

**National Conference  
ON**

**FRONTIERS IN ELECTRONICS,  
COMMUNICATION AND  
INSTRUMENTATION TECHNOLOGY**

**FECIT  
2 0 1 1**

**3<sup>RD</sup> - 4<sup>TH</sup> NOV., 2011**



**INFORMATION  
BROCHURE**



Organised by :  
**DEPARTMENT OF ELECTRONICS  
ENGINEERING  
INDIAN SCHOOL OF MINES  
DHANBAD 826004, JHARKHAND**

## OBJECTIVE

Over the last few decades there are remarkable advances and explosive growth of new technologies that are changing the world very fast. Electronics, Instrumentation, Computer & Communication technology sectors are indeed playing important role in facing the technological challenges of the 21<sup>st</sup> century. A number of Engineering colleges, Universities and Research Institutes are promoting all aspects of academics in India. Still it is felt that there is a strong need to give a new dimension in our efforts to catch up with the rapid strides being made in technology. Therefore, it has been thought in greater interests to create a common platform that brings together the academic and the industrial community for sharing and updating their knowledge in these areas. The idea of a National Seminar on "Frontiers in Electronics Communication and Instrumentation Technology" (FECIT) was conceived in 2008 with multi-disciplinary state-of-art applications in our daily life and in mining industries that are strategically important to the overall growth of our economy. Through its a technical program, the 2<sup>nd</sup> National Conference FECIT-2011 aims to provide an outstanding interface to address new trends and challenges in emerging areas of Electronics, Communication and Instrumentation Technology and their various applications in our daily life and earth sciences based industries. This will include keynote addresses and invited talks from eminent scientists, distinguished faculties and industry experts. The selected papers on a wide range of topics will be presented and discussed in the plenary sessions to promote more collaborative works. A complimenting exhibition will also be organized to give an opportunity to manufacturers and suppliers to display their products.

## THEME

Major thrust of the seminar will be focused on the current research trends and mainstream frontiers in Electronics, Communication and Instrumentation Technology for general engineering applications. It also solicits the exposure on some of the challenging problems in the design, developments, testing and manufacturing work related to the mining, petroleum, and geophysical, mineral and metallurgical industries for presentation in the seminar. A list that highlights some of the major areas is as follows. The topics however are not limited to this list.

## TOPICS TO BE COVERED

- Electronic Devices and Circuits
- Low Dimensional Electronics
- Semiconductor Materials
- Photonic Devices
- VLSI Circuits and Systems
- Optical Communication and Networks
- Optical Signal Processing
- Wireless and Mobile Communication
- Satellite Networks and Space Communication
- RFID and its Application
- Antenna Design and Wave Propagation
- EMI/EMC
- Microwave and millimeter wave circuits and Devices
- Image and Signal Processing
- Process Control and Testing
- Biomedical Instrumentation
- Transducers and Sensors
- Intelligent Sensors
- Instrumentation & Measurements
- Microprocessors & Microcontrollers
- Mobile Computing
- Robotics/Expert Systems
- Non conventional Energy Sources
- Advanced Manufacturing Processing & Material Processing
- MEMS and NEMS
- E-Commerce and E-Governance
- Coding and Internet Technology
- Information Security
- Data Communication and Networking
- Wireless Sensor Networks
- Soft Computing Methods
- Data Mining
- Remote Sensing and GIS
- Geophysical/Mining/Petroleum Instrumentation
- Mines Safety Appliances
- Network Operation and Management
- Optimization Techniques
- Bioinformatics

## VENUE

The conference will be organized by the Department of Electronics Engineering, Indian School of Mines (ISM), Dhanbad, which is the coal capital of the state of Jharkhand. It is located in the eastern part of India, and is well connected by Rail and Road. The nearest airport are Kolkata(250 Km) and Ranchi(180 Km). Visiting places nearby are Usri Fall, Parasnath Temple, Maithon Dam, Jharia Coalfields, all are within 70 KM from the conference venue.

## ABOUT THE ORGANIZERS

Indian School of Mines (ISM) has been serving the nation since its inception in 1926. Its leadership in the earth science field is beyond doubt. However the institute started expanding its potential in other fields too and in view of that, Department of Electronics & Instrumentation was established as a supporting department in 1976. It became a faculty department in 1998 and renamed as Department of Electronics Engineering in 2010. The department runs B. Tech., M.Tech. and Ph.D. programs in Electronics and Communication Engineering. Admission to the B. Tech. Course is held through IIT-JEE which has always ensured the flow of best brain-pool of the country and to the M. Tech. course through GATE. This department has been doing very well from its inception and the fact has been reflected in a recent survey conducted by EFY (Electronics For You, June 2009), crowning it the 2nd best Department in Electronics Engineering Institutes in East Zone and 8th in the Country. One of the main advantages of this department is highly qualified and dedicated faculty members who have the research and teaching skills at par with the best institutes of the world. The department today boasts of 10 state-of-art laboratories including Fiber Optics, DSP, Nano-electronics, VLSI, Microwave & Antenna, Microprocessor and Control, Computer etc.

In addition to regular academic activities, the department undertakes R&D and Consultancy Projects. This department also organizes various short term courses, workshops and guest lectures/one-day seminars frequently to update knowledge of the students. The department has an active IEEE-Student Chapter as well as Society of Electronics Engineers (SEE) which cater the professional needs of the students. A national level technical fest 'SPARX' is organized every year under the aegis of IEEE-Student chapter where students compete with the best brains in solving challenging industrial problems.

## CALL FOR PAPERS

The intending authors are requested to submit extended abstracts (not exceeding 500 words) of their papers through e-mail: [fecit2011@gmail.com](mailto:fecit2011@gmail.com) on or before Aug. 30, 2011. The abstract should be in IEEE format (given in the website: [ismdhanbad.ac.in/noticeboard/seminar/fecit2011](http://ismdhanbad.ac.in/noticeboard/seminar/fecit2011)) containing the title of the paper, the name(s), of the authors(s), their affiliation and full address for correspondence including telephone/fax numbers /e-mail.

## IMPORTANT DATES

Last Date of Submission of extended abstracts	August 30, 2011
Intimation of acceptance of abstracts	September 20, 2011
Last Date of Submission for full paper	October 03, 2011
Registration	October 15, 2011

## REGISTRATION FEE DETAILS

Delegates from industries	₹ 8000
Authors of accepted papers and participants from academic and R&D institutions	₹ 4000
Accompanying spouse	₹ 1000
Student participants	₹ 1500

The Registration fee includes the cost of seminar materials, lunch, dinner and refreshment.

## ACCOMMODATION

A limited number of rooms with shared accommodation will be available in the Guest House and Executive Development Center of ISM at a very nominal charge. Tariffs ranging from Rs. 550.00 (non-AC rooms) to Rs. 4000.00 (A.C rooms) are available in a large number of hotels in Dhanbad. For details, please see our website.

## SPONSORSHIP

Government, Semi-Government, Educational, Industrial, R&D Institutions, Consulting firms & Equipment Manufacturers are requested to sponsor/co-sponsor this strategic seminar. These organisations will be entitled for free delegates as indicated below :

CATEGORY	CONTRIBUTION	PRIVILEGES
Platinum	₹ 3,00,000	5 delegates free
Gold	₹ 2,00,000	4 delegates free
Silver	₹ 1,00,000	3 delegates free
Bronze	₹ 50,000	2 delegates free
Sponsor	₹ 25,000	1 delegate free
Co-Sponsor	₹ 10,000	---

## ADVERTISEMENT TARIFF

A Souvenir will be brought out on this occasion containing messages, abstracts, advertisements and other conference details. The tariff for the advertisement is given below.

CATEGORY	TARIFF	CATEGORY	TARIFF
Back Cover (Col.)	₹ 50,000	Half Page (Col.)	₹ 8,000
Inside Covers (Col.)	₹ 25,000	Half Page (B/W)	₹ 6,000
Full Page (Col.)	₹ 15,000		
Full Page (B/W)	₹ 10,000	Stall and Banner	₹ 20,000

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National Conference  
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## FRONTIERS IN ELECTRONICS, COMMUNICATION AND INSTRUMENTATION TECHNOLOGY

3<sup>RD</sup>-4<sup>TH</sup> NOV., 2011

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First

Middle

Surname

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Mobile.....

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Registration Fee Self.....

Accompanying Spouse .....

Details of Demand Draft/Cheque Enclosed

No ..... Date ..... Bank ..... Rs.....

All payments are to be made by A/C payee Demand Draft drawn in favour of FECIT-ISM,  
payable at SBI, ISM Campus branch (code 1641)

Place :

Date :

Signature

Duly filled Registration Form with DD may be sent to "Prof. V. Kumar, Convener-FECIT  
2011, Dept. of Electronics Engineering, Indian School of Mines, Dhanbad-826 004

For any query/information, contact us at : fecit2011@gmail.com