

2nd Summer Training Program on “Mobile architecture & Programming by using Maemo, Meego, Python, Qt and QML”

(From 13-06-2011 to 08-07-2011 in house training & 8-7-2011 to 22-07-2011 Minor Project)

(Organizing by IGIT, IPU in collaboration with Nokia university relations at IGIT)

This program is being offered by the IGIT, IP University in association with Nokia on Symbian, Maemo, Meego, Python, Qt, QML mobile technologies. This also includes minor projects based on these technologies, implemented on the real mobile devices. Attending this course will help you to understand and program the concepts of the various on device (Mobile) peripherals like Keyboard, Display, Sensors, Camera, Bluetooth, Networking, SMS services etc and the practicals are based on the real mobile devices. This enables the participants to develop mobile based applications and bridge the gap between academics and industry.

1. **Devices:** Nokia Mobile devices are used for practical purposes.
2. **Training Material:** Training material and the software's required for developing the mobile applications will be provided [Python, Symbian, Qt, QML, Maemo etc].
3. **Resource Pensions:** Internal and external from Nokia and experts from industry.
4. **Course Content:** Topic wise is attached in the schedule.
5. **Fee and Mode of Payment:** Participants are required to submit a demand draft of Rs. 5000/- in favour of “**Principal, IGIT**”. The Demand Draft will not be refunded in case a selected participant does not attend the program. No refreshments, TA and DA will be paid for the participants.
6. **Certificate:** All successfully completed participants will get the certificate **jointly from IGIT and Nokia.**
7. **Last date of registration:** On or before 11-05-2010. Only 60 seats are available and the conformation of the registration is based on the merit and First Come First Serve manor. All selected participants will be informed on 21-05-2010 through mail and for others who have not selected their DD will be returned within 10 days after finalizing the list.

8. **Who can attend the program:** Student studying or completed B.Tech/ M.Tech (CSE, ECE, IT)/ MCA (preferably B.Tech students who have completed three semesters). Faculty members who are teaching (or willing to teach) Embedded Systems/ Mobile Computing/ Mobile Communication etc can attend.

9. **Contact Person:** For any enquires you can contact the **course coordinator** in the following address:

Dr. **S. Ramanarayana Reddy**, Asstt. Prof., CSE Department,
Room No- 205, Electrical Block, IGIT, **Kashmere Gate**,
Delhi – 110 006 Tele: 9810101742, 011-23869784,
Email: rammallik@yahoo.com

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Registration Form

1. Name of the applicant:
2. Branch/ Semester/ College:
3. Average Percentage of Marks (All Semesters):.....
4. Mailing address:.....
.....
.....
.....
6. Mobile No.....
8. Email.....
9. Details of DD: Amount: 5000/-
DD No. _____ Drawn on : _____
10. Why do you want to attend this course?

Signature of the Applicant with Date

Tentative Schedule of 2nd Summer Training Program
on
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Date	Topics				
	9-11AM	11-15 to 1-15 PM	2PM to 3-30 PM	3-45 to 4-45PM	4-45 to 5-45
Day 1	Inauguration and Introduction	Introduction to Mobile Architecture	Demo of the Mobile Components	Lab	Practice
Day2	On Chip Components of the Mobile and their access	Lab	Software Components of the Mobile and its role	Lab	Practice
Day3	Installation of OS, formatting of Mobile, Language files, Flashing etc Demo with Symbian Nokia Phone	Lab	Mobile Architecture Vs Computer Architecture (Booting, File System, OS, Memory, Processor etc)	Case Study (Nokia Mobile, PC, Laptop)	Presentation of the cause study
Day 4	Device Selection Symbian Architecture	Symbian Architecture	Tool Chain for Mobile Development	Demo	Practice
Day 5	S60 SDK Installation and Demo	Lab	QtInstallation and Demo (Both on PC and the devices)	Lab	Practice
Day 6	Qt and QML Introduction	Lab with the devices	Qt Functions and Loops	Lab with the devices	
Day7	OO Programming with Qt and QML	Lab	Qt for creating the packages, and projects	Lab	practice
Day 8	Qt for GUI	Lab	IO operations	Lab	Practice
Day 9	graphics and font	Lab	networking	Lab	Practice
Day 10	Qt for Camera and Sensors	Lab	API's	Lab	Practice

Day 11	Symbian Internal	Lab	Symbian Memory Management, Power management	Lab	Practice
Day 11	Mini Project Introduction	Mini Project Specifications	Mini project life cycle	A sample Demo	Mini Project Allocation
Day 12	Mini project implementation and document generation				
Day 13	Introduction to Maemo	Maemo Installation Demo	Lab	Application Development with Maemo	Lab
Day 14	Maemo Internal,	Lab	Maemo for networking	Lab	Practice
Day 15	Maemo Memory Management	Lab	Maemo Scheduling, IPC	Lab	Practice
Day 16	Maemo for Graphics	Lab	Maemo with Python, GCC and other tools for applications dev	Lab	practice
Day 17- 20	Meego architecture, Installation, Demo and Programming				
Day 21- 29	Minor Project Implementation				
Day 30	Submission and viva of Mini project	Further project Assignment (To continue with practice and for their minor project)	Feed Back and Discussion	Valedictory (Award and Certificate Distribution, formation of “Indian Mobile Architecture and Programming Chapter”)	

- Some Special Lectures from Industry.
- All Practicals are performed on the real mobile devices.
- Tea Break: 11 AM to 11-15 AM and 3-30 to 3-45 PM.
- Lunch Break: 1-15 to 2 PM.
- Refreshments/ TA/ DA will not be provided to participants during the training program.
- Saturdays, Sundays and Public Holidays are off.
- There will be a continuous assessment to select the best project award and several other awards to participants.
- 75% attendance is mandatory for completing the training program.