



 <p>TI university program technology for tomorrow's innovators</p> 	 <p>IETE</p>		 <p>ISTE</p>
<p>Padre Conceicao College Of Engineering, Verna, Goa www.pccegoa.org</p>	<p>UniTI www.ti.com/univ-in and Texas Instruments, India www.ti.com</p>	<p>IETE Student's Forum www.iete.org</p>	<p>EdutechTechnologies Pvt Ltd www.edgate.in</p>	<p>Indian Society for Technical Education https://www.iste.org/</p>

In collaboration with Electronics and Telecommunication Engineering department of Padre Conceicao College of Engineering, EdGate Technologies and TI India announces one week ISTE/IETE approved workshop on **MSP430, TIVA and IoT from (3rd - 7th July 2017)**

**Venue – Department of Electronics and Telecommunication Engineering
Padre Conceicao College of Engineering, Verna, GOA**



Resource person for the workshop
Rohit Prajapati, Application Engineer
Sagar Minchnal, Application Engineer

Abstract

The training programme is designed for students/faculty/professionals who want to sharpen their design and development skills. These trainings include extensive hands-on lab emphasizing the demonstration and application of techniques and skills. The training is based on advanced microcontrollers from Texas Instruments and includes the MSP430 LaunchPad, CC110L wireless BoosterPack, Tiva-C series LaunchPad, SensHub BoosterPack, and the CC3100 Wi-Fi BoosterPack. With all these tools in your hand you can design exciting applications with focus on ultra low

power systems, real time systems and the Internet of Things

About TI & TI India University Program

Texas Instruments (www.ti.com), widely known as TI, is a multinational semiconductor company headquartered in Dallas, Texas United States. TI is a leading manufacturer of semiconductor products such embedded processors (microprocessors, DSP, microcontrollers), analog circuits, wireless chip sets, and digital light processing chips. TI established its Indian operations in Bangalore in 1985. TI India has a University Program called “UniTI” through which universities can get support for labs, IC samples, teaching materials, events, train-the-trainer programs, etc. Please see www.ti.com/univ-in for more details.

About Padre Conceicao College of Engineering (PCCE), Verna, Goa

P.C.C.E. was established in the year 1997 to meet the growing technical needs of Goa and the country as a whole. The self-financed college, conducts four year degree programmes in Computer, Mechanical, ETC Engineering and Information Technology. The college also offers ME course with specialization in Internet Technology. The college is affiliated to Goa University, Taleigao Goa, and all the programs are approved by All India Council for Technical Education (AICTE), New Delhi. (www.pccegoa.org) The college is situated on National Highway 17 at Verna at about 5 Kms from the Margao Bus Station and 27 Kms from Panaji Bus Station. The college is about 8 Kms from Margao Railway Station and 18 Kms from Dabolim Airport at Vasco, Goa. Please see www.pccegoa.org for more details.

About EdGate Technologies Pvt Ltd., Bangalore

EdGate Technologies provides high-performance ARM, DSP, FPGA processor boards and I/O modules in support of high performance, parallel processing applications in a variety of fields including Multimedia, Imaging, Networking, Industrial control and Military. They offer rapid, reliable software, firmware and hardware solutions for prototyping, business applications and the development environment. EdGate Technologies provide a whole range of services by leveraging its business expertise by strategic alliances with leading technology providers.

EdGate Technologies has an extensive presence all over the country and well established connectivity within the academic and corporate communities. Their aim is to reach out to the corporate, educators and the engineering student community to help them achieve more in their research and their learning initiatives.

About IETE

Founded in 1953, the Institution of Electronics and Telecommunication Engineers (IETE) is a leading professional society devoted to the advancement of Science & Technology in Electronics, Telecommunications, Information Technology, Computer Science and other related disciplines. IETE serves its 25493 Corporate members, 230 Organisational members, 12502 Student members and 447 IETE Student Forum Institutions with 59168 ISF students through its 63 Centres spread all over India including one at Kathmandu (Nepal). To keep pace with technological development and achieve the mission of advancing the profession, it organizes conferences, conventions, symposia, seminars, workshops, publications and brain storming sessions for continued knowledge upgradation of its members. The Government of India, Ministry of Science and Technology, Department of Scientific & Industrial Research has recognized IETE as a Scientific and Industrial

Research Organization (SIRO) and the Institution has also been notified as an Educational Institution of National Eminence by the Government of India.

About ISTE

The Indian Society for Technical Education (ISTE) is the leading National Professional non-profit making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System. At present, ISTE has a very large and an effective membership base consisting of more than 1,02,985 Life Members, 5,54,094 Student Members, 2410 Institutional Members (including IITs, IISc., NITs and other leading technical institutions), 1214 Faculty Chapters and 1322 Students' Chapters and 17 Sections throughout the country.

The major objective of the ISTE is to provide quality training programmes to teachers and administrators of technical institutions to update their knowledge and skills in their fields of activity and to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industry and other organisations.

Important Dates

Last Date for receipt of registration form	: 30th May 2017
Confirmation to participants by e-mail	: 31st May 2017
Registration starts :	09:30 am (3 rd July 2017)

Registration Fee:

Rs.4000/-	Industry Professionals
Rs.1500/-	Students (non-IETE members)
Rs.1250/-	Students (IETE members)
Rs.2000/-	Faculty (ISTE/IETE members)
Rs.2500/-	Faculty (non ISTE/ non IETE members)

About the Speakers



PROFESSIONAL PROFILE

NAME: ROHIT PRAJAPATI

DESIGNATION: Application Engineer



Mr. Rohit is employed with **Edgate Technologies Pvt Ltd** as an **Application Engineer**. He has 3+ years of professional experience. He holds a Bachelor of Engineering degree from Vinayaka Missions University, Salem in Electronics & Telecommunication Engineering. He is very passionate about learning and knowledge sharing. His working areas include **Mixed Signal Processors, Digital Signal Processors, and Analog Systems**. He has trained over 2000+ students and faculties in various universities and colleges across India.

Accomplished trainings at: NIT Hamirpur, CT Group of Colleges(Punjab), GITAM University(Vizag), GCET(Gujarat), NIT Silchar(Assam), NIT Trichy, KIITS University(Odisha), BMSIT(Bangalore), SJCE(Mysore), KEC(Erode), IIT Madras, Andhra University, NIT Manipur, LNMIIT(Jaipur), GVP(Vizag), JNTU-H, SPIT(Mumbai), IITM Kerela, SVEC Tirupati, Manav Rachna University, Shiv Nadar University, Sardar Patel Institute of Technology, Terna Engineering College, YMCA university, JSS Academy etc.

He can be communicated at rohit@edgate.in

PROFESSIONAL PROFILE

NAME: SAGAR MINCHNAL

DESIGNATION: Application Engineer



Mr. SAGAR MINCHNAL is employed with **EdGate Technologies Pvt. Ltd.** as **Application Engineer**. He has around 3 years of professional experience. He has completed his Post graduation from KLE College of Engineering Karnataka in VLSI Design & Embedded systems and his graduation From DBIT engineering college, Bangalore in Electronics & Communication Engineering. His working areas include **Mixed Signal Processors, Linux Platforms, and ARM based systems, DSP platform**. He has trained over 1000+ students and faculties in various universities and colleges across India. **Accomplished trainings at:** Nagarjun Engineering college(Bangalore),Cambridge college of Engineering(Bangalore), ,BMSIT(Bangalore), SJCE(Mysore), Vellalar Engineering College, ,MVJ college of engineering(Banglore), SVEC Tirupati, Manav Rachna University, Shiv Nadar University, Vignan Institute of technology(guntur) . He can be communicated at sagar@edgate.in

Training Agenda:

Day	9:30-11:00	11:15-12:45	13:45-15:15	15:30-16:45
1	Introduction to MSP430 Architecture, Peripherals, Memory Mapping & Low Power Modes	Introduction to MSP430G2553 LaunchPad and Energia	CC110L Interface Introduction to SPI protocol and CC110L Air BoosterPack	CC110L Energia Libraries Simple RF wireless communication between 2 LaunchPads
2	Real Time Systems Design Introduction to TIVA-C LaunchPad, Code Composer Studio V6, Tivaware Library	Analog to Digital Conversion Usage of Tivaware APIs, multi-channel sampling, Interrupts of ADC	I2C Communication Details of I2C protocol, Introduction to SensHub BoosterPack	Introduction to Sensor Libraries Measure ambient light using ISL29023 sensor
3	Internet of Things IOT overview, TCP/IP protocol & Embedded networking concepts	Energia WiFi Libraries WiFi Class APIs Configure your LaunchPad as Access Point	IP Address Class APIs Experiment to acquire IP address and display it	Network Sockets overview, Server & Client Class APIs Transmit "Hello" from Server to Client
4	Design of Embedded Server, Overview of HTTP protocol & HTML programming Embedded web server Design	Getting Started with Temboo & Nexmo Generation of internet based calls using Nexmo voice services	IOT Wireless Sensor Network Design a WSN using MSP430, CC110L, Tiva-c and CC3100 BoosterPack	Getting started with CC3100 SDK on CCSv6 Overview of CC3100 SDK Send Email Application
5	Design of Rash Driving Alert System Overview of the project design	Design of sensing application based on 3-axis accelerometer using SensHub BoosterPack	Modify email application to trigger when receiving an input from sensing application	Realization of Rash driving Alert system

Organization Committee

Chief Patron:

Fr. Victor Rebello

Director

PCCE, Verna, Goa

Patron:

Dr. Luis C. Mesquita,

Principal, PCCE

PCCE, Verna, Goa

Workshop Chairs

- Prof. Luis Mesquita, Principal, PCCE, Verna.
- Prof. K.R. Pai, Professor & Head of ETC, PCCE

Registration Chairs

1. Ms. Avita Lotlikar, ETC Dept., Padre Conceicao College of Engineering, Verna, Goa (0832-2791266/67 Extn: 136)
2. Mr. Vaibhav Vernekar, ETC Department, Padre Conceicao College of Engineering, Verna, Goa (0932-2791266/67 Extn:109)
3. Mr. Shailesh Khanolkar, ETC Dept., Padre Conceicao College of Engineering, Verna, Goa (0832-2791266/67 Extn: 109)

Address for correspondence

- Ms. Avita Lotlikar, Coordinator (sttp_pcce17@gmail.com), Padre Conceicao College of Engineering, Verna, Goa for queries regarding registration for the course.

Accommodation

- Accommodation for female candidates can be provided in College Hostel.
- Limited accommodation can be arranged in college guesthouse.

Faculty Registration Form

Short term training program (ISTE & IETE approved) on “MSP 430, Tiva and IoT” from 3rd to 7th July 2017”

**Department of Electronics & Telecommunication Engineering
Padre Conceicao College of Engineering**

Name (all capitals):

Affiliation:

Status (Department):

Mobile/Landline Phone:

Email:

IETE/ISTE Membership Number (if you are currently a member):

Amount paid : Rs. 2500 (for non ISTE member)/ Rs.2000 (for ISTE member)

Details of payment: (Draft/Cash):

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Signature of applicant

Submit the registration form with payment details (DD)/Cheque drawn in favour of “Director, Padre Conceicao College of Engineering” payable at Margao, Goa or cash to:

**Ms.Avita Lotlikar,
ISF Coordinator
Office : 2791266 Extn : 136
Email : sttppcce17@gmail.com**

**Mr. Vaibhav Vernekar
ISF Coordinator
2791266 Extn : 109**

**Padre Conceicao College of Engineering
Agnel Technical Education Complex,
AgnelGanv, Verna, Salcette, Goa – 403722.**

Student's Registration Form
Internship workshop on "MSP 430, Tiva and IoT" from 3rd to 14th July 2017"
Padre Conceicao College of Engineering
Department of Electronics & Telecommunication Engineering

Name (all capitals):

Affiliation:

Status (UG Student/PG Student/ Branch):

Branch & Roll Number

Mobile/Landline Phone:

Email:

IETE/ISTE Membership Number (if you are currently a member):

Amount paid : Rs. 1500 / Rs.1250

Signature of applicant

Submit the registration form with cash payment to:

Ms.Avita Lotlikar,
ISF Coordinator
Office : 2791266 Extn : 136
Email : stppcce17@gmail.com

Mr. Vaibhav Vernekar
ISF Coordinator
2791266 Extn : 109

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Agnel Technical Education Complex,
Agnel Ganv, Verna, Salcette, Goa – 403722.