

Objective :

The main objective of this program is to make the participants aware of the recent developments in photonics and nanotechnology so that they can update their knowledge in this area and explore for further research.

Course Content:

The content of the program will include but not limited to

- ❖ Optical Integrated Circuits
- ❖ Optical MEMS and nanophotonics
- ❖ Terahertz Plasmonics
- ❖ Terahertz Metamaterials
- ❖ Survivability issues in optical Network
- ❖ Nano Sensors
- ❖ Quantum Cellular Automata
- ❖ Medical application of LASER
- ❖ Fibre Optics
- ❖ Quantum Communication

Resource Persons:

- ♦ Dr. T Srinivas, Professor, Department of ECE IISc, Bangalore
- ♦ Dr. Gopal Hegde, Professor, Department of Nano Science, IISc, Bangalore
- ♦ Dr. Bosanta Ranjan Baruah, Professor, Department of Physics, IIT Guwahati
- ♦ Dr. Gagan Kumar, Associate Professor, Department of Physics, IIT Guwahati
- ♦ Dr. Vipul Rastogi, Associate Professor, Department of Physics, IIT Roorkee, India
- ♦ Dr. Dinesh Kumar V., IIITDM, Jabalpur
- ♦ Dr. Dibakar Roy Chowdhury, Mahindra Ecole Centrale, India
- ♦ Dr. Vaibhav .A. Meshram, Professor and Head, Dept of ECE, School of Engineering, Dayanand Sagar University.
- ♦ Dr. P C Srikanth, Secretary IEEE Photonic Society, India Chapter
- ♦ Dr. D. N. Nagalaxmi, HoD, Blood Bank, Hassan Institute of Medical Sciences, Hassan.

Important Dates:

Last Date of Registration : **20th November, 2018.**

Eligibility for participation:

- ❖ Faculty members from Educational Institutes,
- ❖ Professionals from various Research Organisation and Industries
- ❖ Research Scholars working in this area

Registration Process:

Interested faculty members from various colleges, polytechnics, persons from industries and R & D organizations, PG and Ph.D. students are requested to fill up the attached application form and return it to the Coordinators, so as to reach on or before November, 20th, 2018.

Brochure and Registration form can be downloaded from the institute website:

<http://www.jecassam.ac.in>

- ♦ The hard copy of original registration form to be submitted before the commencement of course at the registration desk.

Accommodation and Travel:

- ♦ All the outstation participants will be provided accommodation in college Guest House or Hostels on first come first serve payment basis. The number of seats in Guest House is very limited. All accommodation cost shall be borne by the participant.

- ♦ Participants will be provided high tea and lunch during the days of course i.e., from 3rd December to 8th December.

**No TA and DA will be paid to the participants. However, participants from TEQIP Sponsored Institutes can claim their TA and DA from their respective Institutes through TEQIP.

About IEEE Photonics Society:

IEEE Photonics Society is a non-profit International professional society organization formed under IEEE. It provides platform for exchange of technical/scientific information. The field of interest includes lasers, optical devices, fibers and associated light wave technology and their applications. It supports technical activities such as conferences, workshops, technical talks, student branch formation in institutions etc.

ABOUT JORHAT ENGINEERING COLLEGE

Jorhat Engineering College, one of the oldest premier Government institutions of North East India, Assam has completed its fifty years of relentless service to the nation. The College came into existence on 7th January, 1959 at H.R.H.P.O.W. Institute of Engineering & Technology, Jorhat with the then Principal of the Institute, Sri H.N. Baruah also as the Principal in-charge of Jorhat Engineering College. The College started functioning with admission of its first batch of students in Civil Engineering, on 10th October, 1960.

Jorhat Engineering College is surrounded by its green scenic beauty with the river Bhogdoi (a tributary with the river Brahmaputra) flowing nearby. Kaziranga the wild life game sanctuary famous for its one horn rhino and the Gibbon Sanctuary is only at a short distance travel from the institute.

Patron:

Dr. (Mrs) Reeta Sarmah , Principal, JEC
Dr. K S Jayantha, Principal, MCE

Chief Convener:

Dr.P.C.Srikanth, Professor and Former HOD, ECE, MCE
Secretary IEEE Photonic Society, India Chapter, Senior IEEE Member

Convener :

Dr. (Mrs.) Neelanjana Baruah, HOD, IED, JEC
Dr. H.S. Mohana, HOD, E&IED, MCE

Teqip Co-ordinators :

Dr. Diganta Hatibaruah, Associate Professor, MED, JEC
Dr. N. S. Jyothi, Professor, EED, MCE

Co-ordinators :

Dr. G. Shivkumar, Professor, E&IED, MCE
Mr. Arobindra Saikia, Assistant Professor, IED, JEC
Mrs. Monisha Pathak, Assistant Professor, IED, JEC
Ms. Nabasmita Phukan, Assistant Professor, IED, JEC

Organizing Committee

Dr. Aditi Bezbaruah, Professor and HOD, Dept of Physics, JEC
Mrs. C L Triveni, Execom Member, IEEE Photonics Society Karnataka Chapter
Mrs. Indira Bahaddur , Execom Member, IEEE Photonics Society Karnataka Chapter
Mrs. Sonali Biswas, Assistant Professor, IED, JEC
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Mr. Pranjal Hazarika, PhD Scholar IED, JEC
Mr. Pronoy Baishya, Assistant Professor, IED, JEC
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Organised by:
Department of Instrumentation Engineering
Jorhat Engineering College, Jorhat (Assam)

www.jecassam.ac.in



Located midway, (13°N and 76.5°E, altitude 943 mtrs.) between Bangalore (180 kms) and Mangalore (170 kms) on NH-75, Hassan, a District Head Quarters, having a steady temperate climate throughout the year, enjoys an annual rainfall of about 900 mm. World famous temples of Belur, Halebid and Sravanabelagola, and the Master Control Facility for INSAT Satellites are located in Hassan District. The College is built on a 41.28 acres campus and has all the facilities expected in a modern Engineering College.

The college offers 9 B.E, 5 M.Tech and MCA programmes, with about 2750 students on rolls. The college is one of the few Engineering Colleges in the country recognized for conducting the Technical Education Quality Improvement Programme (TEQIP) sponsored by the World Bank. The Placement & Training centre in the college trains and assists the students in securing employment in reputed companies like Tata Consultancy, Infosys, Wipro, L&T, BEL, Fichtner, Builders' Association of India etc., through campus recruitment programme.

ABOUT ELECTRONICS AND INSTRUMENTATION ENGG DEPARTMENT, MCE

The department of Instrumentation Technology came in to existence in the year 1984 by then visionaries in the management and authorities of the college. It was started as an offshoot of Electronics and Communication Engineering. The department has conducted many AICTE/TEQIP sponsored workshops. Our Staff members are specialized in thrust areas of technology and updating their knowledge by attending conferences, workshops and short-term courses. The Department has been renamed as Electronics & Instrumentation Engineering from 2014 by VTU. Degree will be awarded to all successful students admitted from the year 2014 as Electronics & Instrumentation Engineering.

Programmes Offered: Bachelor Degree in Electronics & Instrumentation Engineering with intake of 50, plus 25% lateral entry students. The Department attained autonomous status in year 2007-08.

Consultancy Service Offered in the Department: ICT-Phase-II (a dream project of the Government of Karnataka) inspection program, headed by the HOD and Staff of the department are actively participating to proliferate computer literacy among rural students.

The results of the department is extremely good and has won a gold medal hatrick in the University examinations. A Many projects sponsored by KSCST are taken up every year. The department has organized many AICTE and TEQIP programmes for the faculty and students periodically.



ABOUT THE DEPARTMENT

History of the Department: The North Eastern region of India is abundant in natural resources like petroleum, natural gas, coal, limestone and other minor minerals such as magnetic quartzite, clay etc. Furthermore, Assam is also the largest producer of tea in India. In that capacity, so as to take care of the demand of Instrumentation Engineers in these industries, Instrumentation Engineering Department was established in the year 1992 with an intake capacity of 20 students in Jorhat Engineering College, with JEC turning into the main institute in N.E area of the nation to offer four years B.E programme in Instrumentation Engineering.

The courses are approved by AICTE, New Delhi. In the year 2009, AICTE has approved to increase the intake capacity of Instrumentation Engineering to 30. The courses are affiliated under Dibrugarh University, Assam and Assam Science and Technology University (ASTU), Assam. The department admits the students into the programme through a Common Entrance Examination and Lateral Entry through Lateral Entrance Examination conducted by the Government of Assam.

The department is well equipped with modern laboratory facilities and computer centre. The course structure and syllabi of the subjects are modified at a regular interval of time to incorporate the recent developments in science & technology.

ABOUT MALNAD COLLEGE OF ENGINEERING

Malnad College of Engineering established in the year 1960, during the second 5 year plan, as a joint venture of Government of India, Government of Karnataka and the Malnad Technical Education Society, Hassan. The Malnad college of engineering is now a reputed engineering college in the country. The college has earned "ISTE Award" as one of the Best Engineering Colleges in the Country, in the year 2007.