

### How to apply

Photo copy of the registration form properly filled, duly signed and recommended by the head of the institution / Department may be sent to the convener along with the demand draft, which has to be drawn in favour of “**The Principal, Sri Sai Ram Institute of Technology**”, Payable at Chennai or can be paid in cash.

### Target Audience

Faculty members, Research Scholar undergoing work on Composites Materials including Natural Fibre Composites and their Applications in the various Engineering fields. TA, Boarding and Lodging facilities will be provided to the outstation participants as per AICTE rules.i.e. second class sleeper charges by shortest route for travel. Boarding and Lodging will be provided in the college hostels. Local participants will be provided with working lunch , Tea and snacks along with the other participants.

### Important Dates

Last Date for registration	: 10.10.2017
Intimation of Confirmation (Through e-mail)	: 15.10.2017
Registration fee	
Faculty & Research Scholar (Refundable)	:Rs.500/-
Industry Participants	:Rs.5000/-

### ORGANIZING COMMITTEE



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Mrs. Sharmila Rajaa, Trustee

#### Co-Ordinator

Dr.K.Palanikumar, Professor & Principal

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Department of Mechanical Engineering  
e-mail : aictefd@sairamit.edu.in



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## TWO WEEKS FACULTY DEVELOPMENT PROGRAMME (FDP) ON BIO DE-GRADABLE, GREEN AND NANO COMPOSITES FOR INDUSTRIAL APPLICATIONS: MANUFACTURING METHODOLOGIES AND PROPERTIES 20.10.2017 to 02.11.2017



#### Coordinator

**Dr. K. PALANIKUMAR**, Professor & Principal

#### Organized by



Sri

DEPARTMENT OF MECHANICAL ENGINEERING

**SRI SAI RAM INSTITUTE OF TECHNOLOGY**

(An ISO 9001 : 2008 Certified Institution)

Sai Leo Nagar, West Tambaram, Chennai – 44. Tel : 044 - 2251 2111

[www.sairamit.edu.in](http://www.sairamit.edu.in)

## About the institution

Sri Sairam Institute of Technology is an ISO certified institution, established by philanthropist MJF. Ln. Leo Muthu in the year 2008. The college is situated in the natural environment and offers six UG programme in Engineering and Technology and post-graduation in Management Studies. The institution has grown and now been recognized as one of the reputed institutions in Tamil Nadu in a short span of time. The institute promotes academic activities in various levels through conferences, workshops, seminars and so on.

## About the Department

The Department of Mechanical Engineering of Sri Sairam Institute of Technology was started in the year 2011, to provide technical education, which enables the student to grab the technical knowledge in the field of Mechanical Engineering. The Association of Mechanical Engineering has been regularly conducting seminars, guest lectures by eminent personalities from various fields of Mechanical Engineering. Our faculty members are actively involved in executing R&D and consultation projects for many reputed industries and big concerns.

## About the FDP

The Faculty Development Programme (FDP) is designed

- To enhance their teaching and other skills.
- To make them aware about modern teaching tools and methodologies
- To acquire knowledge about current technological developments in relevant fields
- To impart professional practices relevant to technical education
- To achieve competitive teaching and learning environment and channelize development with respect to academic qualifications and personal matters

Through each FDP, 30-50 faculty members of Science and Engineering colleges and Polytechnics are trained for a duration of 2 weeks.

This course aims to replace conventional bio engineering materials and conventional composite materials in to degradable non conventional composite materials for many Engineering and domestic applications.

It highlights the recent developments and their uses-serve as a gateway to gain knowledge in the field of materials and manufacturing field.

## Expected outcome

At the end of the FDP, the participants will be able to...

- Gain knowledge for developing bio composites and manufacturing a new generation material competitive with Carbon and Glass fiber reinforced ones, which are environmentally compatible in terms of products.
- Develop environmental friendly and sustainable bio-reinforced composites for use in automotive, construction, packaging and medical fields.
- Get familiarity with presenting the scientific framework for the advances in Green, Bio and Nano Composite Research, It focuses on the scientific principles and mechanisms in relation to the methods of processing and manufacturing with a discussion on commercial applications and health/safety concerns.
- Get the opportunity to be taught by Experts and share experience with co-participants across India. The programme gives on maximizing hands on development of practical skill.

## Course Content

- Introduction about renewable and recyclable composites Technology
- Types - wood fibers (hard wood and soft wood) or non wood fibers (e.g. rice straw, hemp, banana, pine apple, sugar cane, oil palm, jute, sisal and flax)
- Recent Developments in Bio Composite in industrial applications and their advantages, Environment Friendly Composite-automotive applications and their applications
- Recent Developments in Green Composites, Low, Medium and High bio-based content product and its difference
- Potentiality of Nano Filler & Nano Materials – Processing
- Comparison of recyclable renewable and non renewable Composite materials, Morphology studies, Mechanical properties and analysis on bio de-degradable composites
- Aero Space Applications, Machining of natural composites
- Design Expert software (Optimization Techniques) using selection of machining parameters
- Lab Session – Modeling and Analysis of recyclable and renewable composite using ANSYS & Demonstration –Film stacking Methodology
- Site Visit & Industrial visit



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## BIO DE-GRADABLE, GREEN AND NANO COMPOSITES FOR INDUSTRIAL APPLICATIONS: MANUFACTURING METHODOLOGIES AND PROPERTIES

20.10.2017 to 02.11.2017

### REGISTRATION FORM

Name :  
Qualification :  
Designation :  
Name of the institution :  
Mailing address :  
Phone(mobile) :  
e-mail address :  
Gender :  
Experience (years) :  
Teaching :  
Research :  
Registration Fee Details  
Amount (in Rs.) :  
DD No & Date :  
Bank & Branch :

Signature of the Applicant

Dr./Mr./Mrs..... is an employee of our institution and is sponsored to attend the AICTE sponsored FDP, conducted by Sri Sai Ram Institute of Technology, Chennai from 20.10.2017 to 02.11.2017.

Place : Signature of the Authority  
Date : with seal