

Science Academies' Virtual Lecture Workshop
on
Recent Advances in Embedded Systems
for Emerging Applications

23rd and 24th July, 2020

REGISTRATION FORM

Full Name

Name of College/Institution/
University/Organization

Category
(Industry / Faculty /
Research Scholar / Student)

Years of experience :

Area of Interest / Specialization

Email

Mobile Number

City

State

REGISTRATION URL :

<https://forms.gle/sNyZpANX9zzu4D1V7>

(Registrations are done on First-Come First-Serve basis. No Fee)

Last Date For Registration : 20.07.2020

PROGRAMME TIMINGS: 9.45 a.m. to 4.00 p.m.

RESOURCE PERSONS

- Dr. Krithi Ramamrithm, Professor, Indian Institute of Technology Bombay.
- Dr. Kavi Arya, Professor, Indian Institute of Technology Bombay.
- Dr. Anupama Kowli
Assistant Professor, IIT Bombay.
- Dr T Senthil Kumar, Associate Professor Amrita School of Engineering, Coimbatore.
- Dr.Jayakrishnan U Nair
Assistant Professor, IIT Bombay.
- Dr P Vinod, Professor, SCMS School of Engineering, Cochin.
- Dr. Niveditha Somu
Institute Post-doctoral Fellow, IIT Bombay.
- Dr Anshul Agarwal
Assistant Professor, VNIT Nagpur.

ADDRESS FOR COMMUNICATION

The Co-ordinator

DEPARTMENT OF COMPUTER SCIENCE

**Dr. G. R. DAMODARAN COLLEGE OF
SCIENCE (Autonomous)**

(Autonomous, affiliated to the **Bharathiar University**
and recognized by the **UGC**)

Re-accredited at the 'A' Grade level by the NAAC

An ISO 9001:2015 Certified Institution

Civil Aerodrome post, Avinashi Road,

Coimbatore – 641 014, Tamilnadu, India

Phones: 0422-2591863,2591864

Mobile Nos: 9842256114, 9842228692

E-mail: grditworkshop@grd.edu.in,

Website: www.grd.org

SCIENCE EDUCATION PROGRAMME

of the

**Indian Academy of Sciences, Bangalore
Indian National Science Academy, New Delhi
The National Academy of Sciences, Allahabad**

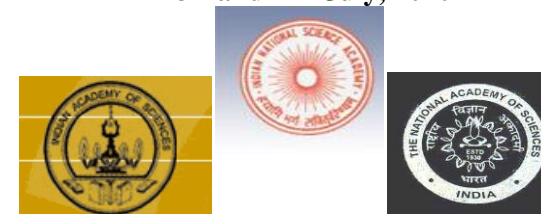
Science Academies'

Virtual Lecture Workshop

on

**Recent Advances in Embedded Systems
for Emerging Applications**

23rd and 24th July, 2020



Organized by the

**DEPARTMENT OF COMPUTER SCIENCE
Dr. G. R. DAMODARAN COLLEGE OF**

SCIENCE, (Autonomous)

(Autonomous, affiliated to the **Bharathiar
University** and recognized by the **UGC**)

Re-accredited at the 'A' Grade level by the NAAC

An ISO 9001:2015 Certified Institution

Civil Aerodrome post, Avinashi Road,

Coimbatore – 641 014, Tamilnadu, India

Phones: 0422-2591863,2591864

Mobile Nos: 9842256114, 9842228692

E-mail: grditworkshop@grd.edu.in, Website: www.grd.org

ABOUT THE INSTITUTE

DR. G. R. DAMODARAN COLLEGE OF SCIENCE (Autonomous) was established in 1988 with the objective of providing career-oriented higher education and to create advanced study facilities in modern and emerging areas of relevance. The College has been re-accredited at the 'A' Grade level by the National Assessment and Accreditation Council and has been awarded the Autonomous Status. It is the first self-financing College and the youngest institution to get the highest rating awarded by the NAAC.

ABOUT THE DEPARTMENT

The Department of Computer Science has been one of the pioneering departments of the Institution. The department has a state-of-art infrastructure, well equipped labs with updated software and hardware. The Robotics lab established in the Department is in association with e-Yantra, IIT Mumbai. The Campus-Wide Networking facility connects all the departments, hostels and offices. The Wi-fi facility provides seamless internet connectivity.

The Department offers the undergraduate courses like BCA, BSc (Computer Science), B.Sc (Information Technology), B.Sc(Computer Technology), 2 year Postgraduate programmes in M.Sc (Information Technology), and MCA programme. The Department is also approved to offer the M.Phil and Ph.D. Programmes in Computer Science.

ABOUT THE LECTURE WORKSHOP

An embedded system is an electronic system that has microcontrollers such as Arduino UNO, Raspberry Pi, Beagle Board, Dragon Board and WYZBee board. An Embedded System is one which integrates the hardware circuits and software programming methodologies to offer project solutions, and also reduces the complexity of the circuits. There are a wide range of application domains that range from low cost to high cost and from day to day electronic consumables to aerospace control systems. The application domains that apply embedded systems include home appliances, office automation, automobile, academia, entertainment, industrial automation, telecommunication, aerospace etc. Nowadays, there is a tremendous growth in embedded technology.

This lecture workshop is a platform to share the recent advances in Embedded Systems, to develop smart applications and to make a bridge between the industry and academic institutions to update the state of art technologies. The academicians and industry experts from leading institutions will deliver lectures and hands on sessions. This workshop will focus on theoretical concepts as well as case studies in the field of embedded systems. The participants will be provided with knowledge about the usage of embedded systems in smart applications, tools to be used, security issues in Embedded applications and applying Machine Learning concepts in Embedded System development.

WHO CAN PARTICIPATE

Faculty Members / Research Scholars / Students of Computer Science / Computer Applications / Information Technology and Industry Professionals.

WORKSHOP CONTENT

- Role of Embedded Systems in Smart Application Development
- Tools and Simulators for Embedded System Development
- Internet of Things and Embedded Systems
- Security in Embedded Systems
- Case Studies
- Machine Learning for Embedded Systems

CONVENOR

Prof. KRITHI RAMAMRITHAM

Professor

Department of Computer Science and Engineering

Indian Institute of Technology Bombay

Powai, Mumbai – 400 076

CO-ORDINATOR

Dr. G. RADHAMANI

Director

Department of Computer Science

Dr. G. R. Damodaran College of Science,

(Autonomous)

Coimbatore – 641 014