AICTE sponsored
Six Days
SHORT TERM TRAINING PROGRAMME
on
RECENT
TRENDS AND CHALLENGES OF INTERNET
OF THINGS IN AUTOMATION

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

16/03/2020 to 21/03/2020

REGISTRATION FORM

Name Dr./Mr./Ms :...

Qualification   :...

Designation   :...

Department   :...

Organization   :...

Category: (Please tick the appropriate one)

Academia ☐   Industry ☐   Research scholar ☐

Address   : ....
....
....

Mobile   :...

E-mail ID :...

Note : No registration fee will be charged

SIGNATURE OF THE CANDIDATE   SIGNATURE OF THE PRINCIPAL
                                                                   (WITH SEAL)

Chief Patron
Shri. R.S. Munirathinam, Founder – Chairman

Patrons
Smt. Manjula Munirathinam, Chairperson
Shri. R. Jothi Naidu, Director
Shri. R.M. Kishore, Vice Chairman
Shri. Yalamanchi Pradeep, Secretary
Dr.Durgadevi Pradeep, Vice Chairperson
Smt. Sowmya Kishore, Management Trustee

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Shri.T.Pitchandi IAS (Rtd),Advisor
Shri. V. Manoharan,Advisor
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Dr.K.Sivaram,Dean-Research
Dr.K.K.Thyagharajan,Dean-Academics

Convenor
Dr. A.Chilambuchelvan
Professor & Head / EIE

Co-ordinator
Dr.G.Nalinashini, Professor

Organizing Committee
Ms.N.Vini Antony Grace, Associate Professor
Ms.N.Padmavathi, Associate Professor
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Mr.M.Aravindan, Assistant Professor
Ms.A.Sowmiya, Assistant Professor
Ms.L.Aquiline Lydia, Assistant Professor
Ms.P.Aileen Sonia Dhas, Assistant Professor

Address for Communication

Dr.G.Nalinashini

Professor
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R.M.D Engineering College,
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ORGANIZED BY
DEPARTMENT OF
ELECTRONICS AND INSTRUMENTATION ENGINEERING

R.M.D. ENGINEERING COLLEGE
R.S.M NAGAR, KAVARAIPETTAI
GUMMIDIPOONDI TALUK, TIRUVALLUR DISTRICT, TAMIL NADU
PIN: 601 206.
WEBSITE: https//rmd.ac.in

About the college:

R.M.D. Engineering College was established in the year 2001 by Sri Swaminatha Naidu Educational Trust. The Founder –Chairman of the Trust is Shri.R.S.Munirathinam, renowned for his philanthropic attitude and service. The college is approved by AICTE and affliated to Anna University, Chennai. RMDEC offers 5 Undergraduate programmes and 1 Postgraduate programme. It is an ISO 9001-2015 certified Institution and also accredited by National Board of Accreditation (NBA) and NAAC. RMDEC is ranked one among the top premier Engineering Colleges affliated to Anna University ,Chennai. Excellent academic standards, state-of-the art facility, dedicated staff and enterprising student community make RMDEC a favored destination for Engineering aspirants and Corporate giants. RMDEC was conferred with the prestigious Bharatiya Vidya Bhavan National Award for an Engineering College having Best Overall Performance-2010 by Indian Society for Technical Education (ISTE). RMDEC has entered into Memorandum of Understanding (MOUs) with several Industries and Institutions for enhancing the technical skills of our students.

About the department:

Department of Electronics and Instrumentation Engineering was started in the year 2009 with an intake of 60 students . The department has eight laboratories with state-of-the-art facilities in diverse fields of Instrumentation with an investment of more than 60 lakhs. The Department has four Centres of Excellences (CoE) in the field of Building Management Systems, Factory Automation, Embedded systems, Automotive Electronics. Through Industry – Institute Collaboration, Building Management Systems Lab established in our department. Faculty members are involved in research activities and publishing their research papers in reputed international journals indexed by IEEE, WoS and Scopus etc. The Department is accredited by the NationalBoard of Accreditation (NBA) in the year 2017.

Vision of the department:

The Electronics and Instrumentation department is committed to develop students as professionals with strong technical-entrepreneurial background empowered with periodic upgradation of faculty skills and state of art infrastructures.

Mission of the department:

To provide quality education in foundations of Electronics and Instrumentation Engineering.

*To produce skilled Instrumentation engineers capable of innovating & developing solutions for industrial requirements.

*To instill qualities of professional leadership, entrepreneurial and ethical values among students.

*To establish tie-ups with reputed industries and Institutions to synchronize with upcoming technologies.

*To facilitate adequate exposure to faculty in latest trends of Electronics and Instrumentation Engineering.

About the programme:

Internet of Things (IoT) refers to the network of Internet connected objects, able to collect and exchange data with the goal to provide users with smarter, most efficient experiences. IoT plays a major role in every Industry's digital transformation strategy. IoT is digitalizing the world from home automation to Industry automation, spanning from manufacturing,utilities,transport,smartcitiy,healthcare,security, logistics, energy,retail,airports,oil & gas,shipping and so on.IoT is a wide and rapidly developing area with expected strong and growing implications for the Industry.Scarce information is available for IoT usage in Industrial automation. domain for reliable and collaborative automation with respect to offering predictable and fault-tolerant real-time closed-loop control, and inclusion of intelligent service features from edge devices to the cloud.This Short Term Training Programme (STTP) intents to bring together experts to discuss upon recent trends and challenges of IoT in Automation.

Objective of the course:

The main Objective of the STTP is to impart the IoT Knowledge Faculty,Researchers,Industrialist.The state of art IoT, its Applications, Design issues, Challenges, Security, Integration of Sensors, Automation using IoT and emerging trends of IoT will be discussed.

Course Contents:

► IoT Introduction, Architecture ,Services and Protocols
► IoT Challenges and its Applications
► IoT Enabled Process Automation and Control System
► Implementation of Factory Robotics Using IoT
► Hands-on Training on Arduino
    Interfacing of IR Proximity Sensor, Ultrasonic Sensor
    Interfacing of Gas Sensor, DHT11 Sensor
    Android Controlled Device Automation with Arduino
    Uploading live sensor data on Thingspeak cloud using ESP8266
► Hands-on Training on Raspberry Pi
    Introduction to python programming
    Interfacing of IR Proximity Sensor,Ultrasonic Sensor
    Interfacing pf DHT11 Sensor
    Thing Speak IoT platform
    Designing Webpage for IoT Applications

Resource Persons:

Experienced faculty from Reputed institutions, Experts from Industries will deliver lectures and conduct hands on practical sessions.

Eligibility:

This course is open to Faculty members and Research scholars of AICTE approved Engineering colleges, Polytechnic colleges, Engineers from R&D Institutions and Industries

TA & Accommodation Details:

TA will be paid to the participants as per AICTE norms. Accommodation will be provided to the selected outstation participants upon request

Important Dates:

Last date for Registration : 09/03/2020
Intimation of selection : 11/03/2020