



# IIITM BULLETIN

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A QUARTERLY NEWSLETTER FROM IIIT MANIPUR.

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## FAREWELL TO IIIT MANIPUR 2022 BATCH STUDENTS



Students of the outgoing 2022 batch of IIIT Manipur who are leaving the institute after successfully completing four year Bachelor courses were given a heartfelt farewell by the Director, Faculty and Staff of the institute. Provisional certificates were provided to them to be used as proof of their study and qualification from IIIT Manipur until their convocation.

The Director, Prof. Krishnan Baskar gave a heartfelt farewell speech to the students. He wished them success in their future endeavours. He advised the students to utilize knowledge gained from the four years education gained in the institute towards the betterment of humanity in general and the Indian society in particular. He encouraged students to strive for excellence at every step in the future.

The faculty also gave encouraging speeches to motivate the students going out to face the real world as graduates and to continue learning and innovating at every opportunity in life.

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## CONTACT US



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The students also gave speeches while sharing their memories and their gratefulness towards the institute in shaping their careers and personalities. They also gave suggestions about further improvements for the upcoming batches from their point of view. The interactions made the event a memorable one.

The outgoing 2022 batch students were from the Department of Computer Science and Engineering and the Department of Electronics and Communication Engineering. The students were specially praised for securing 100% placement record which is an unprecedented event in the history of IIITM. The cent-per-cent placement proved the quality education imparted by the institute and the hard work and perseverance of the students of the institute. IIITM is proud to have such a diligent batch of students who not only proved their own mettle but also brought laurels to the college in their search for bright and successful careers.

The function concluded with a group photo session of students and professors that will serve as memory of students and the institute in the days to come. IIITM shall forever welcome it's alumni. We hope that the batch of 2022 will inspire more people to work on technology and to create a better future for themselves and in time, India.





## IMPORTANT EVENTS

### Induction Program for the 2021-2025 Batch First year students

The first year students of the institute have joined the institute in person for the first time in June 2022 since COVID-19 lockdown. They had joined the institute virtually and had been attending classes online. Upon their arrival, the institute arranged an induction program to welcome the students and for their familiarity with Faculty members.

In the function, the Director of the institute Prof. Krishnan Baskar welcomed the newcomers and gave an inspiring speech about the possibilities that lie ahead of them and how to utilise them to the utmost limit. He applauded the students' decision of coming to college in the aftermath of COVID-19. He encouraged the new students to be mentally strong in the situation and ensured safety and support for the students. He encouraged unity and fraternity among the students and to strive for excellence and to work hard earn knowledge. He advised students to take advantage of all the facilities available at the institute and to support each other in need.

In the event, faculty members also introduced themselves and gave inspiring speeches to the students. They assured the students of giving their best to help them in their pursuit of knowledge.

### World Bank Visits IIIT Manipur



World Bank representatives visited the beautiful campus of IIIT Manipur. The Director of IIIT Manipur, Prof. Krishnan Baskar showed the officials the facilities available and research works happening in the institute. The research team of the E-Kart project under Dr. Kishorjit Nongmeikapam gave a demonstration of the driverless E-Kart to the authorities who were much impressed by the achievement. They also suggested the research to plan for filing patents and look for possible financial solutions that the project can provide.

World Bank representatives and the Director Prof. Krishnan Baskar also discussed about the possible funding for the institute from World bank. The discussion ended with a positive note.

## ACTIVITIES

### Pariksha Pe Charcha, 2022

The Director, faculties, staffs and students of **IIIT Manipur** virtually attended the the fifth edition of “**Pariksha Pe Charcha**” with **Hon’ble Prime Minister Narendra Modi** on 1st April 2022.

He shared some interesting tips to beat exam stress. He motivated the students to identify their strengths and interests and decide their ambitions accordingly, instead of blindly depending everywhere on their exam marks. Around one thousand students were present in the live event held at Talkatora Stadium, New Delhi. Lakhs of attendees watched the live event on various television, Youtube, and social media platforms. The students took inspiration from Prime Minister Narendra Modi’s words and vowed to work hard for the country.

Participants for the event are generally chosen through a competition. Winners of the competition are given a chance to attend the event, and some of the winners get a chance to interact directly with the Prime Minister.



### The Director spoke on Manipur State Credit Seminar, 2022-23

The director of IIIT Manipur, Prof. Krishnan Baskar was invited as speaker and spoke on the event of Manipur State Credit Seminar, 2022-23 held on April 27, 2022 at Hotel Imphal, Sangai Hall. The seminar was organized by NABARD Manipur Regional Office. The seminar event highlighted the priority sector-wise potential of the state. The event was also attended by Honb’le Chief Minister Shri. N Biren Singh and Honb’le Minister of Agriculture Shri. Th. Biswajit Singh among other dignitaries.





## The Director spoke at National Seminar on Bioeconomy from Bioresources with special reference to NER, 2022

The director of IIIT Manipur, Prof. Krishnan Baskar was invited as speaker at Institute of Bioresources and Sustainable Development (IBSD), Imphal on the event of National Seminar on Bioeconomy from Bioresources with special reference to NER, 2022 held on April 29, 2022. The day was also the Foundation Day Celebration of IBSD.

The event was organized by Institute of Bioresources and Sustainable Development (IBSD), Imphal, Ministry of Science and Technology, Department of Biotechnology, Govt.

The programme was inaugurated by the Chief Guest, Shri Devesh Deval (IAS), Commissioner and secretary, Science & Technology, Govt. of Manipur.

Prof. Krishnan Baskar talked about the importance of IBSD in the region and also the importance of exploring traditional knowledge and natural resources for the socio-economic development.



## Cyber Jagrukta Diwas, 2022

IIIT Manipur celebrated **Cyber Jagrukta Diwas, 2022** on 4<sup>th</sup> May, 2022. In the event, the significance of user generated content in the realm of today's digital society starting from research to business, and kitchen to media was highlighted.

Discussions were done on the impacts of various attacks towards user generated content which have been unleashing havoc on Internet-based services for the last two decades. The event discussed the importance of cyber security in protecting personal, government and industry critical information and information.

The event highlighted the common ways and methods to safeguard against the everyday cyber vulnerabilities faced by the common people. Students were delighted to know about the ways they can prevent themselves and others around them from being targeted by cyber attacks and felt thankful for the college for organising the event.

## Workshop on Entrepreneurship and Start-Up



The Indian Institute of Information Technology Manipur conducted a one day workshop on "Entrepreneurship and Start-Up" at its city campus at Mantripukhri on 18 May 2022. Around 130 participants attended the event. Coordinator Dr. N Saharia, elaborate the importance of the entrepreneurial mindset and start-up ecosystem in his welcome speech. The chief guest, Padma Bhushan Dr T Ramasami, former Secretary, Department of Science and Technology, Government of India stressed on creating new markets by introducing products, services, and ideas to create new opportunities. Professor Krishnan Baskar, Director, IIIT Manipur during his presidential address spoke on the need to bring social change through entrepreneurship and startups.

Ms. N Guite, General Manager and OIC, NABARD, Imphal highlighted the subject of financial support and opportunities for Start-ups. Th. Jagat Singh, Consultant, Manipur Start-Up cell, provided insights to the participants on the Start-Up Ecosystem of India. N Uttam Kumar Singh, Founder of Elvego Circuits Private Limited, Bengaluru expressed his confidence in the initiatives taken by Government of India in the semiconductor industry. He said the future of this industry is exciting and promising and emphasized that it would create ample job opportunities in the next ten years for job seekers across the country. Later , Dr Joykumar Singh, Professor, Central Agriculture University, Imphal also presented his views on the potential of business opportunities in "Agriculture the Virgin Land for Start-ups". The workshop was sponsored by NABARD.





## North East Research Conclave 2022



IIIT Manipur participated in the North East Research Conclave (NERC) 2022, held at IIT Guwahati. The Conclave was being held between 20 and 22 May, jointly with the Science, Technology, and Climate Change Department and the Department of Education, Government of Assam at the IIT Guwahati campus.

Shri Dharmendra Pradhan, Union Minister for Education and Skill Development, launched the conclave. In his remarks, Shri Pradhan stated that the conclave will enhance the ties between industry, academics, and policymakers, as well as re-energize the research, start-up, and entrepreneurial ecosystems in the resource-rich Northeastern Region states and the country.

A team from IIIT Manipur including the Director, faculties and researchers participated in the conclave. IIIT Manipur also put up a stall in the exhibition section showcasing the recent research works happening in the institute. The stall received overwhelming response and interests towards the research works happening in the institute.



## Employment Through Employability



IIIT Manipur conducted an event on “Employment Through Employability” on 4<sup>th</sup> June, 2022. At the event, Ms Sawani Sinha, Head of Human resources (India), Evalueserve gave a session on industry expectations. The talk imparted knowledge to students about the current trends in manpower skills requirements by the industries. The talk taught the basic technical and communication skills to be sharpened the students. She also shed light on the importance of self-employment and how internships and work experience in various MNCs help entrepreneurs in building their startups. Interaction with her gave students an insight into the particulars that Human Resource Managers look for when they select for interview round. She answered crucial questions on topics like importance of soft skills in hiring procedures, where she revealed that a company might hire a person with better soft skills than a person with better technical knowledge, as a person with excellent soft skills can better participate in team projects and can better understand the needs of the client.





## Director IIIT Senapati Manipur Participated Visitor's Conference at Rashtrapati Bhavan



The President is the Visitor of 161 Central Institutes of Higher Education. Out of 161 institutes, 53 are attending the Conference physically while others are connected virtually.

Addressing the inaugural session, the President said that in order to achieve our larger goals, improving the quality of institutions of higher learning is of vital importance. We should be setting benchmarks for the best in the world. He was happy to note that this year 35 Indian institutions have been ranked in the QS ranking as against 29 last year. In the top 300, there are six institutions this year as against four last year. He also noted that the Indian Institute of Science has got a full score of 100 on the 'research' parameter and shares this distinction with eight highly reputed institutions of the world, including Princeton, Harvard, MIT, and Caltech. He congratulated IISc director Dr. Govindan Rangarajan and his team for this achievement.

The Director of IIIT Manipur Prof. Krishnan Baskar was also an honorary member of the Conference. Speaking about the quality of education, the President said that to improve it, we should also consider sophisticated and innovative learning approaches. The key to achieving excellence is to harness the transformational benefits of digital technologies for enriching the teaching and learning experience. Digital technologies are expanding the boundaries of education.



### COVID Vaccination Amrit Mahotsava

IIIT Manipur conducted **COVID Vaccination Amrit Mahotsava** commencing from 15.07.2022 to provide free Precaution Dose to all Adults. As the initiation of the event, the Director of IIIT Manipur Prof. Krishnan Baskar was vaccinated the precautionary dose to encourage all the staffs and students to follow the vaccination.

The details of the faculties, staffs and students were given to avail the free vaccine to the institute and the Director encouraged all to take the precautionary vaccine to break the chain of COVID out break in the country, which has caused unsurmountable damage both physically, emotionally and financially.



### 13th Asian Criminology Conference

The Director of IIIT Manipur, Prof. Krishnan Baskar attended the 13th Asian Criminology Conference held on July 20 – July 23, 2022. The conference was jointly Organized by Asian Criminological Society and Gujarat National Law University at Gujarat International Finance Tec-City (GIFT City), Gandhinagar, Gujarat.

The theme of the conference was On “Emerging Trends in Technology and its Impact on Law, Criminal Justice and Public Policy”





## IPR Day, 2022

KIIT-TBI Technology Transfer Office collaboration with IIIT Manipur was conducted an online Workshop or Awareness program on INTELLECTUAL PROPERTY RIGHT(IPR) on 13th June 2022 under NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION (NIPAM).

A NIPAM under the initiative of the Government's "Azadi Ka Amrit Mahotsav", had been launched by DPIIT on 8 December 2021. It aims to inculcate the spirit of creativity and innovation in students of higher education and ignite and inspire the students to innovate and protect their creations.

The workshop was coordinated by Dr. Kaushal Bhardwaj assistant professor IIIT Manipur, Dr. Amaresh Panda lead technology Transfer Office, KIIT-TBI TTO, Dr. Samuel Rout Manager, Technology Transfer Office, KIIT-TBI TTO and the event was attended by Dr. Pritish Ranjan Pradhan Examiner of Patents and Designs, Indian Patent office, Kolkata, and Mr. Dhiren Pattanayak Examiner of patents and designs, Indian Patents Office, Kolkata.

In this interaction students get to know about intellectual property, patents, copyright. They also increase students to go to invention and discover new technology.

## World Blood Donor Day 2022

The Indian Institute of Information Technology Senapati observed the World Blood Donor Day on June 14, 2022. The Theme for World Blood Donor Day 2022 was "Donating blood is an act of solidarity. Join the effort and save lives". The Faculties, Staffs, Students of the Institute participated in the awareness program on World Blood Donor Day and pledged to donate blood more often in the future.



The Event intended towards

- raising global awareness of the need for safe blood and blood products for transfusion
- highlighting the critical contribution that voluntary, unpaid blood donors make to national health systems
- supporting national blood transfusion services, blood donor organizations and other nongovernmental organizations in strengthening and expanding their voluntary blood donor programmes by reinforcing national and local campaigns.

According to National Blood Transfusion Council, any healthy adult, both male and female, can donate blood. Men can donate safely once in every three months while women can donate every four months. Regular blood donation is linked to lower blood pressure and a lower risk for heart attacks. A new study shows that people, who donate a lot of blood, suffer no serious ill effects and may even live longer than less frequent donors. A new study concludes that regular blood donors are not at a greater risk of a premature death than those who rarely donate blood.

## VIGYAN UTSAV

The Director IIIT Manipur, Prof. Krishnan Baskar, gave a talk on "Information Technology Industry for Self-Reliance" at the celebration of Vigyan Utsav celebration. Vigyan Utsav is organized by Manipur Science and technology Council as a part of "Atmanirbharata and Industry" under State Science And Technology Programme (SSTP), DST, Govt. of India.

## YOGA DAY 2022



21st June is celebrated as International Yoga Day, as an initiative launched by our Honorable Prime Minister and adopted by the UN general Assembly by 177 countries worldwide. On this occasion Government of India has decided that each institute should take active part in celebrating International Yoga Day. As per instructions IIIT Manipur organised the 8th edition of the International Yoga Day on 21st June 2022. The theme for 2022 International Yoga Day was 'Yoga for Humanity.' The event was attended by every students, faculty and staff members. The participants completed one and half-hours long session under the supervision of the trained yoga instructor Mr. Dixon Laishram.





## ACHIEVEMENTS

### International Relation Division, IIIT Manipur: Memorandum of Agreement is signed with University of North Texas, USA

The Indian Institute of Information Technology, Manipur is proud to announce that the Institute is working on archiving and preserving the linguistic diversity of Manipur. As a part of the study, Dr. L. Sarbajit Singh, HoD, Humanities and Social Sciences Department and Dr. Kabita Thaoroijam, Assistant Professor, Department of Computer Science & Engineering has collaborated with Professor Shobhana Chelliah, Computational Resource for South Asian Languages (CoRSAL), University of North Texas, USA to create a curriculum to provide specialized training for language archiving. In this regard, an MoA has been signed by both the parties on April 24, 2022.

### Grant from DIT for Entrepreneurship, Incubation and Advanced Technologies technologies

IIIT Manipur received a one-time grant of Rs. 10,00,000/- to conduct a series of workshops/training programs on Entrepreneurship, Incubation and Advanced Technologies technologies from Department of Information Technology, Govt. of Manipur. A meet of top officials from DIT and the Director of IIIT Manipur on April 20, 2022 finalized the grant deal.

### Grant from DIT for Drone Technology, Block-chain

IIIT Manipur received one-time grant of Rs. 9,84,750/- to conduct a series of workshops/training programs on Drone Technology, Block-chain and related modern technologies from Department of Information Technology, Govt. of Manipur. The grant was finalized on May 05, 2022 through a formal meeting at the IIIT Manipur campus.

## Publications

- **Devi, M.D. , Saharia, N.** Unsupervised tweets categorization using semantic and statistical features. Multimedia Tools and Applications (2022).  
<https://doi.org/10.1007/s11042-022-13042-4>; (IF-2.57) Published on 06 May 2022
- **L. Sarbajit Singh** (2022) "Issues in Creation of Electronic Dictionary for Meeteilon" ASIALEX 2022: 15th International Conference of the Asian Association for Lexicography, Nanning, China (18-19 June 2022).

Publications

- **Khumukcham R, Saxena G.** Identification of the onset of Parkinson’s disease through a multiscale classification deep learning model utilizing a fusion of multiple conventional features with an nDS spatially exploited symmetrical convolutional pattern. *Computational Intelligence Based Solutions for Vision Systems*. <https://doi.org/10.1088/978-0-7503-4821-8ch9> . (May 2022)
- Jimmy, L., **Nongmeikapam, K.** and Naskar, S.K., 2022. BiLSTM-CRF Manipuri NER with Character-Level Word Representation. *Arabian Journal for Science and Engineering*, pp.1-20. (June, 2022)

Invited Talks/Workshops/Session Chairs

Dr. Kishorjit Nongmeikapam was a Technical Program Committee Member/Reviewer of the following international conference:

1. Committee Member/Reviewer of the Three Days International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES-2022) Technically sponsored by IEEE-CIS and organized by G.L. Bajaj Institute of Technology & Management, Greater Noida (U.P.) India (20-22 May, 2022)



Dr. Leihaorambam Sarbajit Singh chaired multiple sessions:

1. Semantics Session of 2 nd International Conference of Tibeto-Burman Linguistics Association of North East India (ICTiBLANEI-2) in collaboration with IIT Guwahati, Assam, India (08-10 April 2022).



2. Room-A First half, Day-1 Session of ASIALEX 2022: 15th International Conference of the Asian Association for Lexicography, Nanning, China (18-19 June 2022)





## ARTICLE OF THE QUARTER

### LOKTAK PAT: THE FLOATING LAKE



Loktak Lake or Loktak Pat (in Manipuri) is the largest freshwater lake in the North-East India. This wonderful lake is situated at Moirang in the Northeast Indian state of Manipur. It is an ancient super-volcanic caldera. Loktak lake is a pulsating lake, with surface area varying from 250 sq km to 500 sq km during rainy season with a typical area of 287 sq km. The etymology of Loktak is Lok = "stream" and tak = "the end" in Meeteilon/Manipuri language.

Loktak Lake is an intriguing ecosystem, and the lake is famous for floating islands. The delicate ecosystem of Loktak Lake looks dotted with numerous small islands from above. Interestingly, the islands are not actually islands, but phumdis, which means a collection of floating heterogeneous masses of vegetation, decomposing organic matter, and soil. The phumdis floating in this lake are formed naturally. The mass of lush green phumdis sits below the surface of the lake just like icebergs, thereby allowing the living roots to reach the lakebed during dry weather. And, when monsoon arrives, the living roots absorb nutrients from the lakebed and rise again. The thickness of phumdis can reach to up to 2 m.

The phumdis are inhabited by locals, who have built their shelter on the floating island, the view of the lake turns picturesque as soon as the sun sets. Loktak Lake is a lifeline for many people. Fishermen depend on it for their daily source of income, whereas others depend on it for irrigation, hydropower generation, and supply of drinking water. One will find families of fishermen living in huts built on the phumdis, which are built out of bamboo, rocks, metal plates and rods. India's first floating school can also be found here.

Apart from humans, this lake also houses 425 species of animals, more than 100 species of birds, and 233 species of aquatic plants. **Keibul Lamjao National Park** measuring around 40 sq km is the **only floating national park in the world**. It is basically located on a phumdi. The park is the last natural refuge of **the endangered Sangai (state animal)**, *Rucervus eldii eldii* or Manipur brow-antlered deer (*Cervus eldi eldi*), one of three subspecies of Eld's deer. If luck is by your side, one will even witness the sight of sangai dancing deer roaming around the phumdis of Loktak Lake.

Loktak Lake came into the global picture because of the floating phumdis, but in their rampant growth is also creating a problem. Loktak Lake was designated for the List of Wetlands of International Importance in March 1990. It was also listed under the Montreux Record on 16 June 1993, "a record of Ramsar sites where changes in ecological character have occurred, are occurring or are likely to occur".

To address the issues raised on the health of the lake, Government of Manipur has set up the Loktak Development Authority (LDA) under "The Manipur Loktak Lake (Protection) Act, 2006 (Manipur Act 3 of 2006)". It is believed tourism can bring about a change, and help support the people and Loktak Lake. But tourism in this region is still in its infancy. Awareness should be spread for responsible tourism and bring this world famous floating lake to the forefront in the tourist map.

Well connected by road and air, Imphal, the capital city of Manipur is 39 km away from the lake, by road. The lake is a unique destination for tourism. The lake offers excellent opportunities for visitors to enjoy the beauty of the lake and its several islands located inside it that are studded with floating phumdis of different geometrical shapes.



Department of Higher Education  
Ministry of Education  
Government of India

भारतीय सूचना प्रौद्योगिकी संस्थान, मणिपुर  
**Indian Institute of Information Technology, Manipur**  
(An Institute of National Importance by Act of Parliament)



**About the Institute**

Indian Institute of Information Technology, Manipur (IIITM) is an institution under the Ministry of Education, Govt. of India. The institute was established in 2015 in order to develop Manipur as a preferred destination for Information Technology (IT) related manpower and industry. This shall enable Manipur to gear up for providing IT-related services as well as high-quality Research & Development in IT. The institute offers B.Tech programme in Computer Science and Engineering (CSE) and Electronics and Communication Engineering (ECE) and PhD in CSE, ECE and Humanities and Basic Sciences from the city campus located at Mantripukhri, Imphal, just 12 km away from airport. The campus of the institute has adequate State of Art classrooms, laboratories for CSE and ECE, conference hall, playground, hostels, faculty quarters, guest house, and administrative offices.

**Programmes Offered**

**Undergraduate Courses (B. Tech)**

- Computer Science and Engineering
- Electronics and Communication Engineering

**Doctoral Programme (Ph. D)**

- Computer Science and Engineering
- Electronics and Communication Engineering
- Mathematics
- Linguistics

**New Courses in 2022-2023**

**Undergraduate (B.Tech)**

- CSE with Specialization in Artificial Intelligence and Data Science
- ECE with Specialization in VLSI and Embedded Systems

**Thrust Areas of Research**

**Computer Science and Engineering**

- Data Mining
- Natural Language Processing
- Speech Processing
- Machine Learning
- UAV
- Social Media Analysis
- Human Computer Interaction
- Hyperspectral Image Processing

**Electronics and Communication Engineering**

- VLSI & Embedded Systems
- Signal Processing
- MEMs & Microfabrication
- Wireless Communication
- RF & Microwaves
- Antenna Design

**Mathematics**

- Computational Mathematics
- Sampling Techniques

**Linguistics**

- Lexicography
- Language Documentation
- Human Language Technology

**Admissions**

Joint Seat Allocation Authority (JOSAA) Institute  
Code: 313 (Indian Institute of Information  
Technology, Manipur)

**Undergraduate (B.Tech)**

Undergraduate Courses are admitted on the basis of JEE(Main) score through JoSAA and CSAB every year.

**Doctoral Programme (Ph.D.)**

Ph.D. programme in various specialization are admitted through advertisement in institute website from time to time.

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**Ongoing/Live Funded Projects**

“Multi-domain text-to-text machine translation system in synchrony with speech consortia to facilitate bidirectional translation.”; Amount: 2.4382 Crore; PI: Dr. N. Kishorjit Singh; Funding Agency/ Collaborator: Ministry of Electronic and Information Technology (MEITY), Govt. of India

“Prototype Development of Self-biased High-power Circulator for Particle Accelerator.”; Amount: INR 33 lakhs.; PI: Dr. Subasit Borah; Funding Agency/ Collaborator: Board of Research in Nuclear Science (BRNS)-DAE.

“A Prototype of Auto-navigating E-Cart using Multispectral Imaging.”; Amount: INR 40 lakhs.; PI: Dr. N. Kishorjit Singh; Co-PI: Dr. Kabita Thaoiroijam; Funding Agency/ Collaborator: Ministry of Electronic and Information Technology (MEITY), Govt. of India

“A multilingual Reference Wordnet on Four of the Major Indigenous Dialects of Manipur and Manipuri Languages.”; Amount: INR 41 lakhs.; PI: Dr. N. Kishorjit Singh; Funding Agency/ Collaborator: SERB (Department of Science and Technology) Govt of India



“IIIT Senapati, will serve as a benchmark for the entire north east”

- Shri Narendra Modi  
Hon'ble Prime Minister of India



**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, MANIPUR**  
An Institute of National Importance by Act of Parliament, Govt. of India.