



# S.A. ENGINEERING COLLEGE

(An Autonomous Institution Affiliated to Anna University Chennai)

Accredited by NBA, NAAC 'A' Grade & ISO 9001:2015 Certified Institution



## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

M.E. COMMUNICATION SYSTEMS  
CHOICE BASED CREDITS SYSTEMS

**ADMISSION**

**OPEN**

### HIGHLIGHTS

- Has highly qualified and dedicated faculty members
- Recognized Research centre for doing Ph.D, M.S. (by research) under Anna University, Chennai.
- Research projects and Consultancy projects from esteemed organizations such as ISRO, CVRDE, DST, SERB, etc
- Organizes International Conference every academic year On going funded projects from ISRO, AICTE, etc.
- Department library has more than 1400 books and back volumes



**A** two-year PG program offered to provide a broad knowledge and practical experience in Communication Systems with advanced topics in Antenna, Signal processing, Wireless with six areas identified for Professional electives handled by experienced Ph.D. qualified faculty members. The program boasts of an exclusive well equipped lab with state-of-the-art CST Studio Suite, MATLAB and computing that is available to student use during regular and beyond regular course schedule. Students have access well equipped library with quality textbooks & reference books, and e-journals including IEEE, Elsevier, Springer, and others. The program allows students to complete their Master's thesis internally under the guidance of our faculty or externally through Industry experts with a strong emphasis on research and development.



### Program structure

In the first and second semester, students focus on their specialization which they choose according to their personal interests. The third semester is reserved for the Master's thesis and the subsequent final oral examination.



### Funded Research / Sponcered Events through



Poonamallee-Avadi Main Road, Thiruverkadu, Chennai-600077.  
Phone: 044-26801999/2680 1499 Fax: P 044-2680 1899  
Website: WWW.saec.ac.in Email: saec@saec.ac.in

CONSELLING CODE 11114

# M.E-Communication Systems

## Regulation – 2020A

### Choice Based Credit System (CBCS)

CURRICULUM – R - 2020A

#### SEMESTER I

- 1 MA2103A Applied Mathematics for Communication Engineers
- 2 EC2101A Advanced Radiation Systems
- 3 EC2102A Advanced Digital Communication Techniques
- 4 EC2103A Advanced Digital Signal Processing
- 5 EC2104A Optical Networks
- 6 ELECTIVE I
- 7 EC2105A Communication Systems Laboratory

#### SEMESTER III

- 1 EC2301A Massive MIMO and mm Wave Systems
- 2 ELECTIVE 3
- 3 ELECTIVE 4
- 4 EC2302A Project Work Phase I

#### SEMESTER I - PROFESSIONAL ELECTIVE I

- 1 EC2106A Advanced Satellite Communication
- 2 EC2107A Wireless Communication Networks
- 3 EC2108A Real Time Embedded Systems
- 4 EC2109A Multimedia Communications
- 5 EC2110A Detection & Estimation of Communication Signals

#### SEMESTER III - PROFESSIONAL ELECTIVE III

- 1 EC2303A Speech Processing and Synthesis
- 2 EC2304A Network Routing Algorithms
- 3 EC2305A High Speed Switching and Networking

#### SEMESTER II

- 1 EC2201A Advanced Wireless Communication
- 2 EC2202A Microwave Integrated Circuits
- 3 EC2203A Electro Magnetic Interference and Compatibility
- 4 EC2204A Cognitive Radio Networks
- 5 EC2205A IPR and International Relations
- 6 ELECTIVE 2
- 7 EC2206A RF and Optical Communication Laboratory

#### SEMESTER IV

- 1 EC2401A Project Work Phase II

#### SEMESTER II - PROFESSIONAL ELECTIVE II

- 1 EC2208A Communication Network Modelling and Simulation
- 2 EC2209A VLSI for Wireless Communication
- 3 EC2210A Broadband Access Technologies
- 4 EC2211A Adhoc and Sensor Networks
- 5 EC2212A WDM Networks

#### SEMESTER III - PROFESSIONAL ELECTIVE IV

- 1 EC2306A Advanced Antenna Design
- 2 EC2307A Cryptography and Network Security
- 3 EC2308A Advanced RADAR and Navigation Systems

The students have to conduct an individual R&D project in the framework of a university research project to improve their scientific capabilities. The Universities of Applied Sciences traditionally carry out R&D projects in cooperation with external companies.

