was awarded certification of appreciation for driving IQAC activities towards NAAC accreditation by SMU on November 2018.
- ❖ Mr. Pulkit Muterja & Ms. Jerina Tewari research scholars of **Dr. Polly Lama** were awarded Best Oral and Best Poster Paper for their studies on the topic “**Intervertebral disc cells exhausts in increasing grade of disc degeneration**” and “**Histological features of intervertebral disc from patients with severe degeneration and pain**” at the 1st Annual Student Colloquium, 19th June 2018. Each of the students received cash prize along with a certificate of appreciation.
- ❖ **Miss Thoudam Bedita Devi**, was invited as a Speaker (Invited Speaker) to give talk on the topic “Facial Anatomy of Meitei Males of Manipur : A Secular Trend” in the Section of Anthropological & Behavioural Sciences, the 106th Indian Science Congress (ISC) at Lovely Professional University, Jalandhar, Phagwara, Punjab held on 3rd-7th January 2019, India.
- ❖ **Miss Thoudam Bedita Devi**, also Chaired a session in the Section of Anthropological & Behavioural Sciences, the 106th Indian Science Congress (ISC) at Lovely Professional University, Jalandhar, Phagwara, Punjab held on 3rd-7th January 2019, India.

8. 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 Bacopside and its analogues in vitro and in vivo.5/7/1260/2015-RCH.	Dr. Amlan Gupta	Mr. Rohit Sarda

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

9. Student activities:

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 <i>Dr. Ramdas Pai & Vasanthi Pai Endowment Fund.</i>	Mr. Pulkit Muterja (M.B.B.S 3 rd Year)	Dr. Polly Lama

10. New Initiatives:

“Hands on cadavers medical training workshop on dissection-based clinical anatomy of the pelvis, and procedures with chronic pelvic pain, as a part of advanced medical training for students” will be carried out tentatively on September 2019 as a new initiative to empower interdisciplinary teaching and learning activities across department in SMIMS.

DEPARTMENT OF MEDICAL BIOTECHNOLOGY



1. Introduction

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.

2. Number of faculty

(a) Teaching : Three

Sl. No.	Name	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	Asst. Professor	M.Sc.(BU), Ph.D.(BHU)
3	Dr. Tanaya Ghosh	Asst. Professor	M.Sc.(NBU), Ph.D.(SMU)

This department has collaboration with the departments of Anatomy, Biochemistry, Community Medicine, Microbiology, Pathology and Physiology of SMIMS and with the department of Computer Applications of SMIT. Teachers of these departments are involved in teaching program of medical biotechnology.

(a) Non-Teaching : One

Sl. No.	Name	Designation	Qualification
1	Kedan Bhutia	Attender	Class V

3. Conferences Workshops/ Seminars/ CME/ Guest Lecture Conducted by the department: Nil

4. Paper published by the faculty in National / International Journals : Nineteen

1. Ghosh, Tanaya, Mitra, Prasenjit, Mitra, Prasanta Kumar 2018, 'Antibacterial activity of leaves of *Murraya koenigii* (linn.) spreng wettst', *European J Biomedical and Pharmaceutical Sciences*, vol. 5, no. 4, pp.775-781.
2. Ghosh, Tanaya, Mitra, Prasenjit, Mitra, Prasanta Kumar 2018, 'Seasonal variation in antibacterial activity of leaves of *Murraya koenigii* (linn.) spreng wettst', *European J Biomedical and Pharmaceutical Sciences*, vol. 5, no. 4, pp. 782-786.
3. Ghosh, Tanaya, Mitra, Prasenjit, Mitra, Prasanta Kumar 2018, 'Isolation of a compound from *Murraya koenigii* (linn.) spreng wettst leaves and studies on its antibacterial activity', *European J Biomedical and Pharmaceutical Sciences*. vol. 5, no. 4, pp.787-792.
4. Mitra, Prasenjit, Ghosh, Tanaya, Mitra, Prasanta Kumar 2018, 'Effect of extraction solvents on in vitro anti oxidant activity of *Mentha spicata* L. leaves', *World J Pharmacy and Pharmaceutical Sciences*, vol. 7, no. 4, pp.1727 – 1736.
5. Mitra, Prasenjit, Ghosh, Tanaya, Mitra, Prasanta Kumar 2018, 'Effect of season on in vitro anti oxidant activity of *Mentha spicata* L. leaves', *World J Pharmacy and Pharmaceutical Sciences*, vol. 7, no. 4, pp.1737 – 1747.

6. Mitra, Prasenjit, Ghosh, Tanaya, Mitra, Prasanta Kumar 2018, 'In vitro anti oxidant activity of chromatographically separated fractions from *Mentha spicata* L. leaves', *World J Pharmacy and Pharmaceutical Science*, vol.7, no. 4, pp. 1748 – 1758.
 7. Mitra, Prasenjit, Ghosh, Tanaya, Mitra, Prasanta Kumar 2018, 'Antibiotic resistance and antimicrobial activity of medicinal plants', *EC Microbiology*, vol.14, no. 6, pp. 319 – 320.
 8. Karki, Baibhav, Thapa, Ribek, Chettri, Sudarshan, Ghosh, Tanaya, Mitra, Prasenjit, Mitra, Prasanta Kumar 2018, 'Extraction, quantitation & purity estimation of genomic DNA from *Ageratum conyzoides* l. leaves: Effect of season', *World Journal of Pharmaceutical Research*, vol. 7, no. 13, pp. 1151-1161
 9. Mitra, Prasenjit, Mitra, Prasanta Kumar, Ghosh, Tanaya 2018, 'Antioxidant potential of Pakku - An ethnic food of Sikkim', *World Journal of Pharmaceutical Research*, vol. 7, no. 13, pp.1142-1150.
 10. Thapa, Ribek, Karki, Baibhav, Chettri, Sudarshan, Ghosh, Tanaya, Mitra, Prasenjit, Mitra, Prasanta Kumar 2018, 'Seasonal effect on extraction, quantitation & purity estimation of genomic DNA from *Cassia alata* l. leaves', *World Journal of Pharmacy & Pharmaceutical Sciences*, vol. 7, no. 7, pp.1419-1430.
 11. Mitra, Prasanta Kumar, Ghosh, Tanaya, Mitra, Prasenjit 2018, 'Antioxidant potential of Kinema - An ethnic food of Sikkim.', *World Journal of Pharmacy & Pharmaceutical Sciences*, vol. 7, no. 7, pp.431-1440.
 12. Chettri, Sudarshan, Thapa, Ribek, Karki, Baibhav, Ghosh, Tanaya, Mitra, Prasenjit, Mitra, Prasanta Kumar 2018, '*Amaranthus spinosus* L. leaves - Extraction, quantitation & purity estimation of genomic DNA : Effect of season', *European Journal of Biomedical and Pharmaceutical Sciences*, vol. 5, no. 7, pp.712-719.
 13. Mitra, Prasanta Kumar, Ghosh, Tanaya, Mitra, Prasenjit 2018, 'Antioxidant potential of Tama - An ethnic food of Sikkim', *European Journal of Biomedical and Pharmaceutical Sciences*, vol. 5, no. 7, pp.706-711.
 14. Mitra, Prasenjit, Mitra, Prasanta Kumar, Ghosh, Tanaya 2018, 'Effect of Season on *In Vitro* Anti Oxidant Activity of *Syzygium cumini* L. Leaves', *Global Journal of Pharmacy & Pharmaceutical Sciences*, vol. 5, no. 5, pp.1-5.
 15. Mitra, Prasenjit, Mitra, Prasanta Kumar, Ghosh, Tanaya 2018, 'Anti oxidant activity of *Syzygium cumini* l. leaves: effect of extraction solvents', *Mintage J Pharm. & Med. Sci.*, Vol. 7, Suppl. 3, pp. 10-13.
 16. Mitra, Prasenjit, Mitra, Prasanta Kumar, Ghosh, Tanaya 2018, 'In vitro anti oxidant activity of chromatographically separated fractions from *Syzygium cumini* l. leaves', *Mintage J Pharm. & Med. Sci.*, Vol. 7, Suppl. 3, pp. 14-17.
 17. Mitra, Prasenjit, Mitra, Prasanta Kumar, Ghosh, Tanaya 2018. 'Antioxidant potential of Gundruk - an ethnic food of Sikkim', *Mintage J Pharm. & Med. Sci.*, Vol. 7, Suppl. 3, pp. 18-21.
 18. Mitra, Prasenjit, Mitra, Prasanta Kumar, Ghosh, Tanaya 2018, 'UV absorption property of *Syzygium cumini* l. leaves', *Acta Scientific Pharmaceutical Sciences*, vol. 2, no. 9, pp.69-73.
 19. Mitra, Prasenjit, Mitra, Prasanta Kumar, Ghosh, Tanaya 2018, 'Effect of season on UV absorption property of *Syzygium cumini* l. leaves', *Acta Scientific Agriculture*, vol. 2, no. 11, pp. 59-63.
- 5. Details of Faculty achievement**
- **Professor (Dr.) Prasanta Kumar Mitra, HoD**
 - 1) Paper publication: Nineteen
 - 2) Workshop/Conference:
 - a) Acted as resource person in a workshop on *Basic Cell Culture* organized by the Universitas of Gadjah Mada in Yogyakarta, Indonesia on October 11, 2018.
 - b) As invited speaker delivered talk on *Indian Medicinal Plants* in 2nd International Symposium on Global Physiology 2018 held on 12-13th October, 2018 in Yogyakarta, Indonesia.
 - c) Presented paper in 13th World Conference on Bioethics, Medical Ethics & Health Law held on November 27-29, 2018 in Jerusalem, Israel.
 - 3) Empaneled as *Emeritus Professor* by the Indira Gandhi Technological and Medical Sciences University, Arunachal Pradesh.
 - 4) Acted as *Council Member* of International Forum of Teachers (IFT) of the UNESCO Chair in Bioethics.
 - **Dr. Arundhati Bag, Assistant Professor**
 - 1) Paper publication: Nil
 - 2) Workshop/Conference:

- a) Invited Lecture on 'Genetic Polymorphisms and platinum- drug related toxicity' in Golden Jubilee International Conference on 'Trends in Zoology', January 3-4, 2019, Department of Zoology, The University of Burdwan, West Bengal, India
- b) Workshop on 'Systematic Review and Meta-analysis', 5th to 7th December, 2018, SMIMS, SMU, Gangtok, Sikkim.
- c) Workshop on 'Flow Cytometry: Single Tool for Versatile Applications', 28th to 29th Jan, 2019, SMIMS, SMU, Gangtok, Sikkim

■ **Dr. Tanaya Ghosh, Assistant Professor**

- 1) Paper publication: Nineteen
- 2) Travel grant: Received travel grant of US dollar 500 for poster presentation in LMCE 2018 (Laboratory Medicine Congress & Exhibition) & KSLM 59th Annual Meeting during 2-3 November, 2018 in Seoul, South Korea.
- 3) Workshop/Conference:
 - a) Presented poster in LMCE 2018 (Laboratory Medicine Congress & Exhibition) & KSLM 59th Annual Meeting during 2-3 November, 2018 in Seoul, South Korea.
 - b) Participated in Indo-US Workshop funded by ICMR on *Flow Cytometry* at National Institute of Immuno hepatology, Mumbai on 7-8 March, 2019.
 - c) Participated in a workshop on *Publication Skill Development* organized by the Department of Pharmacology, SMIMS, SMU on 27th March, 2019.

6. 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: INR 44,79,872 (ICMR, Govt. of India)

7. Student activities

- a) Publication of research papers:

Baibhav Karki (Registration no. 201303009), **Sudarshan Chettri** (Registration no. 201203005) and **Ribek Thapa** (Registration no.201103014) published three research papers in three peer reviewed MCI recognized journals (*World Journal of Pharmaceutical Research, European Journal of Biomedical and*

Pharmaceutical Sciences and World Journal of Pharmacy & Pharmaceutical Sciences) from their work on dissertation.

Nova Deka (Registration no. 201503013) and **Kanan Raj** (Registration no. 201503004) also published one research paper in *International Journal of Current Microbiology and Applied Sciences* from their summer training program.

- b) **Runumi Boro** (Registration no. 201403005) qualified GATE and CSIRNET.
- c) **Samayita Basu** (Registration no. 201403003) qualified GATE.
- d) Students did summer training from School of Tropical Medicine, Govt. of West Bengal, Kolkata and Institute of Science & Technology, Guwahati University, Assam.
- e) Students participated in AURA - 2018, SMIMS and bagged many prizes.
- f) Students participated in Kaalrav 2019 organized by SMIT and bagged prizes.
- g) Students presented scientific models in UG Med Con 2019, organized by FMT Department, SMIMS held on 25 March 2019 at SMIMS.

8. New initiatives implementation

■ **Academic**

- a) Board of studies meeting was held on April 23, 2018 to bring about changes in curriculum.
- b) Board of studies meeting was held on November 12, 2018 to start B.Sc. & M.Sc. courses in Medical Biotechnology.

■ **Non-academic**

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 issue.

9. Clinical trial : Nil

10. Placement record: 70% of the final year students, as below, have been selected for upgraded training in Biotechnology, a program of DBT, Govt. of India.

Name of the student	Registration number
Rachana Khati	201303001
Abhisek Behayat	201303002
Bikash Kumar Gupta	201303004
Safique Alam	201303005
Bishal Tamang	201303007
Rajit Mullick	201303010
Sneha Sewa	201203004

DEPARTMENT OF COMMUNITY MEDICINE



1. Introduction

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

- Epidemiology
- Communicable & NCD's including National Health programs
- Nutrition
- Health Environment and Medical Entomology
- Health System and Health Programs
- Research Methodology
- Biostatistics
- Health Communication
- Health Management
- Health related policies, laws
- Sociology

CORE FUNCTIONS

- Trains the undergraduate students of MBBS, BPT and MSc Biotechnology
- Trains Post-graduate students for MD in Community Medicine
- Trains paramedical staff
- Research
- Health promotion and disease prevention in community.
- Community awareness for disease prevention and control.
- Outbreak investigation and containment.
- Technical support and monitoring the national health program.

2. Number and Names of faculty (Teaching staff)

SL. NO.	NAME OF STAFF	Designation	Qualification
Teaching Staff			
1.	DR. DECHENLA T. BHUTIA	HOD and Professor	MD, MPH
2.	DR. V. K. MEHTA	Professors	MD
3.	DR. F. A. ZAMAN	Professors	MD, FIPHA
4.	DR. SUMIT KAR	Professors	MD
5.	DR. N. B. LASKAR	Assoc. Professor	MD
6.	DR. BINU UPRETI	Asstt. Professor	MD
7.	DR. TSHERING DOLKAR	Asstt. Professor	MD
8.	Dr. RAJKUMARI S. DEVI	Asstt. Professor	MSc, PhD
9.	DR. SHRADDHA DEOKOTA	Asstt. Professor	MD

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

- World Health Day 2018 was organized by Department of Community Medicine under the aegis of SMIMS on 7th April 2018. The slogan for WHD 2018 was **“Universal Health Coverage: Everyone, everywhere”**. The event was organized at MG, Marg, Gangtok. The event was marked by Health Checkup by specialist from General Medicine, Pediatric, Eye and ENT Department. Students performed a skit, group song and Health Education on various health topics at MG, Marg, Gangtok & 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 2016 batch students guided by different faculty members.
- Signed MOU with TIIKM, Colombo as an Academic Partner for the 5th INTERNATIONAL CONFERENCE ON PUBLIC HEALTH 2019 in Kuala Lumpur, Malaysia from 10th to 12th July 2019.
- Organized Sensitization Programme on RNTCP for Doctors & Nurses at SMIMS, Gangtok on 27th March & 28th March 2019.

4. Details of the papers published by the faculty in International/National Journal. Publications from 1st April 2018 to 31st March 2019

DR. DECHENLA TSHERING BHUTIA

1. Bhutia DT. Role Play as a Teaching Learning Tool to Impart Communication Skills among Undergraduate Medical Students. Int. Journal of Current Medical and Applied Sciences. 2018 May;18(3):87-9
2. Prabhakar A, Yadav SS, Gupta SK, Zaman FA, Bhutia DT. An Epidemiological study on Road Traffic Injury in East Sikkim. Int Journal of Medical Science and Public Health. 2018; 7(9):754-59
3. Rai M, Bhutia DT. Study of breastfeeding Practices in children living in East District of Sikkim. IOSR Journal of Dental and Medical Sciences. 2018; 17(12) Ver.10:35-42

DR V K MEHTA

1. Nishant Kumar, V K Mehta, Sumit Kar. Assessment of a Nutritional Status of Adolescent Population in the Rural Field Practice Area of

Sikkim Manipal Institute of Medical Sciences. Journal of Medical Science and Clinical Research, Volume no.07/Issue03/Page804-810/March 2019.

2. Tshering Dolkar, Brig. V K Mehta, J T Wangdi. A Study on the Nutritional Status of the School Going Adolescents of East Sikkim, North East India. Indian Journal of Public Health Research & Development. Volume no. 10, Number 3/Page number 231-237/March 2019.

DR. F. A. ZAMAN

1. Bhanu Pratap Singh, Sanjiba Dutta, Forhad Akhtar Zaman, Harshavardhan Sampath. A Study to Correlation of Socio-Demographic and Clinical Variables with Depression in Urban Population. Journal of Medical Science & Clinical Research, Vol/06/Issue/06/ June 2018, Page 455-461
2. Anish Prabhakar, Sachin Singh Yadav, Sudhir Kumar Gupta, Forhad Akhtar Zaman & Dechenla Tshering Bhutia, An Epidemiological study on road traffic injury in East Sikkim. Int J Med Sci Public Health. 2018;7(9):754-759
3. Bhanu Pratap Singh, Sanjiba Dutta, Forhad Akhtar Zaman, Harshavardhan Sampath. A Preliminary Study on the Prevalence of Depression in an Adult Urban Population of Gangtok. International Journal of Medical Research Professionals, 2018 May;4(3);184-87

DR. SUMIT KAR

Nishant Kumar

1. V K Mehta, Sumit Kar. Assessment of Nutritional Status of Adolescent population in the Rural Field Practice Area of Sikkim Manipal Institute of Medical Sciences J M S C R Vol | 07 | Issue | 03 | Page 804-810 | March

DR. T. DOLKAR

1. Tshering Dolkar, Brig. V K Mehta, J T Wangdi. A Study on the nutritional status of school going adolescents of east Sikkim, north east india. Ind J Pub H res & dev. March 2019. 10(3), 232-237.

5. Details of the faculty achievement

DR. DECHENLA TSHERING BHUTIA

1. Participated in workshop on "Consumer Protection Act" organized by Sikkim Manipal Institute of Medical Sciences held on 25th September 2018 at SMIMS, Gangtok, Sikkim
2. Chaired a session at National Conference of Indian

Association of Preventive and Social Medicine held on 08th-10th March 2019 at IGMS, Shimla, Himachal Pradesh

3. Member of State Task Force Immunization (STFI) Committee under Dept. of HC, HS and Family welfare, Govt. of Sikkim
4. Participated in SMILE Leadership Phase II workshop held on 18th - 19th February 2019 at Sikkim Manipal Institute of Medical Sciences, Gangtok
5. Participated in SMILE Leadership Phase II workshop held on 26th March 2019 at Sikkim Manipal Institute of Medical Sciences, Gangtok
6. External Examiner for MBBS Final Part I University exam held on 7th - 11th January 2019 at KPC Medical College under West Bengal University of Health Sciences, Kolkata, West Bengal
7. Admission Officer for Medical Admissions at SMIMS
8. Executive member, Medical Education Unit, SMIMS

DR V K MEHTA.

1. 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.
2. Participated in three day workshop in "Academic Leadership" from 15th to 17th March 2018 at SMIMS, Gangtok.
3. Participated as a resource person in the "Stroke & Neuro intervention update" 2018 at SMIMS, Gangtok on 13th April 2018 Chaired a session on "Epidemiology of Strokes".
4. Resource person for PhD research course work for the session 2017-2018 under Sikkim Manipal University at Sikkim Manipal Institute of Medical Sciences, Gangtok.
5. 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.
6. Participated in workshop on Intellectual Property Rights (IPR) held on 21st September 2018 at SMIMS, Gangtok.
7. Participated in workshop on Consumer Protection

Act held on 25th September 2018 at SMIMS, Gangtok.

8. Attended 4th International Conference on Public Health at Bangkok, Thailand from 27th to 29th July 2018 and chaired three scientific sessions.
9. Participated in 5th International Leh Symposium 2018 at Gangtok Sikkim India from 15th to 19th November 2018 organized by CSIR-Institute of Genomics and Integrative Biology, New Delhi, India.
10. Appointed as Dean, Sikkim Manipal Institute of Medical Sciences w.e.f 01/02/2019.
11. Nominated as Chairperson of State Task Force on RNTCP in March 2019.

DR FORHAD AKHTAR ZAMAN.

1. Plenary speaker and chaired sessions in the 4th INTERNATIONAL CONFERENCE ON PUBLIC HEALTH 2018 in Bangkok, Thailand from 19th to 21st July 2018.
2. Member of the Scientific Review Committee in the 4th & 5th INTERNATIONAL CONFERENCE ON PUBLIC HEALTH 2018 & 2019 in Bangkok, Thailand & Kuala Lumpur, Malaysia.
3. Plenary speaker & Organizer of the 5th International Leh Symposium at Gangtok from 15th to 19th November, 2018
4. Attended National Task Force (TB) workshop of RNTCP at Delhi as Chairman, Zonal OR (NE Zone) on 14th April 2018.
5. Selected Member of National Operational Research Committee under RNTCP, Govt. of India and attended meeting of the National Research Committee at Nirman Bhawan, Delhi on 8th -9th April 2019.
6. Worked as Monitoring Team member for Coverage Evaluation Survey 2018 under NIHF, Govt. of India
7. Elected Editorial Board member of Indian Journal of Public Health (IJPH) for 2019-21.
8. Working as trained Physician & Coder under AIIMS Technical Support Unit for Cause of Death in India from December 2018 till date.
9. Chaired a Session at the 46th Annual National IAPSM conference held at IGMC, Shimla from 8th to 10th March 19.
10. Organizing Committee member and participant of

- National Conference on Toxicology (TOXOCON) at SMIMS from 6th -7th April 2018
11. Organizing Committee member and participant of East Zone YUVA FOGSI Conference at SMIMS from 22nd -24th Nov 2018.
 12. Attended 3 days MCI Curriculum Implementation Support Programme (CISP) from 13-15 Feb 2019 at MCI Regional Centre for MET at Jorhat Medical College, Jorhat, Assam.
 13. State Nodal Person for organizing IAPSM World Health Day celebration at SMIMS, Gangtok on 7th April 2018.
 14. Participated & successfully completed Marathon held on 25th Nov 2018 at Singtam, Sikkim for TB Free Sikkim.
 15. Chairperson for a session in the CME on Stroke & Neurointerventional update at SMIMS on 13th April 2018
 16. Selected Associate Editor, Manipal Journal of Medical Sciences for 2018-20
 17. Member- Institutional Academic Integrity Panel (IAIP) of SMIMS
 18. External Member- Departmental Academic Integrity Panel (DAIP) of Dept. of Anatomy, SMIMS.
 19. External Member- Departmental Research Protocol Evaluation Committee of Dept. of Microbiology, Dept. of Anatomy & Dept. of Medicine, SMIMS
 20. Member- Prospectus Revision Committee, SMU
 21. Received SMU Pride award as an IQAC Team member for NAAC accreditation of SMU
 22. Selected as a NAAC Assessor under UGC, Ministry of HRD, Govt. of India.
 23. Central Assessment Programme (CAP) Custodian of SMU from January to March 2019.
 24. Member of the Institutional MCI Curriculum Committee of SMIMS.
 25. Attended sensitization workshop on Research Grants & Publication at SMIMS, Gangtok on 11th May 2018
 26. Attended workshop on Cochrane Systematic Review & Meta-analysis at SMIMS, Gangtok from 5th Dec to 7th Dec 2018 by Cochrane South Asia Directorate at CMC, Vellore.
 27. Attended SMILE Leadership Phase -2 training at SMIMS, Gangtok on 19-20 Feb 2019.
 28. Participated in SMILE Leadership Phase-2 workshop held on 26th March 2019 at SMIMS.
 29. External Examiner for PG (MD Community Medicine) at RIMS, Imphal under Manipur University & UG Examiner at Burdwan Medical College under WBUHS.
 30. Resource Person & Organizing Secretary for Sensitization Programme on RNTCP for Doctors & Nurses at SMIMS, Gangtok on 27th March & 28th March 2019.
 31. Resource Person for the Bioethics induction programme for MBBS students on 27th July 2018 & BPT, Bsc Nursing, MHA & Medical Biotechnology on 2nd March 2019 from UNESCO Chair of Bioethics, Sikkim Unit.
 32. Working as Central Team Member in Annual Sentinel Surveillance for HIV Infection under National Institute, AIIMS, New Delhi from Dec 2018 till date.
 33. Additional member secretary- Anti Ragging Committee, SMIMS
- DR SUMIT KAR.**
1. Attended a workshop Publication skill development programme as a part of faculty development programme at SMIMS on 27th March 2019
 2. Selected member of Editorial Board of SMU Medical Journal in 2018.
 3. Member of Institutional Purchase committee SMU
 4. Member of Publication Evaluation Committee SMIMS
 5. As External examiner in University examination at west Bengal university of health sciences
- DR. NASRIN BANU LASKAR.**
1. Member of the Scientific Review Committee in the 4th & 5th INTERNATIONAL CONFERENCE ON PUBLIC HEALTH 2018 & 2019 in Bangkok, Thailand & Kuala Lumpur, Malaysia.
 2. Chaired a Session at the 46th Annual National IAPSM conference held at IGMC, Shimla from 8th to 10th March 19.
 3. Scientific Committee member for the 2nd Global Public Health Conference 2019 (GlobeHEAL 2019) held in Colombo from 14th to 15th February 2019.

4. Plenary speaker and Chaired sessions in the 4th INTERNATIONAL CONFERENCE ON PUBLIC HEALTH 2018 in Bangkok, Thailand from 19th to 21st July 2018.
5. Attended workshop on Cochrane Systematic Review & Meta-analysis at SMIMS, Gangtok from 5th Dec to 7th Dec 2018 by Cochrane South Asia Directorate at CMC, Vellore.
6. Organizing Committee member and participant of East Zone YUVA FOGSI Conference at SMIMS from 22nd -24th Nov 2018.
7. Worked as Monitoring Team member for Coverage Evaluation Survey 2018 under NIHF, Govt. of India
8. Working as trained Physician & Coder under AIIMS Technical Support Unit for Cause of Death in India from December 2018 till date.
9. Chairperson: Stage Management Committee, Convocation; SMU.
10. Member: Anti Ragging Committee, SMIMS
11. Member: Departmental 'Prevention of Workplace Sexual Harassment' Committee, SMU.
12. Central Assessment Programme (CAP) Custodian of SMU from April to June 2018.

DR BINU UPRETI

1. Member and attended the 4th INTERNATIONAL CONFERENCE ON PUBLIC HEALTH 2018 in Bangkok, Thailand from 19th to 21st July 2018.
2. Member of the Scientific Review Committee in the 4th & 5th INTERNATIONAL CONFERENCE ON PUBLIC HEALTH 2018 & 2019 in Bangkok, Thailand & Kuala Lumpur, Malaysia.
3. Member of HPV programme Govt. of Sikkim.
4. Working as trained Physician & Coder under AIIMS Technical Support Unit for Cause of Death in India from December 2018 till date.
5. Stage Management Committee, Convocation; SMU.
6. Member: Anti Ragging Committee, SMIMS
7. Member: Departmental 'Prevention of Workplace Sexual Harassment' Committee, SMU.
8. Participated as a resource person in the "Stroke & Neuro intervention update" 2018 at SMIMS, Gangtok on 13th April 2018 Chaired a session on "Epidemiology of Strokes".

9. Resource person for PhD research course work for the session 2017-2018 under Sikkim Manipal University at Sikkim Manipal Institute of Medical Sciences, Gangtok.

DR. TSHERING DOLKAR

1. Attended a workshop : Publication skill development programme as a part of faculty development programme at SMIMS on 27th March 2019
2. Attended a Workshop : RNTCP sensitization program for faculty on 28th March 2019

DR. SHRADDHA DEOKOTA

1. Member of Stage Management Committee, Convocation, SMU
2. Attended a workshop : Publication skill development programme as a part of faculty development programme at SMIMS on 27th March 2019
3. Attended a Workshop : RNTCP sensitization program for faculty on 28th March 2019

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

1. Research project titled "Improving health and nutritional status of vulnerable segment of population in east Sikkim 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.
2. 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/-.

7. Student Activities (Curricular/Co-curricular)

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

8. New Initiatives : -----Nil-----
9. Clinical trial : -----Nil-----
10. Placement Record (Department wise) :
Dr Prabhat Moktan joined as medical officer in Mangan District Hospital, Sikkim

DEPARTMENT OF DENTAL SURGERY



1. Introduction

The department of Dental Surgery started functioning in the year of 1999 along with other clinical dept. of 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.

The Department 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 Department deals with the diagnosis and management of patients with Orofacial diseases and trauma. The department works in collaboration with other clinical and para clinical specialties 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.

2. Teaching Staff

Sl.No	Name	Designation
1	Colonel(Dr).Satish Gupta	HOD & Professor
2	Dr. Atanu Bhanja	Associate Professor
3	Dr. Sandeep Kashyap	Assistant Professor
4	Dr. Gaveshana Rai	Senior Resident
5	Dr. Mandira Gurung	Senior Resident
6	Dr. Archana Sharma	Emergency Dental Officer

1. Non-Teaching Staff

Sl.No	Name	Designation
1	Mrs. Puspa Kumari Chettri	Sister-in Charge
2	Mrs. Madhu Sharma	Dental Technician
3	Mr. Cherakh Tamang	Oral Hygienist
4	Mrs. Passing Tamang	Junior Assistant
5	Mrs. Laxmi Manger	Attender
6	Ms. Phurba Lepcha	Attender

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

2. Details of Conference/ Workshop/ Seminar/ CME attended.

1) Conference Attended: Dr Atanu Bhanja

1) "TMJ and Neuromuscular pain management & Evidence based interceptive care and recent advances in orthodontics" 20th Annual conference; Indian Dental Association, 18th Nov, 2018; IDA North Bengal Local Branch, Siliguri

2) Workshop/CME/Symposium attended:

Sl.No.	Date	Topic	Funding
1.	2018 15 th - 17 th Mar	“ Workshop on Academic leadership” at SMIMS, Gangtok	Ramdas M. pai & Mrs Vasanthi Pai Endowment Fund
2.	2018 13 th April	workshop on “Stroke and Neuro Interventional update” at smims, Gangtok	Ramdas M. pai & Mrs Vasanthi Pai Endowment Fund
3.	2018 29 th Apr	Workshop on “Perfect Endodontics the simple ways” IDA Gangtok and Coltene at Gangtok	Self-funded
4.	2018 6 th May	Workshop on “Post & Core” organized by IDA North Bengal and GC India at Siliguri	Self-funded
5.	2018 17 th June	workshop on “ Starting your implant practice- rule of thumb” organized by IDA North Bengal at Coochbehar	Self-funded
6.	2018 30 th June	One-day masterclass on “Immediate Implantation Demystifying the Biologic & Periodontal Variables to achieve Optimum Aesthetics” organised by Straumann Dental India in Kolkata . (Certificate not provided)	Straumann Dental India
7.	2018 1 st July	Minor Oral Surgery- A question of access Organised by IDA, W.B. State Branch in Kolkata	Self- funded
8.	2018 7 th July	“Access to Obturation” Organised by IDA, W.B. State Branch in Kolkata	
9.	2018 29 th July	“ Smile Designing with IPS e.max” Organised by IDA, North Bengal Local Branch at Siliguri .	Self
10.	2018 9 th September	“Endo – Extravaganza: Clinical Tips and Tricks in endodontics.....” Organised by IDA, North Bengal Local Branch at Siliguri .	Self
11.	2018 5 th to 7 th December	“Systematic Review and Meta – analysis” Research unit, SMIMS, Sikkim Manipal University, Gangtok	Ramdas M. pai & Mrs Vasanthi Pai Endowment Fund

- 3 a. Dr. Atanu Bhanja: Invited Speaker at North Bengal Dental College on “ABC’S of trauma”- organised by IDA North Bengal Branch on 3rd Feb, 2019
- b. Dr. Atanu Bhanja: Attended SMILE phase 2 prog at SMIMS on 'Neuro Linguistic Programming' on 19th-20th Feb, 2019
- c. Col (Dr) Satish Kumar Gupta attended workshop on : sensitization program cum workshop on availing research grant and publication on 11 May 2018.
- d. Dr Sandeep Kashyap attended theatre of oppressed 3 days workshop in SMIMS from 1st to 3rd feb 2018
- e. Dr Sandeep Kashyap attended Basic course workshop in SMIMS from 27th to 29th March 2018

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

S No	Name of the Faculty member/ Author	Title of Publication	Name of journal/Book	Details of publication
1	Dr. Sandeep Kashyap	Comparison of scalpel versus soft tissue diode laser for biopsy of oral lesions	International journal of oral care and research	International Journal of Oral Care and Research, April-June 2018;6(2):50-55
2	Dr. Sandeep Kashyap	Buccal fat pad for closure of orol antral and oro nasal communication: Study of 16 cases	International journal of oral care and research	International Journal of Oral Care and Research, April-June 2018;6(2):27-31
3	Dr Sandeep Kashyap	Evaluation of dental anxiety in patients undergoing extraction of teeth	International journal of preventive and clinical dental research	International Journal of Preventive and Clinical Dental Research, April-June (Suppl) 2018;5(2):13-17
4	Dr Sandeep Kashyap	Quality of life of patients having periodontal diseases in Karnataka, India	International journal of preventive and clinical dental research	Accepted for publication
5	Dr Sandeep Kashyap	Histopathological evaluation of dental follicle associated with radiographically normal impacted mandibular third molars	Annals of maxillofacial surgery	Ann Maxillofac Surg. 2018 Jul-Dec; 8(2): 259-264

7. Details of paper presented by the Faculty/ students in Conference/Seminar : Nil

8. Faculty Achievement -

- Colonel (Dr). Satish Gupta has been selected and appointed as "Editor of International Journal of Dentistry and Dental Practices".
- Dr. Atanu Bhanja has received reviewer recognition from Medical Journal of Armed Forces India.
- Dr. Atanu Bhanja has been selected for 'SMILE'- leadership development program.

9. Ongoing Research projects details

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

10. Students activities (curricular/Co-curricular)

- Dr. Atanu Bhanja is member of College Cultural Committee.
- Dr. Atanu Bhanja is member of Convocation Committee.
- Dr. Atanu Bhanja is member of Anti-Ragging committee.

11. New Initiatives:

- Establishment of "Dental Implant Centre" in CRH first of its kind in the state of Sikkim.
- Procurement of instruments, pace, gadgets and material to keep with the modernization in dentistry for effectiveness & efficient treatment.

12. Clinical Trial: Nil

DEPARTMENT OF DERMATOLOGY



Department of Dermatology

Year of establishment – 2000

1. Objective: To provide highest quality healthcare for patients with skin disease through excellent teaching, quality research and provision of empathetic care.

2. Number and Names of Faculty/ Staff (Teaching and Non-Teaching).

A. Teaching staff

Sl.No.	Name	Designation	Qualification
1.	Dr. R. L. Sharma	Associate Professor and Head	MD Dermatology
2.	Dr. Rekha Sharma	Junior Resident	MD Microbiology
3.	Dr. Sangay Chopel Bhutia	Junior Resident	MBBS

B. Non-Teaching staff

Sl.No	Name	Designation	Qualification
1.	Mrs. Rebika Bardewa	Nurse	ANM
2.	Mrs. Salima Kharel	STD Counsellor	MA Sociology
3.	Ms. Bimala Chettri	Attender	Class X Passed
4.	Mrs. Passang Tamang	Clerk	BA (Graduation)

3. A. LIST OF CONFERENCES AND WORKSHOPS ATTENDED

Sl. NO.	TITLE	CONFERENCE/ WORKSHOP	PARTICIPANT	DATE
1.	ATTENDED WORKSHOP	SENSITIZATION CUM WORKSHOP ON AVAILING RESEARCH GRANT AND PUBLICATION	DR. REKHA SHARMA	11 MAY 2018
2.	ATTENDED WORKSHOP	HOSPITAL INFECTION CONTROL	DR. REKHA SHARMA	25-26 MAY 2018
3.	ATTENDED CONFERENCE AND WORKSHOP	IADVL, DERMACON 2019 BANGALORE	DR. R. L. SHARMA	JAN 2019

3. B. LIST OF MEDICAL CAMPS ATTENDED

Camp Report for the month of August - 2018

Sl No	Camp Venue	Specialist	Department	OPD Nos
1	Tashiding, West Sikkim 31st August 2018	Dr Saunya Sampad	Medicine	215
		Dr Santosh P Kesari	ENT	60
		Dr D P Rai	Cardiology	81
		Dr S C Lamtha	Gastroenterology	77
		Dr Gyani J Biruah	Neuro Surgery	43
		Dr Anubhav Verma	Orthopedics	111
		Dr PK Singh	Ophthalmology	23
		Dr Nikhil Sebastian	OBG	91

		Dr Lydia Rai	Paediatrics	115
		Dr Sandeep Kashyap	Dental	43
		Dr Bikram Kharga	Paediatrics Surgery	101
		Dr Prakash Koirala	Respiratory Medicine	105
		Dr Rekha	Dermatology	78
		Dr Rinzi L Bhutia Dr Sonakshi Ale	Physio Therapy	38
			Total	1281

Camp Report for the month of Sept - 2018

SI No	Camp Venue	Specialist	Department	OPD Nos
1	Tokal bermoik, South Sikkim 29th Sept 2018	Dr Prakash Koiral	Resp Medicine	92
		Dr Prena Chettri	Cardiology	31
		Dr Rekha Sharma	Dermatology	44
		Dr Mandira Gurung	Dental	21
		Dr P K Singh	Ophthalmology	65
		Dr Bishal Chettri	Orthopedics	41
		Dr Santosh Kesari	ENT	36
		Dr Lydia Rai	Paediatrics	45
		Dr Madhulata	OBG	29
				Total

Camp Report for the month of Dec - 2018

SI No	Camp Venue	Specialist	Department	OPD Nos
1	Health Expo, Dentam, West Sikkim 1st-2nd Dec 2018	Dr Kriti	ENT	131
		Dr Rekha	Dermatology	88
			Total	219

Camp report for the month of January - 2019

SI No	Camp Venue	Specialist	Department	OPD Nos
1	Titan Company-Jewellery Section, Majitar 15th January 2019	Dr Rekha Sharma	Dermatology	22
			Total	22

Camp Report for the month of March - 2019

SI No	Camp Venue	Specialist	Department	OPD Nos
1	Titan Company-Jewellery Section, Majitar 11th March 2019	Dr Krishna	Dermatology	15
			Total	15

4. Details of paper published by the faculty:

- Sharma RL, Sharma R, Zaman FA. Analysis of cases of Dermatological referrals and their systemic correlation in a tertiary care hospital in Gangtok: A prospective study. Int J Res Dermatol 2018;4:570-3.
- Sharma RL, Sharma R. Hailey-Hailey disease, Case report of a rare disease. IAIM2018;5(7):94-98.

- Sharma R, Adhikari L, Sharma RL. Increased resistance to antifungal agents by dermatophytes isolated from Sikkim, a himalayan state of India. IJSR2018;7(4):419-22.

5. New Initiatives implementation:

In future planning to organize workshop among AMSONIANS

- b) Dr Humsheer Singh Sethi¹, Dr Mohonish N Chettri², Dr Subhasish Mukherjee³, Dr S Das⁴, Dr S Tamang⁵, Dr Sridutt S6 “The Relationship between Obstructive Sleep Apnea and the Nasofacial Anthropometry of Sikkimese Subjects” :JMSCR Volume 06 Issue 02 February 2018.

International

- a) Dr. Mohonish N Chettri “Haemostasis & Analgesia with Autologous Platelet Rich Plasma in Tonsillectomy”: The Journal of Laryngology & Otolology, UK. Paper Accepted

5. Details of faculty achievement (Certificates/ awards of participation in any CME/workshop/ paper presentations/poster presentation/book publication /academic & non-academic award /fellowship /degree certificate /research grant award/additional post and position in details if any.

Awards of Participation in Workshop

- 1) Dr. Santosh Prasad Kesari awarded “Best Cadaveric Temporal Bone Dissector” & Successfully completing the live otology & Cadaveric Temporal Bone Dissection held on 1st & 2nd December 2019 at CNMC & H, Kolkata.

Poster/Paper presentation

- 1) Dr. Mohonish N Chettri was invited to present a talk on CONVENE 2019 in Guwahati on 23rd 24th March 2019 by Guwahati AOI Chapter.
 2) Dr. Mohonish N Chettri presented paper “Brief overview on non-technical skills for ENT surgeons” at NEBAOICON Imphal, RIMS on 18/11/2018.
 3) Dr. Santosh Prasad Kesari present the paper “The study the risk factors for laryngophyngaeal reflex among Sikkimese population - A Hospital bases study” on 14th Asia Oceania ORL- HNS Congress and 71st Annual Conference of AOI at Hyderabad on 9th to 13th January 2019.

Workshop/CME/Seminar/Conference attended

1. Dr. Santosh Prasad Kesari attended hand on Cadaver Dissection and Live Surgery in 5th International Rhinoplasty Workshop held at MIMER Medical College on 14th-16th February 2019 at Pune, Maharashtra as a delegate.
 2. Dr. Santosh Prasad Kesari attended 5th Surgical workshop on Snoring and Sleep Apnoea- Basic and

Advance on 2nd and 3rd February 2019 held at Chennai, Tamil Nadu.

3. Dr. Santosh Prasad Kesari attended live surgical workshop on Optimising the Outcomes in ENT Surgeries on 4th & 5th August 2018 at Raj Bhavan Road, Somajiguda, Hyderabad as a Delegate.
 4. Dr. Santosh Prasad Kesari attended 14th Asia Oceania ORL- HNS Congress and 71st Annual conference of AOI at Hyderabad on 9th to 13th January 2019 as delegate.
 5. Dr. Santosh Prasad Kesari Assistant Professor participation live Otology & Cadaveric Temporal Bone dissection on 1st -2nd of December 2018 at CNMCH & h. Kolkata.
 6. Dr. Mohonish N Chettri attended workshop on Consumer Protection Act on 25th September 2018 at MEU Hall of SMIMS.
 7. Dr. Mohonish N Chettri attended CONVENE 2019 in Guwahati on 23rd 24th March 2019 hosted by Guwahati AOI Chapter.
 8. Dr. Mohonish N Chettri attended 38th Annual Conference of the Neuro-Otological & Equilibriometric Society (NES) of India held from 29th - 31st March 2019 at the Chancery Pavilion, Bengaluru, Karnataka and became a member of the society.
 9. Dr. Mohonish N. Chettri attended Conference “NEBAOICON” at Imphal , RIMS at on 16/11/2018 to 18/11/2018.
 10. Dr. Kriti Bhujel attended at 47th Annual Conference of The Association of Otolaryngologists of India west Bengal branch on 7th and 8th December 2018 at Lataguri, West Bengal.
 11. Dr. Kriti Bhujel attended and chairperson 3rd Annual Conference Live Surgical Workshop & Cadaver Dissection on 14th to 16th December 2018 at Siliguri, West Bengal.
 12. Dr. Tenzing Jigme Bhutia attended Conference “NEBAOICON” at Imphal , RIMS at NEBAOICON Imphal, RIMS on 16/11/2018 to 18/11/2018.

6. Ongoing research projects in details (Title, name of the Investigator, type of research and details of grants if any) : Nil

7. Students activities [curricular (STS projects, poster, seminar, journal, PBL, tutorials, case presentations, workshop ,if any),Co-curricular (quiz,

DEPARTMENT OF FORENSIC MEDICINE & TOXICOLOGY



1. Department of Forensic Medicine & Toxicology, SMIMS has a well-equipped and established Forensic Medicine & Toxicology department for Under Graduate Teaching of MBBS course and also have facilities for opening post graduate course in Forensic Medicine. The department is headed by Prof. (Dr.) Prateek Rastogi, with nearly 14 years of teaching experience. It is one of the few private Medical Institution in India having medicolegal autopsy facility.

FACILITY:

1. Mortuary with autopsy and embalming facility.
2. Cold chamber, having preservation facility for 4 dead bodies with temperature charting on regular basis.
3. Department museum with upgraded laboratory and library for UG teaching.
4. Separate laboratory for anthropology, histopathology and toxicology related works.
5. Demonstration room with audiovisual aids.

2. Number of Faculty (Teaching & Non- Teaching)

A. Teaching Staff:

- a. **Professor & HOD** : Dr. Prateek Rastogi
- b. **Associate Professor** : Dr. Ashim Mishra
- c. **Assistant Professor** : Dr. Karma Mingur Diki Bhutia
- d. **Tutor** : Dr. Bhargava Ram D

B. Non-Teaching Staff:

- a. **Sr. Assistant** : Binay Tamang -Grade -III
- b. **General Duty Worker** :
 - : Tashi Tsh. Bhutia - Grade - I
 - : Bijay Rawat - Grade - II
 - : Tilak Gurung -Contractual

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

- i) The 12th Annual National Conference of Indian Society of Toxicology was organized by the department and was attended by nearly 150 delegates representing over 25 Indian states, as well as Singapore and Nepal on 6th-7th April 2018. The theme "Hugs not Drugs", was chosen looking at the high rate of substance abuse prevalent all over India.
- ii) The department launched the Indian Society of Toxicology Life Support Course, a pioneering program for practical clinical toxicology training for healthcare professionals in the management of patients exposed to poisons, toxins, chemicals, & drug overdoses with bedside simulation training at Central Referral Hospital under aegis of Dr. Ramdas Pai and Mrs. Vasanthi Pai Endowment Fund and trained around 50 participants comprising of Emergency physicians and staff nurses from Central referral hospital, STNM hospital, Peripheral Hospitals and also from outside state of Sikkim on 7th April 2018.

iii) An under graduate conference 'UG MEDICON 2019' was held on 23rd March 2019 at SMIMS, Gangtok. Approximately 200 students participated in forensic quiz, forensic poster, research poster, event photography and scientific models

4. Details of paper published by the faculty in International/National journal.

- a. **Rastogi P**, Kanchan T, Shenoy D. **Perception of Undergraduate MBBS Students towards Integrated Teaching in Forensic Medicine.** Anil Aggrawal's Internet Journal of Forensic Medicine and Toxicology [serial online], 2018; 19, (2) (July - December 2018) Available from: http://anilaggrawal.com/ij/vol_019_no_002/papers/paper003.html.
- b. Sesen, Shetty BSK, **Rastogi P**, Rao PPJ, Shetty H P, Esmail, Kotian M S. **Knowledge, Attitude Vis-À-Vis to Medico Legal Autopsies among the Non-Teaching Staff in a Private Medical College in Mangaluru.** Medico-Legal Update, 2018;18(1): 172-177.
- c. **Rastogi P**, Xavier D, Mallik E, Shankar S, Kotian MS. **Road Safety in Mangalore-an Observation.** Journal of Indian Academy of Forensic Medicine, 2018;40(1):57-64.
- d. Guliani A, **Rastogi P**, Kotian MS, Babu YPR. **Gender Identification from hyoid bone-an autopsy study.** Journal of Indian Academy of Forensic Medicine, 2018;40(3):307-310.
- e. Verma V, **Rastogi P**, Richhariya D, Thapa A, Punidha K, Sharma C. **Mastery learning of Toxicology life support skills by FMT residents using simulation technology in India.** Journal of Indian society of Toxicology, 2018;14(2): 35-41
- f. **Bhulia Karma MD**, Jena MK. A Retrospective Based Study on Profile & Pattern of Cervical Injuries, Journal of Indian Academy of Forensic Medicine, 2018, Vol. 40, No. 4; 375 - 382.
- g. Das S, **Mishra. A**, Patnaik. K.K, Mohant SN. A cross sectional study of female married victims of domestic violence in a tertiary care hospital. Indian Journal of Forensic Medicine & Toxicology, 2018;12(1)31-35
- h. **Mishra A**, Mohanty SN, Rastogi P, A Study on Snake Bite Poisoning in a Tertiary Care Hospital in Rural Odisha, India. J Punjab Acad Forensic Med Toxicol 2019;19(1)

i. Barman S, **Bhulia Karma MD**, **Mishra A**, **Rastogi P**, Can Chronic Heart Disease Lead to Suicidal Ideation? - A Case History of a Determined Suicide. Accepted in Egyptian Journal of Forensic Sciences - EJFS-D-19-00037.

5. Details of the faculty achievement:

Dr. Prateek Rastogi:

- a. Attended workshop on "Bedside Management of Toxicological Emergency" on 7th April 2018 at SMIMS, 5th Mile Tadong, Gangtok, under the aegis of the Indian Society of Toxicology.
 - b. Organizing chairman at 12th Annual National Conference of the Indian Society of Toxicology, 6th-7th April 2018 at SMIMS, 5th Mile Tadong, Gangtok.
 - c. Delivered a Guest lecture on "**Heavy Metal Poisoning**" during "ISTOLS masterclass and workshop" on 24th-25th June 2018 at Medanta-The Medicity Hospital, Gurugram, Haryana.
 - d. Delivered a Guest lecture on "**People living with HIV and AIDS-Medicolegal issues**" during National CME on "Preventing Medicolegal Issues in Medical Practice-Emerging Challenges" on 9th October 2018 at Tezpur Medical College, Assam.
 - e. **Judge** for PG oral presentation during 26th Annual Conference of Karnataka medico-legal society (KAMALSCON-2018), at Kasturba Medical College, Manipal on 4th November 2018.
 - f. **Organizing chairman** 'UG MEDICON 2019' conference on 23rd March 2019 at SMIMS, 5th Mile Tadong, Gangtok.
- Competed FAIMER Fellowship from Manipal University.
 - Completed Advance Course in Medical Education from ST. John Medical College, Bangalore
 - President, Indian society of Toxicology
 - Member MCI Cell, IEC, IPC, Institutional grievance Redressal committee SMIMS
 - Member of Maternal Death Review Committee, CRH.
 - 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, NTR University of Health sciences, Goa

University, AIIMS Delhi, SS university Assam.

- 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

Dr. Ashim Mishra:

- a. General Secretary, Indian Society of Toxicology.
- b. Organizing Secretary, National conference of Indian Society of Toxicology and ISTOLS workshop at SMIMS, April-2018.
- c. Attended workshop on “Bedside Management of Toxicological Emergency” on 7th April 2018 at SMIMS, 5th Mile Tadong, Gangtok, under the aegis of the Indian Society of Toxicology.
- d. Resource person in Continuing Nursing Education organized by SMCN on Legal aspects of Nursing. April 2018.
- e. Attended Clinical skills workshop organized by Department of Pediatrics, April-2018
- f. Resource person in Revised MET workshop-2018 conducted by MEU, SMIMS on topics Lesson plan, MCQs and Self-directed learning.
- g. Attended ISTOLS and Master class and training in High fidelity mannequin at Medanta Hospitals, Gurgaon June, 2018.
- h. Resource person in Bioethics in Research methodology training of postgraduate Students, SMIMS July, 2018
- i. Delivered talk on System approach at SMIMS as MEU member Aug-2018.
- j. Completed certificate course in Introduction to Good Clinical Practice, Ethics of Ancillary care, Children and Clinical research, Reviewing Genomic Research Ethics and Best practices in sharing individual level Research data by Global health network, Liverpool school of Tropical Medicine and East African consortium for Clinical research September-October'2018
- k. Attended workshop on NLP training and Emotional intelligence organized by HR department, SMU as requirement of SMILE training Feb-March-2019.

- l. Attended publication skill workshop organized by Department of Pharmacology, March-2019
- m. Organizing Secretary, UG Medicon-2019, 1st Undergraduate conference at SMIMS, March-2019.
- n. Organizing team member in National conference of OBG'Nov'2018 and National conference of Orthopedics'March'19.
- o. Editorial board member and Reviewer of JIST, a medline indexed peer reviewed journal.
- p. Completed Effective Decision making and problem solving from University of California, Irvine through Coursera.
- Member of Team IQAC in NAAC peer team visit, 2018
- Coordinator, Value workshop by HR department, 2018
- Member, Sikkim Medical Council.
- Member of Ethics committee, Sikkim Medical Council.
- Member, Medical education unit, SMIMS.
- Coordinator, IQAC, SMIMS.
- Member, Prevention of Sexual Harassment at workplace Committee, SMU.
- Member of steering committee of UNESCO Bioethics, Sikkim unit (Haifa).
- Examiner for MBBS, West Bengal University of Health Sciences
- Examiner, MHA, Sikkim Manipal University
- SMILE-III Leadership program by Manipal University.
- Nodal Officer, National Institutional Ranking Framework-2018, SMIMS
- Team member for ranking of SMIMS by India Today, Outlook Dristi and Knowledge Review-2018
- Cultural Vice chairman, SMIMS.
- Teacher Guardian

Dr. Karma Mingur Diki Bhutia

- a. Presented paper on “Atypical case of Vinegar Poisoning” at 12th Annual National Conference of the Indian Society of Toxicology, 6th-7th April 2018 at SMIMS, 5th Mile Tadong, Gangtok.
- b. Presented poster on “Corrosive Acid Poisoning”

at 12th Annual National Conference of the Indian Society of Toxicology, 6th-7th April 2018 at SMIMS, 5th Mile Tadong, Gangtok.

- c. Treasurer at 12th Annual National Conference of the Indian Society of Toxicology, 6th-7th April 2018 at SMIMS, 5th Mile Tadong, Gangtok.
 - d. Attended workshop on “Bedside Management of Toxicological Emergency” on 7th April 2018 at SMIMS, 5th Mile Tadong, Gangtok, under the aegis of the Indian Society of Toxicology.
 - e. Attended CME cum workshop in the “Stoke & Neuro-interventional Update 2018” conducted by Department of Radiology & Medicine at SMIMS, Gangtok on 13th April 2018.
 - f. Attended “Workshop on Intellectual Property Rights (IPR)” held on 21st September 2018 at SMIMS, Gangtok.
 - g. Attended “Workshop on Consumer Protection Act” held on 25th September 2018 at SMIMS, Gangtok.
 - h. Treasurer 'UG MEDICON 2019' conference on 23rd March 2019 at SMIMS, 5th Mile Tadong, Gangtok
- Single point of Contact for NAAC, Dept. of FMT, SMIMS
 - Member, Departmental Grievance Committee
 - Teacher Guardian

6. Ongoing research project details:

- a. Study on knowledge and attitude about organ donation among medical students in Sikkim, Renuka Dhaka, 2016 MBBS, Dr. Prateek Rastogi (Guide).
- b. Stress among medical students of a tertiary care hospital at Sikkim and its epidemiological correlates. K.V. Megha (2015 MBBS), Dr. A Mishra (Guide).
- c. Accreditation and Ranking of Health Care Institution, a requirement for completion of SMILE leadership program. Guide: Dr. Sandeep Krishnan, People Business, Bangalore, Mentor: Mr. M.S. Sridhar, Head HR, SMU. Aug-2018.

7. Student Activities:

- a. The department organized the first ever UG medical Conference with 214 participants: 37 scientific models, 11 scientific and 18 forensic posters were presented by the students. The preliminary round of forensic quiz had 28 teams

and in the finals 6 teams participated with Dr. A. Mishra as the quiz master.

- b. 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.
- c. The students are also posted for rotatory internship after completion of Final MBBS examination.

8. New Initiatives:

- a. Introduced new innovative methods of teaching like organizing model court room for legal procedures, debates on topics of medicolegal interest.
- b. Introduced Problem base learning in toxicology and case studies in forensic pathology.
- c. Plan to start MD course in forensic medicine.
- d. Plan to start Poison Information Centre under FMT dept.
- e. Plan to organize RFSL visit for undergraduate students.



DEPARTMENT OF MICROBIOLOGY



1. Department [brief introduction of department (establishment, objective) of the department]

Department of Microbiology was established in March 2000. Previously, it was located in the CRH building. It has been shifted to the New College Building of SMIMS since 2005. Here we have separate laboratories of Bacteriology, Parasitology, Mycology, Serology, Virology, Research laboratory and Tuberculosis laboratory including, departmental library, PG room, Demonstration room, practical hall, museum, sterilization and media room DOTs Microscopy and CBNAAT Center. There is also a Central laboratory at level 3 Main Hospital Building (CRH)

Objective

“Centre of excellence in teaching, research, and quality diagnostic services in medical microbiology,” and “Develop competent, committed, and compassionate healthcare professionals to provide reliable, dependable diagnostic services and carry out innovative, inventive and original research of the highest order in the field of microbiology.”

2. Number & Names of Faculty/staff (Teaching and Non-Teaching separately).

Teaching staff

Sl. No	Name	Designation	Qualification
1.	Dr. Luna Adhikari	Professor & HOD	MBBS, MD
2.	Dr. Jyotsna Kapil	Professor	MBBS, MD
3.	Dr. Dechen Chomu Tsering	Professor	MBBS, MD
4.	Dr. Karma Gyurmey Dolma	Associate Professor	MSc. PhD
5.	Dr. Tsering Yangzom	Assistant Professor	MBBS, MD
6.	Mr. Deepan Gautam	Tutor	MSc

Dr. T.S.K Singh was released from the Department of Microbiology, SMIMS on 8th February 2019 after serving the department for 18 years.

Non-teaching staff

Sl. No	Name	Designation	Qualification
1	Mrs. Sarita Tamang	Junior Lab Technician - I	DMLT
2	Mrs. Sandhya Sharma	Lab Technician - II	BMLT
3	Mrs. Krishna Sharma	Lab Technician - II	BMLT
4	Mr. Dhurba Bhandari	Technician - III	BMLT
5	Mrs. Mary Gurung	Junior Assistant - II	BA, MBA
6	Mr. Anil Baraily	Attendant	-
7	Ms. Ranju Chettri	Cleaner	-
8	Mrs. Juna Rai	Cleaner	-

3. Details of Conference/Workshop/Seminar/CME/ Medical camps/guest lecture conducted by the department -NIL

4. Details of the paper published by the faculty in International/National Journal

- (i) Dr. Rekha Sharma, Dr. Luna Adhikari, Dr. R.L. Sharma. Increased resistance to anti fungal agents by dermatophytes isolated from Sikkim, Himalayan state of India. International journal of scientific research. 2018: 7 (4), 419-422.
- (ii) Tamang P, Singh T S K, Kapil J. Prevalence of carbapenem resistant gram negative bacteria in central referral hospital, Sikkim. International Journal Sc. Res. 2018: 7 (5): 586-88.

5. Details of faculty achievement (certificates/awards of participation in any CME/Workshop paper presentation/poster presentation/book publication/academic & non-academic awards/fellowship/degree certificate/research grant awards/additional post and position in details if any)

- (i) Dr. Dechen C. Tsering attended workshop on story telling exercise for NAAC compliance on 23/2/2018.
 - (ii) Dr. Jyotsna Kapil & Dr. Dechen C. Tsering attended 12th Annual National Conference of Indian Society of Toxicology on 6-7th April 2018.
 - (iii) Dr. Jyotsna Kapil conducted the "Stroke and Neuro-Interventional Update 2018" at Sikkim Manipal Institute of Medical Sciences on 13/4/2018.
 - (iv) Dr. Jyotsna Kapil attended a three day Workshop on "Academic Leadership" on 15th, 16th & 17th March 2018 at Sikkim Manipal Institute of Medical Sciences.
- Dr. Dechen C. Tsering & Dr. Karma G. Dolma attended Sensitization programme cum workshop on availing Research Grant and publication on 11th May 2018.
- (v) Dr. Jyotsna Kapil participated in the STEER the 10th Annual CME in Pediatrics on 12/5/2018 at Sikkim Manipal Institute of Medical Sciences.
 - (vi) Dr. Dechen C. Tsering & Dr. Karma G. Dolma attended Ethics training cum workshop on Good Clinical Practices held on 22nd - 23rd June 2018.
 - (vii) Dr. Jyotsna Kapil participated as Delegate in CME on Nephrology 2018 conference at Sikkim Manipal Institute of Medical Sciences on 13/7/2019.
 - (viii) Dr. Karma G. Dolma attended workshop on Intellectual Property rights (IPR) on 21/9/2018 at Sikkim Manipal Institute of Medical Sciences.
 - (ix) Dr. Dechen C. Tsering attended Essence Programme at Government College, Tadong on

24-26th October 2018, she was a Guest speaker and she spoke on vaccine preventable diseases.

- (x) Dr. Jyotsna Kapil & Dr. Dechen C. Tsering participated in the EAST ZONE YUVA FOGSI 2018 at Sikkim Manipal Institute of Medical Sciences on 22nd - 24th November 2018
- (xi) Dr. Karma Gurmey Dolma attended workshop on "Systematic Review and Meta-analysis on 5 - 7th December 2018 at Sikkim Manipal University.
- (xii) Dr. Dechen C. Tsering attended the 3rd National workshop on Hospital Infection Control at JIPMER, Puducherry on 18th - 23rd February 2019.
- (xiii) Dr. Karma G. Dolma attended conference on Oral presentation & Chair a session on IC4IR, Walailak University, Thailand on 27 - 30th March 2019.
- (xiv) Dr. Jyotsna Kapil, Dr. Dechen C. Tsering & Dr. Tsering Yangzom attended Pharmacology workshop on titled "Publication Skill Development Program" on 27/3/2019 at Conference Hall Level-4, SMIMS.
- (xv) Dr. Tsering Yangzom attended workshop on Sensitization: RNTCP Programme on 28/3/2019 at MEU Hall, SMIMS.

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

- (i) Analysis of molecular diversity of M. tuberculosis strains and its impact on drug susceptibility and prognosis of the patients. PhD scholar - Uttejna Tiwari, Guide - Dr. Luna Adhikari.
- (ii) Morphological and molecular characterization of *Paragonium westermani* occurring in Manipur. PhD scholar - Ms. Tongbram Bhamani Devi, Guide - Dr. T.S.K.Singh.
- (iii) Study on the first Intermediate Snail host of *Paragonium* species in India. PhD scholar - Mr. Umananda Yumna, Guide - Dr. T.S.K.Singh.

7. Students activities (curricular/Co-curricular)

● Didactic Lectures	234
● Demonstrations cum tutorials	178
● Seminar	12
● Journal Club	2

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

CBNAAT machine was installed in the department of Microbiology on 25th April 2018 and started to function since 11th May 2018.

DEPARTMENT OF OBSTETRICS AND GYNAEOLOGY



1. Department brief introduction :OBSTETRICS AND GYNAEOLOGY

INTRODUCTION:

- Department of Obstetrics & Gynaecology was started in 1997 on establishment of Central Referral Hospital (CRH). Subsequently in 2001, it became a part of Sikkim Manipal Institute of Medical Sciences.

OBJECTIVES:

- To be provider of choice for primary obstetric and gynecologic care and to continue a strong research programme which result in the advancement of medical sciences.

VISION

- To be the provider of choice for primary obstetric and gynaecologic care; and to improve Women's Health both today and in the future.

MISSION

- Provide compassionate ,superior quality ,and innovative care to the patient ;and to develop individuals with excellent professional integrity and technical caliber .

OUR GOALS

- To provide the highest quality service to our patients.
- To continuously evaluate the results of our efforts by how effectively we meet the needs of our patients.
- To root the involvement of all levels of faculty and staff in the identification and solution of problems.
- To continue a strong research program which results in the advancement of medical science.
- To be enthusiastic and to think positively.

2. Number & Names of Faculty / staff (Teaching and - Non- Teaching separately.)

UNIT I

Sl. No.	NAME	Qualification	Designation
1.	Dr Anup Pradhan	MD	Professor
2.	Dr. (Col) Sujit Kumar Ghosh	MD	Professor
3.	Dr. Chanda	MS	Asst. Professor
4.	Dr. Salam Sushila	MS	Asst. Professor
5.	Dr. Madhu Shweta Sharma	MS	Senior Resident
6.	Dr. Nokethonu Chaya	MD. Physiology	Antenatal Medical Officer
7.	Dr. Sana Sharfuddin	MBBS	Junior Resident
8.	Dr. Ashita Agagarwal	MBBS	Junior Resident
9.	Dr. Irom Amrita	MBBS	Junior Resident
10.	Dr. Deepty Sinha	MBBS	Junior Resident

UNIT II

Sl. No.	NAME	Qualification	Designation
1.	Dr. Hafizur Rahman	DGO, DNB, MNAMS	Professor
2.	Dr. Pesona Grace Luckshom	MS	Associate Professor
3.	Dr. Annet Thatal	MS	Assistant Professor
4.	Dr. Zigme Dorjee Tamang	MS	Senior Resident
5.	Dr. Gaganpreet Kaur	MS	Senior Resident
6.	Dr. Rinchen Dolma Denzongpa	MBBS, MD Biochemistry	Maternal & Child welfare officer
7.	Dr. Kapil Singh Niranjan	MBBS	Junior Resident
8.	Dr. Spruha Navinbhai Thakkar	MBBS	Junior Resident
9.	Dr. Dipanwita Bhaumik	MBBS	Junior Resident
10.	Dr. Shruti Halder	MBBS	Junior Resident

SMU / SMIMS CENTRAL LIBRARY



1. Introduction

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 ambience for both reflective and collaborative work and study. Its collection of about 17,329 books were used by more than 1370 Active members out of 4506 registered members and other visitor who made 18,230 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.

2. Collection Development and Management

Collection building is one of the important functions of the library that supports academic and research work of the students, faculty, staff and other users. Library collection comprising of books, journals, thesis, reports, standards, pamphlets and other reading material in medical science, Nursing, Physiotherapy, technology, humanities, social sciences and management is considered one of the best in the country and is its greatest asset. The total collection of library as on 31st March 2019 stands as follows:

Collection	Added during 2018-19	Total as on 31 March 2018
Books	1028	17329
E-book (online)	14	105
Journals	148	148
e- Journals	74	74
CD/DVD	38	1108
Thesis	6	62
Medical Dissertation	14	339
News Papers/Mazagine	3	08

3. 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 181 e-journals and 105 e-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 formate.

4. 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 4968 books and other documents to its members during the current year. 18,213 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 5,950 printout to individuals on payment to users and 11,900 prints to faculty & officials, free of charge. It provided 9,981 pages of

photocopies to individuals on payment. The library also supplied 8,556 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 stalled a suggestion box for user's feedback for further improvement of library services.

5. 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	B.A, M.Lib.Isc
3.	Mrs. Geeta Sharma	Asst. Librarian	B.A, B.Lib. Isc
4.	Mr. Khem lal Dulal	Asst. Librarian	B.A,BLib.Isc
5.	Mrs. Champa Adhikari	Asst. Librarian	B.A,M.Lib.Isc
6.	Mr. Ashok Kumar Sundas	Asst. Librarian	BSc.IT, Blib. Isc
7.	Lakpa Doma Bhutia	Library Attendant	Intermediated
8.	Sonam Lepcha	Library Attendant	Metric
9.	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.

5. 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.

DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES



Department of Humanities and Social Sciences division has a confluent range of stimulating high quality undergraduate and postgraduate programmes underpinned with the innovative and professionally-oriented provisions in Business and Education. The Department has successfully completed its seventh year and it has been performing at its level best with an increasing number of students and its demand. At present, we are successfully running B.A. (English, and Sociology), B.Com (Accounting and Finance) and M.Com (Accounting and Finance) programme. Our department is multidisciplinary in its orientation and has succeeded tremendously in working as a team.

At present, we have 12 full time teaching faculties and one part time faculty from SMIT.

List of Teaching Faculty:

SN	Name	Designation	Qualification
1.	Mr. Madan Chettri	Coordinator	M. Com, (UGC-NET) PGDIBO, PGDM, PhD (pursuing)
2.	Ms. Deepa Sharma	Assistant Professor II	M. Com, (UGC-NET) PhD (pursuing)
3.	Mr. Pramesh Chettri	Assistant Professor II	M. Com, (UGC-NET) PhD (pursuing)
4.	Mr. Sumeet Agarwal	Assistant Professor II	M. Com, (UGC-NET)
5.	Mr. Aditya Rai	Assistant Professor II	M. Com, (UGC-NET) PhD (pursuing)
6.	Ms. Srijana Sharma	Assistant Professor III	M.A. MEd
7.	Mrs. Priya Rao	Assistant Professor II	M. A, (UGC-NET) PhD (pursuing)

8.	Mr. Yumnam Surjajeevan	Assistant Professor II	M. A, (UGC-NET), MPhil, PhD (pursuing)
9.	Mr. Prayash Gupta	Assistant Professor III	M. A.
10.	Mr. Uttam Kumar Upadhyaya	Assistant Professor II	M.A. (UGC-NET)
11.	Mr. Suditya Sapcotta	Assistant Professor II	M. A, (UGC-NET), MPhil, PhD (pursuing)
12.	Mr. Bijendra Sharma	Assistant Professor II	M. Com, (UGC-NET)
13.	Mrs. Sonam Lhamu Bhutia (Guest Faculty)	Assistant Professor I	M. Tech

List of Non- Teaching Staff:

Sl no.	Name	Designation
1	Anjana Gurung	Senior Assistant-III
2	Ram Kumari Gurung	Attender
3	Saraswati Darjee	Cleaner
4.	Dew Prakash Sharma	Security Guard

- A special lecture cum interactive session was organised by the Department on 12/10/2018, on the theme **“Banking Services and Customer protection,”** at Lecture Hall 4, Level 5, SMIMS Building. Dr. P.D. Shenoy, former IAS Officer, who is widely acclaimed as a Turnaround specialist and an expert in Industrial Relations, Banking Services and Customer Protection graced the occasion as the Resource Person.
- A Special Lecture was organised by the department on the topic **“Company Secretaries of India,”** at

Lecture Hall 4, Level 5, SMIMS Building. Professor Mahapatra, Department of Commerce Sikkim University graced the occasion as the resource person.

- Students actively participated in collaborative research project on “Digital Banking in Rural India” in association with **University of Pennsylvania, USA and NITTE** on 8th and 9th March, 2019.

FACULTY ACHIEVEMENT

Pramesh Chettri (Assistant Professor II)

- Chettri, Pramesh (2018) "India-China Border Trade Through Nathu La Pass: Prospects and Impediments," *HIMALAYA, the Journal of the Association for Nepal and Himalayan Studies*: Vol. 38: No. 1, Article 7. (**SCOPUS INDEX JOURNAL**). Available at: <https://digitalcommons.macalester.edu/himalaya/vol38/iss1/7>
- Chettri, P. (2018, January). Financial Literacy Among the Tea Garden Labourers in Darjeeling District: An Exploratory Factor Analysis. *International Journal of Management Studies (IJMS)*, 5(1 (1)). **UGC Approved Journal**.
- Contributed a Chapter on Cross Border Trade with Reference to the state of Sikkim in the book of *National Council of Educational Research and Training (NCERT)*.
- Submitted *PHD thesis* on 23th February, 2019 in Sikkim Central University.
- *International Conference*: Presented a paper on Sustainable Entrepreneurship Development organised by Assam University on 29th -30th Nov, 2018.
- *International Seminar*: Presented the paper entitled “Awareness of Financial Products Among Households in Darjeeling District, West Bengal” organised by Surya Sen Mahavidyala.

Prayash Gupta (Assistant Professor III)

- Gorkha, P., 2019. *The Gorkha's Story*. 1 ed. Chhattisgarh: Evincepub Publishing.
- Gupta, P., 2018. Voices Heard, Voices Unheard: Poems of Robin S. Ngangom and Kynpham Sing Nongkynrih. *Daath Voyage*, 3(1).
- Participated on a two- day workshop on Teaching of English: Methods and Approaches,” organised by the Department of English, Sikkim University on 13th and 14th June 2018.

- Conferred “**Global Teacher Award 2018**” by Alert KnowledgeService on 16.09.2018, New Delhi.
- Judged the **Poetry and Elocution Competition** in an Inter School Festival organized by Wandering Souls of Sikkim on 3rd November 2018 at Pakyong.
- Biographical Inclusion in **Asia: Men and Women of achievement** published by Reguerdon Inc., New Delhi, 2018.

STUDENT ACTIVITIES

- The Induction Cum Parent- Teacher Meet 2018 for the new students was held on 1st August 2018 at the University Auditorium.
- Student of the department of HSS participated in *Management Fest-Juvenis 2018* on 10th April 2018, organised by *Sikkim University*. In the said competition, Aadarsh Chhetri, Dharmaraj Chhetri, Sushmita Pradhan & Arju Pariyar, stood first in *Ad – Mad Show*. Similarly, Deepa Kharel & Megha Gupta won in *Business Plan*; Aadarsh Chhetri, Shrishti Thami & Vidhi Thapa won in *Movie Magic*; Gargi Saikia and Chume Ongmoo were runners-up in *Business quiz* and Megha Pradhan bagged the runners- up position in *Ultimate Survivor*.
- Students of the department of HSS participated in The Inter- College Competition Ablaze organized by ICFAI University Sikkim. In the said competition, Sabin Pandey and Karma Tashi won the debate competition; Chogyal and team won the futsal contest; Pawan Singh Shikawat and Tenzing wangpo were runners-up.
- Karma Tashi Yangzom Bhutia and Ajay Chettri of M.Com 2nd semester participated in Victoria ORF-Inter University Debate Competition 2019 on the topic 'Social Media is the New Courtroom for Justice' on 13 February 2019 at the Victoria Memorial Hall, Kolkata.
- Khabi Chettri, Pravash Chettri and Karma Gurmey Bhutia of M.Com 4th semester attended an Orientation Programme on Labour and Globalisation from August 13-17, 2018 at VVGNLI Campus, NOIDA.
- The NSS unit and the department of physiology observed the International Yoga Day on June 21.
- The NSS unit observed the International Drug Day on June 26 at the auditorium.
- The NSS Cell organized a cleanliness drive in and around the campus on 4th September 2018.

- The NSS unit organized a plantation drive on the world environment day on June 5, 2018.
- The NSS unit organized SWACHHATA HI SEVA on 24th September, 2018.
- The NSS unit organized a pledge taking ceremony on the occasion of Rashtriya Ekta Diwas on 31st October, 2018.
- The NSS unit initiated Swachh Bharat Summer Internship, facilitating 56 students of the Department of HSS to conduct cleanliness cum awareness activities in the month of June, 2018.

One of the teams bagged 2nd position in the State level competition in the said internship programme.

NEW INITIATIVE IMPLEMENTATION

- The department has introduced M.A. in English, Sociology and Political Science from the Academic session 2019.
- The Department of HSS signed an MoU with the University of Pennsylvania, USA and NITTE University, Karnataka on 8th of March, 2019 for collaborative Research in the days ahead.

PLACEMENT RECORD

Sl.No	Name	Institution /Organisation/ Qualified NET	Designation
01.	Ongmu Lepcha	Nar Bahadur Bhandari College	Assistant Professor
02.	Pranay Khatiwara	Rhenock College	Assistant Professor
03.	Rahul Kr. Byahut	NIT SIKKIM	Accountant
04.	Tshering Pincho Bhutia	Vinayak Mission Sikkim University	Assistant Professor
05.	Karma Bhutia	ICFAI University	Assistant Professor
06.	Ratish Prasad	Shree Sanskar Academy,MP	Assistant Teacher
07.	Tshering Pincho Bhutia	Shree Sanskar Academy,MP	Assistant Teacher
08.	Dawa Sherpa	Shree Sanskar Academy,MP	Assistant Teacher
09.	Deepan Sharma	Govt of Sikkim	Marketing Assistant, Agriculture Department
10.	Bikash Chettri	Govt of Sikkim	Marketing Assistant, Agriculture Department
11.	Rahul Gurung	Government of Sikkim	Working in RMDD
12.	Dil Kumar Chettri	HDFC Bank	Accountant
13.	Yangchem Doma Lepcha	VMSU	Lecturer
14.	Khinu Maya Gurung	RMDD, Government of Sikkim	
15.	Nitesh Chettri	IRB, Constable	
16.	Tshering Diki Lepcha	HRDD, Govt of Sikkim	LDC
17.	Tshering Ongmu Bhutia	Working in Magnessa	
18.	Norgen Lepcha	Working in MGNREGA	
19.	Bandana Yogi	Thomson Digital, Gangtok	
20.	Mingma Choden	UNS Company	Accountant
21.	Pema Gyatso Sherpa	Qualified NET	
22.	Susmita Subba	Qualified NET	
23.	Pranay Khatiwara	Qualified NET	

To sum up, there has been a holistic development of our department throughout the year. The strength of students' enrollment is increasing a lot in every academic year. There are least dropouts with an

increasing number of dedicated teaching faculties. Focusing on quality education, the Department will be initiating its seventh academic session starting from 22nd July, 2019.

CENTRAL REFERRAL HOSPITAL



First row – left to right

Mr. Mohamed Ali-Assistant Manager, Purchase
Mr. Suraj Sharma-Assistant Manager, Finance
Mr. Ravi Kumar Elpula-Deputy Manager, Pharmacy
Dr. Gautam Dey- Medical Superintendent
Dr. Mingma L Sherpa- Head Operations
Mr. Sachidananda Shettigar - Nursing Superintendent

Second Row- Left to right

Mrs. Breenila Targain-Senior Executive, Operations
Mr. Sonam Rinchen Bhutia-Senior Executive, HR
Dr. Mala Sharma- Executive, Operations
Mr Atul Srivastav- Sr Executive, Finance
Mrs. Priya Ravi- Executive, Operations
Mr. Sanjay Kumar -Assistant Manager, IT
Mrs. Sandhyashree Dash- Executive, Operations
Mrs. Kreeti Pal- Executive, Operations
Mr Sudeep A-Assistant MRO-MRD
Mr. Yogesh Kr. Chaubey- Assistant Manager, Operations
Mr Bikky Pradhan-Junior Engineer, Engineering
Mr. Bunt Agarwal- Assistant Manager, Operations
Mr. Binod Hingmang- Senior Executive, Billing
Mr. Bhim Bahadur Chettri- Junior Executive, Billing
Mr. Arpan Chettri- Asst Manager, Marketing
Dr Remon Chettri- PRO, CRH
Mrs. Sushma Pradhan- Senior PA, MS Office
Mr. Shyam Kumar Limboo- Executive, Marketing

Introduction:

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.

2011: Governing council at its meeting in November 2011 decided to upgrade CRH into Super Specialty hospital and transform CRH into Regional Hub of National repute.

2013: Super specialty facilities became available for the general public.

2014: CRH started capacity building initiatives for its various categories of staff:

- DRONA- Soft skill training for all staff involved in patient care
- CNE- Continuous Nursing Education program for improvement of Nursing skill

2017: Evening Clinic become operational to cater the people of Sikkim.

Implementation of Hospital Information System (HIS).

- 2018:** Creation of additional 120 beds for MCI compliance
- Provision of Mammography services
 - Home Sample Collection of lab investigations for SMIMS and SMIT Campus.
 - Empanelment with PMJAY

Clinical Specialties

- Anesthesiology
- Dental Surgery
- Dermatology
- ENT
- General Surgery
- Medicine
- Obstetrics & Gynaecology
- Ophthalmology
- Orthopaedics
- Psychiatry
- Paediatrics
- Physiotherapy
- Respiratory Medicine

Super-specialties

- Cardiology with Cathlab facilities for Interventions
- Gastroenterology and G.I Oncology
- Neurosurgery
- Neuro Interventional Radiology

Support Services:

- 24*7 Pharmacy services
- 24*7 Casualty
- 24*7 Blood Bank Services
- Dietary Services
- CSSD
- Laundry
- Ambulance
- Mortuary
- Housekeeping
- Mortuary

Diagnostic

- 24*7 Laboratory
- 24*7 Radiology
- Digital Xray
 - Ultrasound
 - CT Scan
 - MRI
 - Mammography
- Other services :
 - ECG & Holter monitoring

- Echocardiography
- Tread Mill Test (TMT)
- Angiography
- Audiometry
- Ocular Coherence Topography

Department of Gastroenterology:

The Department of Gastroenterology was first of its kind in the State of Sikkim, established in December 2012. Since its inception, the department has rendered excellent clinical care, and endoscopic procedure. Our gastroenterology & endoscopy specialists diagnose and treat diseases and disorders of the Gastrointestinal tract and the liver at par with any other benchmark institute in India

Department of Cardiology:

The Department of Cardiology provide a broad range of services in the diagnosis and management of heart disease. The department constitute of a strong team of doctors from various cardiac subspecialties to treat all types of heart disease. The Cardiology department in CRH caters to adults and children with any forms of heart and blood vessel problems. The Cardiology department have a separate Coronary Care Unit so that Patients who are critically ill, very sick, can be admitted to the Coronary Care Unit.

The Department is first of its kind in the State to provide facilities for cardiac care for adult and pediatric interventions in this geographically difficult terrain in the northeast. The department is supported with laboratory facilities including treadmill testing, holter recording, echocardiography, and up to date electrophysiology services.

Central Cath-lab at Cardiology is now equipped with 3-Dimensional Rotational Angiography for Neuro and Peripheral Vascular Interventions.

Department of Neuro-interventional Radiology:

Since this new Superspeciality wing "Interventional Radiology" came into existence at CRH , it has been offering services to the patients of Sikkim like : mechanical thrombectomy for acute stroke, aneurysm coiling for ruptured and unruptured intracranial aneurysm, embolization of AVM (arteriovenous malformation), coiling of pseudo aneurysm in uncontrolled GI bleed, TACE (trans arterial chemoembolization) for hepatocellular carcinoma, uterine artery embolization for fibroids of uterus, intravenous thrombolysis for deep vein thrombosis with placement of inferior vena cava filter to prevent pulmonary thromboembolism, USG/ fluoroscopy guided percutaneous sclerotherapy for

superficial vascular malformations, pre-operative tumor embolization to prevent/reduce blood loss during surgery etc.

Apart from these therapeutic procedures many cerebral angiography (DSA- Digital subtraction angiography) are being done at CRH which can detect intracranial aneurysm, AVM, arteriovenous fistulae, vasculitis etc. USG / CT guided FNAC/Biopsy are being done in routine basis in a scientific way from difficult locations of internal organs.

These diagnostic interventional procedures help to reach a final diagnosis; following which proper treatment could be offered to patients by the treating neurosurgeons and physicians.

Department of Radio-diagnosis & Imaging:

Modern imaging methods in Radio-diagnosis can open a window in the human body, as it were, and supplement the clinical expertise in diagnosing the presence and extent of disease and other ailments. The department of Radio-diagnosis at CRH plays a vital role in a tertiary referral centre for cancer such as the Central Referral Hospital, as it caters to the needs of several departments including the surgical and medical departments.

The department of Radio-diagnosis at Central Referral Hospital provides 24 x7 service with a dedicated team of health care professionals including Trained Radiologist, Technicians and other paramedical & supporting staff with the addition of the new modalities viz. MRI (1.5 Tesla) worth Rs 5.40 Crores, CT (64 Slice - Cardiac CT of Rs 4.00 Crores and Digital X Ray of Rs 1.10 Crores the department is now well equipped to provide the full range of diagnostic imaging services including Computerized Radiography, Ultrasonography (USG) & Colour Doppler, Multi slice Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Mammography and Interventional radiology.

Laboratory Services

A 24 hour Central Laboratory having Clinical pathology, Microbiology & Biochemistry is located in the level III of hospital building. Automated blood cell counter, Semi auto analyser, full auto analyser, Elisa reader are available in the laboratory.

Special features:

- ❖ Internal quality control with Biorad & external quality control program (with CMC, Vellore)
- ❖ Special investigations including molecular profiling is outsourced to external laboratories of national repute.

We cater to all class of patients offering them inpatient admissions ranging from general beds to luxury suites.

Understanding the aspiration of the community, hospital has augmented its capacity by the addition of the following categories of rooms in addition to its existing wards.

(Total 51 single rooms in the hospital comprising) -

- VIP Suite: 2 state of the art VIP suite
- AC Rooms: 10 rooms having both heating and cooling facilities
- Non AC Rooms: 40 rooms

The rooms has been strategically designed with landscaped surroundings and impeccable hygiene for a pleasant experience during the stay in the hospital

Accident & Emergency:

State of art level Trauma Centre equipped to handle mass casualty. The laboratory and radio diagnostic facilities, strategically located in proximity to Accident & Emergency Centre to ensure swift patient movement.

Critical care



25 specialist services with 11 dedicated OTs

25 bedded, Round the clock emergency services with requisite life support equipments.

46 bedded well equipped ICU, NICU, PICU, SICU, MICU, CCU, ITU, NSICU & other Post-Operative Units

Post Graduate Training:

Provide quality system based teaching to undergraduate students in evidence based public health to prepare them to function as community and first level physicians.

Rural Clinics:

CRH is actively involved in running an Out Patient Services together with Kalyan Ashram, Marchak village.

Urban Health Centre, Tadong:

CRH has taken over the erstwhile OPD at Tadong and made it as the Urban Health Centre where one of our faculty members is in charge.

De-toxification Centre

To help people find relief and treatment for their addictions, The Department of psychiatry is actively involved in de-addiction activities through community visits, camps and encourages those who are addicted and those who desire to help them.

Corporate Social Responsibilities

Central Referral Hospital is committed to rendering community service to the people of Sikkim. To further its effort towards this direction CRH is continuously organizing health camps in various locations including remotely located areas in high altitudes of Sikkim to serve the community.

The COI holders of Sikkim get a 95% discount on General bed charges on production of appropriate documents.

Other than conducting outreach camps the Central Referral Hospital is providing **Sikkim Manipal Swastha Surakhsha Scheme**, a health scheme that has cross subsidized treatment at CRH to the tune of 88% to its members. This scheme is running its 5th year and is covering about 50,000 lives for 1 lakh rupees treatment per annum.

New Initiatives of CRH:

- Renovation of OT block at level VI
- New 30 bedded ENT wing at level IX
- New 60 bedded Orthopedics wing at level V
- New 30 bedded Pediatric ward at level V
- Launch of OPD booklet and Antenatal Card
- Provision of Mammography services
- 24 X 7 Dialysis services
- Home Sample Collection of lab investigations for SMIMS and SMIT Campus.
- Empanelment with PMJAY
- Drug delivery in ICUs by Pharmacy staff.



Central Referral Hospital for everyone:

Central Referral Hospital is recognized for providing quality healthcare to the employees of various organizations. Any business organization would be well advised to opt for a corporate tie-up with CRH, we ensure that the employees of these business-houses are given preference. Most of the tie ups provide cashless facility.

The business organizations that have a tie-up with Central Referral Hospital are:

Insurance and TPA Tie-ups

- ⇒ HDFC ERGO, General Insurance
- ⇒ Medicare TPA Services Pvt. Ltd
- ⇒ ICICI Lombard (Kolkata)
- ⇒ Future Generali
- ⇒ M D India Healthcare Services (TPA) Pvt. Ltd.
- ⇒ Bajaj Allianz GIC Ltd.
- ⇒ Family Health Plan
- ⇒ Star Health & Allied Insurance Co. Ltd.
- ⇒ Dedicated Health Services
- ⇒ Paramount Health Services
- ⇒ Apollo Munich
- ⇒ Good Health Plan
- ⇒ Med Save
- ⇒ Medi Assist Insurance TPA
- ⇒ Max Bupa Insurance Co
- ⇒ Aditya Birla Health Insurance Co Ltd
- ⇒ Vipul Med Corp TPA
- ⇒ Roy Medical Assistance (OPC) Pvt. Ltd.
- ⇒ Health Insurance TPA Limited (HITPA)



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