Objectives Of The FDP

- To have the insight into the latest developments in sustainable composites and sustainable manufacturing.
- To provide an opportunity for the participants to interact with the field experts.

Course Contents

In this FDP, resource persons shall deliver expert lectures on the following topics:

- Introduction to sustainable materials and sustainable manufacturing.
- Development of green composites using new and green approaches.
- Green composite constituents and manufacturing of green composite products.
- Synthesis and characterisation of sustainable green composites.
- Application of sustainable green composites.
- Process requirements and challenges: design for manufacture.
- Composites manufacturing: wet lay-up, prepreg vacuum bagging, low cost prepreg-vacuum infusion and SCRIMP, RTM, filament winding, pultrusion, etc.
- Machining and joining of sustainable green composites.

Who Should Attend?

- Faculty from reputed academic institutions and technical institutions, executives, engineers and researchers from manufacturing, service and government organizations including R&D laboratories.
- Student at all levels (BTech, MTech, PhD, etc.)

Patron

Prof. B.B. Biswal
Director, NIT Meghalaya

Coordinators

Dr. Kishore Debnath & Dr. Biplab Kumar Debnath

Organizing Committee:

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Dr. D.K. Sharma, Assoc. Professor, ME
Dr. R.N. Mahapatra, Assoc. Professor, ME
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Dr. K. Das, Assistant Professor, ME
Dr. R.S. Das, Assistant Professor, ME
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Faculty Development Program on

Sustainable Green Composites: Design, Manufacturing and Characterization

Sponsored by

AICTE Training And Learning (ATAL) Academy

August 09-13, 2021

Coordinators

Dr. K. Debnath & Dr. B.K. Debnath

Organized by

Department of Mechanical Engineering
National Institute of Technology Meghalaya
Shillong – 793 003, Meghalaya

Resource Persons

Faculties of IITs, NITs, Foreign University, and other reputed institutions will deliver the talks during the FDP.

About NIT Meghalaya

The National Institute of Technology (NIT) Meghalaya is one among the thirty NITs in India established under the NIT Act 2007 (Amended 2012) of the Parliament of India as Institutes of National Importance with full funding support from the Ministry of Human Resource Development, Government of India. The nearest railway station is Guwahati. From the railway station, one can travel by bus or shared taxi to Shillong.

The Vision:

A Centre of Excellence vibrant with academic activities and bubbling with youthful creative energy, making significant contribution to the world of knowledge and technology and to the development of the state, the region, and the nation.

The Mission:

1) To impart quality education in the fields of engineering, science and technology at undergraduate as well as postgraduate levels with special attention to encourage innovation and creativity in these fields in a clean and healthy environment.
2) To engage in creation of knowledge and development of technologies through effective research programs.

About ME Dept.

The Department of Mechanical Engineering was started from the session, July 2013. The department is offering 4-years B.Tech Programme in Mechanical Engineering with an intake capacity of 30. From the year 2014, the department has started the PhD programme in the area of Design & Manufacturing Engineering, Application of Soft Computing Techniques in Machining, Processing of Composite Materials, Computational Fluid Dynamics, Turbulence Modeling, Fluid Mechanics, etc. From the session July 2015, the department has also started the M.Tech programme in the field of "Fluids and Thermal Engineering", with an intake capacity of 20. The main objectives of the department are to cater the students with class tutorial and in hand practice with state-of-the-art laboratories & mechanical workshop.

Contact Details

Dr. Kishore Debnath
Assistant Professor
Dept. of ME, NIT Meghalaya
Mobile: +91 9402102378
E-mail: kishoredebnath@nitm.ac.in

Dr. Biplab Kumar Debnath
Assistant Professor
Dept. of ME, NIT Meghalaya
Mobile: +91 9485177053
E-mail: biplab.debnath@nitm.ac.in

Registration Details

1. The FDP has No Registration FEE.
2. Number of participants is limited to 200. The candidate will be selected on first-come first-served basis.
3. Please follow the steps for registration:

   - The link for registration in FDP is: https://atalacademy.aicte-india.org/signup.
   - Register as a participant and fill all the details as per the requirements.
   - Select State – Meghalaya
   - Select Month – August
   - Select Thrust Area – Engineering
   - Select Mode – Online

4. Select the Title: "Sustainable Green Composites: Design, Manufacturing and Characterization" (Level: Elementary, Mode: Online, & Application No: 1614602320)
5. Apply for the Workshop
6. For more information, please visit: https://www.aicte-india.org/atal.
7. A test shall be conducted at the end of the program.
8. The certificates will be provided by AICTE to those participants who will attend the program with minimum 80% attendance and score minimum 60% marks in the test.