



R G M COLLEGE OF ENGG & TECH.

NANDYAL-518501, KURNOOL (Dist)-AP

Dept. of ECE

Two day workshop on
"ARDUINO HANDS ON"
22nd & 23rd September, 2017



REGISTRATION FORM

Name of the Participant: _____

Designation: _____

Organization: _____

Address for Correspondence: _____

Phone: (O) _____ (R) _____

Fax: _____

E.Mail: _____

Experience (years): _____

Research Interests: _____

Payment Details: _____

Draft No: _____ Date: _____

Amount: Rs. _____ Draw on: _____

Sponsored by

Name: _____

Designation: _____

Organization: _____

Applicant's Signature

Recommended

Signature (Head of the Institute, with seal)

TWO DAY WORKSHOP
On
"ARDUINO HANDS ON"

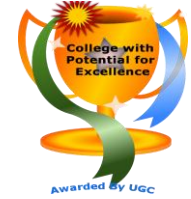


22nd & 23rd September, 2017

In Association with



Organized
by



Dept. of Electronics & Communication Engg.
R G M College of Engg. & Tech.,
(Autonomous)
Affiliated to JNTUA, Anantapuramu, Accredited by
NBA, NAAC with A+ Grade, ISO 9001:2008
Certified Institution

Course Fee:

- 1) For Student: Rs.200/-
- 2) For Faculty: Rs.400/-
- 3) For Research Scholars: Rs.300/-
- 4) For Engineers/Scientists: Rs.500/-

(Payment by Demand Draft in favor of "Head of the Dept. of ECE", Nandyal, Payable at State Bank of India, RGM CET Branch)

Important Dates:

Last Date for receipt of application: 18th September, 2017
Workshop Dates: 22nd & 23rd September, 2017

Partons:

Dr.M.Santhiramudu
Chairman, RGM CET
Er.M.Siva Ram
Managing Director, RGM CET

Advisor:

Dr.T.Jayachandra Prasad
Principal, RGM CET

Convener:

Dr. A. Sathish
Head, Department of ECE, RGM CET

Co-Convener:

Dr. K. Mallikarjuna
Asso. Prof., Dept. of ECE, RGM CET

Coordinators:

Mr. R. Hanuma Naik
Asso.Prof., Dept. of ECE, RGM CET
Mr. N. Nagarja Kumar
Asso. Prof., Dept. of ECE, RGM CET
Mr. C. Naresh
Asst.Prof., Dept. of ECE, RGM CET

Dr. A.Sathish

HOD, Dept. of Electronics & Communication Engg.
R G M College of Engg.& Tech.
Nandyal-518501, Kurnool (Dt)
9440031829, rgmece2015@gmail.com

About The College

The college was established in 1995 and is situated 10KM away from Nandyal on NH-40 (old 18) towards Kurnool. It has been setup with an aim to achieve technology excellence through innovation and with a motto of "EDUCATION for PEACE". It is approved by AICTE and accredited by NBA, NAAC, Affiliated to JNTUA, Anantapuramu. This is the first private Engineering College affiliated to JNTU at U.G and P.G levels. This college has secured eleven prestigious Gold Medals including the gold medal for the best outgoing student of all branches of all Engineering Colleges of JNTU in Andhra Pradesh. Nineteen batches are graduated from this college. This college possesses state of art infrastructure and faculty.

Courses Offered

The college is offering U.G. programs in ECE(240), EEE(180), CSE(180), IT(60), ME(240), and Civil(240) and also offering P.G. programs in Power Electronics(36), Machine Design(18), Embedded Systems(18), Digital Systems and Computer Electronics(18), Computer Science(18), Structural Engineering(18) and Software Engineering(18) along with MCA(60) and MBA(60) with a total intake of 1404.

About Department

The Department of ECE, one of the premier Departments of RGM CET, offering U.G and P.G courses (DSCE & ES). The Department aims to be the leader in ECE applications and solutions. The Department pioneered and continues to refine the teaching methodologies with its intellectual faculty. Enriched by Seven Professors and Eleven Associate Professors, the Department strives to reach the goal of achieving long term growth. Since its inception, the Dept. has maintained an unwavering commitment to R&D as eleven of the teaching faculty are involved in research & Consultancy work in various Domains and registered for

Ph.Ds at various Colleges/Universities. The balanced portfolio approach allows the Department to address the needs of student community. The Department has grown swiftly as a trail blazer for its five university gold medals. The Department has 15 laboratories equipped with latest equipment which includes Advanced 8086 & 8051 Training system, Arbitrary Function Generators, Digital Storage Oscilloscopes, Finger print Authentication tool, Global Positioning Training system, Wireless Equipment, Image daughter card, Microwave Benches, Mobile Telephony Communication system. The Department possesses nearly ten licensed and state-of-the-art software, viz., VLSI Design suite with student edition and plus edition, LabVIEW, MATLAB, SIMULINK, CCS software full version, Multisim, MultiMCU, Synplify Pro, Ultiboard, VisSim/Comm. Microwind Low Power VLSI Design and CADENCE TOOLS. VODs are available (procured from IIT Kharagpur) on different courses that are being taught at UG and PG levels.

Objective of the Workshop

Arduino refers to an open-source electronics platform or board and the software used to program it. Arduino is designed to make electronics more accessible to artists, designers, hobbyists and anyone interested in creating interactive objects or environments. This workshop will focus on getting you up and running with Arduino quickly, so that you will understand the basic procedures for working with Arduino and can explore further on your own. An Arduino is a small computer that you can program to control things like lights or motors along with listening to components like motion detection sensors. It can give your project interactivity without needing an expensive and large circuit. Instead, you use a computer to program the Arduino, upload your code to the Arduino, and hook up your circuit.

The duration of this workshop will be 2 days, with Sixteen hours session, properly divided into theory and hands on practical sessions. The workshop is suitable for

beginners to create applications in embedded platform. This workshop provides with hands on training in Arduino hardware, software sensor interfacing.

Workshop Content

1. Introduction to Embedded system
2. Microcontroller vs. Microprocessors
3. Introduction to programming language
4. Interfacing of I/O devices
5. Analog to Digital converter
6. Pulse width modulation
7. Serial communication
8. Motor interface and Drive
9. Do's & Don'ts with Arduino
10. Project (In groups) with the help of sensors.

The participants are advised to bring their own computing devices (laptop) if possible. Proteus VSM ECAD tools with Arduino and Sensors will be used for design and development of the exercises.

Resource Persons

Dr. P. V. Gopi Krishna Rao,
Professor, RGM CET, Nandyal.
Mr. S. Srinivas Kumar
Technical Head, Sannidhi Systems, Vijayawada.
Mr. Shaik Abdul Rahim,
Assistant Professor, RGM CET, Nandyal.

Facilities for The Participants

Lodging and Boarding facilities will be provided to the outstation participants, Lodging will be provided only on prior request and on payment basis.

Student Coordinators

D. C. Dhanunjaya (14091A0428)
T. Kavya (14091A0453)
C. Akarsha Reddy (14091A0405)
G. Ganga Mohan (15095A0405)