



भारत सरकार  
Government of India  
केन्द्रीय जल आयोग  
CENTRAL WATER COMMISSION  
प्रशिक्षण निदेशालय  
Training Directorate

विषय: आईओआईटीओ दिल्ली द्वारा आयोजित प्रशिक्षण कार्यक्रम।

महोदय

कृपया उपरोक्त विषयक संदर्भित पत्र की प्रति संलग्न पावें।



संलग्नकः यथोक्त

21/11/11  
(गणेश कुमार)  
निदेशक

निदेशक समन्वय (अभिकल्प एवं अनुगन्धान/जल आयोजना एवं परियोजना/नदी एवं नाल, केन्द्रीय जल आयोग, नई दिल्ली।

पत्रांक 5/65/2011-प्रशिक्षण/425-27

दिनांक 21/11/11

कृपया परिचायित करें

विनय शर्मा  
22/11/11

केन्द्रीय जल आयोग  
अभिकल्प एवं अनुगन्धान मम. निदेशालय

उपरोक्त पत्र की एक प्रति (संलग्नक सहित) सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रसारित की जाती है।

संलग्नक १ उपरोक्त।

विनय शर्मा  
(विनय कुमार जर्ना) 22.11.11  
निदेशक

मुख्य अभियन्ता, अभिकल्प (ड. एवं प.) / (प. एवं ड. प.) / (उ.प. एवं ड.) / नदी एवं नाल परियोजना / जल विज्ञान  
अध्ययन संगठन / मुख्य अभियन्ता, बांध सुरक्षा संगठन, केन्द्रीय जल आयोग।

पत्र सं. 13/5/2011 / अभि. एवं अनु. सम. / 749-54

दिनांक: 22.11.2011

DS-1 अनुसूचित निदेशिका  
डा. सं. / डा. No. 541(G-3)  
दिनांक: 25/11/11

केन्द्रीय जल आयोग

बांध सुरक्षा प्रबोधन निदेशालय

पत्र की एक प्रति सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रसारित की जाती है।

शाहिद हुसैन  
(शाहिद हुसैन)  
शाखा अधिकारी

निदेशक: यंत्रो./सा.नि./बाँ.सु.पु./ नौ.एवं वि.वि.निदेशालय, के.ज.आ.

मिसिल संख्या. 13/12/Trg./DSM/2010/43450437(डि.)

दिनांक 28 /11/2011



Government of India  
**CENTRAL WATER COMMISSION**  
Training Directorate

**Following is the criteria specified by IIT in the brochure**

Eligibility Criteria: Officers working in the organization etc.

Educational background: Degree in Engineering.

In addition to above, it is proposed to consider nomination of those officers only, who are posted at CWC(Hqrs), because they are required to attend the classes for 6 months.

Fees: Rs 2000/- per credit (for Govt. organization)

Last date of submission the nomination in IIT, Delhi is 30.11.2011.

It is requested that the comments of your wing in respect of above proposal may please be obtained and communicated to this office **at the earliest** for processing the case for approval of the Chairman, CWC.

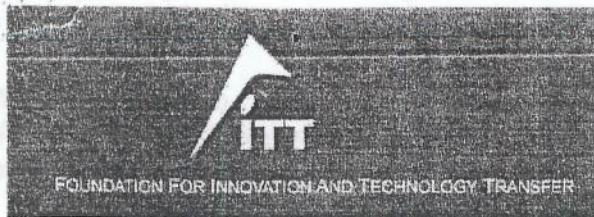
Encl: as above.

 21/11

(Rakesh Kumar)  
Director (Training)

✓ Director Coordination (D&R/WP&P/RM), CWC, New Delhi  
CWC U.O. No. 5/65/2011-Trg/425-27 dt 21.11.2011




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## About FITT

FITT is the Industrial Interface of IIT Delhi. It was established at the Indian Institute of Technology Delhi (IIT Delhi) as a Registered Society on 9th July 1992. The mission of FITT is to be an effective Interface with the Industry to foster, promote and sustain commercialization of Science and Technology in the Institute for mutual benefits. For seventeen years now, FITT has been in a mission mode for effecting the interface between the Institute and the Industry and has been devising innovative ways to create partnerships and linkages with business and community to enable knowledge transfer for common good. The team at FITT and IIT Delhi (IITD) academicians have been largely responsible for our successful outreach efforts including extensive S&T collaborations.

The role of FITT can be seen in fostering technology development, technical consultancy, collaborative R&D, professional HR development programs, industry-site visits, event participation, corporate membership etc. This is necessitated by the key agenda of the foundation to showcase and transfer the Institute "Intellectual ware" to industry and also inject industrial relevance in teaching and research at IITD.

Quite a number of short term and medium term education courses on emerging technologies have been organized and a number of important problem solving innovative and research oriented consultancy projects have been taken up.

Foundation for Innovation and Technology Transfer (FITT)

Indian Institute of Technology, Delhi (IITD),  
Hauz Khas, New Delhi - 110 016, INDIA

Phones: 91-011-26857762, 26597167, 26597164,  
26597289, 26597153, 26581013

91-011-26851169

More:

[Links](#) | [Downloads](#) | [IIT Delhi](#) | [IIT Delhi Alumni](#)

IIT Delhi

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Mr. Vikram, Supdt. - 26596422



For any further clarification contact: Uttam Aswal at [uaswal@gmail.com](mailto:uaswal@gmail.com), 26597164 Mr. U Ham

26597116 -

Send filled registration forms to:

Mr. K.K. Roy, Sr. Manager, (Tech./Admn.), FITT, IIT Delhi, Hauz Khas, New Delhi - 110016

## Courses Offered in the Semester during II semester 2011-12

Department of Computer Science and Engineering

Slot	Course ID	Description	Course Credits	L	T	P	Course Coordinator
EP	CSL201	DATA STRUCTURES	5.0	3	0	4	NAVEEN GARG
H	CSL302	PROGRAMMING LANGUAGES	5.0	3	0	4	SANJIVA PRASAD
C	CSL316	DIGITAL HARDWARE DESIGN	5.0	3	0	4	KOLIN PAUL
C	CSL332	INTRODUCTION TO DATABASE SYSTEMS	4.5	3	0	3	MAYA RAMANATH
M	CSL333	ARTIFICIAL INTELLIGENCE	4.0	3	0	2	SAROJ KAUSHIK
B	CSL361	NUMERICAL AND SCIENTIFIC COMPUTING	5.0	3	1	2	AMIT KUMAR
F	CSL373	OPERATING SYSTEMS	5.0	3	0	4	SORAV BANSAL
D	CSL374	COMPUTER NETWORKS	4.5	3	0	3	VINAY RIBEIRO
C	CSL632	INTRODUCTION TO DATA BASESYSTEMS	4.0	3	0	2	MAYA RAMANATH
F	CSL633	RESOURCE MANAGEMENT IN COMPUTER SYSTEMS	4.0	3	0	2	SORAV BANSAL
M	CSL671	ARTIFICIAL INTELLIGENCE	4.0	3	0	2	SANJIVA SAROJ KAUSHIK
J	CSL705	THEORY OF COMPUTATION	4.0	3	1	0	S. ARJUN-KUMAR
B	CSL718	ARCH.OF LARGE SYSTEMS	4.0	3	0	2	ANSHUL KUMAR
H	CSL730	Modern Parallel Programmin	4.0	3	0	2	MAYA SUBODH KUMAR
J	CSL812	HIGH LEVEL DESIGN & MODELING	3.0	3	0	0	M. SAROJ KAU BALAKRISHNAN
E	CSL840	COMPUTER VISION	4.0	3	0	2	AMIT KUMAR S. BANERJEE
D	CSL859	COMPUTER GRAPHICS-II	4.0	3	0	2	PREM KALRA



## Professional Candidate Registration (PCR) at IIT Delhi

It is to bring to your notice that IIT Delhi has initiated a unique opportunity for working professionals under the PCR scheme wherein they can enroll for a course along with regular students of IIT Delhi, in a semester to enhance their knowledge and skill-set.

IIT Delhi understands that part-time post-graduate education eg M.Tech. requires a high intensity commitment of 3 years and a Ph.D programme even more involvement. Unfortunately, not everyone has the time for making such a long term commitment. Therefore, to facilitate focused educational need, a working professional can simply choose a course from nearly 400+ courses offered each semester and register for one. For the first time, it is possible to get the feel and benefit of IIT Delhi education with just an application form showing interest in a regular course at IIT Delhi (subject to approval by the Dept/Centre) for professional growth.

The related information regarding eligibility, education background, fees, duration and certification are given below:

**Eligibility Criteria :** Professionals working in Industry, Research Organizations and Academic Institutes.

**Educational background:** Degree in Engineering or post graduate degree in a Science, Management etc. with relevant industry experience.

**Fees:** Rs. 5000/- per credit –for companies, private engineering institutes  
Rs. 2000/- per credit – for Govt. Educational Institute/Govt. Orgn.

(For example a 3-credit course shall entail a total Fee of Rs. 15,000/-)

In addition, a refundable security deposit of Rs.2,000/- per-candidate.

Fees will to be paid by DD/company cheque in favour of "FITT, IIT Delhi"

**Semester duration:** I Semester - July to November each academic year  
II Semester – January to June each academic year

The classes/labs/tutorials shall be held twice/thrice in a week for one hour duration (as per timetable).

**Certification :** Registered candidates must appear in all the tests as per the norms for regular students. They will be required to go through the same rigor in the course as any regular student of IIT Delhi. Based on the performance, he/she will be awarded certificate of successful completion of the course.

The list of courses offered along in the next II semester 2011-12 (commencing from January 3, 2012) is given herein below. The filled-in application forms for registration in the next semester should reach us on or before 30<sup>th</sup> November, 2011 for further processing at our end.



# INDUSTRIAL TRIBOLOGY MACHINE DYNAMICS & MAINTENANCE ENGINEERING (ITMMEC)

F	ITL702	DIAGNOSTIC MAINTENANCE AND MONITORING	4.0	3	0	2	NARESH TANDON
E	ITL710	DESIGN OF TRIBOLOGICAL APPLICATIONS	4.0	3	0	2	R.K. PANDEY
B	ITL714	FAILURE ANALYSIS AND REPAIR	4.0	3	0	2	O.P. GANDHI
A	ITL717	CORROSION AND ITS CONTROL	3.0	3	0	0	JAYASHREE BIJWE
J	ITL740	RISK ANALYSIS AND SAFETY	3.0	2	1	0	O.P. GANDHI

## Department of Civil Engineering

Slot	Course ID	Description	Course	L	T	P	Course
F	CEL311	ADVANCED WATER AND WASTEWATER ENGINEERING	4.0	3	0	2	GAZALA HABIB
F	CEL332	DESIGN OF STEEL STRUCTURES	5.0	3	1	2	VASANT MATSAGAR
D	CEL341	TRANSPORTATION ENGINEERING II	4.0	3	1	0	S.K. DEB
✓D	CEL351	DESIGN OF HYDRAULIC STRUCTURES	3.0	2	0	2	DEO KAUSHAL
✓E	CEL362	CONSTRUCTION MANAGEMENT	4.0	3	1	0	J. MAHESWARI
✓J	CEL423	DESIGNS OF FOUNDATION; EARTH AND EARTH RETAINING S	4.0	3	1	0	R. AYOTHIRAMAN
✓E	CEL431	ADVANCED STRUCTURAL ANALYSIS	3.0	2	0	2	T.K. DATTA
F	CEL432	DESIGN OF PRESTRESSED CONCRETE AND INDUSTRIAL STRU	4.0	3	0	2	ALOK MADAN
✓H	CEL466	CONSTRUCTION EQUIPMENT AND METHODS	3.0	2	1	0	SURESH BHALLA



✓H	CEL610	FOUNDATION ENGINEERING	3.0	3	0	0	BAPPADITYA MANNA
✓E	CEL702	SLOPE STABILIGY AND EARTH DAMS	3.0	3	0	0	BAPPADITYA MANNA
✓B	CEL704	SHALLOW AND DEEP FOUNDATIONS	3.0	3	0	0	VENKATA RAMANA
✓D	CEL706	GEOSYNTHETICS	3.0	3	0	0	JAGDISH SHAHU
✓A	CEL708	EARTH PRESSURES AND RETAINING STRUCTURES	3.0	3	0	0	R. AYOTHIRAMAN
✓C	CEL715	SOIL STRUCTURE INTERACTION ANALYSIS	3.0	3	0	0	B. BASHA
✓D	CEL718	DESIGN OF STEEL STRUCTURES	3.0	2	1	0	DIPTI SAHOO
✓E	CEL721	DESIGN OF CONCRETE STRUCTURE	3.0	2	1	0	GURMAIL BENIPAL
✓B	CEL722	SOLID MECHANICS IN STRUCTURAL ENGG.	3.0	3	0	0	ABHIJIT GANGULI
✓C	CEL724	EARTHQUAKE ANALYSIS AND DESIGN	3.0	3	0	0	ASHOK GUPTA BAPPADITYA MANNA
✓D	CEL738	ADVANCED HYDRAULICS	3.0	3	0	0	SHASHI MATHUR
✓E	CEL741	SURFACE WATER QUALITY MODELING AND CONTROL	3.0	3	0	0	SHASHI MATHUR
✓J	CEL742	FINITE ELEMENTS IN WATER RESOURCES	3.0	3	0	0	JAGDISH SHAHU N.K. GARG
✓B	CEL745	WATER MANAGEMENT	3.0	3	0	0	RYOTHIRAMAN BHAGU CHAHAR
✓C	CEL746	HYDROELECTRIC ENGG.	3.0	3	0	0	B. BASHA RAKESH KHOSA
✓F	CEL747	GEOGRAPHIC INFORMATION SYSTEMS	3.0	2	0	2	A.K. GOSAIN
✓A	CEL749	WATER RESOURCES SYSTEMS	3.0	3	0	0	RAKESH KHOSA BENIPAL
✓B	CEL752	SLOPES AND FOUNDATIONS	3.0	3	0	0	ABHIJIT B. BASHA
✓A	CEL756	EXCAVATION METHODS AND MACHINERY	3.0	3	0	0	ASHOK GUPTA K.S. RAO
✓D	CEL758	ANALYSIS AND DESIGN OF UNDER GROUND STRUCTURES	3.0	3	0	0	SHASHI MATHUR K.G. SHARMA
✓C	CEL763	ENVIRONMENTAL ROCK ENGG.	3.0	3	0	0	TANUSREE CHAKRABORTY

CEL749 WATER RESOURCES SYSTEMS 3.0 3 0 0 BHAGU CHAHAR

CEL746 HYDROELECTRIC ENGG. 3.0 3 0 0 RAKESH KHOSA



A	CEL892	AIR QUALITY MODELLING	3.0	3	0	0	MUKESH KHARE
C	CEL898	LIFE CYCLE ANALYSIS & DESIGN FOR ENVIRONMENT	3.0	3	0	0	ARVIND NEMA
F	CEP452	COMPUTATIONAL ASPECTS IN WATER RESOURCES	3.0	1	0	4	N.K. GARG

Department of Biochemical Engg. & Biotechnology (DBEB)

Slot	Course ID	Description	Course	L	T	P	Course
H	BEL302	FLUID SOLID SYSTEMS	3.0	3	0	0	G.P. AGARWAL
D	BEL311	PHYSICAL AND CHEMICAL PROPERTIES OF BIOMOLECULES	3.0	2	1	0	RAVI ELANGO VAN
E	BEL401	BIOPROCESS TECHNOLOGY	2.0	2	0	0	V.S. BISARIA
C	BEL411	FOOD SCIENCE AND ENGINEERING	3.0	3	0	0	SUBHASH CHAND
H	BEL418	BIOINFORMATICS	3.0	2	0	2	D. SUNDAR
C	BEL419	ENZYME CATALYZED ORGANIC SYNTHESIS	3.0	2	0	2	PRAVEEN KAUL
D	BEL421	METABOLIC REGULATION AND ENGINEERING	3.0	3	0	0	JAMES GOMES
B	BEL702	BIOPROCESS PLANT DESIGN	5.0	3	0	4	T.R. SREEKRISHNAN
F	BEL703	DOWNSTREAM PROCESSING IN BIOTECHNOLOGY	5.0	3	0	4	SUNIL NATH
D	BEL711	RECOMBINANT DNA TECHNOLOGY	4.0	2	0	4	SAROJ MISHRA ELANGO VAN
D	BEL712	PLANT CELL TECHNOLOGY	3.0	2	0	2	SHILPI SHARMA
E	BEL713	MICROBIAL ENGINEERING	3.0	3	0	0	ATUL NARANG
H	BEL718	COMBINATORIAL BIOTECHNOLOGY	3.0	3	0	0	SUBHASH PREETI SRIVASTAVA
E	BEL721	BIONANOTECHNOLOGY	3.0	3	0	0	D. SUNDAR PRASHANT MISHRA
M	BML330	TOPICS ON SAFETY PRINCIPLES FOR ENGINEERS	4.0	3	0	2	DINESH MOHAN JAMES GOMES
H	BML700	INTRODUCTION TO BASIC	3.0	3	0	0	T.R. NIVEDITA SHANAN
			5.0	0	0	4	SUNIL NATH



A	CEL766	SYSTEMS DESIGN AND VALUE ANALYSIS	3.0	3	0	0	ANIL SAWHNEY
<input checked="" type="checkbox"/>	CEL767	CONSTRUCTION AND CONTRACT MANAGEMENT	3.0	3	0	0	K. IYER
<input checked="" type="checkbox"/>	CEL768	RECENT ADVANCES IN CONSTRUCTION MATERIALS	3.0	3	0	0	B. BHATTACHARJEE
B	CEL776	FUNCTIONAL PLANN. BLDG. SERV. & MAINT. MANAGEMENT	3.0	3	0	0	B. BHATTACHARJEE
<input checked="" type="checkbox"/>	CEL778	CONSTRUCTION METHODS AND EQUIPMENT	3.0	3	0	0	A.K. JAIN
<input checked="" type="checkbox"/>	CEL779	CONSTRUCTION ECONOMICS AND FINANCE	3.0	3	0	0	KUMAR JHA
B	CEL784	DESIGN & MAINTENANCE OF PAVEMENTS	4.0	3	0	2	RAMACHANDRA KALAGA
C	CEL785	ADVANCED TRANSPORTATION MODELLING	3.0	2	0	2	S.K. DEB
A	CEL786	GEOMETRIC DESIGN OF STREETS & HIGHWAYS	3.0	2	0	2	GEETAM TEWARI
D	CEL794	SOLID AND HAZARDOUS WASTE MANAGEMENT	3.0	3	0	0	BABU J. ALAPPAT
H	CEL796	ADVANCED WASTE WATER TREATMENT	3.0	3	0	0	ATUL MITTAL
<input checked="" type="checkbox"/>	CEL826	ADVANCE FEM AND PROGRAMING	3.0	2	0	2	A.K. NAGPAL
A	CEL828	WIND RESISTANT DESIGN OF STRUCTURES	3.0	3	0	0	T.K. DATTA
F	CEL832	DESIGN OF TALL BUILDINGS	3.0	2	1	0	A.K. NAGPAL
J	CEL836	Structural Health Monitoring	3.0	2	0	2	SURESH BHALLA
D	CEL843	TRAFFIC ENGINEERING & SIMULATION	3.0	2	0	2	RAMACHANDRA KALAGA
M	CEL844	TRANSPORTATION ECONOMICS & FINANCE	3.0	3	0	0	GEETAM TEWARI
<input checked="" type="checkbox"/>	CEL889	EMERGING TECHNOLOGIES FOR ENVIRONMENTAL MGMT.	3.0	3	0	0	BABU J. ALAPPAT



Professional Candidate Registration at IIT Delhi

Timing Slots:

Slot A: 8 AM – 9:20 AM. [ Monday, Thursday ]

Slot B: 9.30.00 A.M.- 10:55 A.M [ Monday & Thursday ]

Slot C: 8A.M-8.55 A.M. [ Tuesday , Wednesday , Friday ]

Slot D: 9A.M-9.55 A.M [ Tuesday , Wednesday , Friday ]

Slot E: 10.A.M. – 10.55 A.M. [ Tuesday, Wednesday, Friday ]

Slot F: 11.00 A.M- 11.55 A.M [ Tuesday, Thursday, Friday ]

Slot H: 11.00 A.M –11.55 A.M. [ Monday , Wednesday ]

Slot H: 12.. A.M- 12.55 P.M. [ Thursday ]

Slot J: 12.00 AM. – 12. 55 P.M. [ Monday, Tuesday , Wednesday ]

Slot K: 17- 17.55 P.M. [ Tuesday, Wednesday, Friday ]

Slot L: 18-18.55 P.M. [ Tuesday, Wednesday, Friday ]

Slot M: 17-17.55 P.M. [ Monday, Thursday ]

Tutorial/Lab timing [ 13-13:55 P.M. 14-14.55 P.M 15-15:55 P.M., 16-16.55 P.M. ]





भारतीय प्रौद्योगिकी संस्थान दिल्ली  
Indian Institute of Technology Delhi



Foundation for Innovation and  
Technology Transfer

## APPLICATION FOR PROFESSIONAL CANDIDATE REGISTRATION

(For Professionals Employed in Industries and registering for courses at IIT Delhi)

1.	Name	
2.	E-mail	
3.	Mobile No.	
4.	Designation	
5.	Organization (With address)	
6.	Total years of experience	
7.	Course applying for (Number, Title and Credits)	
8.	Slot (related to timing) of the Course	
9.	Semester and Academic year	

### Educational qualification

	Degree	Discipline	Year of Graduation	University	Class/Div
U.G.					
P.G.					

Approvals	Name & Designation	Signature
Competent Authority in the Candidate's Organization		
Course Instructor's Approval		
HOD /DRC Chairman's Signature		
Ph.D		

Fee details: Rs.5, 000/- per credit payable by Demand Draft in favour of FITT, IIT DELHI

Year of Graduation University Class/Div





भारतीय प्रौद्योगिकी संस्थान दिल्ली  
Indian Institute of Technology Delhi



Foundation for Innovation and  
Technology Transfer

## APPLICATION FOR PROFESSIONAL CANDIDATE REGISTRATION

(For Professionals Employed in Scientific Organizations, Educational Institutions, Scientific Labs etc.  
registering for courses at IIT Delhi)

1.	Name	
2.	E-mail	
3.	Mobile No.	
4.	Designation	
5.	Organization (With address)	
6.	Total years of experience	
7.	Course applying for (Number, Title and Credits)	
8.	Slot (related to timing) of the Course	
9.	Semester and Academic year	

### Educational qualification

	Degree	Discipline	Year of Graduation	University	Class/ Div
U.G.					
P.G.					
Ph.D					

Approvals	Name & Designation	Signature
Competent Authority in the Candidate's Organization		
Course Instructor's Approval		
HOD /DRC Chairman's Signature		

Fee details: Rs. 2, 000/- per credit payable by Demand Draft/ Cheque in favour of FITT, IIT DELHI