



You Choose, We Do It
St. JOSEPH'S COLLEGE OF ENGINEERING

St. Joseph's Group of Institutions
OMR, Chennai-119



Counselling Code :1317

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

College Profile:

- NAAC accredited with grade A+ (Highest score: 3.46)
- All UG courses accredited by NBA
- 95% Placement in top tire companies
- Recognized by DSIR, Ministry of science and Technology as a scientific and Industrial Research organization (SIRO)
- Bagged 1395 University ranks with 52 Gold medals and 49 silver medals
- Secured No.1 position with highest number of ranks in May 2019
- Remote center for ICT courses through NITTTR, Chandigarh and IIT Bombay
- Bagged Anna University IPR Excellence award
- Awarded as South Asia's Best 25 preparation centers for higher education 2016-2018 by Cambridge University



Highest
Score: 3.46



NIRF Rank:
160



Since 2003

We prepare for

Cambridge

English Qualifications

Department Brochure



ABOUT ECE DEPARTMENT

- 25 years old department established in 1994
- Courses Offered
 - Under Graduate - B.E (E.C.E): 180 Students
 - Post Graduate – M.E (Applied Electronics) : 18 Students
 - Ph.D programme
- Courses are accredited by National Board of Accreditation (NBA) and affiliated to Anna University, Chennai.
- Anna University recognized Nodal Centre to do PhD program
- Heading towards Autonomous status with Anna University affiliation
 - Degree awarded by Anna University
 - Academic freedom to have continual assessment
 - More refined syllabus towards industrial needs
 - Provides more opportunities for doing internship in leading industries

SCOPE OF ECE

The growing nexus between Electronics industry and Digital technology creates more employment opportunities for Electronics engineers. ECE paves the way to work in Public Sector units.

Career Opportunities		Research Opportunities
ISRO BHEL BEL BSNL AirForce/ Navy	TESLA INTEL APPLE Microsoft Samsung Sony Dell	VLSI Design Design of Robotics Artificial Intelligence Digital Image Processing 5G Networking Internet of Things

INFRASTRUCTURE

The department is well equipped with laboratories, nine classrooms and one smart classroom

- Engineering Practice Lab
- Analog and Digital Circuits Lab
- Circuits design & Simulation Lab
- Linear and Digital Integrated Circuits Lab
- Optical and Microwave lab
- Microprocessor & Microcontroller Lab
- Digital signal Processing Lab
- Communication Network Lab
- Communication Systems Lab
- VLSI design Lab
- Research and Development Lab
- Embedded Lab



FACULTY DETAILS

Well qualified faculty with average experience of 20 years

- 15** Doctorates | **8** Faculty pursuing Ph.D | **7** Anna University recognized Supervisors
20 Scholars doing Ph.D under their guidance | **9** Scholars completed Ph.D under their guidance

Modernization and development of VLSI design lab for the integration of image processing DSP and IOT application. AICTE sponsored 2017 - 2018

Sanctioned amount : **Rs. 13,67,000**

Consultancy Project with CDCE title "PANEL CRASH PAD LOWER ASSEMBLY AND POKAVOKE FIXTURE"

Sanctioned amount : **Rs. 3,26,505**

PUBLICATION DETAILS

Staff members have published their research work in SCI, Scopus and UGC journals. Management provides financial support for publishing journals and for attending national and international conferences.

- | | |
|---|--|
| <ul style="list-style-type: none"> Applied Soft Computing Neural Computing and Applications International journal of Fuzzy systems AEU-International Journal of Electronics and Communications Mobile Networks and Applications Biocybernetics and Biomedical Engineering | <ul style="list-style-type: none"> Ultrasound quarterly Results in Physics Elsevier Journal of Experimental and Theoretical Artificial Intelligence, Optik International Journal for Light and Electron Optics Chinese optics letters The Computer Journal |
|---|--|

UNIVERSITY RESULTS

Batch	Students enrolled	Graduated	
		No.	%
2015-2019	193	176	91.19
2014-2018	216	195	90.27
2013-2017	209	189	90.43
2012-2016	222	201	90.54

141 University Ranks



STUDENTS AWARDS

Topper of ECE Department	A.P.Baulraj Award (Trust Award)
Anna university (Gold medalist)	50,000/-cash prize
Anna university rank holders	25,000/-cash prize
Subject Toppers	Meritorious Certificate
100% Attendance	Appreciation Certificate
Best Outgoing Student	Certificate and shield



PLACEMENT TRAINING AND CAREER RECORDS

Placement Support Measures

Extensive training in Technical, Aptitude, Quantitative and Verbal skills is imparted to the students from first year onwards.

semester	Activity
I	Communication skill Enhancement
II	Aptitude Crash Course
III	British English Certification Training
	C Programming Training
IV	Datastructures Training
V	Department Specific Value Added Course
	Training to crack dream companies(Minimum of 4.5 Lakhs / Annum)
VI	Advanced Datastructures Training
	Training to crack super dream companies(Minimum of 10 Lakhs / Annum)
	AMCAT Assessment
VII	Aptitude Training
	Datastructures & Algorithm Training
	Company specific coding skill Training
	CoCubes Online Assessments
	AMCAT Assessments
	Mock Interview
	Company specific Aptitude Training

Value Added Courses and workshops

are conducted in the odd semester of every academic year in order to bridge the gap between industrial needs and curriculum. It enriches the students with learning skills, technical knowledge and creativity in modern technical developments.

- | | |
|--------------------|-------------------------|
| • C, C++ | • IoT using Arduino |
| • CISCO Networking | • ML using Raspberry Pi |
| • Embedded Systems | • Robotics |



Online certification courses: Conducted in collaboration with IIT Bombay to spread IT Literacy among the students. It promotes the learning of Free and Open Source Software through an Audio Video teaching tool. Students are motivated to do courses on C/C++, Scilab, Python. Students receive e IIT certificate after clearing the test. Our College received an appreciation Certificate from the team of Spoken Tutorial projects, IITBombay- MHRD, Govt of India for making outstanding contribution of using ICT based teaching and learning methodology for our students.

Guest Lectures: Delivered by eminent persons from industries, senior professors from reputed institutions and scientists from leading research organizations. Every semester three guest lectures are conducted by experts.

Our students have a good record of placement in product based and software companies.

Core / Product Companies	IT Companies	
BOSCH	Accenture	Myslate
Full Creative	ADOBE Systems	Ninjacart
MU SIGMA	Amazon	NTT Data
NOKIA Networks	CGI	Polaris
ODESSA QA	Cognizant	IBM
SANMINA SCI Ltd	Duta Softwares	Prime Focus
SOLITON	DXC Technologies	Skill-Lync
Thoughtworks Technologies Value Labs	E-Con	Standard Chartered
VVDN	Excellencia	Sutherland
WHIRL Data Lab	Global Soft	Tata Communication
ZOHO	HCL	TCS
Avalanch Technology	Hexaware	Zoomrx
Avlon Technologies	HTC	Tech Mahindra
Data Pattern	Infosys	Torry Harris
Flextronics	Latent view Analytics	TVS
Multicoreware	L&T	UST Global
Sosaley Technologies	Masteck Infotrellis	Valued Epistemics
Mphasis	Mind TreeM	Verizon
	Odyssey Technology Ltd	Wipro



Salary Package 3.5 to 23 Lakhs per Annum

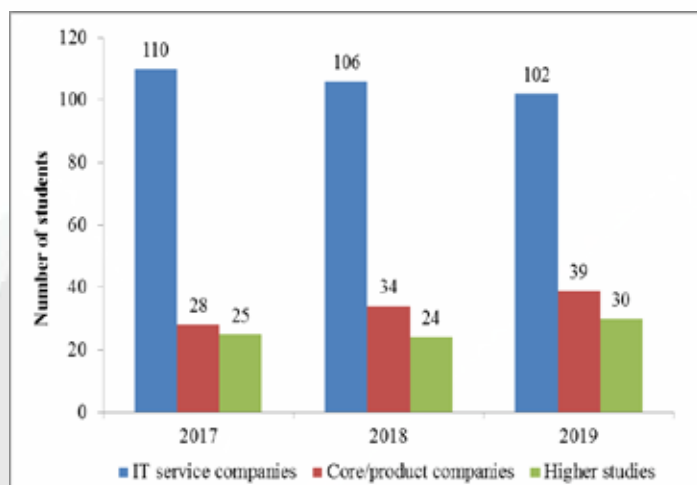
Higher Studies

Our Advisory bureau for higher studies (ABHS) plays a significant role in sending students to reputed institutes in India and abroad for pursuing higher studies. ABHS guides students to crack admission in U.S, Europe, U.K and Australia. Students are trained for GRE, TOEFL, IELTS, GMAT, CAT, GATE and Business English Certificate Courses.



Foreign Universities		Indian Institutes/ university
Stanford University	University of technology, Sydney	NITs IITs IISC
University of Massachusetts	Arizona State University	
Carnegie Mellon university	North Carolina State University	
University of Texas	National University of Singapore	
Leeds University	NJIT	
University of West Virginia	University of West Virginia	
Leeds University (UK)		
North Carolina State University		
Illinois Institute of Technology		

ELITE ALUMNI



 Mr. M Guhan (2004-2008) Vice President Strategy for MassMutual Boston, Massachusetts, U.S.A	 Ms. Srilakshmi Pokkunuri (1999-2003) Technology Manager Accenture, Toronto, Canada	 Mr. Sali Sethu (2001 - 2005) Manager, Supply Chain and Logistics, Dubai
 Ms. Reshma Ann Mathews (2011 - 2015) Electrical Engineer, Medtronic, New Hampshire, USA	 Ms. Harini Balachandran (2010 - 2014) Program Manager, Microsoft Seattle, Washington	 Mr. S Karthikeyan (2002 - 2006) Founder & CEO CS Research LABS, Chennai

Industry Partners: : MoUs with Stigmata Techno Solutions, Pantech Prolabs India Pvt. Ltd., Averz Technologies and Vi Micro Systems Pvt. Ltd has played a key role in technological upgradation, innovation and a sense of competitiveness amongst our students.

Industrial Visits are organized once in a semester. This provides exposure of industrial atmosphere to the students and helps them in industrial placement.

- Indian Space Research Organization
- National Atmospheric Research Laboratory
- Neyeli Lignite Corporation
- Bharath Sanchar Nigam Limited
- Manatec Electronics
- Stigmata Techno Solutions
- Retech Private Solutions Private Ltd
- Eye Open Technologies

Inplant Training and Internship

To enhance learning skills, technical knowledge, creativity, our students are encouraged to do in-plant training and internship.



NSS

Two units of NSS are functioning well with a volunteer's strength of 200. Annual Camps are conducted in the adopted village. NSS unit-1 adopts Pannur and NSS Unit -2 adopts Susaipuram villages near Sunguwar chathiram.

CLUB ACTIVITIES

Non-formal English Club is a unique Club for the first year Hostel students who are from Tamil medium, vocational groups, rural areas and other students who find it difficult to speak in English. This club fully organized by second and third year students in the hostel for improving their communication skills to speak fluently in English but also for equipping themselves for placements in good companies

E- WIZARD Club : (Win the fear of attempt): Platform to encourage students to participate in technical quiz, mini projects and to present papers in competitions.

Chapter Activities

IEEE Student Branch has six active IEEE societies, Broadcast Technology, Antenna and Propagation, Engineering in Medicine and Biology, Industrial Electronics, Electron Devices and Communication Society



National level Symposium (JETSIGNUM)

Technical events are organized by our students to develop their interpersonal skills. To motivate participants, merit certificates and a cash award of Rs. 50,000 are awarded. Our students have participated in symposiums organized by reputed colleges in India and won prizes in various events. The management encourages students to participate in symposiums by providing registration fee and DA.



Optical Society of America(OA) is the first student chapter among the Engineering Colleges in Tamil Nadu.

- Every year OSA Student chapter receives Annual Grant of 1500 USD for conducting special events.
- Every year a potential OSA student member attends Students Leadership Conference with full sponsorship (Rs 2 Lakhs) to meet travel expenses boarding and lodging expenses.



Sponsored FDP/Workshop Organized Faculty Development Programon

- o Computer networks
- o VLSI Design
- o Wireless Communication

Workshop on

- o Simulation of Communication Networks
- o Embedded Systems
- o Cognitive Radio Technology
- o IOT using Matlab
- o Machine learning and Image Processing Using Python

Student Achievements (2018-2019)

Our students are encouraged to participate in various competitions

CTD-2018- Best Project	First Prize- Rs.20000/-
CTD-2018- Best Paper	First Prize- Rs.15000/-
ICT Academy-Youth Innovator Award-2018	Top Ten Finalist
Smart India Hackathon-2019	First Prize- Rs.1 Lakh
Chhatra Vishwakarma Awards – 2019	Best Project
World Robotic Championship	First Prize



Sports Achievements



S.ANISHA
20th YOUTH NATIONAL VOLLEYBALL CHAMPIONSHIP
3rd place with cash prize of 30,000



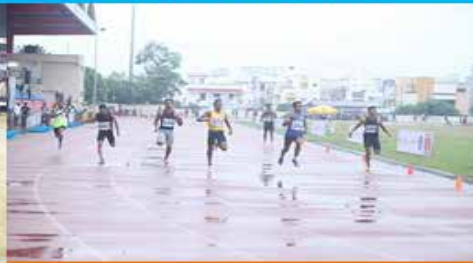
S.H.SULFA FATHIMA
65th YOUTH NATIONALS BASKET BALL CHAMPIONSHIP 15th place with cash prize of 10,000



S.H.SULFA FATHIMA
32nd JUNIOR NATIONALS BASKET BALL CHAMPIONSHIP 1st place with cash prize of



S.ANISHA
21st YOUTH NATIONAL VOLLEYBALL CHAMPIONSHIP
3rd place



R.C.GANESH
32nd TAMILNADU JUNIOR ATHLETICS CHAMPIONSHIP
1st PLACE IN 200M



R.C.GANESH
2018 ALL INDIA INTER UNIVERSITY PARTICIPATION-REPRESENTING AN UNIVERSITY

St.Joseph's Manidhaneyam Academy

For civil services and defence services provides training to our IAS aspirants. 42 students of ECE department are registered under the academy. The first batch will take up their preliminary exams during May 2020.

St. Joseph's Defence Academy provides a platform to fulfil the dream and need for students to join Defence service. It aims to develop amongst its students a competitive attribute along with strong academic base with quality teaching and individual attention. The academy organises seminars and workshops with the help of defence officers and experts in soft skills to train the Defence aspirants to think, feel and express like Defence officer.

Entrepreneur Development Cell

Guides aspirants to promote their ideas successfully into products through various cells, forums and Industry. 25 students of ECE department are involved in ED cell activities. They are motivated to participate in various Business Idea Competitions and have secured prizes.

NGO Activities

Our visionary chairman desired to invoke a service mind in our students by encouraging visits to orphanages, old age homes and homes for children with Cerebral Palsy.

