

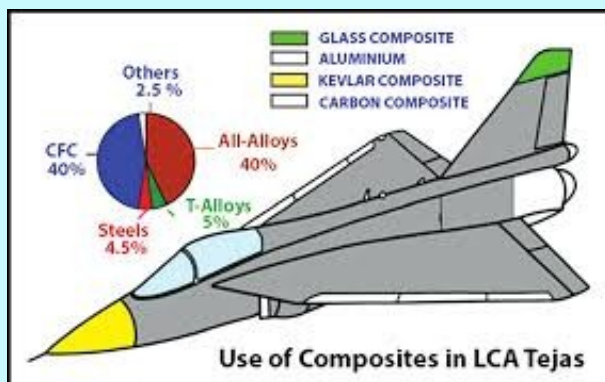
TEQIP III Sponsored Short Term Course

on

ADVANCES IN COMPOSITE MATERIALS II

(ACM II - 2019)

December 17-21, 2019



[Courtesy - www.tejas.gov.in/images/content/technology/composite_materials.jpg]

For Faculty members of Engineering Colleges,
Research scholars, PG students, Industry
personnel and Scientists



Organized by

Department of Mechanical Engineering
Motilal Nehru National Institute of Technology
Allahabad, Prayagraj- 211004, UP

Organizing Committee

- Patron:** Prof. Rajeev Tripathi
Director, MNNIT Allahabad
- Chairman:** Prof. A. D. Bhatt
Head, MED, MNNIT Allahabad
- Coordinators:** Prof. Mukul Shukla
Dr. R. K. Patel
Dr. M. K. Gupta

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- ❖ Prof. M. K. Khurana, MNNIT Allahabad
- ❖ Prof. V. K. Srivastava, MNNIT Allahabad
- ❖ Dr. Naresh Kumar, MNNIT Allahabad

Speakers

Eminent subject experts from IITs, NITs and MNNIT Allahabad and other reputed organizations will conduct the sessions.

Important dates:

Receipts of application/payment: 16.11.2019
Intimation about selection: 20.11.2019

Registration Fee

- Students (PG and Doctoral): Rs. 2500
- Faculty from academic institutions: Rs. 4000
- Industry persons / Scientists: Rs. 5000

Registration fees includes: Program kit, lunch, tea and local visits.

Registration form

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Name:
Designation:
Department:
Institute:
.....
Address:
.....
.....
Email:
Phone No:
Qualification:
Area of specialization:
.....
Prior exposure to composites:
.....

Payment Details:

Amount in Rs.....
Transaction ID (of online transfer).....
Date of Transaction.....
(Please enclose transaction slip)
Sponsored by.....
Name.....
Designation.....
Organization.....

Signature of applicant

Recommendation

(Signature of Head of the Institution/
Head of the Department with seal)

About MNNIT

MNNIT Allahabad, Prayagraj is a premier Institute committed to quality and excellence in academic pursuits. It was established as one of the seventeen RECs of India in the year 1961. The Institute today offers nine B.Tech., nineteen M.Tech., MCA, MBA and M.Sc. (Mathematics and Scientific Computing) courses and also imparts Ph.D. degree. The Institute has been recognized by the Government of India as one of the centres for Quality Improvement Programme (QIP) for M.Tech. and Ph.D. degrees. The Institute has constantly been rated by various agencies amongst the top NITs and is a popular choice amongst students for academics, owing to its well qualified faculty members, superior infrastructure and teaching and research facilities.



About Mechanical Engineering Department

The Department of Mechanical Engineering is one of the oldest, largest and the most prestigious department at MNNIT Allahabad, with 36 faculty members (all PhDs) and research output. The department offers B.Tech, M.Tech. and Ph.D. programs with a wide choice of electives and research areas. The department is currently running five M.Tech programs with specialization in Computer Aided Design and Manufacturing, Design Engineering, Production Engineering, Product Design and Development and Thermal Engineering.

The department of Mechanical Engineering was the first to start a Ph.D. program at MNREC as early as 1970. Till date 100+ PhDs have already been awarded and another 75+ are currently ongoing in the department.

About TEQIP

The Technical Education Quality Improvement Programme (TEQIP) of Government of India aims at capacity building of technical education policy planners, administrators and implementers at Central, State and Institutional level for effective implementation of institutional reforms (academic and non-academic), and introduce and sustain innovative systemic quality improvement practices. Various conferences and short term courses have already been organized and several academic developments are being undertaken under the auspices of TEQIP at MNNIT Allahabad.

About Prayagraj (Allahabad)

Prayagraj (formerly Allahabad) or Kumbh Nagari is situated on the confluence of the three pious rivers namely Ganga, Yamuna and the mythological Saraswati. The city is renowned for its academic excellence and is well connected with air, rail and road.

Course Objective

In the recent decades, over traditional materials the applications of composites have significantly increased in the automobile, aerospace, construction, marine, medical and military sectors. This is due to their distinct advantages such as high strength-weight ratio, high specific stiffness, cost effectiveness and eco friendliness.

The present course is in a series of successfully organized courses in the past. The objective of this one week course is to create awareness amongst the faculty members, research scholars, students and industry personnel about the recent developments in the area of composites.

Course Highlights: Hands on processing, testing and characterization of composites including design of experiments, 3d printing, technical paper writing and student research presentations.

Course Material

Course material will be provided to the participants in the form of slides, lecture notes, FEA software and e-books.

Topics

- Introduction, processing, characterization and advanced applications of PMC, MMC, Bio composites, green composites and nano-composites.
- Overview of composites manufacturing, FEM, design and analysis of experiments and plastic 3D printing.
- Overview and hands on experience of composite coupon preparation, testing and characterization using wet layup, UTM, SEM, XRD, AFM, DMA, Rheometer, Wear test, Impact, EDM / W-EDM, CNC machining etc.
- Research methodology and Technical paper writing.

Number of seats: 40

(Preference will be given to out station participants)

Accommodation: The participants may be provided accommodation in the institute guest house and/or hostels on twin sharing basis, depending on availability and a nominal payment basis as per actual. Accommodation can also be booked in nearby hotels directly by the attendees.

Mode of payment

Participants can deposit the registration fee online in the Account No. 718400301000214 of Vijaya Bank MNNIT Allahabad (Branch Code: 007184; MICR Code: 211029004; IFSC Code: VIJB0007184).

Spot payment is also admissible but only after prior approval from the organizers.

Contacts:

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- Dr. M. K. Gupta
- Prof. Mukul Shukla

Coordinator

Mechanical Engineering Department

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