

## ABOUT THE GCT COIMBATORE

Government College of Technology, Coimbatore formerly known as the Arthur Hope College of Technology, was started in July 1945 to give high priority to Technical Education. The institute was renamed as Government College of Technology and affiliated to University of Madras in 1951. The institute offers nine UG and eleven PG programs with recognized research supervisors to pursue M.S. (by Research) and Ph.D. programs. The institute was granted full autonomy for all the UG and PG courses from the academic year 1987-88. Each department has well qualified faculty members and excellent infrastructural facilities. The institute received TEQIP funds in Phase I, II and III of MHRD project. The institute is accredited by NAAC with 'A' grade.

## ABOUT THE FACULTY TRAINING CENTRE

The Faculty training centre was established in the year of 2019 to provide technical trainings to Engineering and Polytechnic college faculty members by Tamil Nadu State Government. It is equipped with sophisticated smart class rooms and tutorial room. It provides boarding and lodging facilities to resource persons and participants during the training programme. The programmes are organized to enhance the teaching skills of faculty members.

## ABOUT THE INSTITUTION

Government College of Engineering, Thanjavur was started in the year 2013 by Government of Tamil Nadu to cater the needs of technical education in emerging areas of engineering and excellence in research in different disciplines of science and engineering. The Tamil Nadu Government has created adequate infrastructural facilities and sufficient funds and is keen on developing the institute for higher education. The college has been located on 35.73 acres, 20 km from the city of Thanjavur and 35 km from the city of Trichy on Sengipatti - Gandharvakottai Main road. This college is affiliated to Anna University, Chennai. This college is the recognized research centre of Anna University, Chennai.

## ABOUT THE COURSE

Artificial intelligence (AI) is a research field that studies how to realize the intelligent human behaviors on a computer. The course is designed to understand the basics of Artificial

Intelligence with theory, practice, on real issues, case studies. The course aims to provide an understanding about the human decision making where many cognitive tasks that people can do easily and almost unconsciously but that are extremely difficult to program on a computer. This course will cover the basics of AI so that further skill buildings are based on the fundamentals learnt in this course. In India, with its 65% population as youth (18-35 years) has tremendous potential to develop into the hub of expert workforce for the world. This can be fulfilled through skill development for everyone in that age bracket across the region. But, the access of various sections of population to such skill development activities limits the potential of the youth. Another intriguing choice for such population cross-section is the lack of guidance on the type of skills to be developed so that they can be relevant and competent in the global market. Artificial intelligence (AI) focuses on realizing intelligent human behaviors on a computer, where the ultimate goal is to make a computer that can learn, plan, and solve problems autonomously. The main purpose of this course is to provide the fundamental knowledge (know-how) to the participants so that they can understand the concept of AI and further develop their Skills in it (do-how).

## COURSE CONTENTS

- Machine learning programming using python
- Modelling of systems using artificial intelligence
- Controlling of systems using Artificial Intelligence
- AI in Bio systems
- Fuzzy logic and its applications
- Neural networks and its applications
- Artificial intelligence in bio Image processing
- Multi objective optimization using AI
- AI applications in Automobile Engineering
- Intuitive search intelligence
- Role of sensors in Artificial Intelligence
- Deep learning for Pattern Recognition



**Tamil Nadu State Government Sponsored**

## **FIVE – DAYS ONLINE FDP ON ARTIFICIAL INTELLIGENCE - APPLICATIONS**

**FEBRUARY 15-19, 2021**

**Coordinators**

**Dr. A. ASOKAN  
Mr. M. SELVAKUMAR**

**Organized by**

**GOVERNMENT COLLEGE OF  
TECHNOLOGY  
COIMBATORE - 641 013**

**FACULTY TRAINING CENTRE**

**&**

**Department of Electronics and  
Communication Engineering**

**Government College of Engineering**

**Sengipatti, Thanjavur – 613 402**

## RESOURCE PERSONS

### **Dr. A. Ganapathy**

Professor in Electrical Engineering,  
Annamalai University, Chidambaram.

### **Dr. K. Srinivasan**

Professor  
Dept of EIE  
Ramakrishna College of Engineering, Coimbatore.

### **Dr. N. Sivakumaran**

Professor in I & CE  
NIT,Trichy.

### **Dr. S. Jayabal**

Prof and Head, Dept of Mech  
GCE,Thanjavur.

### **Dr. Sriram. K. Vasudevan**

Principal  
K.Ramakrishnan College of Technology  
Trichy.

### **Dr. S. Vijaychithra**

Professor, Dept. of EIE  
Kongu Engineering College, Perundurai..

### **Dr. I. Thirunavukarasu**

Associate Professor  
Manipal Institute of Technology.

### **Dr. N. Magesh**

Associate Professor, Dept. of EIE  
Kongu Engineering College, Perundurai

### **Dr. N. Vinoth**

Associate Professor, Dept. of Instrumentation  
MIT Chennai.

### **Dr. E. Sivaraman**

Associate Professor, Dept. of ECE  
GCE, Tirunelveli.

### **Dr. T. S. Murugesu**

Associate Professor, Dept. of ECE  
GCE, Trichy.

### **Dr. S. Rajendiran**

Associate Professor, Dept. of EIE  
Pondicherry Engineering College, Puducherry

### **Dr. B. Hemakumar**

Associate Professor, Dept. of EIE  
Pondicherry Engineering College, Puducherry.

### **Dr. A. Ganeshram**

Assistant Professor, Dept. of Instrumentation  
MIT Chennai.

### **Dr. V. Rukkumani**

Associate Professor  
Department of EIE  
Ramakrishna College of Engineering, Coimbatore

### **Dr. S. Meenakshi sundaram**

Associate Professor  
Manipal Institute of Technology

### **Dr. D. Jude Hemanth**

Associate Professor  
Karunya University  
Coimbatore

### **Dr. T. Gireeshkumar**

Associate Professor  
Dept of CSE  
School of Engineering,  
Amrita Vishwa Vidyapeetham  
Coimbatore

## REGISTRATION

- No Registration Fee.
- Faculty members from AICTE-approved institutions are eligible to attend the training programme.
- Participants will be selected on first-come first-served basis.
- Selected candidates will be intimated by E-mail.

## REGISTRATION LINK

Registration has to be done only through  
<https://forms.gle/zAU1PPSRAa6LnSwR7>

## PARTICIPATOR CERTIFICATE

E - Certificate will be issued based on the attendance percentage and assignment score.

## ADDRESS FOR CORRESPONDENCE

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Assistant Professor / Mechanical,  
Faculty Training Centre,  
Government College of Technology,  
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## PATRON

### **Dr. P. THAMARAI**

Principal, GCT

## HOD / FTC

### **Dr. T. PURUSOTHAMAN**

Professor, FTC, GCT

## CONVENER

### **Dr. R. VIJAYAN**

Principal, GCE Thanjavur

## CO-CONVENER

### **Prof. I. MUTHUMANI**

Professor & Head / ECE, GCE Thanjavur

## COORDINATORS

### **Dr. A. ASOKAN**

Associate Professor / ECE, GCE Thanjavur

### **Mr. M. SELVAKUMAR**

Assistant Professor / ECE, GCE Thanjavur

## IMPORTANT DATES

Submission of Application : 12.02.2021

Intimation of Selection : 13.02.2021

Confirmation by Participants : 13.02.2021

