



**INDIAN INSTITUTE OF
INFORMATION TECHNOLOGY,
MANIPUR**
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**Department of Higher Education
Ministry of Education
Government of India**

IIIT MANIPUR

A QUARTERLY NEWSLETTER FROM IIIT MANIPUR

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Hon'ble Chief Minister of Manipur Shri. Nongthombam Biren along with other dignitaries at the drone awareness program.

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2022 AT IIIT MANIPUR**

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STUDENT CORNER

ARTICLE OF THE QUARTER.

DRONE AWARENESS PROGRAM, 2022

Under the initiative towards employability training as per NEP 2020, the Government of Manipur has announced to set up a Drone Training School in Manipur within a short period of time in collaboration with IIIT Manipur in Hub and Spoke Model. In this model, IIIT Manipur will be the hub and Government ITIs in the Districts will be the Spokes. This Drone training School at IIIT Manipur will provide trainings on Drone Piloting to the youths of Manipur with employability skills. The Institute is currently preparing for DGCA license to provide Drone Pilot license to the trainees.

In line with this initiative, IIIT Manipur conducted a three days "Drone Awareness Training program" from 30th August to 1st September 2022 at the IIIT Campus to raise awareness among the youth and government officials of Manipur towards the application of drones in various sectors such as agriculture, surveillance and disaster mitigation.

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Various moments from the Drone awareness program

The event was convened by Dr. Navanath Saharia under the leadership of Prof. Krishnan Baskar, Director IIIT Manipur with financial support from Department of Information Technology, Government of Manipur.

Dr. Rajesh Kumar, Chief Secretary, Govt. of Manipur inaugurated the event. As the Chief Guest, Dr Rajesh Kumar highlighted various utilities of a drone in tough terrain like Manipur. Around 100 individuals from the Indian Army, Assam Rifles, CRPF, Police, and Civil departments including Agriculture, Department of Information Technology, Horticulture and Soil Conservation, Health, and around 40 youths of Manipur participated in the event.

The valedictory cum certificate distribution function was chaired by the hon'ble Chief Minister of Manipur Shri N Biren Singh. He urged the youth of the state and the region to take advantage of having an Institute of National Importance such as the IIIT Manipur. He also urged the youth of the State and the region to get admitted to the Institute. He explained that with the presence of the Institute in the state, youth of the state don't need to go to other states to study IT.

The function was also attended by Dr. Rajesh Kumar, Chief Secretary, Govt. of Manipur; Prof. N. Rajmuhon Singh, Vice Chancellor, Dhanamanjuri University and Shri Nambam Deben, Director, DoIT, Govt. of Manipur among others. The Chief Minister of the state highly praised the event and announced that the Government of Manipur will support the establishment of a drone pilot training school at IIIT.

IMPORTANT EVENTS

The 5th academic council (senate) of IIIT Manipur



The Director, IIIT Manipur along with the other members at the senate meeting.

The Fifth Academic Council (Senate) of IIIT Manipur was held on 30th July, 2022. The senate discussions were focused on NEP 2022. NEP 2020 considers acquisitions of employability skills as part of the expected learning outcomes and refers to these skills as Graduate Attributes. With this vision of the policy, and considering the global requirement of high quality technical man power in the emerging areas of Data Analytics, Artificial Intelligence and semiconductor devices, the Institute has introduced two new B. Tech. programs from the academic year 2022-23:

- 4-Years, Bachelor of Technology program in Electronics and Communication Engineering with specialization in VLSI and Embedded Systems, and
- 4-Years, Bachelor of Technology program in Computer Science and Engineering with specialization in Artificial Intelligence and Data Science.

With a similar vision, the Institute has also drafted its plan for introducing two new PG programs from the academic year 2023-24, in VLSI and Embedded Systems and in Artificial Intelligence and Data Science.

To enable the students/working professionals to gain in-depth knowledge in the field of Digital Forensics, Cyber Security & Cyber Crime, the Institute is going to introduce a Certificate/Diploma/one semester course in Cyber Crime, Cyber Security, and Cyber Forensic from the Academic Year 2022-23.

The number of credits for certificate and diploma in such programs will be as per AICTE norms. Provision has been made such as a semester may also be offered to CSE/ECE UG degree students either on campus or as a semester exchange in India/abroad.

As part of the student exposure initiative, the Institute has implemented the policy that B.Tech. students may study abroad or in other Institutions/Universities in India approved by UGC/AICTE/MoE and other institutions of national importance during 3rd year or 4th year B.Tech. program.

IIT Manipur in association with EdCIL India Limited is planning to enroll International students for the undergraduate programs under Study-in-India initiative of Govt. of India.

Admission is to be purely based on the entrance examination conducted by IIIT Manipur and the candidates must pass the qualifying examination with 12 years of schooling from nationally or globally recognized Boards with Mathematics and Physics as their primary subjects in order to be admitted. Admission to the PhD programs will be project dependent. International relation division of the Institute in association with academic section will coordinate this whole admission process. The wide variety of language courses help students to widen their intellectual horizons and get better integrated within an international working environment.

In this regard, the Institute is preparing to introduce Korean, Japanese, Chinese, French and German languages in the B.Tech. course curriculum from the Academic Year 2022-23. Necessary arrangements are being made with the embassies and their approved organizations to conduct the language courses.

For holistic development, enhanced potential, fair-mindedness and Patience, Empathetic behaviour Optimistic attitude, Increased Efficiency & Confidence, Ethical Leadership & Risk-taking ability, Stress reduction of the students, the Institute is going to introduce Yoga as a compulsory 4 Credit Course for all the batches of B.Tech. students from the Academic Year 2022-23.



Independence Day



Independence day was celebrated in the city campus of IIIT Manipur on 15 August, 2022. The Director of IIIT Manipur Prof. Krishnan Baskar delivered a speech and reminded the students about the sacrifice made by the freedom fighters to attain India's freedom. For many years India was under the British Raj. East India company ruled India for about 100 years.

The Battle of Plassey in 1757 is regarded as the last battle which India fought against the East India Company. It was after winning this battle that the company started exerting power over India. The people of British India fought its first battle of rebellion against the foreign rule in 1857. The entire country united against the mighty British. It was an unfortunate event as India was defeated.

After experiencing two World Wars, Britain's power waned and it contributed significantly in Britain transferring the power to rule over India to its own people. After a series of protest was organised as part of the freedom movement under the leadership of diverse personalities such as Mahatma Gandhi, Jawaharlal Nehru, Mohammad Ali Jinnah, Subhash Chandra Bose etc., India finally gained its freedom in the glorious midnight of 15 August, 1947.

India's freedom struggle has always been an inspiration to the world as it is known for its non-violent campaign in the world.



Students of IIIT Manipur rallying as a part of the Celebrations

Har Ghar Tiranga



IIIT Manipur celebrated Har Ghar Tiranga from 13th to 15th August 2022. As part of the event, staffs of IIIT Manipur hoisted the Tri-colour flag of India in their residential areas and offices. The Tri-colour flag is a symbol of pride for every Indian. It represents national integrity and signifies the hopes and aspirations of the Indian people.

‘Har Ghar Tiranga’ is a campaign under the aegis of Azadi Ka Amrit Mahotsav to encourage people to bring the Tiranga home and to hoist it to mark the 75th year of India’s independence. Our relationship with the flag has always been more formal and institutional than personal. Bringing the flag home collectively as a nation in the 75th year of independence thus becomes symbolic of not only an act of personal connection to the Tiranga but also an embodiment of our commitment to nation-building. The idea behind the initiative is to invoke the feeling of patriotism in the hearts of the people and to promote awareness about the Indian National Flag.

Prime Minister Shri Narendra Modi launched “Har Ghar Tiranga” campaign to encourage people to bring the Tiranga home and hoist it to celebrate 75 years of India's Independence.



75
Azadi Ka
Amrit Mahotsav

Har Ghar Tiranga
13th-15th August 2022

Launch of Open Challenge Program 3.0



Shri Heigrujam Arun Kumar Singh, Joint Director and Centre In-Charge, STPI Imphal addressing the audience.

In an outreach event hosted by IIIT Manipur, the Open Challenge program 3.0 for B centre of entrepreneurship in Northeast India was launched under OctaNE organized by Software Technology Parts in India (STPI), Imphal on 15 September, 2022.

The event was presided by Shri Heigrujam Arun Kumar Singh, Joint Director and Centre In-Charge, STPI Imphal and attended by Prof. Krishnan Bhaskar, Director, IIIT Manipur as the Chief Guest, and Shri Ailan Maibam, CEO M/S Awpara Technologies Pvt. Ltd. and Shri Thokchom Sanju Singh, Managing Director, Edulife India as the Guest of Honours of the program.

Mr Thokchom Sanju Singh, one of the resource persons of the event, gave a detailed presentation on AR/VR followed by Mr. Ailan Maibam's engaging presentation on AR/VR where he demonstrated the use of AR/VR and enlightened the students of IIIT Manipur with the technology of Augmented Reality (AR) and Virtual Reality (VR).

The objective of the Open Challenge Program (OCP) is to identify, recognize & reward aspiring and early-stage tech entrepreneurs.

This platform facilitates aspiring entrepreneurs and innovators through strategic networking, seed funding, mentoring, providing support for training, marketing, patenting, access to the CoE labs, tools, software and state-of-the-art incubation facility etc.



Prof. Krishnan Baskar, the Director, IIIT Manipur speaking about the program.

ACTIVITIES

Celebrating 73rd Van Mahotsav, 2022



The Director, faculties, staffs and students of IIIT Manipur gathered for the celebration of 73rd Van Mahotsav

The Director, faculties, staffs and students of IIIT Manipur celebrated 73rd Van Mahotsav on 5th July 2022.

It was celebrated with mass tree plantation movement organised by Indian Institute of Information Technology, Manipur in association with Central Forest Division, Forest Department, Government of Manipur.

The Director of the Institute, Prof. Krishnan Bhaskar spread awareness about climate change and the importance of plantation of trees to counter it with full effectiveness. He also educated the students on how India can achieve the state of net zero carbon emission.

A very beautiful message was delivered by the program “Let us plant a tree, Let us plant a hope”.



Teacher's Day



Prof. Krishnan Baskar, the Director, IIIT Manipur addressing the Induction program.

Celebrated on 5th September, Teacher's Day is a significant day for an Institute as it marks the day of respect for the teachers who work so hard for their students. They leave no stone unturned to guide the students and always stand by them at each step. This day also marks the birthday of the famous Indian philosopher and statesman and above all a great teacher, our former president, Dr. Sarvepalli Radhakrishnan.

Lieutenant General Dr. Konsam Himalay Singh was invited as Chief Guest. He is a former Lieutenant General of the Indian Army. He is the first officer from northeast India to reach the rank of Lieutenant General. Students welcomed him, and he gave a wonderful speech which encouraged the audience. All the teachers and professors were honoured with mementos of respect and they cut the cake together. The Director of IIITM, Prof. Krishnan Baskar addressed the gathering and also took an oath on behalf the whole faculty to strain their each nerve to train and educate the students well. Overall the day was really special and strengthened the bond of students and their teachers.



ACHIEVEMENTS

IIIT Manipur inked MoU with CAU Imphal

IIIT Manipur inked a Memorandum of Understanding (MoU) with Central Agricultural University Imphal on 16 September 2022 for research exchanges and enhanced agriculture-based activities with the use of new and advanced technologies.

The MoU was signed by CAU Vice-Chancellor, Dr Anupam Mishra and IIIT Manipur's Director, Professor Krishnan Baskar at CAU Headquarters, Lamphelpat.

Director of Instruction, CAU, Dr S Basanta Singh; Director of Extension Education, Professor Ph Ranjit Sharma; Registrar Dr K Mamocha Singh and officials of CAU and IIIT Manipur were also present at the occasion.

Professor Krishnan Baskar, Director IIIT Manipur expressed that the main task for Manipur, as a state that depends largely on agriculture, is identifying effective and efficient methods for utilization of technology for better and nutritious yields. Nevertheless, technology must serve as assistance to speed up the process and not replace humans altogether. The use of advanced technologies would not only help increase the yield but also increase the income of the state. He further observed that the MoU will definitely provide an opportunity for the two institutions to work together in varied fields in future.

CAU VC Dr Anupam Mishra remarked that technology is becoming more and more crucial at present times. It has now become a part and parcel of our modern lives.

He then suggested using drones to sow seeds in hilly areas which are not accessible by roads in addition to looking for other sustainable alternatives.



Publications

- ❖ Heisnam Kenny Devi & Leihaorambam Sarbajit Singh (2022). Allomorphs in Meeteilon (Manipuri) Morphology. *Nepalese Linguistics*, 35(01), 33–40. <https://doi.org/10.3126/nl.v35i01.46557>, ISSN: 0259-1006 [Date of publication: July 2022]
- ❖ Johny, N., Kishorjit, N., “Lane Estimation using Improved Hough Transform for Isolated and Metro Highway.” In 2022 IEEE World Conference on Applied Intelligence and Computing (AIC), pp. 530-535. IEEE, 2022. DOI: 10.1109/AIC55036.2022.9848812 [August 2022]

Invited Talks/Workshops/Session Chairs -

- ❖ Dr. Subasit Borah gave a lecture on the following international conference:

International conference on *Nano Materials (ICN 2022)* which was held from August 12 to August 14, 2022 at Mahatma Gandhi University, Kottayam, Kerala, India.

Title: “High Frequency Tunable Devices with Magnetodielectric Nanocomposite Substrate Material”

- ❖ Dr. Leihaorambam Sarbajit Singh participated in UA local India Chapter :

Training program IDNS and EAI in Indian Languages: Challenges and Remediation held on 27th August 2022 Organised by Federation of Indian Chambers of Commerce & Industry, Delhi.

Achievements of the students of IIIT Manipur

- ❖ Anurag Khanna, 2nd year student, got selected for a paid internship (10k per month) at Educare Education Services through Internshala for the position of “Subject Matter Expert For Video Solution Projects For PCMB”. He completed the internship on 7th June, 2022.

He also got selected for a paid internship (8k per month) at Educare Educare Services through Internshala for the position of “Subject Matter Expert (Advanced Physics And Computer Science, (Chegg)”. He completed the internship on 7th June, 2022.



STUDENT CORNER

Russia vs Ukraine or Russia vs USA led NATO



In the world of geopolitics there are no permanent allies or adversaries but permanent national interests. In the 1960s no one thought that USSR would eventually break into 15 independent nations. Contrary to what everyone thought, Russia split in 1993. A country may dissolve but the people who lived together for years will not fight among themselves for insignificant issues. But how can we forget that the world we are living in contains Englishmen. It can be contested that the people of US are Americans and not English. But we must remember that their origin is the British isles itself. NATO/OTAN should have been dissolved after the dissolution of USSR. But the USA wanted to keep its Anglo-Saxon hegemony as long as possible. So instead of neutralizing its military alliance it keeps on expanding NATO further to the East. The definition of NATO is North Atlantic Treaty Organisation i.e. countries on military alliance should have Atlantic ocean touching on the boundary or very near to it. But now, it also includes countries of the Baltic sea, Balkan plains, Black sea.

From 1993 till 2008, Russia and Ukraine enjoyed a very healthy relation until its President Viktor Yushchenko thought of joining the European Union and then later to NATO. According to the Budapest Memorandum 1994, the Russian Federation, the United States and the United Kingdom will not threaten to use military force or economic coercion against the State of Ukraine and in return it should act as a neutral country and follow a neutral foreign policy.

From 2008 the relation of Ukraine and Russia started to fall. The final nail to the coffin was the Maidan coup/Revolution of Dignity of 2014 which took place in the capital city Kyiv, overthrowing the government of President Viktor Yanukovich the pro russian leader who was trying to stay neutral in the US-Russia war to influence eastern Europe.

The removal of the Ukrainian President resulted in no leader in power. Seeing this as an opportunity, the Russian Federation under the leadership of Mr. Vladimir Putin invaded Ukraine through Crimean peninsula trying to take the states of majority Russian speaking population, the state of Crimea, region of Donbas and Luhansk.

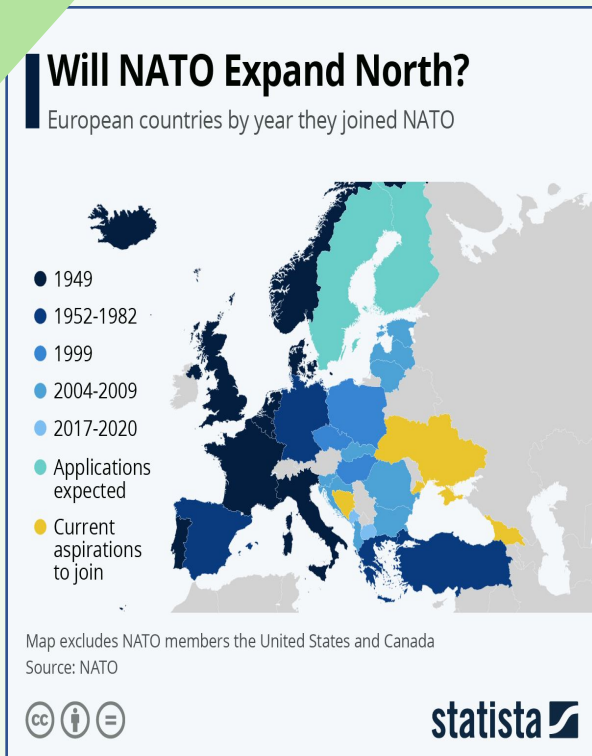
Later, signing the Minsk agreements, the war for Donbas and Luhansk concluded. However, Crimea was integrated to the Russian Federation. Since then the war on Ukraine is still going on. Since the second world war, US has been using its military, financial, and soft power to influence the world.

After defeating the Axis power, it took a total military occupation of 75% of Germany, Italy and Japan. As a result, all these countries don't have their own military, independent foreign policy and most importantly, even though they are independent states on paper, they are the satellite states of US.

NATO is nothing but the means of controlling the world through military power. After the dissolution of the Union of Soviet Socialist Republic (CCCP) US kept on NATO's expansion of east Europe so that even if after decades Russian Federation become strong again to challenge US Hegemony, they can control the Russian decision makers. But putting US nukes on the very border of Russia and NATO countries. Former states and under influence countries of USSR joined NATO rapidly under US influence, Baltic countries, Balkan countries, now Ukraine whose position is very close to Moscow wants to join NATO. Understanding the possibilities of future and securing Russia's national interests, Russian Federation again under the leadership of Mr. Vladimir Putin declared a special military operation in Ukraine to neutralize her and to set a pro russian leader and to destroy the future possibility of Ukraine joining NATO.

Now only time will tell whether the decisions of Mr Putin was right or wrong in the long run for Russia's national interest.

By - Priyansh Bhatnagar, 2nd Semester.



ARTICLE OF THE QUARTER

Imphal Peace Museum



The **Imphal Peace Museum (IPM)** is a World War II museum at the foothills of the Red Hills (*Maibam Lokpa Ching*) in Manipur, India. It is a living memory of the Battle of Imphal (Anglo-Japanese war) and other World War II battles (March–July 1944) fought in Manipur.

Britain and Japan, once adversaries during the 2nd world war have come together and inaugurated the Imphal Peace Museum to commemorate the 75th anniversary of the Battle of Imphal. The inauguration was attended by Manipur Revenue Minister, Japanese Ambassador to India, High Commissioner of UK and Chairman of The Nippon Foundation (TNF). Imphal Peace Museum is the winner of India's Best Design Award in the year 2019.

ITS HISTORY

The Imphal Peace Museum was founded in the year 2019 on the 75th anniversary of the **Battle of Imphal**. Former British and Japanese adversaries were present in the inaugural event of the museum. Imphal Peace Museum interior and exhibitions designs are one of the best works done by the International Award-winning designer Suresh Huidrom (Principal Designer - Huidrom Design Studio).

In 2019, the **Imphal Peace Museum** won India's Best Design Award for the Creativity and Innovative Interior Design. In the event, the museum won Silver Medal in the field of Interior Design. In the same year, the museum was nominated finalist at the Society of British International Interior Design Award 2021 for the Best Interior Design in Public Space. It also got Honorary Mention at Singapore Interior Design Award 2021, Singapore and the Most Creative Interior Design of the Year 2021 by the Global Architect and Builder Awards 2021.

THE MOTIVE

Unlike the war museums that are everywhere which glorify power, war and militarisation, this peace memorial (museum) builds peace by making an effort to heal historical wounds. It forms a bridge between the past, present, future and between natural sciences, humanities and social sciences.

EXHIBITIONS

The Imphal Peace Museum has three sections.

First Section

The first section exhibits a timeline of the **Battle of Imphal**. It serves as a reminder of the series of painful events that the people of Manipur experienced during the war. The names of the casualties in the war are also shown. Many stories of death and loss are etched in their names forever and the visitors are compelled to remember them as our own fathers, mothers, daughters and sons, and sisters and brothers. The names of the people of Manipur who joined the **Indian National Army** (INA) are also featured. The displaying war artefacts include **artillery** shells collected by the local people over the years. There are also photographs of personal notes and the uniform of a Japanese soldier is displayed.

Second section

The second section shows the scenarios after the World War II in Manipur. It highlights the impact of the war and the process of recovery. Early television sets, photographs and cameras are also displayed.

Third section

The third section displays the art and culture of Manipur. These are shown in the forms of photographs, audiovisual features and still models.

As the visitor numbers clearly show, the Imphal Peace Museum has had an outstanding impact. It is now one of the main tourist attractions within Manipur. It also serves as a symbol of peace between the governments of Japan and India. It also stands as a symbol of Peace over war.





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.

Contact Us

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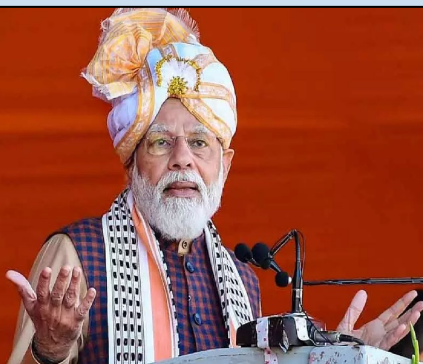
Ongoing/Live Funded Projects

“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 Tharorijam; 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



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