



**AICTE TRAINING AND LEARNING
(ATAL) ACADEMY SPONSORED
ONLINE FIVE DAYS FACULTY
DEVELOPMENT PROGRAM
ON**

**RESEARCH AVENUES
AND
CHALLENGES IN INDUSTRY 4.0**

(14.06.2021 to 18.06.2021)

ORGANIZED BY

**DEPARTMENT OF ELECTRONICS AND
INSTRUMENTATION ENGINEERING**



**R.M.D. ENGINEERING COLLEGE
(An Autonomous Institution)**

R.S.M. Nagar, Kavaraipettai,
Gummidipoondi,
Thiruvallur District- 601 206.

Website: www.rmd.ac.in

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Online Registration Link

<https://atalacademy.aicte-india.org/signup>

WHO CAN APPLY?

The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats / Technicians / Participants from Industry etc.) and staff of host institutions.

ADDRESS FOR COMMUNICATION

Dr. A. Chilambuchelvan M.E., Ph.D
Professor & Head

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ABOUT THE INSTITUTION

R.M.D. Engineering College was started in the year 2001 at Kavaraipettai, Gummudipoondi Taluk, Thiruvallur District, Tamil Nadu under the auspices of Sri Swaminatha Naidu Educational Trust. The trust renders philanthropic and educational services to Telugu linguistic people living in rural areas bordering Tamil Nadu and Andhra Pradesh.

R.M.D.Engineering College offers UG programmes in Engineering and Technology and also PG programme in Computer Science and Engineering. R.M.D. Engineering College is Accredited by NAAC & all five UG Programmes are accredited by NBA for three years. It is also certified with ISO 9001:2015 by the DNV, Netherlands for the standard maintained in the delivery of UG and PG Programmes. R.M.D Engineering College is the recipient of Bharatiya Vidya Bhavan National Award for Best Engineering College having the Best Overall Performance for the year 2010 by ISTE. The CSE &IT Department received AICTE-CII award for best industry linked technical institute during the year 2020. All the other departments received platinum category in AICTE-CII Survey.

ABOUT THE DEPARTMENT

Department of Electronics and Instrumentation Engineering was started in the year 2009 with an intake of 60 students. The Department has been reaccredited by the National Board of Accreditation (NBA) for three years. 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 Centers of Excellence in the field of Building Management Systems, Factory Automation, Embedded systems and Automotive Electronics.

Building Management Systems Lab is established in our department through technical collaboration with Johnson Controls India Ltd., Pune. Faculty members are involved in research activities and publishing their research papers in reputed international journals indexed by IEEE, WoS and Scopus etc.

OBJECTIVES OF FDP

- ❖ **To provide knowledge to the participants about the current trend of automation and data exchange in Automotive Industries and Power sector.**
- ❖ **To unfold various research challenges involved in autonomous decision-making processes, monitor assets and processes in real-time, and enable equally real-time connected value creation networks with experts in the related areas.**
- ❖ **To impart the fundamentals of machine learning into design of smart systems.**

TOPICS TO BE COVERED

- ❖ **IoT Design Protocols & Architecture**
- ❖ **Research Opportunities in Smart Grid**
- ❖ **IoT in healthcare**
- ❖ **IoT based implementation of Real time applications**
- ❖ **Digital Twin concepts in Industry 4.0**
- ❖ **Sensor Interfacing Applications using Raspberry Pi**
- ❖ **Network security issues in IoT**
- ❖ **Machine Learning**
- ❖ **Design concepts in E – vehicles**

RESOURCE PERSONS

- 1. Dr. Vimalathithan Rathinasabapathy, Director / Krishtec, Chennai.**
- 2. Dr. V. T. Sree Devi, Professor / EEE Vellore Institute of Technology (VIT) Chennai.**
- 3. Dr. K. Vijayakumar, Assistant Professor / EEE, IITDM, Kancheepuram.**
- 4. Dr. G. R. Gangadharan, Associate Professor /CSE NIT, Trichy.**
- 5. Dr. C. Komathi, Associate Professor/ EIE, Sri Sairam Engineering College, Chennai.**
- 6. Mr. Ganesh S Kandha, Senior Engineer II, Microchip Technology, Chennai.**
- 7. Mr. V. Iyyamperumal, Senior Manager ANAND Automotive Private Ltd., Chennai.**
- 8. Mr. Karthik Jyothielekshmi, Sr. Technical Lead, Mercedes Benz, R&D, Bangalore.**
- 9. Dr. D. Senthilkumar, Asst. Professor / CSE, Anna University, Trichy.**
- 10. Dr. P. Sivasankar, Associate Professor / EEC NITTTR, Taramani, Chennai**
- 11. Mr. V. Hariharan, Founder, Space zee , Chennai.**
- 12. Mr. A. Fazil Khan Cyber security Analyst TATA Consultancy services, Chennai.**
- 13. Dr. L. C. Lenin, Director, Electric Vehicles Incubation and Testing Vellore Institute of Technology, Chennai.**
- 14. Mr. Chandrakant S. Deoda, Sahaja Yoga, Chennai**