

Train The Teacher (TTT) Programme Workshop - 1

(GTU and IEEE Computer society jointly organizes)

Applications are invited from eligible faculty members for a workshop “**Train The Teacher**” organized by Gujarat Technological University in collaboration with IEEE Computer Society to Train the faculty of Computer Science and Engineering courses at Bangalore from 22-Jul-2013 to 26-Jul-2013.

Participants could be Computer Science faculty member, faculty member of all graduate and post graduate courses in IT field, faculty of engineering courses of affiliated colleges of GTU. Gujarat Technological University would sponsor maximum 10 participants purely on a basis of first come first serve basis. Following are the criteria for the workshop:

1. Registration fees amounts to Rs 1000/- per person (To be borne by the participant).
2. Accommodation fees would be @ Rs 300/- (twin accommodation) per night (To be borne by the participant).
3. Applications must be submitted through principals/director of concerned institutions.

Gujarat Technological University would reimburse to and fro transportation -2nd AC train fare for Ahmedabad -Bangalore –Ahmedabad to participant by producing original tickets.

All the participants have to furnish their vision about the expected outcome & usefulness of the training in one page to GTU & its affiliated institutes with application.

All participants are required to submit the application before **10-07-2013** and a detail report of whole 5 days training programme before 9th August, 2013 through mail on elibrary@gtu.edu.in. For any query please contact: 9909944891, 079-23267574

TTT (Train the Teacher) Workshop

Preamble:

Both Academia and Industry veterans unanimously agree that the gap between engineering course completion to employability is huge. One of the key reasons for the gap is the inadequate faculty, both in quality and numbers.

IEEE Computer Society has spun off various programs like, Train the Teacher workshop, SWEBOK Certification Program among others, to reduce this gap between course completion and employability.

IEEE CS has signed up with VTU (Visvesvaraya Technological University) and GTU (Gujarat Technological University) to promote SWEBOK Certification Program to the students through their affiliated colleges.

IEEE CS is conducting a Train the Teacher workshop for the faculty in Bengaluru in July, 2013.

Program Plan:

1. Conduct the TTT workshop from the industry veterans for the faculty so that the expectation of the industry is better understood by the faculty
2. The workshop will have real world case studies and hands-on examples to demonstrate the concepts
3. Total number of participants is limited to a maximum of 50, and 5 teachers per college
4. Each college can conceive a project subsequently, to be executed by multiple batches of their students, which can span over a couple of years
5. IEEE CS will try to align one of its volunteers from the industry to the engineering college for guiding them on such projects
6. IEEE CS plans to conduct series of such workshops on various topics
7. The workshop sessions are video recorded and made available for the attending colleges
8. The workshop will be a full 5 days program from 8-July-2013 to 12-July-2013
9. IEEE CS Bengaluru chapter charges a very nominal fee of Rs. 2,000.00 for the workshop, per faculty, for covering the expenses

Expectations from the Engineering Colleges / Universities:

1. Nominate talented faculty who have the passion for technology and teaching
2. Get (at least verbal) commitment from their faculty that they will not quit in next 2 years as both the colleges and IEEE CS are investing in them
3. Become IEEE CS REP for promoting SWEBOK Certification Programs to their students
4. The colleges / universities have to send their faculty to Bengaluru at their cost
5. Enable the faculty and students to conduct projects in the colleges

TTT Workshop-1 Details:

Workshop Inauguration:

Date: 21-Jul-2013, Sunday

Time: 05:00 PM

Venue: PES Institute of Technology, Bengaluru

Workshop Dates:

Dates: 22-Jul-2013 to 26-Jul-2013

Time: 08:00 AM to 05:30 PM

Venue: PES Institute of Technology, Bengaluru

Note:

1. Breakfast, lunch and coffee/tea are provided during the workshop
2. The workshop is conducted by industry volunteers (IEEE Computer Society members)
3. The transportation and accommodation has to be arranged/paid by the colleges / teachers
4. IEEE CS has a negotiated a good price with a guest house close to the workshop venue (Rs. 300 for a twin accommodation)
5. The local commuting between guest house and PESIT has to be borne by the colleges / teachers

Course Contents:

A detailed course content document is attached.

Contact Persons:

SI #	Contact Person	Organization	Email ID	Phone Number
1	Yatheendranath TJ	IEEE Computer Society	Y.tarikere@ieee.org	+91 98440 74381
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IEEE Computer Society



Train the Teacher Workshop - 1

Dates 22-Jul-2013 to 26-Jul-2013

Venue PESIT Campus, Bangalore

Participants Computer Science faculty members teaching graduate, post graduate and engineering courses
Max 50 participants

Trainers IEEE CS Volunteers from Industry, Professionals and senior faculty members

Day	Topic	Sub-Topics	Speakers
Day 1	Kickoff	Event kickoff Intro to event, logistics, key contacts Intro to IEEE	Mr. Harish Mysore, Mr. Yatheendranath Tarikere Dr. Raghu K and Dr. Das, Dr. Ram P Rustogi, Dr.
	Computer Architecture	This track introduces the participants on computer architecture evolution from the earlier days to current high performance systems. It provides additional details on software architecture, tools and programming concepts. . Architecture Evolution – 8086 microprocessor to Intel Xeon . Programming to these architectures – Languages and Compilers . Multi-core – Programming with Threading and MPI	Senior Engineer/s from Intel
Day 2	Global innovation and industry trends	. New age skillsets required for computer science students. Planning for a career in cyber security . New man-machine interface technologies (touch, gestures, vision, etc) . Social Networking concepts . Cyber Security in Industrial Control Systems	Mr. Subramanya Gupta Boda, GMR Dr. Anbumani Subramanian, Intel Dr. Umesh, XIMB Mr. Bindumadhava

Day 3	The joy of teaching computer networks	<p>This track on networking enriches faculties in terms of experiencing how networks function and to practical exposure of the same. This will enable them in turning theoretical concepts into actual working and gain insights into understanding, diagnosing and debugging network issues.</p> <ul style="list-style-type: none"> . Understanding networks using network emulator e.g. PacketTracer or GNS (Graphical Network Simulator) . Working with network analysis, debugging and diagnosis tools such as Wireshark/tcpdump, nc/telnet etc. . Working with ICMP (the misunderstood protocol) . Using ARP to the advantage (Proxy ARP, Gratuitous ARP) . Experiencing most common networking applications (DHCP, DNS, Web Server) . Network Programming (non-blocking I/O, single threaded concurrent communication) . Implementing IPv6 . Dynamic Routing 	<p>Dr Ram P Rustagi Prof K Chidambara Mrs Veena S Ms Malashree S</p>
Day 4	The joy of teaching	Continuation from previous day	
Day 5	Advanced Software Engineering Concepts	. Topics from SWEBOOK /SCP	Sr. Architects from Seimens
	Conclusion	Feedback from participants	
		Closing the event	

Workshop Daily Schedules

Time	Time To	Event
08:15	09:00	Breakfast
09:00	10:45	Session 1
10:45	11:00	Tea Break
11:00	13:00	Session 2
13:00	14:00	Lunch
14:00	15:30	Session 3
15:30	15:45	Tea Break
15:45	17:30	Session 4

