

Thapar University

(Established under Section 3 of the UGC Act,1956)

Dear Sir/Madam

Subject: Faculty Enablement program under TU-Infosys Campus Connect Collaboration

Every Industry is looking forward to fresh recruits who are already trained, tailored and nurtured as per the company's expectations. To make this novel task possible, Infosys Technologies Ltd has launched an industry academia called Campus Connect. One of the offerings of this program is Foundation program (FP) to align the needs of the software industry with Universities and engineering institutions.

I will like to extend my greetings and invite you to take part in Faculty Enablement Program, a unique program under this collaboration jointly conducted by Infosys Technologies Limited and Thapar University which is first of its kind to be held in an academic institution.

The Program is a two weeks program having nine generic courses including Computer Hardware and System Software Concepts, Programming Fundamentals, Relational Database Management Systems, Analysis of Algorithms, User Interface Design, Object oriented concepts, Web Architecture, Software Design Methodology, Client Server Concepts. The Highlights of the program are as follows:

- Sharing of world class training material used in training people from different backgrounds and disciplines to deliver state of the art projects to global customers
- Presentations by Infosys Experts
- Brainstorming sessions, Case studies and hands on experience
- Discussions on FP-Roll Out and Campus Connect Web site, Special emphasis on how to teach and best practices for bringing a paradigm shift in your institution curriculum.

Timings and duration: The program will be held from 30th June, 2008 to 11th July, 2008 at Thapar University Campus. Timings will be from 8.30 A.M. to 5.30 P.M.

Accommodation to all the participants will be provided free of cost. It will be our pleasure to arrange for your breakfast/lunch/dinner at our cost. We will also reimburse travel cost limited to II-tier AC/AC bus/shared taxi on production of actual tickets. There are no registration charges.

Eligibility criteria for participation: The nominee must be a permanent employee of your institution and should have at least three years of experience after studies. He should be well versed in at least two of the nine subjects given above and should complete the pre work given in the attached document.

In Please do fill the attached form and the pre-work and send it to us latest by 10 May, 2008. For knowing more about campus connect, visit www.campusconnect.infosys.com.

I look forward to the active participation of your institute in this program.

Best Regards,

Dr. Deepak Garg

FEP Coordinator,

Computer Science and Engineering Department

Thapar University, Patiala-147004. Email: deepakgarg@ieee.org , Mobile: 9815599654

Thapar University

Guidelines to complete the FEP Prework

Brief Description of the FEP Prework

Generation of questions in the 9 courses given below. Please select 2 courses from Group A and 2 courses from Group B and please ensure that there is no overlap of courses selected by the other nominee from your institution.

Group A

1. Computer Hardware and System Software Concepts
2. Programming Fundamentals
3. Relational Database Management Systems
4. Analysis of Algorithms

Group B

1. System Development Methodology
2. Introduction to Object Oriented Concepts
3. Introduction to User-Interface design
4. Introduction to Internet Web Technologies
5. Client Server Concepts

Types of Questions to be generated

There are 2 types of questions to be generated.

1. **Type1** - Questions to test whether the student is able to apply the concepts learnt in the course

Right Example: Given that the partition size is 10K and there are 2 files F1 and F1 of sizes 32K and 27K, which one of the files will cause more internal fragmentation? (Assume Fixed Partition Allocation is used)

Wrong Example: Explain Fixed Partition Allocation

2. **Type2** - Questions used to prompt and challenge the students while introducing a new topic. This can be in the form of analogies, real life examples also.

Example: You give the print command for printing a big word document. The printing is in progress. Now, you close the file. What happens? (Allows the students to think about different scenarios. Helps introducing SPOOLing concept).

Number of Questions to be generated

No.	Name of the Course	Total Number of Questions
1	Computer Hardware and System Software Concepts	6
2	Programming Fundamentals	6
3	Relational Database Management Systems	6
4	Analysis of Algorithms	6
5	System Development Methodology	6
6	Introduction to Object Oriented Concepts	6
7	Introduction to User-Interface design	6
8	Introduction to Internet Web Technologies	6
9	Client Server Concepts	6
10	TOTAL	54

Some Guidelines

1. For Type 1 questions, please make sure that they are objective type questions with at least 4 choices. The wrong choices should be very close to the right choice so that it is not easy to guess the answer without working on it.
2. For Type 1 questions, please make sure that the questions are designed in such a way that they test whether a student has understood how to apply the concepts, as against just knowing the concepts by heart.
3. For Type 2 questions, please think about what questions do you normally ask in class before starting a new topic.
4. For all the questions, please do a self-review and also peer review by other faculty members of your college before sending them.

Courseware Location

The courseware for these courses (along with example assignments/ projects as applicable) is available on the campus connect portal (<http://campusconnect.infosys.com>) under 'Learning Center' section.

Faculty Enablement Program – Response Form

Name and Address of the College/University/Institution (in Capital Letters):

Pin _____ **Phone:** _____

Email : _____ **Web Site :** _____

Person 1

Name: _____

Designation, Dept: _____

Teaching Experience in the College: _____

Are you part of the Campus Connect core-team at Campus (Y/N): ___

Email: _____

Phone: _____

Person 2

Name: _____

Designation, Dept: _____

Are you part of the Campus Connect core-team at Campus (Y/N): ___

Teaching Experience in the College: _____

Email: _____

Phone: _____

Arrival details : Date : _____ time : _____

Mode of travel :

Boarding requirements : I need accommodation from _____,2008 to _____,2008.

(Kindly mention any specific problems/requirements for boarding/lodging)

I, Nominate the above person(s) to attend Faculty Enablement Program at Thapar University. I certify that these persons have knowledge of one programming language which is a pre-requisite to attend programme.

Name:

Date:

Seal :

(To be signed by the Vice Chancellor/Director/Principal or equivalent authority of the organization

Tentative Schedule will be as follows:

Date	8.30-11.00	11.00-1.00	2.00-4.00	4.00-6.00	Comments
30.06.2008	Registration Inauguration	Context Setting Agenda Walk Through	CHSSC-Computer Architecture and System Software Concepts	Brainstorming session & discussion	Will include brainstorming and case study
01.07.2008	CHSSC-Operating System Memory Management Process Management Operating System File Management Device management Computer Networks	Webinar From Infosys	Brainstorming session & discussion	Presentations By each individual Last 30 minutes for action planning	Some time to be given for campus connect web site
02.07.2008	PF-Programming Fundamentals Data structure Control structures Modular Programming	Webinar from Infosys	Presentations by each individual	Brainstorming session & discussion Last 30 minutes for action planning	
03.07.2008	PF-Testing Searching , Sorting	Lab session on PF	Group Work	Brainstorming session & discussion Last 30 minutes for action planning	Presentations by each individual
04.07.2008	Visit to Infosys for production sessions				
05.07.2008	DBMS-Database Design & Normalization	Webinar	OLTP	Brainstorming session & discussion	Presentations by each individual
SUNDAY					
07.07.2008	DBMS-SQL Programming	DBMS-SQL Programming In LAB	Optimization, Security	Brainstorming session & discussion Last 30 minutes for action planning	
08.07.2008	SDM-Software Development Life Cycle	Webinar	Project management User Interface Design	Brainstorming session & discussion Last 30 minutes for action planning	Experience sharing by Infosys experts
09.07.2008	Visit to Infosys				
10.07.2008	AOA-Algorithm Analysis Algorithm Techniques, Code Tuning, CSC-Client Server Concepts	OOC-Object oriented Concepts IWT-Internet & Web Technologies	Presentations by each individual	Brainstorming session & discussion Last 30 minutes for action planning	Feed Back
11.07.2008	FP Deployment strategies	Individual presentations	Brainstorming session & discussion Last 30 minutes for action planning	Valedictory & Certificate distribution	