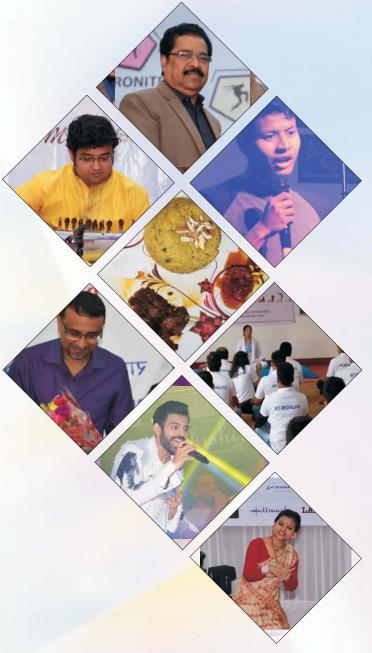


# NITM



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#### **GOVERNMENT-RUN INSTITUTIONS**

BW Rank 2019	Institution	State	Region	Category	Research Excellence (20)	Innovation (15)	Teaching (20)	Employement (20)	Infrastructure (15)	Inclusivess And Social Impact (10)	Total (100)
56	National Institute of Technology Meghalaya	Meghalaya	North East India	Public	11.4	11	12.7	16	12.8	5.7	69.6

## Chronicle

Issue 2; July 2019



#### Interview

National Institute of National Institute of Technology (NIT), Meghalaya, aims to be a center of excel-lence in education and research in the fields of engineering, science and technol-ogy. In conversation with Prema Lamba rna Lamba of BW Education. of BW Education,
B.B Biswal, Director
of NIT Meghalaya,
shares how the institute is efficiently imparting education in
spite of being located
in the fringes of the
country. Excerpts:



### **'Revolutions** bring systemic implications'

of the good institutes. Quality, mix (nat and international) of faculty and their adec should be should be ensured for improvin

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**RANKINGS** 



#### with Chairman, BoG, NIT Meghalaya

**NITM Chronicle Team** met **Shri Sajjan Bhajanka**, the Chairman of the Board of Governors on April 1, 2019 and had a short conversation regarding his visit.

TEAM: Sir, what would you like to share from your visit to our institute as the Chairman of the Board of Governors?

**Chairman:** It is my first visit to the institute after being appointed as the Chairman of the Board of Governors. I am happy but I take it as a challenge to shift to the permanent campus, for there are numerous constraints in working from a temporary campus. I will have conversations and reach up to the ministry to release funds for the completion of campus.



**Mr. Sajjan Bhajanka** Chairman, BoG

#### TEAM: Sir, what are your thoughts about the NITM Chronicle, the e-Newsletter of NIT Meghalaya?

**Chairman:** The e-newsletter is a good initiative to hold a medium of communication of information and events across the entire network of institute. While I was inaugurating NITM Chronicle, I recollected my experience at school when we do not have computers and we used stencils to design the magazine and then circulate it further. Through this newsletter, all the members of the editorial board will surely learn latest achievements of the NIT Meghalaya.

TEAM: Sir, campus Gear and Center for Robotics and Mechatronics have started functioning effectively, despite the restrictions of certain types; what would you like to say about such initiatives?

**Chairman:** I have partly seen the campus as I was mainly cooped up with the Board of Governors' meeting. Inception of centers like Robotics and Mechatronics provide student a chance to explore besides main stream studies.

TEAM: Sir is there any message that you want to give to the students of NIT Meghalaya?

**Chairman:** Most importantly, everybody should dream big and aspire to fulfill that dream. Thoughts decide our attitude, and attitude determines our altitude. So we must do our best to enhance our attitude towards all tasks that we perform.

### **Institute Day Celebration**

The Institute Day of NIT Meghalaya was celebrated with unprecedented fanfare on April 1, 2019. Shri A. G. West Kharkongor, Chairman & Managing Director of NEEPCO graced the occasion as the Chief Guest. Prof. Bibhuti Bhusan Biswal, Director, NIT Meghalaya presented the recent achievements of the institute. His address was followed by Shri Sajjan Bhajanka, BOG, NIT Meghalaya. This was Shri Bhajanka's first visit to the campus. He shares his sagacious plans for development of the institute. The highlight of the event was an extramullar lecture by Prof. Abhijit Chakroborty, Dept. of Electrical Engineering, IIEST, Shibpur. Faculties and students were honored for their extraordinary achievements.

#### **Faculty Achievements:**

Faculty	Category of Award	Achievement(s)			
Dr. Smrutirekha Sahoo, Asst. Professor, CE	Outstanding Achievements	Young Geotechnical Engineer Award by Centre for Geomechanics and Railway Engineering, University of Wollongang, Australia and organizing committee of ISGTI 2018			
Dr. Naba Kamal Nath, Asst. Professor, CY	Outstanding Achievements	Research in Smart Materials is highlighted on Rajya Sabha TV			
Dr. Comingstarful Marthong, Associate Professor, CE	Consultancy Grant	Obtaining Maximum Consultancy Grant			
Dr. Arpita Nath, Asst. Professor, PH	Research Project Grant	Maximum Research Project Grant			
Dr. Kishore Debnath, Asst. Professor, ME	Outstanding Research Work	Published 08 articles in peer reviewed journals and filled 01 patent			





#### **Student Achievements:**

- Miss Chandrani Kar, BTech 2015 Batch Topper
- Miss Sangita Saha, BTech 2016 Batch Topper
- Mr. Sidharth Agarwal, BTech 2017 Batch Topper
- Mr. Rajeev Ranjan Chaurasia, BTech 2018 Batch Topper
- Miss Nakita Lakyntiew Marbaniang, MTech 2017 Batch Topper

- Mr. Bolla Madhu Sudhan, MTech 2018 Batch Topper
- Mr. Robin Wilson, MTech 2018 Batch Topper
- Mr. Mahabul Haque, MSc 2017 Batch Topper
- Mr. Bichu George, MSc 2018 Batch Topper

#### **Alumni Induction Event**

NIT Meghalaya Alumni Association for the first time in its history celebrated Alumni Induction Event on April 3, 2019. It started with lamp lighting from **Prof. Bibhuti Bhusan Biswal**, Director, NIT Meghalaya and **Dr. Atanu Banerjee**, Dean (SW), NIT Meghalaya. Both of them delivered their speeches for the outgoing students. Secretary of existing Executive Committee **Mr. Pratikanta Mishra**, PhD scholar, Dept. of EE, briefed about few of their recent plans. E-brochure with contact details & few memories of the outgoing students were unveiled. Would be alumnus were presented with memento.



NIT Meghalaya Alumni Association



Director felicitating the Alumnis

#### **Invited Talks**

#### **Controlling Properties of Nanoconfined Polymers**

The Department of Chemistry has organized an invited talk on "Controlling Properties of Nanoconfined Polymers" by **Dr. Mithun Chowdhury**, Assistant Professor, Department of Metallurgical Engineering and Material Science, IIT Bombay on May 14, 2019.

#### **Weak Interactions to Control C-Hetero Bond Formation Reactions**

The Department of Chemistry has organized an invited talk by **Dr. Prasenjit Mal**, Associate Professor, NISER Bhubaneswar on May 30, 2019. Dr. Mal outlines how soft force of several low-energy and low-level interactions or weak interactions are explored to control certain reactivity of chemical systems. Both students and faculties benefitted from the talk.





Dr. Prasenjit Mal during presentation and group photo.

## **Development of High Performance and Flexible Computing Systems**with Electronic Design Automation

The Department of Electronics & Communication Engineering has organized an expert lecture by **Prof. Masahiro Fujita**, Director of VLSI Design and Education Center, University of Tokyo, Japan on July 9, 2019. Dr. Fujita talks about Development of High Performance and Flexible Computing Systems with Electronic Design Automation. He also explained conventional SoC design flow, Patchable Hardware, Fixed function accelerator, Patchable Accelerator, Patching Technique for Post Silicon ECO flow. The discussion was enriching for both the faculties and PhD scholars.



Prof. Masahiro Fujita during discussion with faculties and students.

### Workshops

#### **Innovation & Entrepreneurship**

The Department of Mechanical Engineering has organized one day workshop on "Innovation & Entrepreneurship" under **PRISM** (Promoting **Innovations** Individuals, Start-ups and MSMEs) scheme of DSIR, Ministry of Science & Technology, Govt. of India duration. The workshop was sponsored by TOCIC, IIT-Guwahati. The workshop observed twenty participations from Faculties & Research Scholars. Dr. Sukhomay Pal, TOCIC, IIT-Guwahati was the expert and Coordinator of the workshop. Dr. Debakumar Sarma, Associate Professor, Dept. of ME & Dean (Planning and Development) and Dr. Biplab Kumar Debnath, Assistant Professor, Dept. of ME were the convenors.



Dr. Sukhomay Pal during presentation.

## Why is my paper not getting accepted?

The Department of Mechanical Engineering has organized a **TEQIP-III** sponsored, One day workshop on "Why is my paper not getting accepted?" on June 10, 2019.

**Prof. C. Balaji**, IIT Madras was the Keynote Speaker. The coordinators of the workshop were **Dr. Biplab Kumar Debnath**, Assistant Professor, Dept. of ME & Dr. **Koushik Das**, Assistant Professor, Dept. of ME.

#### **Faculty Development Program**

#### **Network Security:**

National Institute of Technology Meghalaya has organized a "Faculty Development Program on Network Security" with the collaboration of E&ICT Academy, IIT Guwahati during May 20-24, 2019. The Faculty Development Program was funded by Ministry of Electronic and Information Technology, Govt. of India.



*Certificate Distribution* 

The objective of the program was to train the faculties, researchers, and students about various basics and advanced topics like Computer Network Security, Block-chain Security, Web security, Security issues in IP protocols, Routing layer attacks, Software defined network and attacks, Wireless & Cloud Security and Electronic Mail Security; Firewalls and Web Security. The invited speakers were Prof. Sukumar Nandi, IIT Guwahati, Prof. M. S. Gaur, IIT Jammu, Dr. Brijeswar Bezwada, IIT Hyderabad, Lab- NetSim Inc. Bengaluru, Lab- ARISTA Inc., Dr. E. S. Pilli, MNITJ, Dr. R. B. Battula, MNITJ, Prof. Vijaylaxmi, Dr R. Padmavathy, NITW, and Dr. R. R. Rout, NITW. The workshop receives a total number of twenty eight paticipations. Dr. Akhilendra Pratap, Assistant Professor, Dept. of CSE and Dr. Bunil Kumar Balabantaray, Assistant Professor, Dept. of CSE were the coordinators of the workshop.

#### **Deep Learning & Application:**

Another Faculty Development Program on "Deep Learning & Applications" was organized in collaboration with E&ICT Academy, IIT Guwahati during May 27-31, 2019. The program was funded by Ministry of Electronic and Information Technology, Govt. of India. The program provides training in Artificial Neural Networks (ANNs), Regularization Hyper parameter Tuning and Auto encoders, Convolution Networks, Sequence Modeling, Generative Adversarial Networks, Object Detection Algorithms. The program receives speakers from NVidia, MathWorks-MATLAB, Dr. Anupama Ray, IBM, Dr. Ritu, Intel, Prof. R. Venkatesh Babu, IISc Banglore, and Dr. Biplab Banerjee IIT Bombay. Experts from institutes include host Prof. Balasubramanian, IIT Roorkee, Prof. Aparajita Ojha, IIITDMJ, and Dr. Partha Pratim Roy, IIT Roorkee. Thirty five participants attended the workshop. Dr. Akhilendra Pratap Singh, **Assistant** Professor, Dept. of CSE and Dr. Bunil Kumar Balabantaray, Assistant Professor, Dept. of CSE were the coordinators of the workshop.

## **Enabling Technologies in Robotic through Sensor Integration**

A workshop was organized by **Center for Robotics and Mechatronics** on "Enabling Technologies in Robotic through Sensor Integration" during May 22-24, 2019. The workshop was sponsored by **TEQIP-III**. The objective of this workshop was to introduce a number of modules covering detailed discussions with respect to wide field of application, design and control issues related to recent advances. Adequate exposure on computer simulations and HIL was provided so that upon completion of the course the participants were acquainted with framing of Mechatronic and Robotic

problem pertaining in their teaching and research activities. **Mr. Manoj Das** and **Mr. Omkar Nath Rath** of Embesys Technologies were the invited resource persons. The workshop attracted a total 40 participations.



Participants during hands-on practice session.



Chief Guest and organizers of the workshop

### **Externally Sponsored Research Fund**

Investigators	Title of the Project	Funding Agency	Duration	Grant Amount
PI: Dr. Amit Kumar Paul,	Post Transition State	CSIR	2019-22	Rs. 7.00
Asst. Professor  Dept. of Chemistry	Dynamics on Chemical			lakhs
Dept. or ellermatry	Reactions and the			
	effect of Solvation			
PI: Dr. Paresh Nath Chatterjee,	Assessment of Climate	DST	2019-22	Rs. 66.45
Asst. Prof, Dept. of Chemistry;	Change Impact on Soils			lakhs
Co-Pls: Dr. Mukul Pradhan,	and Various Water			
DST-INSPIRE Faculty, Dept. of CY;	Basins of Meghalaya			
Dr. Anup Dandapat,	Using Existing and			
Assoc. Prof., Dept of ECE;	Newer Techniques			
Dr. Susmita Sharma,				
Asst. Prof, Dept. of CE;				
Dr. Snehadrinarayan Khatua,				
Asst. Prof, Dept. of CY, NEHU				
PI: Dr. Shubhankar Majumdar,	Prediction, Detection	Indo-Japan	2019-21	Rs. 6.26
Asst. Prof, Dept of ECE;	and Monitoring System	project,		lakhs
Co-PI: Dr. Soumen Moulik,	for Landslide in Hilly	DST, MHRD		
Asst. Prof., Dept. of CSE	Region			
Dr. Smrutirekha Sahoo,	Instrumentation, Real-	SERB, DST	2019-22	Rs. 35.03
Asst. Prof, Dept. of CE	Time Monitoring and			lakhs
	Remediation of a Steep			
	Soil Slope Stability in			
	Meghalaya			

## National / International Collaborations

**Dr. K. Senthilkumar**, Assistant Professor, Department of Physics has received **Sakura Science Fellowship** in June 2019.

**Dr. Tribedi Bora**, Assistant Professor, Department of Physics went for collaborative research in IIT Guwahati in June 2019.

#### **Faculty Outreach Activities**

Dr. Yogita, Assistant Professor, Department of CSE was awarded Best Application Paper Award for her work on "Data-Driven Extraction of Quantitative Multi-Dimensional Associations of Cardiovascular Drugs and Adverse Drug Reactions" in the 13th International Conference on Practical Applications of Computational Biology and Bioinformatics held at Avila, Spain during June 26-28, 2019.

**Dr. Saikat Mukherjee,** Associate Professor, Department of MA delivered a lecture on "Frames - Life beyond Bases" at Union Christian College, Meghalaya on June 12, 2019.

### Bon -Voyage

**Dr. Yogita**, Assistant Professor, Department of CSE was awarded travel grant by the Carneige Mellon University, Pittusburg, USA to attend **9th International Workshop on Statistical Analysis of Neuronal Data**. The workshop was organized by University of Pittusburg, USA during May 21-23, 2019.

**Kaibalya Prasad Panda**, PhD scholar of Prof. Gayadhar Panda, Department of EE was awarded the Travel Support from the SERB, DST, Government of India to attend conference organized by IEEE Power & Energy Society (PES) and Politecnico di Milano, Italy during June 23-27, 2019.

**Dr. Anup Dandapat**, Associate Professor, Dept. of ECE was invited to submit the extended version of "Low Match-Line Voltage Swing Technique for Content Addressable Memory", to JISE (SCI Journal) co-authored by T. V. Mahendra, S. W. Hussain, and S. Mishra, in 7th International Conference on Smart Computing & Communications (ICSCC 2019) during June 28-30, 2019, Malaysia.



The following Research Scholars of NIT Meghalaya successfully completed their oral defence viva-voce examination in April 2019 - June 2019:

Name of the scholar	Department	Name of the supervisor(s)	Thesis title	Date of viva-voce
Uddip Kashyap	Mechanical Engineering	Supervisor: Dr. Koushik Das, Assistant Professor  Co-Supervisor: Dr. Biplab Kumar Debnath, Assistant Professor	Heat Transfer Enhancement in a Channel using Modified Rectangular Vortex Generators.	June 10, 2019
Brahmacharimayum Samita Devi	Humanities and Social Sciences	Supervisor: Dr. Paonam Sudeep Mangang, Assistant Professor & HOD	Gender and Power Struggle in the Domestic Sphere in August Strindberg's Plays.	May 17, 2019

## **Celebration of No-Tobacco Day:**

**"No Tobacco Day"** was observed on May 31, 2019. No tobacco pledge was taken by all the faculties and staffs in their respective Departments.



Faculty and staff members taking pledge.

## Observation of Anti-Terrorism Day:

On May 21, 2019 the institute observe "Anti-Terrorism Day". Faculty, students and staff took a pledge under the supervision of Dr. Atanu Banerjee, Associate Professor, Dept. of EE & Dean (SW) to neither to tolerate nor to be a part of any terrorist activity on and off-campus. The event was concluded with the National Anthem.



Faculty and students after pledge ceremony.

## एक भारत श्रेष्ठ भारत

- A workshop on "Language and Cultures" related to Arunachal Pradesh, Uttar Pradesh and Meghalaya was organized on April 3, 2019.
- ❖ A slide show/ photography competition related to tourist spots and exhibition on "History and Geographical background, Tradition, Cultures and Foods" in Arunachal Pradesh, Uttar Pradesh and Meghalaya was organized on April 5, 2019.
- Traditional / Folk songs and dance competition related to Arunachal Pradesh, Uttar Pradesh and Meghalaya was arranged during April 5-6, 2019.
- Food Festival on "Food and Cuisine" related to Arunachal Pradesh, Uttar Pradesh and Meghalaya was organized on April 6, 2019.





Decorated EBSB kiosks

## International Voga Day

The institute celebrated the International Yoga Day in its Lecture hall on June 21, 2019. Mrs. Sagarika Dutta, a certified yoga instructor from Patanjali Yoga Center, was invited to teach yoga on the occasion. She taught subtle yoga asanas to avoid several physical and mental ailments. During her session she highlighted the importance of yoga in daily life and urged to practice it daily.





Faculties and students during Yoga session.



**SHISHIR** is the Annual Cultural Fest of National Institute of Technology, Meghalaya. It is the largest cultural fest celebrated across the state. This gala event was held during April 5-6, 2019.



SHISHIR inauguration ceremony.

There were a number of online and offline competitions started a month before to increase the hype. This included Graphic Design, Meme Design, Hand Sketch Design, Dubsmash, Mr. & Miss Sanskari, Photowalk, and Clash Royal Tourney. In Photowalk, students visited the Garden of Caves in Cherrapunji to capture the beauty of the place.



Felicitation of Mr. Debanjan Bhattacharjee and SPIC MACAY presentation.

Day one commenced with lively performance by Mr. Debanjan Bhattacharjee and his co-artist under SPIC MACAY. Many cultural events like Rangoli and other fun events also adorned the day. The evening was all about Harmony-the Singing Night. Harmony was accompanied by star-studded Pronite, where **Sreerama Chandra Mynampati**, the popular Bollywood sensation, sang students' favourite numbers and enthralled the audience by his stupendous performance.





Students performing in Harmony-the Singing Night.

The subsequent day began with no less enthusiasm. Food Fest reflected the cultures of various teams; EBSB photo exhibition showcases the rich traditions and customs of different regions of India. Various social issues were highlighted by NIT Meghalaya dramatics society. The evening delights were Step Up - the Dance Battle and Panache- the Fashion Night. The day ends with distribution of prizes to the winners of pre-SHISHIR events and the electrifying Jam session.



Audience enjoying Pro-Nite singing by Shreerama Chandra.

#### **Editorial Board**

#### **Advisory Committee:**

Dr. Paresh Nath Chatterjee, Dept. of CY, Chief EditorDr. Paonam Sudeep Mangang, Dept. of HSS, Co-Chief EditorMrs. Ambika Rai, Convener

#### **Student Editorial Board:**



**Deepak Gupta** P17PH003 Chief Editor



Sushmita Paul B18CS007 Board Member



Preeti Polai B18EC003 Board Member

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