

### **ABOUT THE COLLEGE**

Ramco Institute of Technology is founded by its Founder Chairman Shri P.R.Ramasubrahmaneya Rajha in the year 2013 with a vision to impart high quality engineering education. our Chairman Shri. P.R.Venkatarama Raja rapidly flourishes the learning environment by encouraging students to pursue online courses from prominent foreign universities and motivating them to do Inter-disciplinary projects with creation of Innovation Hub and Research laboratories with tie-up from Multi-National Corporates . The College is situated in the foothills of Western Ghats, 5 Kms from Rajapalayam Bus stand in Ayyanar Kovil Road. College has a very good learning atmosphere facilitated by high quality teaching by well-qualified and experienced faculty members, e-learning modules with smart classrooms, emulating IIT system of education.

### **ABOUT THE DEPARTMENT –MECHANICAL**

The Department of Mechanical Engineering was established in the year 2013. The department is having an excellent teaching-learning environment with modern state-of-the-art facilities and well-experienced faculty members with expertise over a wide range of specializations. At present, it offers B.E. in Mechanical Engineering with a sanctioned intake of 120 students. The Department has RIT-Harita Advanced Learning Centre for CATIA® and NX CAD® software's. The vision of the department is “To be recognized nationally for its quality education, research and extension programmes in Mechanical Engineering.” The Department facilitates the faculty members and students to pursue online courses from prominent foreign universities like MIT Edx, HarvardX etc.

### **ABOUT THE DEPARTMENT-ECE**

The Department of Electronics and Communication Engineering is established in the year 2013 with a vision to develop competent professionals to meet the global challenges in modern engineering society. The Laboratories are equipped with latest technology in the fields of Electronic Devices and Circuits, Digital Electronics, Linear Integrated Circuits, Microprocessors and Microcontrollers, Digital Signal Processing, Communication System, VLSI, Embedded Systems, Optical & Microwave, that offer opportunities on a wide range of hardware and advanced software packages. In addition to this, the Department has equipped with Research Laboratories such as NI-LabVIEW Research Laboratory, Tessolve Semiconductor Laboratory and Technical Incubation Centre to enrich the knowledge of students and faculty.

### **PROGRAMME CONTENTS**

#### **ROBOT MAKING**

- \* Introduction to robots and its classification
- \* Co-ordinate systems and drives
- \* Configurations based on body, arm and wrist
- \* Movements of Robots
- \* Controller systems

#### **ROBOT PROGRAMMING**

- \* Introduction to Robot Programming
- \* Design of Robots and Simulations
- \* Input and Output consoles.
- \* Robot programming with controllers like Arduino, Raspberry Pi.
- \* Line follower Robot, Velocity Controlled Robot

#### **AUTOMATION**

- \* Introduction to various automation systems.
- \* Awareness on India Skills– Mechatronics and Robotics competition.

## **ONE WEEK FINISHING SCHOOL PROGRAMME**

*(for Students of Class X, XI, XII in State Board/Matric/CBSE schools)*

*on*

## **ROBOT MAKING, PROGRAMMING AND AUTOMATION**

**22-27 April, 2019**

### **INFORMATION BROCHURE**

**Convenor**

**Dr.S.Periyanyagi**

**Co-ordinators**

**Mr.B.Kannan**

**Mr.S.Valai Ganesh**

**Mr.T.Selvasundar**



e-Yantra Robotics Laboratory  
Automation and Robotics Club  
Ramco Institute of Technology  
Rajapalayam-626 117  
Tel No.: 04563 233415

## REGISTRATION

- \* There is No Registration Fee.
- \* Head of the school can nominate a maximum of 10 interested students of Class X, XI, XII.
- \* Selection will be made on First-come First-served basis and is limited to Thirty seats.
- \* Selected Candidates will be intimated through e-mail or Telephone only.
- \* Local Transport and Working Lunch will be provided.
- \* Certificates will be issued to all the candidates who attend the program in full.
- \* Students who wish to attend should submit the filled-in registration form forwarded by the Head of the School to the address by courier/ email/School -representative on or before 13.04.2019.
- \* One teacher from each school can accompany the students to help them to reach the College.
- \* Consolidated list of participants and the soft copy of the filled-in applications can also be e-mailed to [arc@ritrjpm.ac.in](mailto:arc@ritrjpm.ac.in) from the Head of the School.
- \* For further Information Contact the Co-coordinators in Tel.No. 04563-233414 or 04563-233415

College Location Scan here:



To get Softcopy of this brochure scan here:



## Finishing School Programme on Robot Making, Programming and Automation

22<sup>nd</sup> - 27<sup>th</sup> April, 2019

### REGISTRATION FORM

Name:

Age, DOB:

Gender:

Name of the School:

Class of Study:

Residential Address:

Contact No. (Parent):

E-mail ID:

I hereby declare that the above furnished information is true to the best of my knowledge.

Signature of the Student

Forwarded and Recommended

Signature & Seal of the Head of the School

## ORGANIZING COMMITTEE

### CHIEF PATRON:

**Shri Mr.P.R.Venketrama Raja**  
Chairman, Ramco Group

### CHAIR:

**Dr.N.Jawahar**  
Principal  
Ramco Institute of Technology

**Dr.S.Rajakarunakaran**  
Vice Principal  
Ramco Institute of Technology

### CONVENER:

**Dr.S.Periyamayagi**  
Professor and Head / ECE  
Tel.No: 04563-233414

### CO-ORDINATORS:

**Mr.B.Kannan**  
Assistant Professor(S.G.) / ECE  
Contact Number: 9962367770

**Mr. S.Valai Ganesh**  
Assistant Professor / MECH  
Contact Number: 9043489697

**Mr. T.Selvasundar**  
Assistant Professor / MECH  
Contact Number: 9791700234

### Venue:

e-Yantra Robotics Laboratory  
Automation and Robotics Club

### IMPORTANT DATES:

**Submission of Application** : 13.04.2019  
**Intimation of Selection** : 16.04.2019  
**Confirmation by Participants** : 20.04.2019

**RAMCO INSTITUTE OF TECHNOLOGY**  
**North Venganallur, Rajapalayam – 626 117**  
**Department of Computer Science and Engineering**  
**Finishing School Programme on Robot Making, Programming**  
**and Automation**  
**(for Students of Classes X, XI, XII in State Board/Matric/CBSE Schools)**

**22<sup>nd</sup> - 27<sup>th</sup> APRIL, 2019**

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I hereby declare that the above furnished information is true to the best of my knowledge.

**Signature of the Student**

**Forwarded and Recommended**

**Signature & Seal  
of the Head of the Institution**

*For any queries Contact the coordinators in Tel. Nos. **04563 233414**, **04563 233415**,  
**9043489697**, **9791700234**, **996236770***

*Principal of the Schools can send scanned copy of the registration forms by email to  
[\*\*arc@ritrjpm.ac.in\*\*](mailto:arc@ritrjpm.ac.in)*