

## Chief Patrons

**Dr. A.C.Shanmugam, Founder Chancellor**

**Er. A.C.S. Arun Kumar, President**

### University Management committee

**Dr. K. Meer Mustafa Hussain - Vice Chancellor**  
**Dr. M. Ravichandran - Pro Vice Chancellor**  
**Dr. C.B. Palanivelu - Registrar**  
**Dr. P. Kalidoss- Addl. Registrar**  
**Dr. P. Aravindan - Principal Director ARI**  
**Dr. D.B. Jabaraj - Joint Registrar (H&S)**  
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**Dr. Malini Pande- Joint Registrar (H&S / Academics)**  
**Dr. S. Sendilvelan - Dean (E&T)**  
**Dr. L. Ramesh- Dean (Events, Publication & Alumni)**  
**Dr. S. Manivannan - Dean (Phase II campus)**

### Convenors:

**Dr. P. Palanisamy, Ph.D.,**  
Dean- ARI,  
Advanced Research Institute.

**Dr. T. Godhavari, Ph.D.,**  
Head of the Department,  
Electronics & Communication Engineering

**Er. Sa.K. Vishnoo Prathap, M.Tech., (M.Sc.)**  
Project Scientist & Head C.S.R.S.R.,  
Advanced Research Institute.  
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Email: vishnooprathap.energy@gmail.com

### Coordinators:

**Er. M. Kamalahasan, M.Tech.**  
Electronics Projects Lead, ARI-C.S.R.S.R.,  
Phone: +91-6380236302  
Email: kamal.spring@gmail.com

**Mr. Lakshminarayanan, Assistant Professor,**  
Dept. of Electronics & Communication Engineering,  
Email: lakshminarayanan.ece@drmgrdu.ac.in

### Venue:

University Conference Hall - Maduravoyal Campus,  
Anna Block (Main Building), Ground Floor.  
Dr. M.G.R. Educational and Research Institute,  
E.V.R Periyar Salai, Maduravoyal, Chennai -600095,  
Tamil Nadu, India.

### Fees:

Registration fees for  
1. Students/Research Scholars - Rs.1500 per head  
2. University faculties and staff- Rs. 2500 per head

### Registration Details:



Scan QR Code for online  
Registration If QR Code is  
not working, request for  
registration form from our  
coordinator

**Maximum seats: 150**  
**Last date to apply is 21th**  
**August 2018**

### Fees Payment:

Delegates should pay online for registration and are  
requested to email transaction details to our  
coordinator at [kamal.spring@gmail.com](mailto:kamal.spring@gmail.com)

**Bank Name:** Canara Bank  
**Branch:** Dr. M.G.R. Engg college  
**Account Number:** 8453101004840  
**IFSC Code:** CNRB0008453

### Note:

1. Fees will cover Tea Break and Lunch
2. Travel and Accommodation by participant must be made at his or her own risk
3. Each team should have minimum 1 laptop
4. Each team will have Maximum 6 participants and will be given a CanSat kit. (minimum team eligibility-5 participants)



**Dr. M.G.R.**  
**Educational and Research Institute**  
(Deemed to be University)

(An ISO Certified Institution)

University with Special Graded Autonomy

Maduravoyal, Chennai 600 095, Tamil Nadu, India.



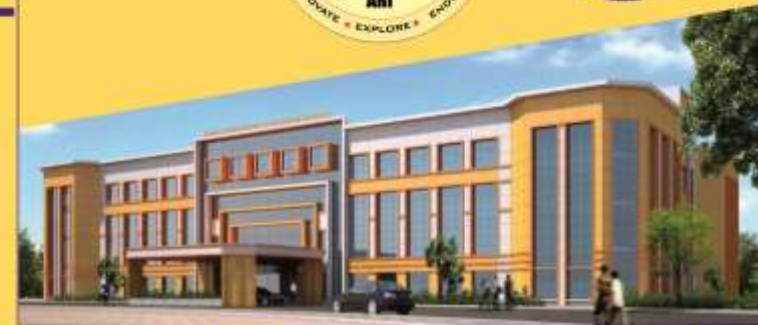
## National Workshop on Introduction to CanSat & Rocketry

23rd to 25th August 2018

## Space Technology Series

Organized by  
**Centre for Smart Robotics,  
Space Technology & Renewable Energy,  
(C.S.R.S.R.)**  
under  
**Advanced Research Institute**

in Collaboration with  
**Xovian Research Technologies Pvt. Ltd.**  
&  
in Association with  
**Department of ECE**





## About the University:

Dr. M.G.R. Educational and Research Institute is a NAAC 'A' accredited Deemed to be university which has its origin as Dr. M.G.R. Engineering College founded in 1988 and acquired Deemed University status in 2003 as per the orders of the University Grants Commission, New Delhi and the Union Ministry of Human Resources and Development, Government of India, New Delhi. From then on, our University has grown leaps and bounds in providing Quality Education and Applied Research. We are glad to inform you that our Deemed to be University has been given SPECIAL STATUS AND SIGNIFICANT AUTONOMY by MHRD & UGC government of India. This is indeed a proud moment in the history of Dr. M.G.R. Educational and Research Institute. The only Deemed to be University in the city of Chennai offering Multi Facet programmes / Courses to be granted this status under Category – II. We are one of the two universities in Chennai who displayed the defence related projects at Defence Expo 2018 and we had also displayed our projects at ACMEE 2018 at Chennai Trade centre.

## About the Department:

Advanced Research Institute (ARI) which is a premier Research wing of the University was inaugurated by ISRO chairman in 2012. ARI carries out collaborative research projects from DRDO, ISRO, Coir Board (MSME, Govt. of India.) along with other Governmental and Private sector industries. We are also proud to share that we are one among the two Deemed to be Universities in India to participate with foreign and Indian Defence industries in DEFEXPO'18.

## About the Centre of Excellence:

The centre for Smart Robotics, Space Technology and Renewable Energy is a unique cluster of 3 fields of research with an aim of imparting quality space education to the students and to pursue funded research of national importance. The centre is functioning under Advanced Research Institute a premier research institute under the direct control of Dr. M.G.R. Educational and Research Institute, Chennai.

## About the Workshop :

The realization of small Nano and Pico Satellites for real life scenario space missions has paved way for school and college students around the world to develop their own satellites for unique research missions. So, to develop your own satellite CanSats are the ideal tools for beginners. The workshop will concentrate on the following topics-

1. Design of Structure
2. Electronics circuit design, Monitoring & Controlling
3. Deployment and Testing of the module

## Course Outline:

### Day 1

- > Inauguration and introduction to CanSat
- > Intro to Rockets and Orbits
- > Electronic Systems Overview

### Day2

- > Communication systems
- > Attitude Determination and control hands on activity
- > Subsystem hands on activity

### Day3

- > Rocketry and Payload design
- > Deployment and Retrieval process
- > Parachute Design

Note: Detailed schedule will be e-mailed upon registration

## Key Speakers



Padmashri Awardee  
Prof. R.M. Vasagam  
Chancellor,  
Dr.M.G.R.DU, Chennai.



Dr. P.V. Venkitakrishnan  
Outstanding Scientist &  
Director, Capacity Building  
Office, ISRO HQ.



Dr. M. K. Padmanabhan  
Director, India Research &  
Education Centre,  
Virginia Tech, Chennai.



Xovian is an Aerospace Company based in New Delhi with a vision to provide low cost sustainable solutions in satellite fabrication. Founded in 2011 and incorporated in 2014, the company is backed up with the team of decades of experience in satellite technology.

The Company also conducts Educational and Research based activities to bridge the innovation gap between industries and educational institutions. Xovian has escalated into the following domains:

1. CANSAT
2. Sounding Rockets
3. High Altitude Balloons
4. Satellite components manufacturing

Xovian is a member of International Astronautical Federation International Astronautical Federation (IAF) is an international space advocacy organisation based in Paris, and founded in 1951 as a non governmental organization to establish a dialogue between scientists around the world and to lay the information for international space cooperation.



INTERNATIONAL  
ASTRONAUTICAL  
FEDERATION



## Guest Speaker

Mr. Raghav Sharma,  
Founder & Director,  
Xovian Research Technologies  
Pvt. Ltd.