

FACULTY DEVELOPMENT PROGRAMME (FDP) ON

Real Time Embedded Systems and IoT, Its Applications (RESIoT) 17th - 22nd December 2018





VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD in association with NIT, Warangal. Under the scheme of Electronics & ICT Academy

(Sponsored by Department of Electronics and Information Technology (Deity), GOI)

"Electronics & ICT Academy" is being set up at NIT Warangal with financial assistance from DeitY, MCIT, Govt. of India (Gol). The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa and Puducherry states and UT of Andaman & Nicobar Islands. This academy role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies; training & consultancy services for Industry; Curriculum development for Industry; CEP for working professionals; Advice and support for technical incubation and entrepreneurial activities.

This faculty development programme (FDP) is devoted to Academicians and Practitioners working in the fields of Reconfigurable Low-Power ARM Soft IP-core based FPGA to build hardware blocks and analyze software architectures for Internet-of-Things framework.

Major Course Contents:

- Introduction to Embedded Systems
- Real Time Operating Systems
- FPGA & SoC Based Embedded Systems Designs
- Demo on Programmable SoC (Zynq SoC)
- Raspberry Pi Architecture
- Sensors and IoT Cloud
- Socket Programming, MQTT Protocol
- F-mail Controlled Home Automation
- Node Red over IBM Bluemix
- Hardware and Software Co-design

Structure of the Course:

- Theory 20 hours: The theory for the topics specified in the 'Course Contents' will be covered in 20 hours duration of classroom sessions.
- Lab 16 hours: The participants will be applying the topics learnt by doing exercises.

Course Evaluation:

- Continuous assessments of MCQs at logical intervals.
- Using the target FPGA, tools available, participants will have to submit a System Design proposal at the end of the 3rd day of the course and macro-level design by the end of the

Faculty conducting this programme:

Academicians in the concerned field from Reputed Institutes from IITs, and NITs will be dealing the theory sessions and industry experts will handle the hands-on lab sessions.

Eligibility: The programme is open to the teachers of engineering colleges, working in the above-mentioned states. Industry personnel working in the concerned/allied discipline can also attend

Registration Fee Particulars:

: Rs. 2,500/-Faculty members or Research Scholars

: Rs. 1,875/- SC/ST faculty (Should submit the caste certificate to claim the concession)

Research Scholars are NOT eligible for SC/ST concession array enpurposive (partnerships with the industry, bolstering its The FDP fee may be sent either in the form of Demand Drelbgy & Grand Scholarships and evolving innovative programmes or can be paid online as given below:

Shaikpet, Hudasa to maintain its pre-eminent position.

DD Details Demand Draft (DD) drawn in favor of "Director, NIT Warangal" and payable at

Account Name: Electronics & ICT Academy NITW Account No: 62423775910 IFSC:SBIN0020149

Travel and Accommodation:

SBI, NIT Warangal branch.

All the selected participants will have to make their own arrangements for their travel and accommodation. No TA will be paid for the participants. Lunch and snacks will be provided.

How to apply:

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with demand draft) should reach: The Head-Dept. of ECE, Vasavi College of Engineering (Autonomous), Hyderabad by speed-post. It is also mandatory to send scanned application form and demand draft through e-mail to hodece@staff.vce.ac.in as selection will be intimated ONLY through mail.

Selection Criteria:

Selection will be done based on first-cum-first-serve basis and the confirmed candidates will be notified immediately. The maximum number of participants will be 50 (fifty). Additionally10 participants from industry can participate. The list of selected participants will be notified in the institute web site www.nitw.ac.in and, also will be sent to their personal e-mail ids. In case a candidate is not selected, the demand draft will be sent back. The test will be conducted at the end of the course. Candidates will be issued certificates on successful completion of the course along with grade. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

:30/11/2018 Last date for submission of application Selection-list intimation/display before :07/12/2018 :17/12/2018 to 22/12/2018 Duration of Program

About the Institute:

Founded in 1981 by Vasavi Academy of Education, Vasavi College of Engineering represents a rich tradition of excellence in technology-based education. A premier-league institution among the affiliates of Osmania University, Vasavi College of Engineering owes its vision to Sri Pendekanti Venkata Subbaiah, a veteran statesman of Independent India. Vasavi College of Engineering has been conferred with Autonomous Status by the University Grants Commission (UGC), New Delhi and Osmania University, Hyderabad for a period of six years with effect from the Academic Year 2014-15, for all the UG and PG Programmes. The College is implementing Choice Based Credit System (CBCS).

Vasavi College of Engineering, in its 37 years of existence, is a reputed institution in the State of Telangana. The college in its pursuit for quality in technical education has earned 3rd ranking in the State and 32nd in the country (source: Hindustan Times on 24th June 2009). The college offers six UG (Civil, Mechanical, ECE, CSE, EEE and IT) with total sanctioned intake of 600 and 6 PG programmes [ME (ES&VLSI); ME (ADM); ME (CE&SP]; ME(PSPE); M.Tech (CSE)] and MCA with total sanctioned intake of 156]. The College is most preferred by the CET qualified high-ranking students. Located in the sylvan suburbs of Ibrahimbagh in Hyderabad, Vasavi College of Engineering presents a picturesque view flanked by the glorious Golconda Fort. Situated over a sprawling 13.6-acre campus with lush lawns, a beautiful landscape, aesthetic architecture and avantgarde infrastructure, the College epitomizes an exemplary Research Scholars are NOT eligible for SC/ST concession arayanpiniosive to always with the industry holetoring to promote the procession of the procession o

FORMAT OF APPLICATION

Electronics and ICT Academy, NIT Warangaland

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD Faculty Development Programme on

Real Time Embedded Systems and IoT, Its Applications (RESIoT) (17th -22nd December 2018)

1.	Name :	SPONSORSHIP CERTIFICATE
2.	Designation :	Dr./Mr./Ms
3.		is an employee of our Institute/Organization and
		is hereby sponsored to participate in the FDP on
4.	E-mail :	Real Time Embedded Systems and IoT, Its
5.	Mobile No. :	Applications (RESIOT) sponsored by Electronics & ICT Academy during 17th-22nd December 2018
6.	DD No. :	at Vasavi College of Engineering (Autonomous), Ibrahimbagh, Hyderabad-500031.
	Bank : Date:	_ loranmoagn, riyacrabad 555501.
7.	Address for Correspondence:	Place:
		Date: Signature of Head of Institution (with seal)
8.	Educational Qualifications with specialization:	Address for correspondence:
		Post your application form with DD to
9.	Subjects taught so far:	
10	No. of refresher courses/workshops attended:	The Head of The Department Electronics & Communication Engineering Vasavi College of Engineering (Autonomous) Ibrahimbagh, Hyderabad – 500031, Telangana, India.
	no, or remediate coursely mensus parameters	Mail the scanned copies of filled-in and duly signed application form with DD Number to:
11.	Experience (in years)	hodece@staff.vce.ac.in
	Teaching :	For more information visit: http://nitw.ac.in/eict/
	Research :	For any enquiry contact:
	Industry :	Mobile : 9441029775 / 8897727547
12.	Do you belong to SC/ST: YES/NO	Land line : 040-23146120 / 23146041
Dec	aration	2414 1116
The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.		e o
Place Date		lel o
	Coo	rdinators
	Dr. J Ravi Kumar (Coordinator) Associate Dean (Student Welfare) Associate Professor, Dept. of ECE	Prof. N S Murthy Mr. Nabid Ali Khan (Coordinator) & Science (fol Coordinator) Professor ECA Condinator, VCE(A)

Organized by

Ph: 9441029775yderabad - 999:18897727547

NIT Warangal -506004. Ph: 8332969363



G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE (For Women) (AUTONOMOUS)

Shaikpet, Hyderabad - 500104

Electronics and Telematics Engineering

2018-19

FDP on "Real Time Embedded Systems and IOT, Its Applications (RESIOT)"

REPORT

Date: 22-12-2018

Resource persons:

- 1. Ms. Wendy Fong, Director, Lehigh University, USA.
- 2. Mr. Vinayak Hungund, Senior Director, Xtrans Solutions, Bangalore, India.
- 3. Prof. N.S Murthy, Dept. of ECE, VCE (A) Hyderabad.
- 4. Mr. N. Venkatesh, Vice President, Redpine Signals, Hyderabad.
- 5. Dr. Ravi Kumar J, ECE Dept, NIT-Warangal.

About the Program:

This FDP is scheduled from 17-12-2018 to 22-12-2018, aims to enhance knowledge in various domains. The diverse range of topics covered within this FDP includes: Introduction to Embedded Systems, Real Time Operating Systems, FPGA & SoC Based Embedded Systems Designs, Demo on Programmable SoC (Zynq – SoC), Raspberry Pi Architecture, Sensors and IoT Cloud, Socket Programming, MQTT Protocol, E-mail Controlled Home Automation, Node Red over IBM Bluemix, Hardware and Software Co-design.

Signature of the Faculty member

G. Narayanamma Institute of Technology & Science (for women)
(AUTOROMOUS)

Shaikpet, Hyderabad - 500 104