IIIT MANIPUR
NEWSLETTER

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HIGHLIGHT OF THE QUARTER

Indigenous Development of Semiconductor Materials and Devices Workshop Marks Milestone for Technological Advancement

Workshop on "Indigenous Development of Semiconductor Materials and Devices for Viksit Bharat" held on 13th March 2024.
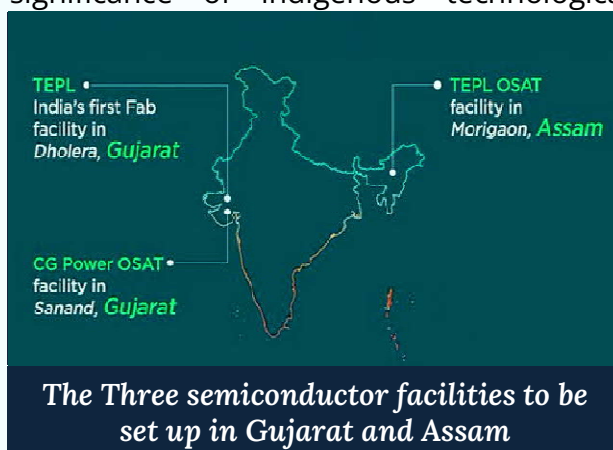*LEFT: The Hon'ble PM address. RIGHT: Director, IIIT Manipur giving lecture*

The Indian Institute of Information Technology (IIIT), Manipur, recently hosted a landmark workshop on Indigenous Development of Semiconductor Materials and Devices for Viksit Bharat. The event, held on March 13, 2024, served as a pivotal moment in India's technological journey, celebrating the laying of foundation stones for three semiconductor facilities by the Honorable Prime Minister of India.

The day commenced with a flurry of activity as students eagerly registered for the workshop, setting the stage for a day of insightful discussions and knowledge-sharing. At the traditional ceremony of lamp lighting, a symbol of auspicious beginnings, the Director, accompanied by esteemed professors, illuminated the room with hope and promise.

Proceedings continued with a warm welcome address by Prof. Dr. Subasit Borah, setting a tone of camaraderie and intellectual curiosity. The Inaugural Address by Prof. Krishnan Baskar, Director, IIITM, emphasized the significance of indigenous technological development in shaping India's future.

The highlight of the event was the Special Address by Dr. Ramesh Ch Mishra, which delved into the intricacies of semiconductor technology and its implications for India's technological sovereignty. The audience was captivated as Dr. Mishra elucidated the potential of semiconductor research and development in driving innovation and economic growth.

TEPL
India's first Fab facility in *Dholera, Gujarat*

TEPL OSAT facility in *Morigaon, Assam*

CG Power OSAT facility in *Sanand, Gujarat*

The Three semiconductor facilities to be set up in Gujarat and Assam

The much-anticipated moment arrived when the Honorable Prime Minister of India graced the occasion with his presence, delivering an inspiring address on the importance of semiconductor manufacturing for India's progress. He also laid the foundation stones for three semiconductor facilities in India of which two will be set up in Gujarat and one in Assam, a milestone in India's Growth.

Following a brief interval for refreshments, participants immersed themselves in an insightful overview of Semiconductor Device Fabrication and Technologies, presented by Prof. Krishnan Baskar. The session provided invaluable insights into the complexities of semiconductor production processes, laying the groundwork for future advancements.

Faculties, Staff and Students of IIIT Manipur participating the workshop.

After the lunch break, attendees reconvened for a series of specialized lectures on cutting-edge technologies. Prof. Dr. Nagesh Ch enlightened the audience on VLSI & MEMS Devices for Biomedical Applications, showcasing the potential of semiconductor devices in revolutionizing healthcare.

The day reached at its peak with a captivating lecture on Drone Technology by Prof. Dr. Ramesh Ch Mishra, exploring the transformative impact of semiconductors on unmanned aerial vehicles. Participants marveled at the possibilities unleashed by this burgeoning field, envisioning a future shaped by innovation and ingenuity.
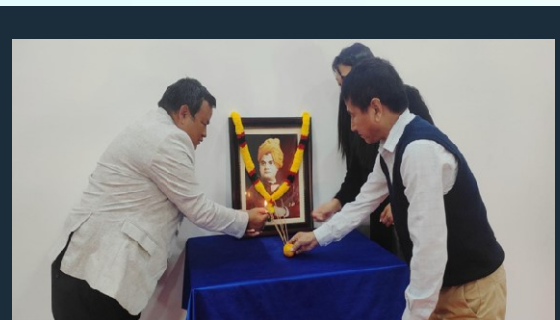
As the sun began to set, the closing ceremony brought a sense of fulfillment and accomplishment. Prof. Dr. Nagesh Ch delivered a heartfelt Vote of Thanks, expressing gratitude to all involved in making the workshop a resounding success. Participants departed with a renewed sense of purpose, inspired to contribute to India's technological renaissance.

In retrospect, the workshop stands as a testament to India's unwavering commitment to technological self-reliance. By nurturing talent, fostering innovation, and embracing indigenous expertise, India is poised to emerge as a global leader in semiconductor manufacturing, ushering in a new era of progress and prosperity.

IMPORTANT EVENTS

National Youth Day Program

Lamp lighting ceremony

In a vibrant celebration of National Youth Day, the Indian Institute of Information Technology Manipur (IIIT Manipur) joined hands with Think India to orchestrate an insightful Interaction cum Discussion Programme on "The Role of Engineering Students for a Viksit Bharat 2047". The programme was held on 12 January, 2024, in the auditorium of IIIT Manipur bearing testimony to the youthful energy and intellectual vigour pervading the campus.

The proceedings commenced with a warm welcome extended by Dr Leihaorambam Sarbajit Singh, Interim Registrar, IIIT Manipur. Dr. Sarbajit Singh's opening remarks set the tone for an engaging discourse on the transformative potential of engineering students in shaping the future of India.

The keynote address, delivered by Dr. Th David Singh, Associate Professor, NIT Manipur and ABVP NEC Special Invitee, resonated deeply with the audience. Dr David Singh passionately underscored the pivotal role of youth engagement in problem-solving endeavours and the imperative of embracing emerging technologies across diverse domains. Furthermore, he shed light on the National Education Policy (NEP) and urged the youth to harness technology to proliferate literature in local languages, thereby enriching India's cultural tapestry.

The highlight of the event was the innovative idea competition, which showcased the ingenuity and creativity of budding engineers from IIIT Manipur. Seven students from the first year of IIIT Manipur presented their visionary concepts on a spectrum of topics ranging from green energy and biogas to urban mobility systems and electric vehicles (EV) integrated with C code.

Faculty members, staff, and students participating in the National Youth Day program.

The laurels of the competition were bestowed upon the following students:

- S Naveen: A first-year student whose groundbreaking concept on electric vehicles and C code earned him the first prize. Naveen's innovation revolved around the development of a control app (C-app) interfacing with a C-device, facilitating real-time monitoring of battery health and detection of malware defects in electric vehicles.
- Pawan Kumar Dangi: A first-year student from the Computer Science and Engineering (CSE) department, clinched the second prize for his ingenious idea on task-based degree completion within the innovative education system. Dangi's proposal promised to revolutionize the educational landscape by introducing a task-centric approach to degree attainment.
- Rounak Prajapati: A second-semester student pursuing Electronics and Communication Engineering (ECE), emerged victorious with the third prize for his insightful exposition on the Urban Mobility system. Prajapati envisioned a sophisticated platform leveraging AI and machine learning algorithms to optimise mile-to-mile connectivity, alleviate traffic congestion, and promote the widespread adoption of electric vehicles for a holistic transportation ecosystem in India.

Dr. Th David Singh, Associate Professor at NIT Manipur, the Special Invitee from ABVP NEC, delivering a speech.

The event also featured a panel discussion comprising eminent experts from academia and industry, who deliberated on strategies to foster innovation and entrepreneurship among engineering students. The panellists focused on the need for interdisciplinary collaboration, mentorship programs, and industry-academia partnerships to nurture a conducive ecosystem for innovation, technical research and enterprise.

In conclusion, the Interaction cum Discussion Programme served as a testament to the indomitable spirit and intellectual prowess of the youth at IIIT Manipur. As the nation strides towards realizing the vision of a 'Viksit Bharat 2047,' it is the concerted efforts and innovative zeal of young engineers like those at IIIT Manipur that will pave the way for a brighter, more prosperous future.

Dr. Leihaorambam Sarbajit Singh presenting a small token of appreciation to the Chief Guest.

Republic Day Celebration at IIITM

Professor Krishnan Baskar, the Director of IIIT Manipur, delivering a speech on Republic Day.

On January 26, 2024, India marked its 75th Republic Day with immense pride and patriotic fervor. At the Indian Institute of Information Technology (IIIT), Manipur, the occasion was celebrated with great enthusiasm by students and faculty members who gathered on the college grounds to honor this significant day in the nation's history.

The celebration commenced with the hoisting of the Indian National Flag, fondly known as the Tiranga, by Professor Baskar, the esteemed Director of IIIT Manipur. The sight of the flag soaring high against the clear sky was a poignant reminder of the nation's journey and the struggles that led to its current stature. The flag hoisting ceremony was followed by the melodious strains of the national anthem, "Jana Gana Mana," and the national song, "Vande Mataram," which resonated in the hearts of all present.

Following the patriotic display, Professor Baskar addressed the gathering with an inspiring speech that delved into India's remarkable growth trajectory since gaining independence. He eloquently narrated the transformation of India from a nation impoverished and ravaged by colonial exploitation to its current standing as one of the world's fastest-growing large economies.

Professor Baskar emphasized the critical role of the youth in shaping India's future and achieving the vision of "Viksit Bharat" or a developed India by 2047. He highlighted how technological advancements have been pivotal in propelling the nation forward and underscored the responsibility of young Indians to shift their mindset from being job seekers to becoming job creators. He pointed out that institutions like IITs, NITs, and IIITs are instrumental in this transformation, providing the necessary skills and innovation to drive the country towards its developmental goals.

Students and faculty members listening to the address

Professor Krishnan Baskar, the Director of IIIT Manipur, unfurling the Indian national flag on Republic Day.

The director's speech was a call to action for the students, encouraging them to harness their potential and contribute actively to the nation's progress. He spoke passionately about the importance of innovation, entrepreneurship, and the need for a collective effort to build a prosperous and self-reliant India.
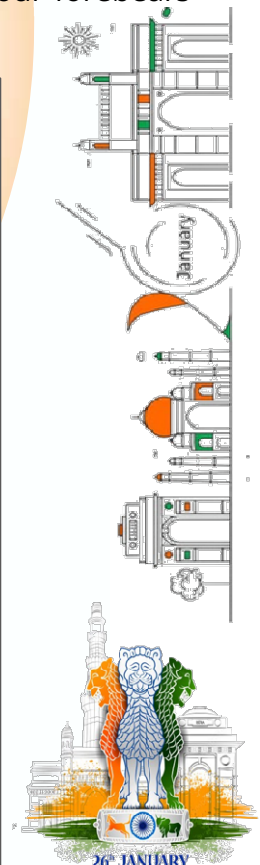
The event concluded with the distribution of refreshments, allowing students and faculty to mingle and reflect on the day's proceedings. The atmosphere was filled with a sense of camaraderie and shared purpose, reinforcing the values of unity and national pride.

The Republic Day celebration at IIIT Manipur was not just an observance of a historical date but a reaffirmation of the institute's commitment to nurturing future leaders and innovators. It was a day that instilled pride and motivated the community to contribute towards the nation's journey to becoming a developed, self-sustaining global power.

As we commemorate this significant milestone in our nation's history, let us all pledge to work towards the vision of a "Viksit Bharat," inspired by the sacrifices of our forebears and the dreams of a brighter future.

Students, staff, and faculty members standing for the national anthem.

Pariksha Pe Charcha

Pariksha Pe Charcha 2024

Inspiring Insights from IIIT Manipur

The spirit of academic excellence and holistic development echoed through the halls of IIIT Manipur as it hosted the live telecast of Pariksha Pe Charcha 2024 on January 29. The event, graced by the presence of Prime Minister Narendra Modi, resonated with invaluable insights aimed at empowering students to navigate the challenges of examinations and beyond.

Professor Krishnan Baskar, the Director of IIIT Manipur, taking part in the program

Students of IIIT Manipur virtually attending the event

Healthy Competition Necessary: Contrary to viewing competition as a daunting force, PM Modi advocated for perceiving it as a catalyst for growth. He emphasized the importance of healthy competition in fostering resilience, innovation, and personal development among students.

Handling Pressure: The First Step Toward Success: Prime Minister Modi kickstarted the discussion by emphasizing the significance of handling pressure effectively. Acknowledging the inevitable stress surrounding exams, he underscored that mastering the art of pressure management lays the foundation for success in any endeavor.

A Positive Teacher-Student Relationship: Recognizing the pivotal role educators play in shaping future generations, PM Modi stressed the importance of fostering a positive teacher-student relationship. He emphasized the need for mutual respect, communication, and support to cultivate an enriching learning environment.

The Significant Role of Parents: PM Modi reiterated the crucial role parents play in their children's academic journey. He encouraged the parents to provide unwavering support, guidance, and a nurturing environment conducive to holistic development.

Highlighting the Importance of Time Management During Exams: Time management emerged as a critical theme, with PM Modi highlighting its paramount importance during exams. He cautioned against the pitfalls of poor time management and advocated for strategies to optimize productivity and efficiency.

Embracing Technological Tools Wisely: While acknowledging the benefits of technological advancements, PM Modi cautioned against excessive reliance on gadgets at the expense of valuable time. He emphasized the need for a balanced approach, where technology enhances rather than hinders academic pursuits.

Recharging Body and Mind: Drawing parallels between recharging gadgets and revitalizing oneself, PM Modi emphasized the importance of self-care during exam preparations. He underscored the role of sunlight, physical activity, and maintaining a positive mindset in nurturing overall well-being.

Emphasizing the Role of Trust: Trust emerged as a cornerstone of academic success, with PM Modi highlighting its transformative impact on student's mindset and performance. He encouraged the students to cultivate trust in themselves and their abilities, fostering resilience and confidence.

Stress after exam: The Prime Minister said that the main reason for stress after exams is not accepting the truth and consistently wondering if the exams went well. Shedding light on the outlook towards life, the Prime Minister remarked that one exam is not the end of life and overthinking about the results should not become a thing of everyday life.

Boosting Student Spirit: Following the enlightening session, Prof. Krishnan Baskar, the director of IIIT Manipur, delivered a speech highlighting the key takeaways. His words resonated with students, igniting a renewed sense of purpose, determination, and enthusiasm towards their educational pursuits. His comments rekindled their excitement, and sense of purpose for their academic endeavors.

In essence, Pariksha Pe Charcha 2024 at IIIT Manipur served as a beacon of inspiration, equipping students with invaluable insights and strategies to navigate academic challenges with confidence and resilience. The event was a lighthouse of inspiration, giving students priceless knowledge and coping mechanisms to face academic obstacles head-on and with fortitude. As they embark on their academic journey, armed with wisdom and guidance, they are poised to thrive and excel in their pursuits.

Prime Minister Shri Narendra Modi interacting with students.

Student's Gymkhana Council
Swearing Ceremony

Amidst an aura of enthusiasm and anticipation, the Indian Institute of Information Technology Manipur (IIIT Manipur) recently hosted its annual Gymkhana Council Swearing in Ceremony on 1st February 2024. The event, a cornerstone of student governance, marked the transition of responsibilities from the outgoing council to the newly elected members, igniting a fervour of excitement and commitment among the student body.

The ceremony commenced with a palpable sense of anticipation, as students, faculty, and staff gathered to witness the transfer of power. Against the backdrop of IIIT Manipur's picturesque campus, the outgoing council members, lauded for their dedication and service, graciously passed the baton to their successors, embodying the institute's ethos of continuity and progress.

Director giving the Welcome Speech

With each newly elected member stepping forward to take their oath of office, the auditorium resonated with applause and cheers, underscoring the collective support for the incoming leadership. Pledging to uphold the values of integrity, inclusivity, and excellence, the council members embarked on their journey with a profound sense of duty and purpose, ready to steer the institute towards new heights.

Following the swearing-in, the event featured inspirational speeches from faculties and the Director of IIITM, emphasizing the pivotal role of student leadership in shaping the campus ecosystem. The outgoing council members shared their invaluable insights and experiences, imparting words of wisdom to their successors and reaffirming their commitment to the institute's welfare.

As the newly constituted Gymkhana Council assumes office, they embark on a mission to champion the interests of their peers, foster a culture of innovation, and cultivate a sense of belonging within the IIIT Manipur community. Empowered by the trust and confidence bestowed upon them, these young leaders stand poised to enact positive changes and leave an indelible mark on the institute's legacy.

In essence, the Gymkhana Council Swearing-in Ceremony at IIIT Manipur epitomizes the spirit of student leadership and camaraderie, serving as a testament to the institute's commitment to holistic development and excellence. As the torch passes from one generation to the next, the legacy of leadership continues to thrive, illuminating the path towards a brighter future for IIIT Manipur and its constituents.

Group photograph of Gymkhana Council.

Joint Secretary, Cultural (Prince Bhardwaj)

Joint Secretary, Technical (Aaryan Sinha)

Joint Secretary, sports (Aryan Jha)

Joint Secretary, Hostel Affairs (Amit Kumar)

General Secretary, Cultural (Aman Maurya)

General Secretary, Hostel Affairs (Vineesh Kumar Reddy)

General Secretary, Technical (Alok)

Vice President (Suraj shikhar)

Dr. Nongmeikapam Kishorjit HoS, Students Affair

Prof Krishnan Basker Director, IIITM

Dr. Rajshree Rajkumari

General Secretary, Sports (Aman Kumar)

Joint Secretary, Technical (Aditi Vidyarthi)

Joint Secretary, Cultural (Aakriti Verma)

Joint Secretary, Hostel Affairs (Manepalli Lakshmi Chaitna)

Joint Secretary, Sports (Yogita Kumari)

The Gymkhana Council Swearing-in Ceremony at IIIT Manipur marks a seamless transition of leadership, embodying the institute's commitment to progress and excellence. With a pledge to uphold values of integrity and inclusivity, the newly elected council members are poised to advocate for their peers and shape a brighter future for the institution. Guided by a legacy of leadership and community spirit, this ceremony signifies a pivotal moment in IIIT Manipur's journey towards holistic development and academic success.

Important Activities

Inter-IIIT ASMITA'24

Professor Krishnan Baskar, the Director of IIIT Manipur motivating and flagging off students while they leave to participate in ASMITA 2024

In a display of stellar athleticism and unwavering determination, the contingent from IIIT Senapati emerged as a formidable force at the Asmita Inter-IIIT Sports Meet, hosted by IIIT Allahabad. With a team comprising 60 male and 2 female students, IIIT Senapati showcased their prowess across various disciplines from March 9th to March 12th, 2024.

Following intense competition and spirited performances, IIIT Senapati proudly secured a total of 9 medals, marking their outstanding achievement in the prestigious event. Among the highlights, Mr. Pawan Dangi clinched a bronze medal in 4 x 100 Relay Race, while Ms.Apoorva Singh secured another bronze in powerlifting.

However, it was the swimming sensation Mr. Sambodh Gupta who stole the limelight, dominating the aquatics events with an impressive haul of 3 gold medals. Sambodh's remarkable victories came in the 50m freestyle, 50m butterfly, and 100m freestyle events, while Mr. Korapati secured another gold in Javelin throw, cementing their status as a rising star in the realm of intercollegiate sports.

In addition, Mr.Divyansh, Mr.K Pawan, Mr.Jagdeesh collectively secured third position for IIIT Senapati in Relay Race (4x100), receiving a bronze medal each.

Apoorva Singh
BRONZE: Powerlifting

Pawan Dangi
BRONZE: 4 x 100 m Race

Divyansh
BRONZE: Relay Race

ASMITA 2024 MEDALS

K. Pawan
BRONZE: Relay Race

Jagdeesh
BRONZE: Relay Race

Sambodh Gupta
GOLD: 50m Freestyle
GOLD: 50m Butterfly
GOLD: 100m Freestyle

Abhishek Korapati
GOLD: Javelin Throw

All the Asmita Inter IIIT 2024 Sports tournament participants returned back after showing their ferocity in the event

Despite fierce competition, IIIT Senapati secured the 9th position overall in the Asmita Inter-IIIT Sports Meet, a testament to their dedication and competitive spirit. The success of IIIT Senapati at the Asmita Inter-IIIT Sports Meet not only highlights the exceptional talent nurtured within the institution but also underscores the importance of sportsmanship and unity fostered by this premier competition among IIITs nationwide. As the contingent returns home with heads held high and medals adorning their chests, they leave an indelible mark on the intercollegiate sports landscape, inspiring future generations of athletes to strive for greatness.

National Voters' Day Pledge

On the auspicious occasion of National Voters' Day observed on 25th January 2024, the corridors of the Indian Institute of Information Technology Manipur (IIIT Manipur) echoed with patriotic fervour as the director, faculty, staff and students came together to reaffirm their commitment towards democratic principles and responsible citizenship. Against the backdrop of the serene campus of the institute, a solemn oath ceremony marked the importance of exercising the fundamental right to vote and maintaining the democratic ethos of the nation.

Director and Staffs, IIIT Manipur taking pledge on National Voters' Day of India

National Voters' Day holds immense significance in the history of Indian democracy, symbolizing the cornerstone of participatory governance and inclusive decision-making. It is a poignant reminder of the sacrifices made by our forefathers to secure the right to vote, a privilege that empowers citizens to shape the destiny of the nation through the ballot box.

At IIIT Manipur, the observance of National Voters' Day went beyond mere formal rituals; It embodies a fervent belief in the transformative potential of active citizenship and informed electoral participation. The director, faculty, staff and the students gathered in the spirit of unity and solidarity, pledged to uphold democratic values and discharge their civic duties with diligence and devotion.

Faculty, staffs and students of IIIT Senapati taking pledge on National Voters' Day of India as a responsible citizen of India.

As a guardian of democracy, IIIT Manipur stands firm on its commitment to promoting ethical governance, social justice and inclusive development. By nurturing a generation of enlightened citizens aware of their rights and responsibilities, the Institute strives to strengthen the foundations of Indian democracy and usher in an era of progressive change and equitable development.

MSME-funded Advanced-Entrepreneurship and Skill Development Program (A-ESDP) on "Learning the Artificial Intelligence (AI) and Machine Learning(ML)"

Director IIIT Manipur inaugurating the ESDP program

IIIT Manipur successfully concluded an Advanced Entrepreneurship and Skill Development Program (A-ESDP) held from the 4th to the 18th of March 2024, focusing on Artificial Intelligence (AI) and Machine Learning (ML). The program was funded by the Ministry of Micro, Small & Medium Enterprises (MSME), Government of India.

The goal of the program was to train and equip the knowledge and opportunities of using Artificial Intelligence and Machine Learning to the budding entrepreneurs of the area.

Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to mimic human-like cognitive functions such as learning, problem-solving, perception, and decision-making. AI technology is widely used throughout industry, government, and science. AI has wide range of applications that play a vital role in helping mankind.

Some notable applications of AI include Education, healthcare, finance, E-commerce, manufacturing, smart assistance, image recognition, personalization and many more. It has been effectively used in business to automate tasks done by humans. Particularly when it comes to repetitive, detail-oriented tasks, such as analyzing large numbers of legal documents to ensure relevant fields are filled in properly, AI tools often complete jobs quickly and with relatively few errors. The rapidly expanding population of generative AI tools will be important in fields ranging from education and marketing to product design. Learning AI prepares the learners for the digital age and equips them with skills relevant to the future job market.

Faculty members, staff, and participants in the program.

Prof. Prof. Gautam Barua
IIT Guwahati

Prof. Kh. Manglem Singh
NIT MANIPUR

Prof. Shivashankar B Nair
IIT Guwahati

The program aimed to equip participants with essential knowledge and skills crucial for navigating the evolving landscape of AI and ML. Through a comprehensive curriculum covering topics such as fundamentals of AI and ML, data preprocessing, model development, and deployment strategies, participants gained practical insights into the applications of these technologies across industries.

Many notable experts in the field from reputed institutes including IITs, NITs gave lectures and hands on training to the participants during the program.

The success of the A-ESDP can be attributed to the dedicated efforts of IIIT Manipur faculty and organizers, who curated the program content and ensured its seamless execution. Their commitment to fostering innovation and skill development has undoubtedly left a lasting impact on all participants, empowering them to leverage the transformative potential of AI and ML in their respective fields. IIIT Manipur's initiative underscores its commitment to nurturing talent and driving technological advancement in the region, making the A-ESDP a cornerstone of its proactive approach towards fostering innovation and equipping individuals with the tools they need to thrive in an increasingly digital world.
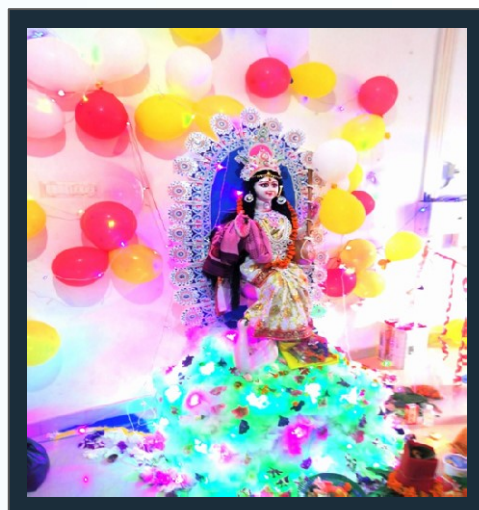

Participants, organizers and guests on the closing ceremony of the ESDP training program

Basant Panchami Celebration

IIIT Senapati embraced the spirit of Basant Panchami, also known as Saraswati Puja, on February 14th with fervor and enthusiasm. Students adorned the campus with colorful decorations and gathered to worship the goddess Saraswati, the epitome of knowledge, music, and art. The atmosphere buzzed with reverence as students offered prayers and sought blessings for academic success.

As part of the celebrations, students brought notebooks, laptops, and other educational items to symbolize their commitment to learning and enlightenment. Additionally, a delightful bhoj was organized, where students shared delicious food and cherished moments of camaraderie.

The festivities not only honored tradition but also highlighted the importance of education and cultural heritage within the IIIT Senapati community, fostering a sense of unity and harmony among students and faculty alike.

Colorful Holi Celebrations at IIIT Senapati

On March 25th, the vibrant spirit of Holi engulfed the campus of IIIT Senapati as all the students came together to celebrate the festival of colors. Amidst joyous laughter and cheerful moments, the entire IIIT Senapati community joined in the festivities, painting the campus with hues of energy and joy. Participants energetically indulged in the age-old tradition of playing with colors, spreading happiness and warmth throughout the campus. From seniors to juniors, everyone immersed themselves in the spirit of unity and celebration, forging bonds of friendship and brotherhood.

The Holi celebrations not only showcased the cultural diversity of IIIT Senapati but also reinforced the values of harmony and togetherness within the institution. As the vibrant colors danced in the air, echoing the laughter and joy of all those present, the spirit of Holi left an indelible mark on the hearts of everyone at IIIT Senapati.

ACHIEVEMENTS

IIIT Manipur and Anna University Chennai Forge Partnership to Establish Drone Pilot Training School

Director IIIT Manipur along with the representatives of Anna University showcasing the MoU signed for partnership to establish Drone Pilot Training School

In a landmark collaboration poised to redefine educational horizons, the Indian Institute of Information Technology Manipur (IIIT Manipur) and Anna University Chennai have inked a Memorandum of Understanding (MoU) on February 26, 2024. This pivotal agreement paves the way for the establishment of a cutting-edge Drone Pilot Training School at IIIT Senapati, Manipur, signaling a transformative leap in the realm of technological innovation and skill development.

The MoU, signed amidst much anticipation and enthusiasm, heralds a new era of cooperation between two esteemed educational institutions renowned for their commitment to excellence in academia and research. Leveraging their respective strengths and expertise, IIIT Manipur and Anna University Chennai aim to spearhead the development of drone technology and empower aspiring pilots with the requisite knowledge and skills to navigate this burgeoning field.

The establishment of the Drone Pilot Training School at IIIT Senapati, Manipur, represents a strategic convergence of resources and vision, poised to capitalize on the immense potential of unmanned aerial vehicles (UAVs) in diverse sectors ranging from agriculture and infrastructure to disaster management and surveillance. By offering specialized training programs and certifications, the school endeavors to cultivate a cadre of proficient drone pilots equipped to harness the transformative capabilities of this disruptive technology.

Director IIIT Manipur with the representatives of Anna University on the MoU signing Event

The initiative holds immense promise for the socio-economic advancement of the region, empowering local communities with access to state-of-the-art training facilities and opportunities for skill enhancement. Moreover, by fostering collaboration between academia, industry, and government agencies, the Drone Pilot Training School seeks to catalyze innovation and entrepreneurship in the burgeoning drone ecosystem, positioning Manipur as a hub of excellence and ingenuity in the field of aerial robotics.

As the collaborative venture gains momentum, stakeholders anticipate a cascade of benefits ranging from enhanced employability and job creation to heightened research and development initiatives. By nurturing talent and fostering a culture of innovation, IIIT Manipur and Anna University Chennai reaffirm their commitment to shaping a future where technology serves as a catalyst for positive change and societal progress.

In essence, the signing of the MoU to establish the Drone Pilot Training School at IIIT Senapati, Manipur, epitomizes the spirit of collaboration and forward-thinking leadership, propelling India's aspirations towards technological excellence and inclusive growth. As the partnership unfolds, it holds the promise of unlocking new opportunities, driving innovation, and charting a trajectory towards a future defined by limitless possibilities in the realm of drone technology and beyond.

Students of IIIT Manipur completed the Certificate Course in Sanskrit Language

On 27th January 2024, students completed the Certificate Course in Sanskrit Language that were offered at IIIT-Manipur. Certificates are also issued by Central Sanskrit University, New Delhi, equivalent to Eight Credits. Director IIIT-Manipur gave the Certificates & Congratulated the Students.

Sanskrit, often referred to as the "Language of the Gods" or "Devabhasha," is an ancient Indo-European language that originated in the Indian subcontinent. It is the liturgical language of Hinduism, Buddhism, and Jainism and has deeply influenced many modern languages, particularly in the Indian subcontinent. It was the language of the Vedas, the oldest sacred texts of Hinduism, and served as a medium for philosophical, religious, and scientific discourse in ancient India. Over the centuries, Sanskrit evolved into various dialects and contributed significantly to the development of other Indo-European languages. Sanskrit is renowned for its precise grammar, sophisticated phonetics, and vast vocabulary.

Reviving Sanskrit:
Modern students embracing ancient wisdom

It has a highly systematic and structured grammar, with a complex system of noun declensions and verb conjugations. The language is also known for its intricately composed poetry, with classical Sanskrit literature comprising epics, dramas, philosophical treatises, and scientific texts. Sanskrit has played a pivotal role in shaping Indian culture, philosophy, and literature. It has been the language of classical Indian texts such as the Vedas, Upanishads, Ramayana, Mahabharata, Bhagavad Gita, and works of philosophers like Adi Shankaracharya and Chanakya. Additionally, many important scientific, mathematical, and medical treatises were written in Sanskrit.

Despite its ancient origins, Sanskrit continues to be studied and revered by scholars worldwide. It is very salutary to learn Sanskrit since it stands as a testament to the richness and complexity of India's linguistic and cultural heritage. Its enduring legacy continues to inspire scholars, poets, and philosophers worldwide, serving as a bridge between the ancient wisdom of the past and the aspirations of the future. Efforts to revive and promote the language have gained momentum in recent years, with initiatives to incorporate Sanskrit into modern educational curricula and digital platforms. Organizations and universities dedicated to Sanskrit studies contribute to its preservation and dissemination.

Director, IIIT Manipur and Sanskrit Faculty awarding the successful students with Sanskrit Certificates

Director, IIIT Manipur and Sanskrit Faculty awarding the successful students with Sanskrit Certificates

A move has been made by IIIT Manipur towards this great initiative. The institute offered Sanskrit by making it as a certificate course and facilitated the interested students in learning the language. On 27th January 2024, certificates were issued by the Central Sanskrit University, New Delhi. Moreover, the certificate is equivalent to eight credits. Director IIIT-Manipur gave the Certificates & Congratulated the Students. Ms. Aditi Vidyarthi from , Ms Aditi Mishra, Mr. Gannamraju Sai Koushik, and Mr. Aman Maurya were the students who were presented with the certificates.

Projects

- Dr. Akoijam Malemngabi's (Asst. Professor, HBS) project on *"Text to Text/Speech Parallel Corpus Creation of Most Commonly Used Phrases and Sentences in English and Meeteilon"* has been selected for funding by DST Manipur for a Short term research project under R&D and Biotechnology Scheme of DST, Manipur. Details is as follows:

  - **Title** - "Text to Text/Speech Parallel Corpus creation of most commonly used phrases and sentences in English and Meeteilon"
  - **PI** - Akoijam Malemnganbi, Assistant Professor, Department of Humanities and Basic Sciences, IIIT Manipur.
  - **Co PI** - Leihaorambam Sarbajit, Assistant Professor, Department of Humanities and Basic Sciences, IIIT Manipur.
  - **Funded by** - Department of Science and Technology, Manipur
  - **Duration** - 12 months
  - **Project Cost** - Rs. 1,20,000 (Revised Budget proposed by DST, Manipur)
  - **Date of notification for selection** - 19th February, 2024

Session Chairs/Invited Talks

- Dr. Navanath Saharia (Asst. Prof, CSE)
  - Delivered a talk on Reshaping Teaching and Learning in the age of GPT at the Faculty Development Programme on Artificial Intelligence in Advanced Teaching and Learning organized by University of Science & Technology Meghalaya on 20 Mar 2024
  - Delivered a talk on Use of Drone for Effective Extension as resource person at the Capacity Building programme organized by Central Agricultural University, Imphal on 13 March 2024

- Dr. Kishorjit Nongmeikapam (HoD, CSE)
  - Delivered a talk at Samagra Shiksha Secondary, Manipur on 2024-02-23, "IT in the new world of education"
  - Delivered a talk at Manipur University on 2024-02-22, "AI and Entrepreneurship Development"
  - Delivered a talk at SCERT, Manipur on 2024-02-28, "Information Technology: A means in modern education"
  - Delivered a talk at CIIL, Mysore on 2024-02-14, "A case study of Machine Learning and Machine Translation"
  - Delivered a talk at CIIL, Mysore on 2024-02-13, "The relation between language and Machine Learning

- Dr. Khoirom Motital Singh (Asst. Prof, CSE)
  - Was invited as a resource person for the Faculty Development Program on the theme "Cryptography: Foundations and its Directions in Research" from 15 to 21 January 2024. "

Publications

- Shamsi, Zeba, Anish Kumar Saha, Ripon Patgiri, **Khoirom Motilal Singh**, and Laiphrakpam Dolendro Singh. *"Steganalysis on Dual-Layer Security of Messages Using Steganography and Cryptography."* In 2023 15th International Conference on Information Technology and Electrical Engineering (ICITEE), pp. 264-269. IEEE, 2023.
- Singh, Laiphrakpam Dolendro, Rohit Thingbaijam, Ripon Patgiri, and **Khoirom Motilal Singh**. *"Cryptanalysis of cross-coupled chaotic maps multi-image encryption scheme."* Journal of Information Security and Applications 80 (2024): 103694.
- **A. S. Odyuo**, P. Mercy, M. K. Patel, *"FR-Labeling on Hybrid Partitioned Shell Graph",* Advances in Mathematical and Computational Science, De Gruyter. (Appearing 2024).
- **A. S. Odyuo**, M. K. Patel, *"THE ψ-LABELING ON DECOMPOSITION OF COMPLETE BIPARTITE GRAPHS"* Scopus Indexed Springer Proceedings of International Conference on Algebra and Its Application-2023, Fez, Morocco.
- **Devi, M.D., Saharia, N.** *"Identification of domain-specific euphemistic tweets using clustering."* International Journal of Information Technology. 16, 21–31 (2024). Springer, https://doi.org/10.1007/s41870-023-01595-y
- **H. Kenny Devi** and **L. Sarbajit Singh** *"Manipuri verb classification: A New Approach"* 12th International Conference of the North East Indian Linguistics Society (NEILS12), Gauhati University, Guwahati, Assam India 3-5 Feb., 2023

Student Achievements

- AYUSH KUMAR DWIVEDI of CSE Department secured AIR 2578 in GATE CSE 2024.
- ANNEPU SAI CHARAN of CSE Department bagged the best paper award in the IEEE IATMSI 2024 conference held at IIIT Gwalior.
- SAMBODH GUPTA of CSE department secured 3 gold medals in inter-IIIT sports meet held at IIIT Allahabad for swimming in 50mt. Freestyle, 50mt. Butterfly and 100mt. freestyle.

ARTICLE OF THE QUARTER

A Toothless Tiger

In the heart of the dense jungle, a young boy ventured on an adventure, an adventure of finding the ball which was lost while playing cricket. As he headed cautiously through the jungle, his heart pounded with fear and anticipation, for he knew that danger lurked around every corner. Suddenly, a rustle in the bushes caught his attention. His breath caught in his throat as he froze in place, fear gripping all over his body. Emerging from the shadows, a fearsome and majestic creature loomed before him – a tiger, its menacing gaze piercing through the darkness. With trembling hands and a racing heart, the boy attempted to flee. But as the tiger drew closer, a strange realization dawned upon him – something unusual.

Upon closer inspection, the boy discovered that the fearsome beast before him was none other than a toothless tiger. Despite being a tiger, it posed no threat to him whatsoever.

And just like the toothless tiger, there exists a very similar phenomenon in our lives that mirrors this paradox – the None of the Above (NOTA) option in elections. It's an option provided on electronic voting machines in Indian elections to allow voters to reject all candidates if they find none of them suitable. On the surface, NOTA appears to be a beacon of hope for those dissatisfied with the choices presented to them, offering a sense of freedom and empowerment.

Courtesy: openart.io

But beneath all this empowerment, there lies a harsh truth – NOTA is nothing but a toothless tiger in the realm of electoral politics.

In Indian elections, if the NOTA option receives the majority of votes, the candidate with the highest number of votes after NOTA is declared the winner. Hence they do not affect the outcome of the election, the result remains the same irrespective of the number of NOTA votes.

NOTA

A CHOICE
WHEN THERE IS NO
CHOICE

Consider this scenario: In a particular constituency, there are 100 votes cast. Of these, 95 votes are for NOTA, while candidate A receives 3 votes and candidate B receives 2 votes. Despite NOTA receiving the overwhelming majority of votes, candidate A, the candidate with the most votes after NOTA, is declared the winner of the election. This highlights the flaw in the electoral system, where even a massive victory for NOTA is meaningless.

As we turn 18, the government entrusts us with a solemn responsibility – the right to choose who will lead our nation. It is a recognition of our maturity, our capability to participate in shaping the destiny of our country. This is not merely a formality; it is a sign of trust and faith in our ability to make decisions that will impact the lives of millions. Yet, with this privilege comes a duty – a duty to be aware, informed, and engaged. It's not enough to simply cast our vote; it's essential for us to understand the processes and features that govern our electoral system, including the significance of options like NOTA.
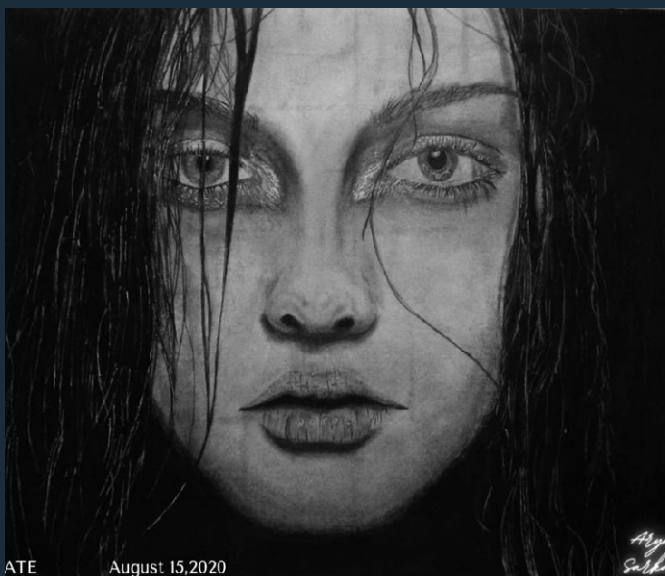
As we stand on the brink of a new era, the decisions we make today will impact our very own future.

In conclusion, NOTA may seem like a viable option but it does not bring much change. Instead, in my opinion, we should invest a small amount of time in researching and comparing the candidate. Even if the choices are not ideal, we should remember in today's world, democracy is all about choosing the one who is least flawed. By actively participating in the electoral process, we can work towards a more developed democratic country where every voice is heard and every vote really counts.

~Aabhash Mukherjee,
1st year, BTech,
Department of Electronics and Communication,
IIIT Manipur.

STUDENT'S CORNER

Paintings

By: Arya Sarkar (2nd year student)

By: Rahul Sharma
(1st year student)

By: Mihir (3rd year student)

By – Aditi (1st Year)

Poetry

I am trapped in this cycle.

Stance is turned so quickly
One moment not gone,
Switching sides already.
What did I do to deserve this?
What was the reason behind the pain?
Confusion, anger then guilt,
I am trapped in this cycle.

What was my mistake? My error?
I ask but,
It stays silent, the mirror
My pleas goes unanswered,
And I keep on searching for some answers.

Now I see the casual talks
The changed yet unchanged situations mocks
Pretending nothing is wrong.
No stance is turned, no side was switched.
Everything's the same,
No one's being cast aside.

-By Akanksha Gupta
1st Year

भारतीय सूचना प्रौद्योगिकी संस्थान, मणिपुर

Indian Institute of Information Technology Manipur

(An Institute of National Importance by Act of Parliament, Govt. of India)

Department of Higher Education
Ministry of Education
Government of India

About the Institute

Indian Institute of Information Technology Manipur (IIITM) is an Institute of National Importance (INI) under the Ministry of Education, Govt. of India. It is one of the 25 IIITs which is a group of interdisciplinary technology-based-engineering research institutions in 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 programmes in the departments of Computer Science and Engineering (CSE) and Electronics and Communication Engineering (ECE) and PhD in the departments of CSE, ECE and Humanities and Basic Sciences (HBS) 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 (CSE)
- CSE with Specialization in Artificial Intelligence and Data Science
- Electronics and Communication Engineering (ECE)
- ECE with Specialization in VLSI and Embedded Systems

Doctoral Programme (Ph. D)
- Computer Science and Engineering
- Electronics and Communication Engineering
- Mathematics
- Linguistics

Thrust Areas of Research

Computer Science and Engineering
- Data Mining
- Natural Language Processing
- Speech Processing
- Artificial Intelligence/ML
- Digital Forensics
- UAV
- Social Media Analysis
- Human Computer Interaction
- Hyperspectral Image Processing
- Cyber Security

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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Admissions: admission@iiitmanipur.ac.in

Ongoing/Completed 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 Thaoroijam; 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-Manipur, will serve as a benchmark for the entire North-East"

- Shri. Narendra Modi
Hon'ble Prime Minister of India

"IIIT-Manipur is ensuring a smooth and successful academic atmosphere where the students from across the country feel safe and secure under the able leadership of Director, IIIT-Manipur, Prof. Krishnan Baskar."

- Miss. Anusuiya Uikey
Hon'ble Governor of Manipur
(During the 3rd Convocation of IIIT-Manipur, held on 15th May 2024)

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