



**Tamil Nadu State Government Sponsored  
Five Day Online Faculty Development  
Programme On  
**Advanced Trends and Applications  
in Mobile Ad Hoc Networks****

**26.07.2021 to 30.07.2021**



**Coordinators**

**Dr. R. MANIKANDAN  
Mr. K. MANOJKUMAR**

**Organized by**

**FACULTY TRAINING CENTRE  
Government College of Technology  
Coimbatore - 641 013  
and  
Department of Computer Science and Engineering  
Government College of Engineering  
Thanjavur - 613 402**

**ABOUT THE COURSE**

Mobile Ad Hoc Networks are everywhere, they required minimal configuration and can be deployed quickly, which make them suitable for emergencies such as natural disasters or military conflicts. These impromptu on-demand networks are useful for putting together a small inexpensive all-wireless LAN without the need for wireless infrastructure equipment. In this FDP will look behind the scenes of Mobile Ad Hoc Networks, from the basic and classical tools to the most modern and advanced algorithms. The FDP will start with an introduction to the basics of networks and the fundamental concepts that algorithms. It describes the underlying concepts of Mobile Ad Hoc Networks. The next generation of 5G is the fourth coming revolution of mobile technology. The features and its usability are much beyond the expectation of a normal human being. Many important applications for Mobile Ad Hoc Networks processing are also discussed.

**COURSE CONTENTS**

- ❖ Fundamental Concepts of Networks
- ❖ Dynamic Topologies
- ❖ Autonomous Behavior
- ❖ Security
- ❖ Network Simulator2 (NS2)
- ❖ Backoff Algorithms
- ❖ Different types of Attacks
- ❖ Programming in NS2
- ❖ Implementation of different types of algorithms.
- ❖ Collision avoidance
- ❖ 4G technology
- ❖ 5G technology
- ❖ Legislation of Cyber Law

**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 rooms. 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 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.

## RESOURCE PERSONS

**Dr. K. Selvakumar,**  
Professor and HOD in Information Technology,  
Annamalai University, Chidambaram.

**Dr. S. Ganesan,**  
Associate Professor in CSE,  
Government College of Technology, Salem.

**Dr. M. Sridevi,**  
Assistant Professor in CSE,  
National Institute of Technology, Trichy.

**Dr. G. Indirani,**  
Associate Professor in CSE,  
Government College of Engineering, Bargur.

**Dr. E. Saravana Kumar,**  
Professor in Computer Science & Engineering,  
Oxford College of Engineering, Bengaluru.

**Dr. M. Y. Mohamed Parvees,**  
Assistant Professor in CIS  
Annamalai University, Chidambaram.

**Dr. M. Marikkannan,**  
Assistant Professor (Sr.) in CSE,  
Institute of Road and Transport Technology, Erode.

**Dr. S. Arun,**  
Associate Professor in CSE,  
VELS University, Chennai.

**Dr. K. Santhosh Kumar,**  
Assistant Professor in CSE,  
Government College of Engineering, Bodinayakanur.

**Dr. N. Suguna,**  
Associate Professor in CSE,  
Government College of Engineering, Thanjavur.

**Dr. S. Selvamuthukumar,**  
Professor in CA,  
A.V.C. College of Engineering, Mayiladuthurai.

**Dr. D. Suresh,**  
Assistant Professor in Information Technology,  
Annamalai University, Chidambaram.

**Dr. C. Anbu Ananth,**  
Associate Professor in CSE,  
Annamalai University, Chidambaram.

**Dr. K. Kamali,**  
Assistant Professor in CSE,  
Annamalai University, Chidambaram.

**Dr. S. Anbazhagan,**  
Lecturer in Computer Engineering,  
Government Polytechnic College, Gandarvakottai.

**Dr. S. Jayabal,**  
Professor and Head in Mechanical,  
Government College of Engineering, Thanjavur.

## 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/U5GMQgvNyUJ91CMf7>

## PARTICIPATION CERTIFICATE

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

## ADDRESS FOR CORRESPONDENCE

**Mr. P. Duraisamy**  
Assistant Professor / Mechanical,  
Faculty Training Centre,  
Government College of Technology,  
Coimbatore – 641 013.  
E-mail: [ftc@gct.ac.in](mailto:ftc@gct.ac.in)

## PATRON

**Dr. P. Thamarai**  
Principal, GCT, Coimbatore

## HOD / FTC

**Dr. T. Purusothaman**  
Professor, FTC, GCT, Coimbatore

## CONVENER

**Dr. R. Vijayan**  
Principal,  
Government College of Engineering, Thanjavur

## COORDINATORS

**Dr. R. Manikandan**  
Associate Professor / CSE  
Government College of Engineering, Thanjavur

**Mr. K. Manojkumar**  
Assistant Professor / CSE  
Government College of Engineering, Thanjavur

## IMPORTANT DATES

Submission of Application	: 21.07.2021
Intimation of Selection	: 22.07.2021
Confirmation by Participants	: 23.07.2021