

Overview

The advancements in Science and Technology have brought in a revolutionary change in the lifestyles of people all over the world. The per capita demand of energy is constantly on the rise. Though the Science and Technology have explored alternative sources of energy and mechanistic pathways of harnessing them, the harvestable energy supplies are unable to catch pace with the gradually multiplying energy demand. Fossil fuels and other finite energy sources are fast depleting.

Hybrid inorganic-organic nanocomposite materials with their widely varying electrical and mechanical properties offer promising applications in many areas of the electronic industry and have been traditionally employed as insulators and dielectrics. The development of new materials has broadened their utilization into areas where their semi-conducting and conducting properties have encouraged use in many novel applications. Nanocomposites are used in integrated circuits, embedded capacitors, transistors, lithium ion batteries, light emitting diodes, information storage, and briefly about liquid crystal, flat panel displays and ultra large scale integrated (ULSI) devices.

The present collegiate student community holds a responsibility of sustainable utilization and management of energy while equipping itself with the knowledge and expertise of cost-effective production and storage of such sustainable energy from readily available resources.

Objectives

The primary objectives of the course are as follows:

- Exposing the participants to the concept of nanomaterials, their physical and chemical properties.
- Imparting the knowledge on the applications of nanomaterials in energy and electronic applications.
- Discussing the research opportunities in these fields.
- Training the students in the area of various synthetic methods that are currently used for making nanomaterials and devices.

Outcome:

- Participants will be able to comprehend the significance and need for fabrication of nanomaterials.
- Participants will be able to appreciate the need for recent trends in sustainable energy storage application.
- The participants will strengthen the technical knowledge in the domain which will be helpful in teaching, research and practical applications.

Who Can Attend:

- Executives, engineers and researchers interested in graph analytics from industry and government organizations, including R&D laboratories.
- Students at all levels (BSc/BTech/MSc/MTech/PhD) or Faculty from reputed academic institutions.
- Any others interested in expanding their qualifications because the Course is of general significance cutting across all sections and nations.

Note: Maximum number of participants shall be limited to 40

Important dates:

Last date for receiving the applications: 5th January 2018

Intimation to participants: 7th January 2018

Course dates: 11th January 2018 to 12th January 2018

Registration fee: Participants from industry, academic/research organizations, Research scholars/M.Sc students: ₹ 1000

A demand draft in favour of the “**The Principal, SJCE, Mysuru**” Payable at Mysuru Shall be enclosed with the registration form.

Travel and accommodation:

No TA/DA will be paid to the participants to reach Mysuru. On campus accommodation will not be provided. However, Hotel accommodation at Mysuru will be arranged/booked on payment of charges as applicable, if required.

Recent Trends in Nanomaterials for Energy and Electronic Applications

Two days *International Workshop on 11th – 12th January 2018* sponsored by

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-III (TEQIP PHASE -III)

NPIU

Organized by:

Department of Electronics and Communication Engineering
JSS Science and Technology University
(Formerly SJCE),
Mysuru-06, Karnataka



Venue:

Seminar Hall –I
CS/IS Block
JSS Science and Technology University
(Formerly SJCE), Mysuru-06, Karnataka

Teaching Faculty:

Kandalam V. Ramanujachary



Having obtained his doctoral degree (PhD) from IIT Madras, in the year, 1983, after his bright postgraduate (Gold Medalist and University Topper) academic career, Prof. Ramanujachary Kandalam V, moved to USA for his postdoctoral stint at Rutgers University during the late eighties and started his academic career in Rowan University, Glassboro, New Jersey in early nineties. He became Professor of Chemistry at Rowan University in 1998. His areas of research include Oxide Chemistry of Transition Metals, Mixed Metal Chalcogenides, Electrical and Magnetic Properties of Materials, Ionically Conducting Polymers, Electrochemical Sensors, Heterogeneous Catalysis, Sonochemical Techniques, etc. Six of his different publications on energy science were cited in a single Springer, 2013 Text Book, "Nanotechnology in Electrocatalysis for Energy". Prof. Chary has visited Jamia Millia Univesity, NITK Warangal and he is respected spontaneously as an excellent and gifted teacher with a vast knowledge and hold of the fundamental and advanced areas of chemistry.

About JSS S & T University(Formerly SJCE)

JSS Science and Technology University is one of the recent additions to the institutions administered by JSS Mahavidyapeetha at Mysuru. JSS Science and Technology University has been established envisioning to create a bright future and a desired learner centric eco-system and transform into a futuristic global University. The JSS Mahavidyapeetha, Mysuru, is one of the premier organizations in southern part of India, offering services to the society through a variety of institutions starting from kindergarten to medical, engineering, management and spiritual.. SJCE is located in sprawling campus of 117 acres. The institution also has the reputation of academic, excellence in professionally oriented programs, and equal

proficiency in extra -curricular activities, that makes it a lucrative option for students from all over the country.

JSS S&T University is committed to deliver high quality educational opportunities for youth and transform not only its neighbourhood but offer courses to equip aspiring youth to meet the global needs of industry in every sector.

<http://jssstuniv.in/>
www.sjce.ac.in

Department of Electronics and Communication Engineering was pioneered in 1970. With the grant-in-aid status department has a high ranking in Karnataka state and has been accredited and rated highly by NBA with "A" ranking and is valid for five years of duration. Besides teaching the department is active in research and collaborative research projects. A good number of projects in collaboration with reputed organization from India and abroad are going on and a few more are in the pipeline. The overall academic track record of the department has been outstanding.

About TEQIP & NPIU

The main focus of technical education quality improvement programme (TEQIP) under GoI is to promote academic excellence, network institutions, share resource, enhance quality and reach services to community, SJCE was one of the lead institutes in Phase-I of world bank assisted project and is now selected under TEQIP Phase-III which focuses on scaling up PG education and demand driven R&D and innovation to produce high quality engineers for better employability and training of faculty for effective teaching.

National Project Implementation Unit (NPIU) is a unit of MHRD, Government of India, established in August 1990 for coordination, facilitation, monitoring and to provide guidance to the States/Institutions in all aspects of the projects.

Advisory Committee

Prof. M.H. Dhanajaya

Advisor, JSSMVP, Mysuru

Dr. C Ranganathaiah

Director (Technical), JSSMVP, Mysuru

Dr. B.G. Sangameshwara

Vice Chancellor, JSS S&TU, Mysuru

Dr. K S Lokesh

Registrar, JSS S&TU, Mysuru

Dr. T N Nagabhushan

Principal, SJCE, Mysuru

Dr. Shankaraiah,

Prof. and Head, SJCE, Mysuru

Dr. Manoj Kumar B,

Prof. and TEQIP coordinator, SJCE, Mysuru

Dr. N.M. Renukappa

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Program committee

Members of faculty, Department of Electronics and Communication Engineering, S. J. college of Engineering, Mysuru

For more details please contact:

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