ABOUT THE COLLEGE

ST. Joseph College of Engineering commenced its journey with four branches: CSE, ECE, EEE, and IT in 2008. It expanded its offerings to include MECH & MBA in 2009, Civil in 2011, M.E-CSE in 2012, and AI&DS in 2022. The college currently offers five UG programs and two PG programs.

Our Founder Chairman, Rev. Fr. Dr. J.E. Arulraj, established the DMI and MMI congregations in 1984 and 1998, respectively, with the blessings of the Almighty. The mission was to cultivate well-disciplined, humanly motivated, intellectually enlightened, and technically oriented citizens. To fulfill this vision, our DFT oversees four universities, seven engineering colleges, two arts and science colleges, three colleges of education, one polytechnic college, and over 40 CBSE, international, and residential schools.

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was established in the year 2008 with an intake of 60, it increased to 120 in the academic year 2011. The program is duly approved by AICTE and affiliated to Anna University. The Electronics and Communication Engineering department is the most attractive and preferred department to the student's community. The department of ECE aspires to achieve global standards and competence with untiring commitment by collaborating with Industries.

The laboratory practical classes are conducted in a systematic manner. The laboratories are well equipped with modern training facilities that cater to the requirements of the University syllabus as well as to architect the learning experience . Problems are solved during the tutorial hours with better clarity. Students are taken for Industrial visits twice per semester. The students are encouraged to deliver seminars, publish papers in both National / International Conferences on latest topics, thus promoting technical and communication skills.

The Department of ECE imparts technical skills to the students through Center of Excellence in Circuit Design Automation.

ABOUT ATAL ACADEMY

ATAL Academy is an initiative by the All India Council for Technical Education (AICTE) aimed at promoting innovation, entrepreneurship, and skill development among students and faculty members in higher education institutions across India.

The objectives of ATAL Academy are

- To set up an Academy which will plan and help in imparting quality technical education in the country.

- To support technical institutions in fostering research. innovation and entrepreneurship through training.

- To stress upon empowering technical teachers & technicians using Information & Communication Technology.

- To utilize the SWAYAM platform and other resources for the delivery of training.

- To provide a variety of opportunities for training and exchange of experiences. Such as workshops, Orientations, learning communities, peer mentoring and other faculty development programmes.

- To support policy makers for incorporating training as per requirements.

RESOURCE PERSONS:

Academicians with expertise in related fields from reputed Higher Educational Institutions and Industries will deliver talks on various topics.

Eligibility:

Faculty from Engineering colleges and institutions, and R&D organizations with basic degrees including Electronics and Communication Engineering, Electrical and Electronics Engineering, Electronics and Instrumentation Engineering, Bio Medical Engineering, Computer science & Engineering, Information Technology, Artificial Intelligence, Etc...

FDP TOPICS

- Machine learning
- Data Mining
- Signal Processing and Communication
- Smart Grid Communication
- Internet of Things
- Communication Security
- Optical Technologies
- Embedded System
- IOT and E-health
- Quantum Comptuing
- Edge Computing for 5G/6G
- Re-Configurable Hardware

AICTE TRAINING AND LEARNING (ATAL) ACADEMY SPONSORED - ONLINE 6 DAYS FACULTY DEVELOPMENT PROGRAM

'SMART COMMUNICATION IN IOT: SECURITY & FUTURE APPLICATIONS AND POSSIBILITIES'

NO CHARGE FOR REGISTRATION, COURSE AND CERTIFICATION

WHO SHOULD ATTEND?

The Faculty Members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry and staff of host institution can attend the FDP.

GUIDELINES

- Eligible participants will be selected based on first come first serve basis and will be intimated by e-mail only.
- On the last day of the program an assessment test will be conducted for all participants.
- E-certificate will be awarded only to those participants having minimum 80% attendance and scored minimum 70% marks in the test conducted by the coordinator on the last day.

REGISTRATION DETAILS

- No Charge for Registration, Course and Certification

LINK FOR THE REGISTRATION:

Participants are requested to register compulsorily in the following link:

https://www.aicte-india.org/atal

ORGANIZING COMMITTEE

Chief Patron

REV. FR. DR. J. E. ARULRAJ,

FOUNDER & CHAIRMAN
DMI & MMI GROUP OF INSTITUTIONS.

Patron(s)

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Rev.Sr.S.Gnanaselvam DMI, Managing Trustee.
Rev.Fr.R.Antony Jerald MMI, Correspondent,SJCE.
Rev.Sr.Dr.K.Sandhiya DMI, Correspondent,
DFT Group of Colleges.
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Dr.L.M.Merlin Ph.D, Director - Quality Control, DFT Group of Institutions.
Rev. Fr. L. Savariappan., MMI, Administrator,
ST. Joseph College of Engineering.
Dr. T.Manvel Raj.,
M. Tech., Ph.D., MBA., Ph.D., CE.,
Principal, ST. Joseph College of Engineering.

Coordinator

Dr. P. Chinniah., Ph.D.,
Professor/ECE

Co-Coordinator

Mr. R. Dinesh kumar., M.E.,(Ph.D)
HOD/ECE

Steering Committee
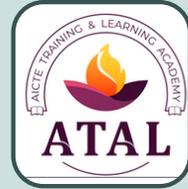
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AICTE TRAINING AND LEARNING (ATAL) ACADEMY
SPONSORED
SIX-DAYS FACULTY DEVELOPMENT PROGRAM
(ONLINE MODE)

on

"SMART COMMUNICATION IN IOT : SECURITY & FUTURE APPLICATIONS AND POSSIBILITIES"

24.02.2025 TO 01.03.2025 (6 DAYS)

ORGANIZED BY

Department of Electronics and Communication Engineering

ST.Joseph College of Engineering

Sriperumbudur, Chennai - 602 117
(RUN BY MMI FATHERS)

COORDINATOR

Dr. P. Chinniah., Ph.D.,
Professor/ECE
Contact : 9841301609
Email: ecehod@stjoseph.ac.in

CO-COORDINATOR

Mr. R. Dinesh Kumar M.E.,(Ph.D)
HOD/ECE
Contact: 8056665175

DAY 1
(24.02.2025)
6:00 PM TO 6:30 PM
Inaugural Session

CHIEF GUEST

MR. M.VELLAIPANDI
DIRECTOR GENERAL
GOVERNMENT OF INDIA
STQC DIRECTORATE,
MINISTRY OF ELECTRONICS &
INFORMATION TECHNOLOGY,
LODHI ROAD,
NEW DELHI,
INDIA.

DAY 2
(25.02.2025)
6:00 PM TO 7:30 PM
SESSION 3

TOPIC: ADVANCED COMMUNICATION OF IOT INTEGRATED EMBEDDED SYSTEM.

NAME OF THE EXPERT:

MR.SULAIMAAN A
R & D ENGINEER,
CAMWARE ELECTRONICS PVT LTD,
CHENNAI,INDIA.
YEARS OF EXP:09

DAY 3
(26.02.2025)
6:00 PM TO 7:30 PM
SESSION 5

TOPIC: SMART CITIES-COMMUNICATION SECURITY.

NAME OF THE EXPERT:

MR. C. CHOKKANATHAN
SCIENTIST G ,STQC, MINISTRY OF
ELECTRONICS AND IT.
CHENNAI,
INDIA.
YEARS OF EXP:32

DAY 4
(27.02.2025)
6:00 PM TO 7:30 PM
SESSION 7

TOPIC: RE-CONFIGURABLE HARDWARE FOR NEXT GENERATION COMMUNICATION.

NAME OF THE EXPERT:

MR K. SARAVANASUBRAMANIAN
SCIENTIST D
VLSIDAC, HYDERABAD,INDIA.
YEARS OF EXP:15

DAY 5
(28.02.2025)
6:00 PM TO 7:30 PM
SESSION 9

TOPIC: MACHINE LEARNING BASED INTELLIGENT NAVIGATION SYSTEM

NAME OF THE EXPERT:

DR.M. MALLESWARAN
HEAD - ECE,
UNIVERSITY COLLEGE OF
ENGINEERING KANCHEEPURAM,
TAMILNADU,INDIA.
YEAR OF EXP: 30

DAY 6
(01.03.2025)
2:00 PM TO 3:30 PM
SESSION 11
TOPIC: SECURITY TESTING CHALLENGES IN POST QUANTUM IMPLEMENTATION.

NAME OF THE EXPERT:

MR. SURESH CHANDRA,
SCIENTIST 'G',
MINISTRY OF ELECTRONICS AND
INFORMATION TECHNOLOGY,
NEW DELHI,INDIA.
YEARS OF EXP:35

6:30 PM TO 8:00 PM
SESSION 1

TOPIC: INNOVATIVE INSIGHTS INTO SIGNAL PROCESSING AND COMMUNICATION .

NAME OF THE EXPERT:

DR. R.MURUGAN
ASSISTANT PROFESSOR - ECE
NIT, SILCHAR,ASSAM,
INDIA.
YEARS OF EXP:15

7:30 PM TO 9:00 PM
SESSION 4

TOPIC: SECURED TRANSMISSION THROUGH OPTIMIZED TRUSTED CODE MATCHING IN SMART GRID COMMUNICATION

NAME OF THE EXPERT:

DR.RAVI SAMIKANNU
ASSOCIATE PROFESSOR-ECTE
BOTSWANA INTERNATIONAL
UNIVERSITY OF SCIENCE AND
TECHNOLOGY,PALAPYE,
BOTSWANA.
YEARS OF EXP:20

7:30 PM TO 9:00 PM
SESSION 6

TOPIC: INTERNET OF THINGS AND ITS APPLICATIONS.

NAME OF THE EXPERT:

DR. G. KULANTHAIVEL
PROFESSOR OF ECE & DEAN
(INTERNATIONAL AFFAIRS)
NITTTR, CHENNAI,
INDIA.
YEARS OF EXP:30

7:30 PM TO 9:00 PM
SESSION 8

TOPIC: OPTICAL TECHNOLOGIES FOR NEXT GENERATION COMMUNICATION.

NAME OF THE EXPERT:

DR.M.GANESH MADHAN
PROFESSOR - ECE ,
MIT CAMPUS,
ANNA UNIVERSITY,
CHENNAI,INDIA.
YEARS OF EXP:27

7:30 PM TO 9:00 PM
SESSION 10

TOPIC: IOT AND E-HEALTH.

NAME OF THE EXPERT:

DR. P. CHINNIAH
PROFESSOR - ECE
ST. JOSEPH COLLEGE OF
ENGINEERING, SRIPERUMBUDUR,
TAMILNADU,INDIA.
YEARS OF EXP:25

3:30 PM TO 5:00 PM
SESSION 12

TOPIC: EDGE COMPUTING FOR 5G/6G.

NAME OF THE EXPERT:

MR.RAM SHAIRAM DURAI
R&D ENGINEER
 HITACHI ENERGY TECHNOLOGY
SERVICES PVT LTD,
CHENGALPET,TAMIL NADU,INDIA.
YEARS OF EXP:10

8:00 PM TO 9:30 PM
SESSION 2

TOPIC:DATA MINING

NAME OF THE EXPERT:

DR ILIAS S.KOTSIREAS
PROFESSOR
DEPT.OF PHYSICS AND COMPUTER SCIENCE,
WILFRID LAURIER UNIVERSITY,
CANADA.
YEARS OF EXP:25

5:00 PM TO 6:30 PM
SESSION 13

TOPIC:ADVANCEMENTS IN IOT SECURITY

NAME OF THE EXPERT:

DR.VAMSHI KRISHNA PALA KURTHI
SCIENTIST "E"CENTER FOR
DEVELOPMENT OF ADVANCED
COMPUTING ,HYDERABAD,
INDIA.
YEARS OF EXP: 18

6:30 PM to 7:30 PM Online test & feedback
7:30 PM to 8:00 PM Valedictory Session