About the Institution

St. Joseph’s College of Engineering established in the year 1994, celebrating its silver jubilee this year and ranks among the top Engineering Colleges in Tamil Nadu affiliated to Anna University, Chennai. All the departments of our College have been accredited by the National Board of Accreditation, New Delhi and certified with A+ by NAAC. Our college is among the top 100 educational institutions ranked by NIRF. Every year a large number of students from our college win accolades at the National and International events. They win awards for their projects and prizes in cultural and sports achievements besides securing many University Ranks. Many of our students get placements in top notch organizations besides securing admissions in world class Universities in India and abroad. The college has provided enormous support and perpetually encourages all our endeavors.

About the Departments

Our department had a very modest beginning with 40 students and 10 faculty members in the year 1998. Now, we have an annual intake of 180 students and 37 faculty members are rendering their services. We also conduct a post graduate program in Manufacturing Engineering. Our department has been accredited by NBA. Our department being a research centre, having 10 Doctorates and state of the art laboratories to support research, many research scholars across the state showed interest to pursue their PhDs under our mentorship. The collaborative activities like consultancy services, projects, internships and workshops with the industries help our department to progress every day. Our students are well placed in reputable industries throughout the country and abroad. Many of the students are pursuing their higher studies in prestigious institutions in India and abroad (Singapore, Germany, Sweden, USA, UK etc.).

Programme Objectives

✓ To acquire the knowledge about smart materials
✓ To know the application of smart materials.
✓ To understand the use of Smart Material in aerospace.
✓ To be aware the use of smart materials in medical field.

Course Coverage

The following topics will be covered:
✓ Smart material Introduction
✓ Types of smart materials
✓ Why Smart Materials?
✓ Advances in smart materials
✓ Bioinspired Smart materials and system
✓ Features of smart material
✓ Role of peizo electric material in aerospace
✓ Applications of smart & composite materials
✓ Smart materials for the 21st century
✓ Smart system using smart materials
✓ Smart material evolution of intelligence
✓ Applications of peizo sensors – A review
✓ Applications of shape memory technology in civil structures
✓ Smart polymers in advanced regenerative medicine application
Who can Attend
Faculty members working in Polytechnics, Engineering, Arts and Science Colleges.

Registration

Registration Fee: Rs.500
Payment can be made in the form of DD / NEFT in favour of, “St. Joseph’s College of Engineering” payable at Chennai.

NEFT Details
Bank : Indian Bank
Branch : Jeppiaar Engineering College
A/C Name : St. Joseph's College of Engineering
A/C No. : 705270386
IFSC Code : IDIB000J037

The Registration fee includes materials, certificate, lunch, and refreshments. The number of seats is limited and the participants will be selected first come first serve basis.

Accommodation
Boarding and Lodging (if required) will be provided in the college campus at free of cost. No TA/DA will be paid to attend the programme. Lunch and Snacks will be provided.

Resource Person
Sessions will be handled by experts from leading Universities / Institutions and also faculty members from the hosting institution.

Filled up Application form sent to
The Convenor, Seminar on “ROLE OF SMART MATERIALS IN AEROSPACE AND ENGINEERING APPLICATIONS”, Department of Mechanical Engineering, St. Joseph’s College of Engineering, St. Joseph’s Group of Institutions, OMR, Chennai – 119.
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