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# **National Programme on Technology Enhanced Learning**

**Workshop on  
Quality Enhancement of Engineering  
Education through NPTEL**

**July 21 – 22, 2010**



Centre for Educational Technology  
Indian Institute of Technology  
Kharagpur 721302, India



CENTRE FOR EDUCATIONAL TECHNOLOGY

Indian Institute of Technology

Kharagpur 72 1302, India

## Registration Form

### Workshop on

### “Quality Enhancement of Engineering Education through NPTEL”

**Date: July 21 – 22, 2010; Venue: CET, IIT Kharagpur**

#### Sponsoring Institution

Name: .....

Address: .....

.....

.....

Phone:..... Fax: .....

Email .....

Number of Participants:.....

#### Details of Participant(s)

1. Name:.....

Discipline:.....

Mobile:..... Email:.....

1. Name:.....

Discipline:.....

Mobile:..... Email:.....

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Signature and seal of the  
Principal/Director of the institute

**Please complete this form and send to :**

Dr. Bani Bhattacharya,  
Centre for Educational Technology,  
Indian Institute of Technology,  
Kharagpur – 721302

You can also send the scanned copy of form by e-mail to  
[banib@cet.iitkgp.ernet.in](mailto:banib@cet.iitkgp.ernet.in) OR [kathakali@cet.iitkgp.ernet.in](mailto:kathakali@cet.iitkgp.ernet.in)



## **What is NPTEL**

The National Programme on Technology Enhanced Learning (NPTEL) is a unique initiative of the seven IITs and IISc to develop curriculum based e-learning resource materials in the form of video and web courses of relevance to the undergraduate engineering education to enhance the quality of education.

As part of this initiative more than 5000 hours of video lectures have been recorded in about 115 courses and also as web-accessible content in about 120 courses combinedly by all IITs/IISc. A total of 55 such courses have already been developed in Phase-I at IIT Kharagpur and another about 90 courses are planned to be developed in Phase II of NPTEL covering all major disciplines of engineering viz. Electrical, Mechanical, Computer Science, Electronics & Communication, Civil, Basic Sciences, and Interdisciplinary subjects on Humanities & Social Science and Management. These courses are well structured and have been developed adhering mainly to the model curriculum of All India Council of Technical Education (AICTE). The issue now is how to leverage upon this content, deploy them in the colleges across the country and support educational processes so that the quality of education offered is substantially enhanced and the large number of graduates coming out of the colleges is both employable and professionally competent to take up real-world challenges.

To have the intended impact in enhancing the quality of engineering education, it is not just adequate to distribute the content through CD/DVD, but requires regular interaction between the faculty of engineering colleges and course developers at IITs/IISc through workshop, symposium etc.

A good number of courses developed through first phase of NPTEL are already made available through free video-sharing web portal YouTube (<http://youtube.com/iit>). These courses can also be used by professionals for updating their academic background as well as students and people from other organizations.

## **About the Workshop**

The objective of the workshop is to increase the awareness about the courses already developed in Phase-I of NPTEL as well as their availability so that



faculty can make best use of these courses. Also it would make a two-way learning process for the course developers and the faculty from engineering colleges on the feedback received from the participants on contents, formats and user friendliness of various courses.

In the ongoing Phase II of NPTEL, contents are being created for science and engineering courses in all major disciplines as well as specialized and newly developing interdisciplinary subjects for which there is very little academic expertise in many of the colleges and the feedback received would allow the course developers to modify the courses, if necessary and increase their effectiveness.

The two day workshop will cover the disciplines of Mechanical, Electrical, Electronics & Communication and Computer Sciences and Engineering. The nomination of a maximum two faculty members are being sought for this workshop from each institution, preferably one from mechanical stream and the other from Electrical/Electronics/Computer Science stream.

Travel allowance (limited to 3AC Class of Indian Railways) would be provided to all the participants as per rules. Accommodation in Institute Guest House is also being arranged for participants on twin sharing basis. In order to allow us to make all arrangements to the best of our ability, kindly send us the filled up registration form latest by --- July 2010 by post/e-mail.

For any query related to the workshop or for advance intimation about your participation you may contact :

**Ms. Kathakali Chatterjee : +91 98744 25064**

**CET OFFICE : 03222 282259**

## **About the Organisers**

The Centre for Educational Technology at IIT Kharagpur is involved in multifarious activities. It is one of the leaders in the field of Educational Research, Distance Education and Instructional Design and is the first IIT to implement effective off-campus Distance Education Programmes. Learning resource generation in both video based and web based mode is also one of its forte.

Innovations in the area of “Application of Technology” has also resulted in the generation of pedagogically sound tools like the “Virtual Classroom”, “Virtual Laboratory”, “Virtual Group Learning Tool” and “Online Evaluation System”.



# ***NPTEL Workshop Announcement***

Greetings!

The “**National Programme on Technology Enhanced Learning**” (NPTEL) was launched by the MHRD, Govt. of India, in an effort to enhance / standardize the quality of education imparted at all engineering colleges in the country.

The seven IITs and IISc, Bangalore were entrusted to produce web-based and video-based courses in **6 disciplines of engineering & management education (ie. Electrical, Mechanical, Computer Science, Electronics, Civil engineering and Humanities & Social Science, Management)**. A total of 120 web-based courses and 115 video-based courses have been produced in the first phase of the programmes in these disciplines. These courses could be used as **supplementary material**, as well as for **training teachers** in any institution.

The first phase programme is complete now. All the web-based courses have already been uploaded in a central server at IIT Madras ([www.nptel.iitm.ac.in](http://www.nptel.iitm.ac.in)) and preparations are also on to make them available in “mirror sites” in servers of all other IITs. All video courses would be made available to all engineering institutions through CD / DVDs, or as “Video-on-Demand”.

Successful deployment and use of this considerable body of course material, however, would depend largely on the acceptance and use of the same by the user institutions. It is to create awareness regarding the use of these courses by all institutions – that a number of workshops are being arranged in different zones of the country.

**The present workshop has been arranged at IIT Kharagpur - specifically for institutions in the eastern zone of India.** We request you to kindly attend this workshop. If you are unable to do so, please send a senior faculty as a representative of your institute. We would also request you to depute at least two faculties from any two of the disciplines covered by the programme – so that they would be aware of the courses available also might provide us with feedback regarding the course content.

Travel allowance as per rules would be provided to all participants. Accommodation is also being arranged for participants on a “first-come-first serve” basis. In order to allow us to make all arrangements to the best of our ability, kindly send us the filled up registration form in the brochure at the earliest, if possible through fax / email. It would also be of great help if you could kindly confirm the participation of faculty from your institute **through phone/ email**.

## **Contact address:**

Lenis Thomas, JPA, NPTEL  
CET, IIT Kharagpur, Kharagpur, West Bengal - 721302  
Email: [chairman@cet.iitkgp.ernet.in](mailto:chairman@cet.iitkgp.ernet.in)  
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Kathakali Chatterjee, Project Manager, NPTEL  
CET, IIT Kharagpur, Kharagpur, West Bengal – 721302  
Email: [kathakali@cet.iitkgp.ernet.in](mailto:kathakali@cet.iitkgp.ernet.in)  
Phone: 0-98744-25064

## **Accommodation & Transport:**

Accommodation will be arranged in IIT Kharagpur Guest Houses. Allotments will be made based on availability. On arrival, participants may please contact "Reception Desk" in the main guest house for details of accommodation.

## **Venue & Dates:**

**Centre for Educational Technology, Takshashila, Ramanujan Complex**

**Wednesday, July 21<sup>st</sup>. 2010 – 9:30 am**

**Thursday, 22<sup>nd</sup>. 2010 – 4:30 pm**

**Workshop Schedule on:**  
**Quality Enhancement of Engineering Education through NPTEL**

**Morning session of 21.07.10 – Wednesday**

9.30 a.m. – 9.40 a.m.	Opening Ceremony	Lighting of lamp/ Bouquet, Presentation etc.
9.40 a.m. – 9.50 a.m.	Welcome address	Prof. Anup Ray, CET
9:50 a.m. – 10:00 a.m.	Inaugural address	Prof. Ajay Chakraborty, Dean CE
10:00 a.m. – 10:15 a.m.	SRIC, NPTEL & Copyright issues	Prof. P. P. Chakraborty Dean SRIC
10:15 a.m. – 10:30 a.m.	NPTEL & Vote of Thanks	Prof. B. Bhattacharya, Head CET
10:30 a.m. – 11.00 a.m.	TEA & BREAK	
11.00 a.m. – 1.00 p.m.	Course viewing sessions and interaction	
<b>1.00 a.m. – 2:00 p.m.</b>	<b>WORKING LUNCH AT CET</b>	

**Afternoon session of 21.07.10 - Wednesday**

2:00.p.m. – 3:00 p.m.	Course Viewing Sessions and interaction
3.30 p.m. – 3.45 p.m.	TEA
3.45 p.m. – 5:00 p.m.	Course Viewing Session and interaction
<b>7:30. p.m.</b>	<b>Dinner at Technology Guest House</b>



## **Morning session of 22.07.10 - Thursday**

9.30 a.m. – 10: 30 a.m.      Course Viewing session and interaction

10.30 a.m. – 11:100 a.m.              TEA & Break

11:00 a.m. – 1:00 p.m.      Course Viewing Session and interaction

1.00 p.m. – 2.00 p.m.              **WORKING LUNCH AT CET**

## **Afternoon session of 22.07.10 - Thursday**

2.00 p.m. – 3:00 p.m.      Feed back sessions

3.00 p.m. – 3.15 p.m.              TEA

3.15 p.m. – 4:00 p.m.      Valediction and Vote of Thanks      Prof. B. Bhattacharya,  
Head - CET

**END of SESSION**