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REACH OUT

A NEWSLETTER OF CDEEP, IIT BOMBAY

http://www.cdeep.iitb.ac.in

IIT Bombay

CDEEP Courses for Autumn (July-Nov) Semester

The CDEEP courses shall be available through internet only on the basis that there is enough participation. For further information contact cdeep@iitb.ac.in

Sr.No.	Course name	Course Instructor	Discipline	Tentative Timetable(Day/Time)
1.*	Process Control (CL 417)	Prof. Kannan Moudgalya	Chemical Engg.	M 11:35-12:30 | Tu18:30-9:25 | W 8:30-9:25 Th 9.30:10.25
2.*	Analog Electronics (EE 232)	Prof. M. S. Baghini	Electrical Engg.	W 9:30-10:55 | F 9:30-10:55
3.*	VLSI Technology (EE 669)	Prof. Ramgopal Rao	Electrical Engg.	Th 5:05-6:30 | F 5:05-6:30
4.*	Microelectronics (EE 735) Simulations Lab	Prof. D. K. Sharma	Electrical Engg.	Tu 2:00-3:25 | Tu 3:30-4:55
5.*	Adv. Methods in Satellite Image Processing (NR 645)	Prof. B. K. Mohan	Centre for Studies in Res. Engg.	M 3:30-4:55 | Th 3:30-4:55
6.*	Optimization Models (IE 501)	Prof. Vishnu Narayan	Industrial Engg.& Operations Res.	M 8:30-9:25 | Tu 9:30-10:25 | Th 10:35-11:30
7.	Manufacturing Processes II (ME 338)	Prof. Ramesh Singh	Mechanical Engg.	M 9:30-10:25 | Tu 11:35-12:30 | Th 8:30-9:25
8.	Introduction to Industrial Design (ID 601)	Prof. B. K. Chakroborty	Mathematics	W 9.30:10.55 | F 9.30:10.55
9.	Basics of Visual Communication (VC 401)	Prof. Raja Mohanty	IDC	W 9.30:10.55 | F 9.30:10.55

(* The courses1 to 6 are available live through EDUSAT (satellite) at different receiving institutions)

MODES OF PARTICIPATION

1) Live Classroom
This is the basic free service available for all institutes that have installed EDUSAT's Student Interactive Terminal (SIT).
It has the following features:
• The institute can receive live lectures from IIT Bombay.
• Participants can interact live with the IIT Bombay instructors during the lectures.

2) Extended Live Classroom
This package extends the Live Classroom and is available only for CDEEP's Remote Centres (RCs).
It has the following features:
• The Remote Centre can receive live lectures from IIT Bombay.
• The participants can interact live with IIT Bombay instructors during the lectures.
• All students enrolled for this course at our Remote Centres will be eligible to participate in the Learning Management System (LMS) for the course.
• The Remote Centre will get a certificate that it participated in the Extended Live Classroom.

3) Offline Classroom
In this package, students make use of recorded courses made available by CDEEP. This mode is available only for CDEEP's Remote Centres. It has the following features:
• Students at the Remote Centre are expected to see the lectures as per local schedule of three hours of lectures per week.
• It is expected that the college will have one hour of live interaction through EDUSAT per week, at a mutually decided time, to answer the doubts arising out of the three hour lectures seen in that week.
• All students enrolled for this course at our Remote Centres will be eligible to participate in the Learning Management System (LMS) for this course.
• The Remote Centre will get a certificate stating that it participated in the Offline Classroom.

4) Credit
In this mode, individual participants register for courses at a Remote Centre. Participants attend live IIT Bombay classes transmitted to the Remote Centre. Participants will be evaluated by the Remote Centre as per their norms.
At the end of the semester, successful participants will receive a grade certificate from the Remote Centre (RC).

The fee structure per course is given below.

A. Fee payable by Remote Centre (RC)

No.	Mode	Fee	Remarks
1.	Live Classroom	Nil	-
2.	Extended Live	Rs.50,000	Fee to be paid by the RC for a group of Classroom participants
3.	Offline Classroom	Rs.30,000	Fee to be paid by the RC for a group of participants.

B. Fee payable by Individual Participant.

No.	Mode	Fee	Remarks
4.	Credit		
	a. Certification by RC(Other than IIT Bombay)	Rs.4000	-
	b. Certification by IIT Bombay	Rs.15,000	-

Part of the fee received shall be returned to the Remote Centre for its services.

Please make a demand draft favouring "Registrar, IIT Bombay" and send it to us at CDEEP, Ground Floor, Mathematics Building, IIT Bombay, Powai, Mumbai - 400 076.

Technology for Education Conference

The second international conference on Technology for Education (T4E 2010) was held at IIT Bombay from July 1-3, 2010. The conference had technical co-sponsorship from IEEE, IEEE Computer Society and IEEE Technical Committee on Learning Technology. Conference sponsors included the Ministry of Human Resource Development, k-Point, Wipro Mission10X and the British Council.

The main goal of T4E 2010 was to provide a forum for researchers in academia and industry to present research results and discuss future directions in the field of technology for education. The conference provided a platform for a balanced discussion of the development of new technologies for education and the pedagogical issues concerning the use of such technologies. The conference themes included: development, implementation and assessment of new technologies, support systems for distance and blended education, customization and personalization in education, content repositories, growth of the open educational resources movement and social networks in teaching-learning. Effort was to made address effective technologies and pedagogical methods in the local Indian educational environment.

T4E 2010 received a total of 122 submissions from 14 countries, of which 55 were selected after a careful peer-review process. Apart from the conference themes, submissions to the conference included topics such as technologies for language teaching and learning, and the use of information and communication technologies for non-formal education and community development.

During the three days of the conference, several keynote and invited talks were given by speakers from India and abroad, on topics such as technology integration in education and assessment, the National Mission on Education through ICT, the use of mobile technology and cell phones in interactive learning, and virtual labs. Conference delegates participated in interactive tutorials on various themes: FOSS and Web 2.0 for collaborative teaching and learning, research methods for evaluating technology-enabled learning environments, Filamentality strategies for online learning, use of open educational resources such as Connexions, and high-impact technology aided teaching and learning. Some talks were delivered via Skype and video-conferencing. The conference included a highly successful poster session in which poster authors discussed their work with several small groups of participants. Conference participants also got an opportunity to visit demonstration stalls in which sponsors and projects under the National Mission on Education through ICT displayed new educational technologies they had developed.

The first event of this nature was held as the International Workshop on Technology for Education in Bangalore, India from August 4-6, 2009. At that workshop, it was decided that T4E would be made into an annual event. The next event of this nature, the third international conference on Technology for Education will be held at IIT Madras in July 2011.

Prof. Sahana Murthy, CDEEP
Email: sahanamurthy@iitb.ac.in

IDP in Education Technology

In March 2010, the IIT Bombay Senate approved an interdisciplinary programme (IDP) in educational technology (ET) to offer a Ph.D. programme in educational technology. The faculty members participating in this programme are Professors V. M. Gadre (Electrical Engineering), U. N. Gaitonde (Mechanical Engineering), M. Gupta (Humanities and Social Sciences), S. R. Iyer (Computer Science and Engineering), S.K. Jha (School of Management), K. Moudgalya (Chemical Engineering), S. Murthy (CDEEP) , K. Narayanan (Humanities and Social Sciences), S. B. Noronha (Chemical Engineering), D.B. Phatak (Computer Science and Engineering), R. Poovaiah, (Industrial Design Center) and B. L. Tembe (Chemistry and CDEEP)

The research focus of the IDP will be in the area of technologies to promote education. This includes both the development of the technology itself, as well as effective pedagogy that is needed to use the technology. The following areas and themes have been identified based on the research interests of faculty members interested in being part of the IDP:

1. Development of technologies relevant to education (design and delivery)
2. Interplay between technology and pedagogy
3. Content development and instructional design
4. Assessment and evaluation of technologies, e-content and pedagogical techniques

More details of the research areas will be uploaded in the website www.et.iitb.ac.in. The students having M.Tech/M. Des, M. Phil after a Masters degree in Sciences or the Arts and those with M. A. or M. Sc. are considered for admission. For candidates with M. A. or M. Sc degrees or a one year M. Phil Course, CSIR (NET) or GATE qualification is desirable. Teaching and Research assistantships are governed by IIT Bombay norms and the coursework and the research work of the first batch will begin from July 2010. The course work will consist of courses relevant to educational technology, electives from across the Institute and seminars, and this will be followed by their Ph. D. dissertation work.

Prof. B. L. Tembe
Head, CDEEP and Convener of the IDP in ET
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Useful Links

IIT Bombay homepage	: http://www..iitb.ac.in
Web address of CDEEP	: http://www..cdeep.iitb.ac.in
Web address of NPTEL	: http://www..nptel.iitm.ac.in
All Courses of IIT Bombay	: http://www..iitb.ac.in/acadpublic/Course.html