



We Make You Shine

St. JOSEPH'S INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

St. Joseph's Group of Institutions

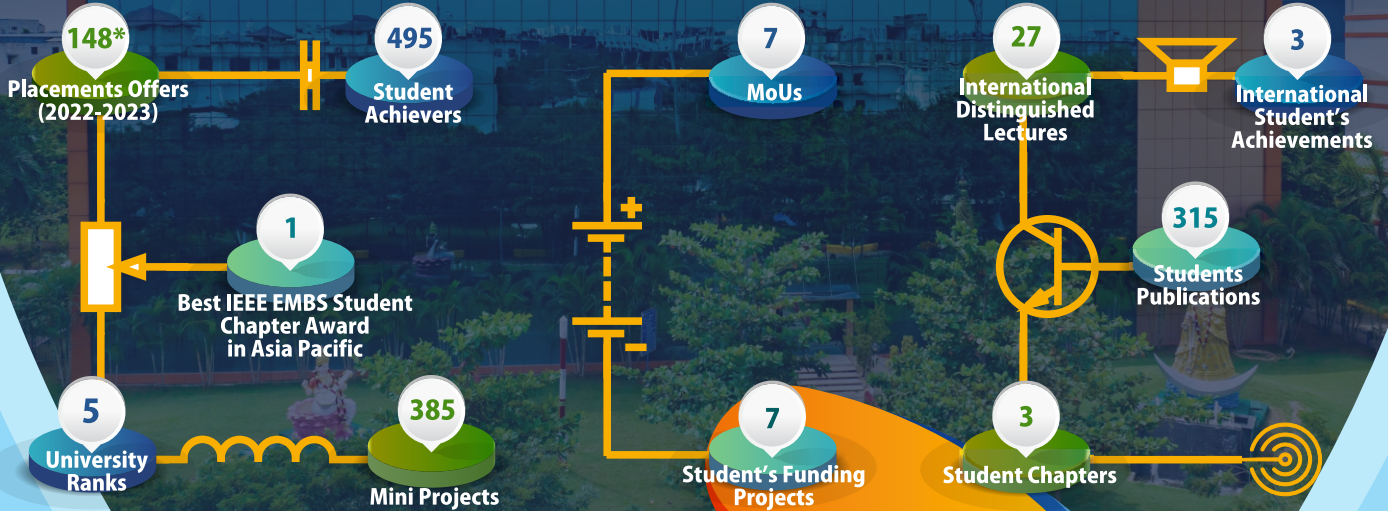
OMR, Chennai - 119



Approved by AICTE, New Delhi, Permanently Affiliated to Anna University



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



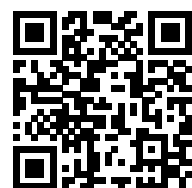
DEPARTMENT BROCHURE 2023

For Admissions Contact

9940104881
9940104882

Connecting the world with Technology

Reach us to Innovate with Excellence



Scan QR Code for our website

Website Link : http://www.stjosephstechnology.ac.in/web/ece_new/index.php

SCOPE OF THE DEPARTMENT

ECE Utilizes science with mathematics applied to solve problems

Researching
Designing
Developing
Testing
of Developed
Electronics

What is
ECE?

Integration
of
Electronics
and
Communication

Electronics
Circuits and systems
and
Communication
Systems

PLACEMENT OPPORTUNITIES

Domains

- IT Sectors - CTS, TCS, Wipro, Paypal, etc
- Telecom Sectors - BSNL, Airtel, Jio, etc
- IC Design Sectors - Texas Instruments, Qualcomm, Cypress Semiconductors
- Software Sectors - Adobe Systems, MATLAB, etc
- Government Sectors - ISRO, DRDO, etc
- Core Industries - Honeywell, ABB Corp
- Optical Industries - Leica, Carl Zeiss, etc
- Processor Design based on AI - Intel Corporation, Atmel, Microchip etc.

Why ECE?

HIGHER STUDIES OPPORTUNITIES

Major Areas

- Analog and Radio Frequency Circuits
- Communication & Signal Processing
- Computer & Digital Systems
- Networking
- Image Processing
- Optical Communication
- Robotics
- VLSI Design
- Wireless Communication
- Antenna and Wave Propagation
- Transmission Lines

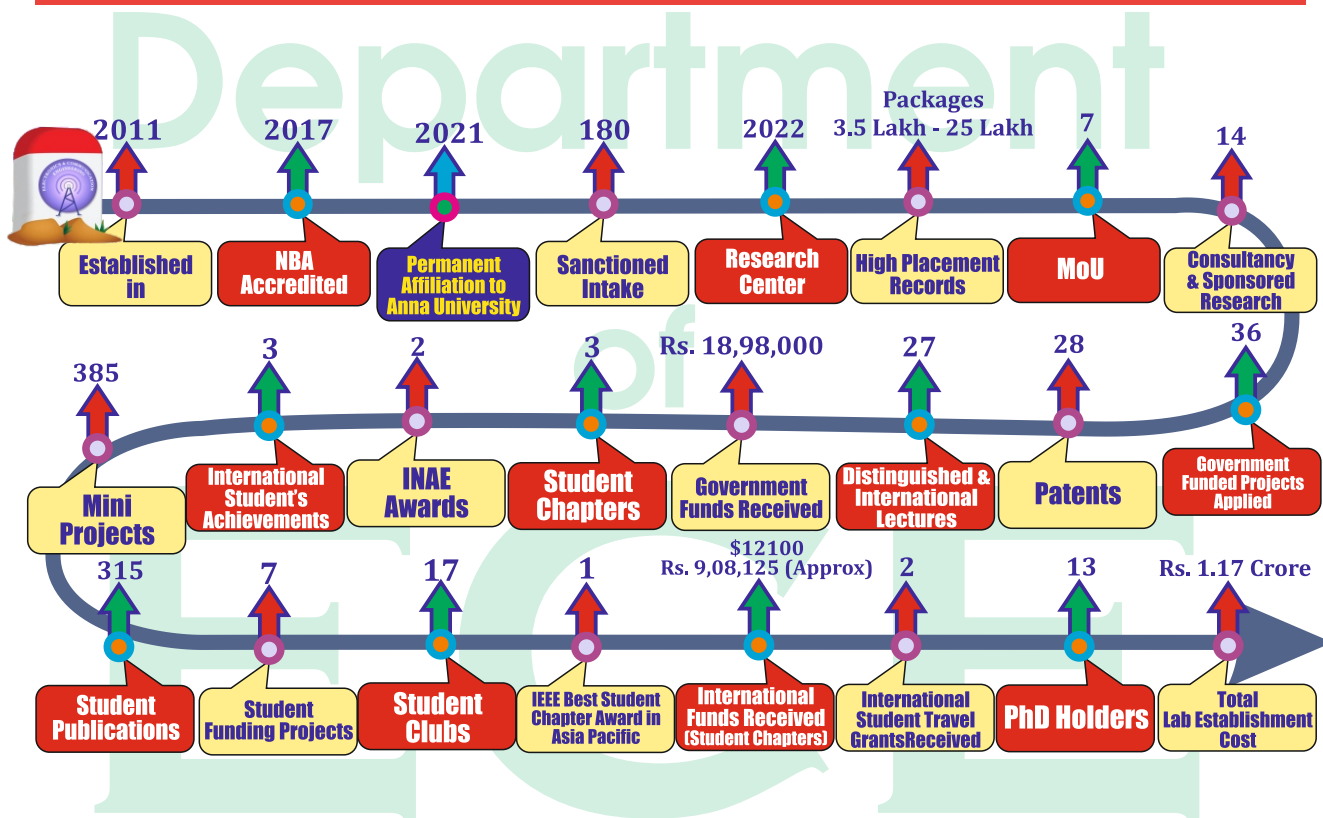
DEPARTMENT HIGHLIGHTS

VISION

To come forth as an eminent department in the field of electronics and communication engineering, research for providing ethical resource persons to serve the industry and society with technical excellence.

MISSION

- To provide the best resources in teaching, learning and other educational activities which will train the student to attain his or her fullest potential in the field of Electronics and Communication Engineering.
- To inculcate technical knowledge, leadership qualities, team work and ethical practices in students so as to meet the expectations of the industry as well as the society.
- To organize exclusive courses, conferences, seminars on the current technological developments which will be an added benefit for bringing out the various talents in the students and faculties.
- To sustain connectivity with industries to get on par with the recent technologies and research.
- To foster career improvement through placements, higher education and entrepreneur skills by continuous training & guidance.



FACULTY

3 Professors

7 Associate Professors

19 Assistant Professors

13 PhD Holders

7 Doing PhD

90% High Faculty Retention

Highly Qualified and Well Experienced Faculty members

Rs. 93,000/-

AICTE ATAL SPONSORED (Government of India)

ONLINE FACULTY DEVELOPMENT PROGRAM ON "SENSORS APPLICATION IN NAVIGATION OF MARINE AND DEFENCE ENVIRONMENT"

Rs. 50,000/-

INDIAN COUNCIL OF MEDICAL RESEARCH (Government of India)

FOUR DAYS NATIONAL LEVEL FACULTY WORKSHOP ON ENGINEERING IN DIABETOLOGY

Rs. 40,000/-

BOARD OF RESEARCH IN NUCLEAR SCIENCES (Government of India)

THREE DAYS SEMINAR ON "BIOLOGICAL EFFECTS OF ELECTROMAGNETIC FIELDS AND RADIATION"

Rs. 3,82,500/-

Pradhan Mantri Kaushal Vikas Yojana (PMKVY)

ENGINEERING SKILLS DEVELOPMENT PROGRAMMES "CCTV INSTALLATION"

GOVERNMENT FUNDS RECEIVED

353

Workshops & FDPs

NPTEL Courses

67

159

Publications (Scopus, SCI, IEEE, Elsevier, Springer)

Conferences

162

Student's Achievements

INAE Award

Innovative Student Project Award (2017)
Youth Conclave Award (2019)

2



Student Project Funding

IEEE Student Funding Project (2018 & 2020)
Rs. 13,000/-

5



TNSCST Student Project (2020,22,23) Scheme
Rs. 22,500/-



Best Regional Chapter Award

IEEE EMBS Student chapter received the award for the best regional IEEE EMBS Student Chapter in Asia Pacific.

Best Poster

Best Poster Award in Russia (2018)

1



United Nations Conference

1 Place - Ecliptic Model United Nations Conference



Travel Grant

IEEE Photonics Society Travel to US for attending Conference \$2000 (2017) \$2500 (2019)

2



Training Programs

Leadership Roles in Professional Body activities

Training for Defence & Civil Services

Higher Studies Career Counselling GRE, IELTS, TOEFL, GATE etc

NGO Visits

Special Activities

Special Technical Placement Training for Core and Product Companies

Certification Programs (Workshops & Value Added Courses)

16 College Level Clubs Events conducted monthly winners are given with

Cash Prizes

Travel Grant for Students attending National & International Conferences

Monetary Support

Gift for Event Winners during Achiever's Day

TA, DA & Registration Fees for Extra Curricular & Cocurricular Activities

Student's Benefits

MSME INNOVATIVE SCHEME

IDEA HACKATHON 2022

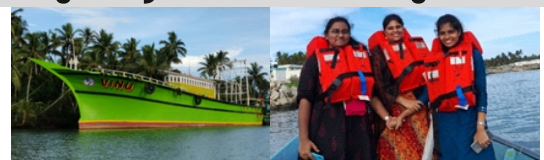
GRANT RECEIVED

Rs. 12.5 Lakhs



PROJECT TITLE

Passage Way Devices for Fishing Vessels

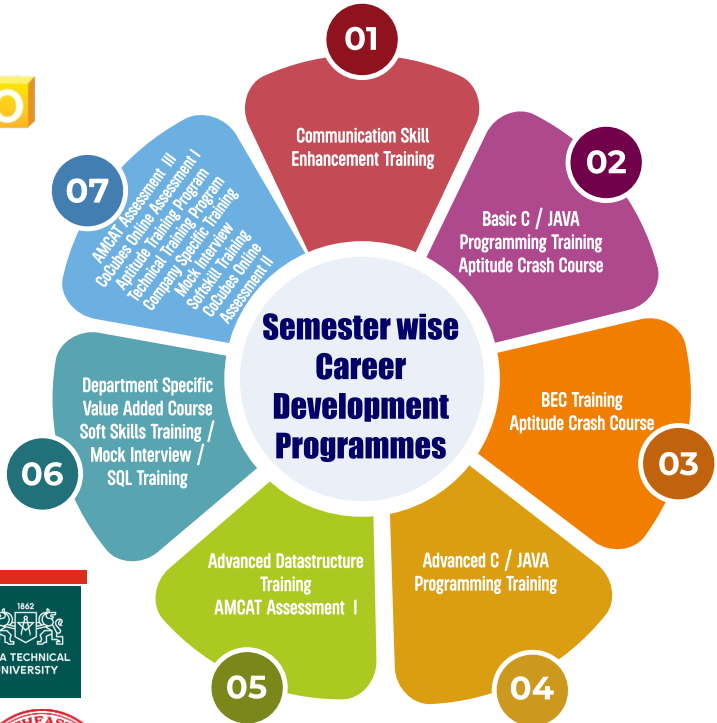


Placement and Training

Department Placement Offers
2019-2023 Batch

148*

OUR RECRUITERS



Higher Studies



	Abroad	India
Students Count	36	43

ELITE ALUMNI



2011-2015
Mr. Ajin M
Clinical DB Analyst,
CTS Beijing, China



2011-2015
Ms. Kanimozhi D
Officer,
Chennai Petroleum
Corporation Ltd.



2011-2015
Mr. Divakar Manohar
Security Analyst,
NTT Data Canada
48.5 Lakhs Per Annum



2011-2015
Mr. Purushothaman
Consultant
AstraZeneca India Pvt Ltd



2012-2016
Mr. Magesh M
Senior Engineer,
Qualcomm,Hyderabad
21.5 Lakhs Per Annum



2012-2016
Mr. Niroman Joe Aro
Modem Systems Test Engineer,
Qualcomm,USA
72 Lakhs Per Annum



2012-2016
Mr. B. Udayakumar
Founder, Director,
Holymoly Pvt. Ltd



2013-2017
Ms. K. Snigdha
Manager,
Reserve Bank of India



2013-2017
Mr. Vijay Prakash
Engineer,
Blue connections IT
28 Lakhs Per Annum



2013-2017
Mr. T. Raghav Simha
Design Verification Engineer,
Nations Innovation
Technologies



2013-2017
Mr. V. Karthikeyan
Probationary Officer,
Canara Bank



2013-2017
Ms. S. Nivetha
Associate,
State Bank of India,
Myladuthurai



2013-2017
Mr. John Maria Vivian
DSP software Engineer,
Path Partner Technology



2014-2018
Mr. Christen. M
Research Assistant
Max Planck Institute of
Informatics Germany



2014-2018
Mr. B Janardhanan
Founder & CEO,
Dreamstealers



2014-2018
Mr. Vignesh R
Electrical Control Engineer,
BACA Systems, USA
30 Lakhs Per Annum



2016-2020
Mr. V. Gowtham
Software Engineer II,
Paypal
28 Lakhs Per Annum



2016-2020
Ms. Maya Mishra
Associate IT Analyst &
Certified Brand Advocate
Caterpillar Inc.

INDUSTRIAL VISITS

The leading industries visited by our department students every semester are:



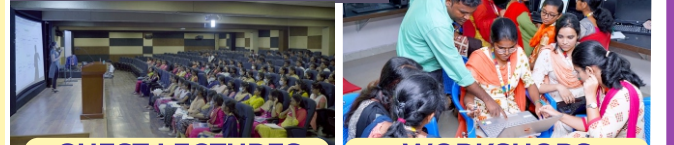
IN-PLANT TRAINING AND INTERNSHIP

The pioneer industries which students have visited are

2018-2019	123
2019-2020	227
2020-2021	255
2021-2022	261
2022-2023	273



INDUSTRY INSTITUTE INTERACTION



GUEST LECTURES

WORKSHOPS



- MIT Square Group of Companies
 - Asimov Global Technologies
 - CII – TITAN Model Career Centre
 - PANTECH PROLABS INDIA Pvt. Ltd,
 - RETECH Solutions Pvt Ltd.
 - TANSTIA
- INTERNSHALA**

GUEST LECTURES

7 MEMORANDUM OF UNDERSTANDING

MoUs



ISRO-IIRS

Nodal Centre for Indian Space Research Organisation - Indian Institute of Remote Sensing (ISRO-IIRS)



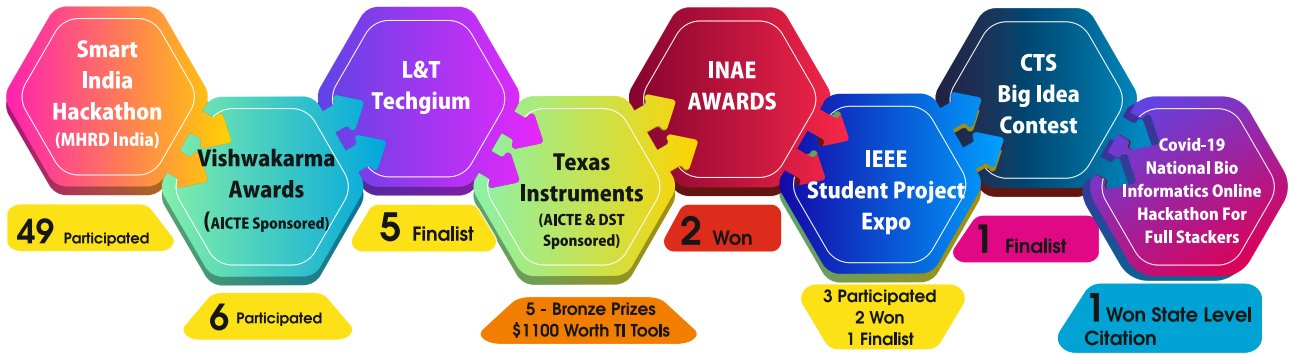
Infrastructure Facilities

LABORATORIES IN THE DEPARTMENT

- Engineering Practices Lab/Circuits & Devices Lab
- Electronics Lab/Circuits Simulation & Integrated Lab
- Analog & Digital Lab
- Linear & Digital Integrated Lab
- Microprocessor & Microcontroller Lab
- VLSI/DSP Lab
- Computer Networks/Communication Systems Lab
- Embedded System Lab
- Optical & Microwave Lab
- Research & Development Lab
- Project Lab
- Centre for Excellence Lab



NATIONAL LEVEL TECHNICAL COMPETITIONS



PROFESSIONAL BODIES FOR STUDENTS

IEEE

Total Members - 129
 Total Grants Received
Rs. 7,88,899/-
 Activities : Workshops, STTP, Conferences, Distinguished Lectures

IETE

Total Members - 60
 Total Grants Received
Rs. 8,550/-
 Activities : Workshops, Seminars

ISTE

Total Members - 30
Inaugurated in 2020



- Dr. Marius George Linguraru**
Principal Investigator, Children's National Medical Center, Washington DC, USA
- Mrs. Emi Yano**
IEEE Region -10 (Asia Pacific)
Women in Engineering Chair, Japan
- Dr. Shilong Pan Professor**
Director, Institute of Optoelectronic Engineering, NUAA, China.



Lock Down Activities

AICTE-ATAL SPONSORED ONLINE FACULTY DEVELOPMENT PROGRAM ON "SENSORS APPLICATION IN NAVIGATION OF MARINE AND DEFENCE ENVIRONMENT"

Sponsored Amount **Rs. 93,000/-**

"PENMAI ENNUM VALIMAI" Awareness Program for School Students

3 Days Hands on Workshop on IOT by IEEE

"5 DAYS EVENT SERIES ON INTERNATIONAL WOMEN'S DAY"

"IEEE ADSF SIGHT'S POTENTIAL PROJECTS" Student Interaction Session

23 Eminent Internationally Acclaimed Speakers from 7 Countries

Webinar	80	1	Club Activity
FDP	6	1	Mini Project Expo
Workshop	9	5	Guest Lecture
Student's Development Prog.	4	1	IIC Event
Polytechnic Event	1	4	Placement Training Programme
School Event	31	3	Music Competition & Pattrimandram

Total Events - 143

IEEE INTERNATIONAL WEBINAR SERIES SAVANT I, II & III

NGO VISITS

St. Joseph's விடிவெள்ளி,
Non-Governmental Organization.

NGO homes	94
Orphanages	81
Old Age Homes	12
CP Children Homes	9



CIVIL SERVICES

34 Students - St. Joseph's Civil Services Academy

3 Students - Trained under Lt. Easen St. Joseph's Defence Officers Academy

DEFENCE SERVICES



Ms. Tamizhvani M, (2015-2019 Batch, ECE)
Flying Officer - Pilot in the Indian Airforce.

Products Developed by Dept. Students



E-IIT SPOKEN TUTORIAL

C,C++	764
Python	436
Java	267
Arduino	147



ICT, MHRD, Govt. of India Initiative
IIT - Bombay
ECE Students trained

ENTREPRENEURSHIP DEVELOPMENT CELL

"Entrepreneurship Awareness Camp"

Sponsored by Department of Science and Technology-
National Implementing and Monitoring Agency for Training
(DST-NIMAT) - Rs. 65,000



INTERNATIONAL MOU WITH MIT SQUARE GROUP OF COMPANIES



COVID-19 NATIONAL BIO INFORMATICS ONLINE HACKATHON - WINNER



E-SUMMIT 2023 IIT BHUBANESHWAR



**GANESH V
SHYAM H
ASHWANTH RAJ
IV YEAR**

**B-PLAN
WINNER**

Rs. 3000

**ERROR BY NIGHT
(3 Day Online Hackathon)**

August 2021

Sponsored Amount
\$350



**POSTER DESIGN COMPETITION
ELAKKIYA & RAMYA
II YEAR
FIRST PLACE**



Rs. 3000



Department Club Activities



Receiving the memento - Finalist



Felicitated by our management

**SMART INDIA
HACKATHON 2022
UVASHREE &
ARCHANA IV YEAR
FINALIST**

ABOUT THE COLLEGE



- We motivate and prepare our students to excel in all aspects.
- 12 years of academic excellence in Engineering Education, offering 6 UG programs
- Secured 39 University Ranks with 1 Silver medal since inception.
- The courses offered (B.E. - CSE, ECE, EEE, Mech. Engg. & B.Tech.-IT) have been accredited by NBA in 2017 in the shortest span of 6 years since inception, which ascertains our quality.
- Rated 4.5 Stars by the Institution's Innovation Council (IIC) of Ministry of Education, Govt. of India.
- Ranked at 'Performer Band' in Atal National level Ranking (ARIIA -2021) by Ministry of Education, Govt. of India.
- Associate Member of ICT Academy, Department of Information Technology, Government of Tamilnadu.
- National Employability Award' by Aspiring Minds (SHL), received every year since 2021.
- Recognized as the Nodal Centre of ISRO-IIRS outreach program to conduct live and interactive courses.
- Recognized Skill Development Centre for Pradhan Mantri Kaushal Vikas Yojana (PMKVY), Ministry of Skill Development & Entrepreneurship (MSDE) implemented by National Skill Development Corporation.
- Selected under the National level "Unnat Bharath Abyan Programme" by MHRD Government of India and "Skill and Personality Development programme Centre (SPDP)" for SC/ST students by AICTE, New Delhi.
- Recognized as the 'Best Exam Preparatory Centre' for conducting Business English Certificate (BEC) examination by Cambridge ESOL for the past years in India & one among 25 South Asia Best Preparatory Centres.
- Received notable awards and recognitions namely Innovative Project Award and Youth Conclave Award from INAE, Hackathon Award, IEEE and TNSCST Student Project Fund.
- Approval has been granted by AICTE for IDEA lab worth Rs. 110 lakhs under self-finance scheme.
- Received 2 International Travel Grants from IEEE Photonics society by our students for attending International Conferences in USA.
- Received grants from SERB,AICTE for conduction of IEEE supported conference and MSME for start up projects
- Conducted 7 International Conferences periodically since 2016.
- Excellent Sports recognitions at National and International level

39

Overall University Ranks

One Silver Medal

Overall Placement Offers

2022-23 640*

* As on 30th March 2023

292+ Companies Visited

