

## ABOUT THE INSTITUTE

Dr G R Damodaran College of Science (Autonomous) was established in 1988. The aim is to provide quality higher education for the future generations. The higher education activity in the emerging areas of industrial relevance is the motto of our College. The College has grown from the Undergraduate to the Doctoral Levels. The College has registered exceptional progress including the re-accreditation by the NAAC at the 'A' Grade level. The College has been granted Autonomy by the UGC and the Bharathiar University which enables it to frame its own innovative curricula and evaluation systems.

## ABOUT THE DEPARTMENT

The Department of Computer Science works on the updated views and ideas in the emerging technological advancements and Research. The department has the state of the art infrastructure, well equipped labs with the updated software and hardware. The Robotics lab adds a feather to the cap comprising of the most recent gadgets. The Department offers the Undergraduate courses in B.Sc(CS), B.Sc(IT), BSc(CT), BCA and Postgraduate Courses such as M.Sc(IT) and MCA (Full Time). Research and Development in the field is envisaged through the M.Phil / Ph.D. programmes.

## DEFENCE RESEARCH & DEVELOPMENT ORGANISATION (DRDO)

DRDO is the R&D wing of the Ministry of Defence, Govt of India, set up with a vision to empower India with cutting-edge defence technologies and a mission to achieve self-reliance in critical defence technologies and systems, while equipping our armed forces with the state-of-the-art weapon systems and equipments in accordance with the requirements laid down by the three Services. DRDO's pursuit of self-reliance and successful indigenous development and the production of strategic systems and platforms such as Agni and Prithvi series of missiles; light combat aircraft, Tejas; multi-barrel rocket launchers, Pinaka; air defence systems, Akash; a wide range of radars and electronic warfare systems; etc., have afforded a quantum jump to India's military might, thus generating effective defence and providing crucial leverage.

## DRDO SPONSORED

## ONE DAY NATIONAL WORKSHOP ON

## Quantum Computing and Applications

22nd December, 2022

Organized by the



## Dr. G.R. DAMODARAN COLLEGE OF SCIENCE

(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

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Sponsored by the



रक्षा अनुसंधान एवं विकास संगठन

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DEFENCE RESEARCH &  
DEVELOPMENT ORGANISATION

Ministry of Defence, Government of India



## OBJECTIVES OF THE WORKSHOP

The main objective of this workshop is to gain knowledge about the Quantum Computing and the various applications that use the Quantum Computing Technology. This technology is applied in secure communication systems in Defense Applications. Quantum Computing is capable of processing a high amount of data in the qubits that cracks current security.

The knowledge gained through this workshop can be used in the development of algorithms for communication security. Scientific Analysis Group (SAG) which develops tools and techniques for information security will be involved to disseminate the technology to the participants.

## TOPICS TO BE COVERED

- Quantum Computing Fundamentals
- Role of Quantum Computing in various Applications
- Research Opportunities in Quantum Computing
- Role of Quantum Computing in Defense Applications

## RESOURCE PERSONS

- Professors and Researchers from leading academic Institutions
- Technical Experts from Industry

## PARTICIPANTS

This workshop is open to the Faculty members, Research Scholars, Undergraduates & Postgraduates and Industry Professionals.

## REGISTRATION FEE

Industry / R&D Institutions : Rs.500/-  
Academicians : Rs.250/-  
Students / Research Scholars : Rs.100/-

Registration fee should be paid through a DD in favour of  
“Computer Science Association”

**Dr G R Damodaran College of Science (Autonomous)**  
payable at Coimbatore

**REGISTRATION URL:** <https://forms.gle/3BSNSkPm2LpP67Xz6>

## ORGANIZING COMMITTEE

### PATRONS

**Dr. D. PADMANABAN**

Correspondent

**Smt. GEETHA PADMANABAN**

Secretary

**Dr. T. SANTHA**

Principal

**Dr. K. K. RAMACHANDRAN**

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Director

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**DEPARTMENT OF COMPUTER SCIENCE**

**Dr G R Damodaran College of Science**

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