

AICTE Faculty development

AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Education. Council understands that there is a need of the day to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. It was felt that Training with latest tools and technologies is vital to keep an institute competitive and more productive. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies. It also transforms them to harmonize with society and most importantly to make them a good citizens of the country. Accordingly, it was decided to the opening of AICTE Training And- Learning - (ATAL) Academies.

NIT Meghalaya

The campus of NIT Meghalaya is located at Bijni Complex, Laitumkhrah at around 2 km from the Police Bazar, Shillong. The institute was established in the year 2010 with its permanent campus of about 450 acre being under construction at Shora, Cherrapunj. The institute consistently performs well with respect to publications, sponsored research, consultancy projects, student performance, ranking etc. The scenic panorama of the valley, the breathtaking local view points, spectacular landscapes and lakes have made the city one of the most popular destinations in the country. The nearest Umroi Airport, Shillong and LGBI Airport, Guwahati are respectively at distances of about 35 km and 130 km and the nearest Guwahati Railway Station is about 100 km from Shillong city. The temperature in the city during the period of FDP will be 15-22°C.

Department of Mechanical Engineering

The Department of Mechanical Engineering, NIT Meghalaya started in 2013 with an intake of 30 in B. Tech. The department started its M. Tech in the year of 2015 with an intake of 15 in the field of Fluid and Thermal Engineering. The intake in M. Tech was increased to 20 in the year of 2018. The department started its Ph.D. in the year of 2015. The Department has produced 3 Ph.D. till date, while several other candidates are in an advanced stage of submission of their theses. The department has organized one international conference in the year 2018 and several other workshops successfully. The faculty members in the department have a judicious mix of young energetic people with senior professors. The faculty members are involved in executing several sponsored projects and consultancy works.

All India Council for Technical Education

Sponsored

**Faculty Development Program on
Controller design and implementation for
Renewable Power Generation Systems (Hydro,
Wind, Solar System)
7-11 March 2022**



**Organized
by
Department of Mechanical Engineering
NIT Meghalaya
Shillong-793003**

Theme of the workshop

- Recent advances in Renewable Energy Systems, solar energy, wind energy, and hydro power.
- Control theory, modern control system design and adaptive controller design.
- Implementation of control systems for Renewable Energy Systems.
- Simulation and experimental investigation through case studies (using Matlab Simulink, LabView Software, cRIO data acquisition system, and sensor Integration).

Target Participants

- Faculty Members from AICTE approved institutions, Research Scholars, PG Scholars, participants from Government Sector, Industries (Bureaucrats/ Technicians/ Participants from Industries etc.) and staffs.

Venue

The FDP will be conducted in online mode through Google meet. Link will be provided to the successfully registered candidates.

Contact

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Program Schedule

Sl. No	Program Details	Time
Day-1 (07/03/2022)		
P1	Inaugural Program	10:00 AM -10:30 AM
L1	Prof. Praveen. Tripathy, IIT Guwahati	10:30 AM -12:00 PM
L2	Prof. P. Tripathy, IIT Guwahati	12:00 PM-01:30 PM
P2	Lunch Break	01:30 PM-02:30 PM
L3	Prof. Ranjan Das, IIT Ropar	02:30 PM-04:00PM
Day-2 (08/03/2022)		
L4	Dr. B. K. Sarkar, NIT Meghalaya	10:00 AM -11:30 AM
L5	Prof. Amitava Chatterjee, Jadavpur University	12:00 AM -01:30 PM
P3	Lunch Break	01:30 PM -02:30 PM
L6	Prof. A. Sarkar, IIT BHU	02:30 PM-04:00 PM
Day-3 (09/03/2022)		
L7	Prof. Ranjan Das, IIT Ropar	10:00 AM -11:30 AM
L8	Prof. D. Rakshit, IIT Delhi	12:00 PM -01:30 PM
P4	Lunch Break	01:30 PM-02:30 PM
L9	Prof. A. Sarkar, IIT BHU	02:30 PM-04:00 PM
Day-4 (10/03/2022)		
L10	Prof. Amitava Chatterjee, Jadavpur University	10:00 AM -11:30 AM
L11	Prof. Amitava Chatterjee, Jadavpur University	12:00 AM -01:30 PM
P5	Lunch Break	01:30 PM-02:30 PM
L12	Dr. R. S. Das, NIT Meghalaya	02:30 PM-04:00 PM
H1	Hands on cRIO Data acquisition system	04:00 PM-05:00 PM
Day-5 (11/03/2022)		
L13	Prof. Ranjan Das, IIT Ropar	10:00 AM -11:30 AM
L14	Prof/ R. P. Saini, IIT Roorkee	12:00 PM -01:30 PM
P6	Lunch Break	01:30 PM-02:30 PM
L15	Prof/ R. P. Saini, IIT Roorkee	02:30 PM-04:00 PM
P7	Exam, Valedictory and feedback	04:00 PM-04:30PM

L= Lecture

H=Hands on

P=Other activities

Committee

Pattern:
Prof. B. B. Biswal

Chairman:
Dr. R. N. Mahapatra, HoD, ME

Coordinator
Dr. B. K. Satkar, Assistant Prof., ME
Co-coordinator
Dr. R. S. Das, Assistant Prof., ME

Organizing Secretary:
Prof. H. C. Das, Prof., ME, Dean (SW)
Dr. D. K. Sarma, Associate Prof., ME

Secretary Technical:
Dr. P. R. Babu, Assistant Prof., ME
Dr. B. K. Debnath, Assistant Prof., ME
Dr. K. Debnath, Assistant Prof., ME
Mr. A. Sahoo, Trainee Teacher, ME

Secretary Hall Management:
Dr. T. Bose, Assistant Prof., ME
Dr. M. Rahang, Assistant Prof., ME
Dr. S. Maity, Assistant Prof., ME

Secretary Design:
Dr. K. Das, Assistant Prof., ME
Mr. N. Alom, Trainee Teacher, ME
Mr. S. Majumder, Trainee Teacher, ME

REGISTRATION

Interested candidates may register through following link (There is no registration charges):
https://docs.google.com/forms/d/e/1FAIpQLSfgjKE8qR_vtbQkF40ekbxRLerwNN-_qgjBYmrhB7IEMLe3Q/viewform?usp=sf_link

Resource Person

Sl. No.	Expert		Sl. No.	Expert	
1		<p>Prof. R.P. Saini MNRE Chair Professor (Renewable Energy) Former Professor-in-Charge, Greater Noida Extension Centre (GNEC) Department of Hydro and Renewable Energy (Formerly Alternate Hydro Energy Centre) Indian Institute of Technology Roorkee Roorkee - 247 667, Uttarakhand (India)</p>	2		<p>Prof. Amitava Chatterjee, FNAE JSPS Fellow (Japan), Monbukagakusho Scholar (Japan), Enseignant-Invité (Université Paris Est), FIETE, FIE(I), SMIEEEE(USA) Past Associate-Editor-in-Chief, IEEE Transactions on Instrumentation and Measurement Past Editor, IEEE Transactions on Vehicular Technology Past Associate Editor, IEEE Sensors Journal Past Editor, Control Engineering Practice (Elsevier) Past Editor, Engineering Applications of Artificial Intelligence (Elsevier) Professor, Electrical Engineering Department Jadavpur University, Kolkata 700 032, India</p>
3		<p>Prof. Praveen Tripathi Department of Electronics and Electrical Engineering Associate Professor Academic Complex IIT Guwahati</p>	4		<p>Prof. Dibakar Rakshit Associate Professor Department of Energy Science and Engineering IIT Delhi Associate Editor of Frontiers in Thermal Engineering Fellow of The Institution of Engineers (India) Honorary Associate Professor at University of Queensland, Australia University Postgraduate Awards awarded by The University of Western Australia</p>
5		<p>Prof. Ranjan Das Associate Professor Department of Mechanical Engineering IIT Ropar</p>	6		<p>Prof. Arnab Sarkar Associate Professor Department of Mechanical Engineering IIT BHU Fellow DAAD (Germany) University Gold Medalist (MME), Jadavpur University National Scholarship Awardee</p>
7		<p>Dr. Rajat Subhra Das Assistant Professor Department of Mechanical PIC, Centre for Carrier Development Engineering NIT Meghalaya</p>	8		<p>Dr. Bikash Kumar Sarkar Assistant Professor Former Head of the Department Department of Mechanical Engineering PIC, Centre for Robotics and Mechatronics NIT Meghalaya</p>