6 WEEK

Microsoft

WITH LIVE PROJECT

SummerTraining Program

in collaboration with Microsoft University Relations and MHRD DIC-IIT Delhi

STP-10

TRAINING MODULES

- Smart Device Architecture with Mobile Application Development
- Embedded System & Artificial Intellegence
- Hardware platform Raspberry Pi, ARM, Snapdragon and 8051Board.
- Python programming and App development
- IoT & Cloud Intregration
- Product designing and development.
- Basic Electronics Experiment

Registration Till
(02/06/2019)
Programme Schedule
From 10-06-19 to 20-07-19

Microsoft

MHRD Govt. of India

DIC-IGDTUW

Special Facilities

- Prototype Development

- Operating System Plateform

Raspbian

- Working with Single Board Computers

Project Based Summer Training Program (STP-10)
on "Integrated approach using IoT, Cloud Computing , Mobile Application Devolopment & AI"
organised by Indira Gandhi Delhi Technical University for Women ,Delhi in collaboration with Microsoft university relation, DIC-MHRD "
(From 10-06-2019 to 20-07-2019)

Tentative Training Schedule for month of June-July 2019

Weeks	Scheduled Date	Training Topic
1st week	10-06-2019 to 15-06-2019 9:00 AM - 5:00 PM IST	Inauguration of 10th STP M1- Smart Device Architecture. Python Programming Introduction of different hardware & Sensor
2nd Week	17-06-2019 to 22-06-2019 9:00 AM - 5:00 PM IST	Hardware interfacing with different Digital sensor Hardware interfacing with different Communication Module Hardware interfacing with different pheripheral like OLED,Push Button Buzzor ,etc Design & Devolope a small project
3rd Week	24-06-2019 to 29-06-2019 9:00 AM - 5:00 PM IST	IOT Protocols Cloud Computing and its Integration Artificial intelligence
4th Week	01-07-2019 to 06-07-2019 9:00 AM - 5:00 PM IST	Basic Electronics Theory & Its hands on experience PCB Design & Soldering Case study of industry 4.0 Visit to IIT Delhi(DIC-MHRD,Assistive technologies)
5th Week	08-07-2019 to 13-07-2019 9:00 AM - 5:00 PM IST	Product Designing and Product Development(3D printing & Laser Cutting) Starts project including Abstract, SRS and Technical Paper writing project implementation and document generation
6th Week	15-07-2019 to 20-07-2019 9:00 AM - 5:00 PM IST	Starts project including Abstract, SRS and Technical Paper writing project implementation and document generation Project Presentation & Future Directions and R&D

10th SUMMER TRAINING PROGRAM (STP-10)

Project Based Summer Training Program on "Integrated approach using IoT, Cloud Computing , Mobile Application Devolopment & AI"

(Based upon target software platforms- Android/Linux/Windows & Hardware Platforms,IoT,AI,Cloud computing,Basic Electronics)

Organized by Department of CSE, Indira Gandhi Delhi Technical University for Women (Formerly IGIT), Kashmere Gate Delhi-110006) in collaboration with DIC-MHRD

From 10-06-19 to 20-07-19

ABOUT US

There has been tremendous growth in the field of mobile and handheld device technologies due to availability of various open source software tools and easy availability of hardware that drives these systems. It has been observed that most of the users are now accessing the mobile devices than desktop systems for their day to day activities that includes communication, game playing, sending mails, web browsing, social networking, m-commerce, entertainment and computing to name a few. These smart devices are becoming a vibrant and a very exciting platform for teaching, learning and application development for any individual student and develop end user project to meet the changelings of the present generation.However, the complete know how of such devices in terms of software or hardware usage is not very common.

The training will empower and enable the students, programmers and researchers to use the mobile device as an instrument for diversified applications like Agriculture, E-learning, Health Care, Games, Defence and Navigation to name a few. Especially the student community gets the familiarity in programming the on-device peripherals and thereby ended up with development of various applications for mobile and hand held devices more efficiently.

OBJECTIVES

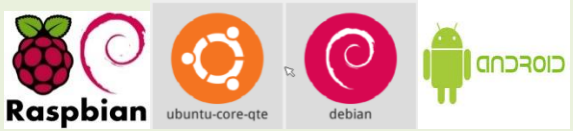
Device Development and Programming for various application domains:-

- Entertainment
- Real-Life Applications
- Emergency Needs
- E-Learning
- Handheld Device Development

Programming of on-device peripherals e.g. Camera, Audio/Video, GPS, GSM, Bluetooth, Accelerometer, Gyroscope, Microphone etc. based on

HARDWARE USED

OS USED



Product Design Facilities

PROGRAM MODULE

- Smart Device Architecture with Mobile Application Development
- Embedded System & Artificial Intellegence
- Hardware platform Raspberry Pi, ARM, Snapdragon and 8051Board.
- Python programming and App development
- IoT & Cloud Intregration
- Product designing and development.
- Basic Electronics Experiment
- Applicaion of AI
- Working on live project.

TRAINING MATERIAL:

Training material and the software's required for developing the mobile applications and embedded system will be provided.

RESOURCE PERSONS:

Internal Staff from IGDTUW, external experts from IIT Delhi, IIIT Delhi, SNU, NSITand experts from industries like Microsoft, Intel, TI, Narnix Lab Pvt Ltd, ARM,etc.

COURSE CONTENT: Topic wise detailed schedule is attached.

CERTIFICATE: All successfully completed participants will get the certificate **jointly from Indira Gandhi Delhi Technical University for Women and DIC-MHRD(IITD) & Microsoft University Relations.**

REGISTRATION& SELECTION PROCESS: Candidates (Male or female candidatesfrom any university or college are eligible) who are willing to attend the program needs to apply through Registration form by paying a DD of Rs. 6,500/- on or before 06-06-2019. Only 50 seats are available. The selection will be based on first come first serve. 30 % of the seats are reserved for IGDTUW students. All selected participants will be informed on or before 08-06-2019 through E-mail.

WHO CAN ATTEND THE PROGRAM:

Students studying or completed B.Tech. (preferably those who have completed three semesters)/ M.Tech (CSE, ECE, IT)/ MCA. Faculty members who are teaching (or planning to teach) Embedded Systems/ Device development and interfacing peripherals & also want to working in AI & Cloud computing Technologies etc. can be benefited by this training.

CONTACT PERSON:

For any enquires you can contact course coordinator in the following address:

Prof. S. Ramanarayana Reddy
CSE Department
Electrical Block, Room No.E-107, IGDTUW,
Kashmere Gate, Delhi – 110 006
Tele: +91 9810101742, 011-23869784,
011-23900253
Email: stp.igdtuw@gmail.com

Please visit http://www.mobileeducationkit.net/ ,www.dic-igdtuw.com or www.igdtuw.ac.in for further updates and correspondence.

REGISTRATION FORM

Paste your recent photograph with self-attested

1. Name of the applicant: ……
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2. Branch/ Semester/ College:……
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3. Name of the Dept./ Designation:
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4. Mailing address: ……
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5. Mobile No: ……
6. Email: ……
7. Details of DD: Amount: 6500/- (DD should be drawn in favour of "Registrar, IGDTUW", payable at Delhi and mailed it to **Dr. S. Ramanarayana Reddy, Prof, CSE Department, Room No E-107, Electrical Block, IGDTUW, Kashmere Gate, Delhi – 110006** either by post or by person on or before 31-05-2019).
8. DD No.: _____Drawn on : _____

9. Please write a statement of purpose about **"why you would like to attend this course":**
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Signature of the Applicant

Date:
Place:

10th SUMMER TRAINING PROGRAM
(STP-10)

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