



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

(An Autonomous Institution)  
St. Joseph's Group of Institutions  
OMR, Chennai - 600 119



Counselling Code : 1317

## DEPARTMENT OF CHEMICAL ENGINEERING



### Vision

To provide a knowledge centered education that continually responds to changing realities in the field of Chemical Engineering.

### Mission

- To establish academic integrity so as to inculcate the professional skills to compete in global environments.
- To enrich the Chemical Engineering knowledge through research & innovation.
- To hone the skills of students to succeed in Chemical Industry.

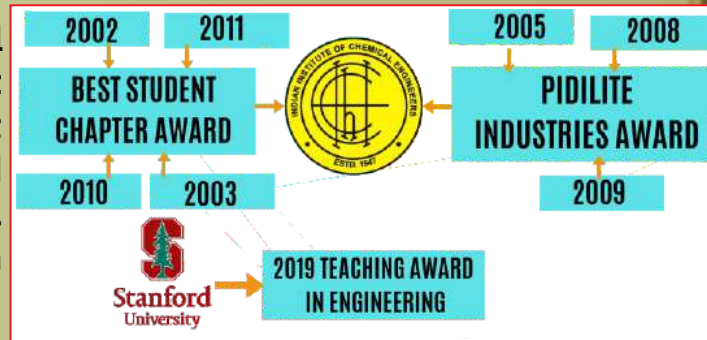


**Dr. B. Babu Manoharan**,  
Chairman, St. Joseph's Group of Institutions with  
**Dr. Mrs. & Mr. George Beltramani**,  
Professor, Chemical Engg. Dept.  
Queensland University of Technology, Australia

# DEPARTMENT HIGHLIGHTS

## DEPARTMENT AWARDS

Our department regularly conducts working model competitions under the banner of IIChe Student Chapter which enables students to implement theoretical aspects in developing practical and economical solutions to socially relevant problems. Various awards are given in the form of appreciation by IIChe based on our department performances.



Department Established in 1994

- ◆ Anna University Ranks > 25% of Total University
- ◆ Ranks Pass % >98%

24 Batches working across the globe

## FACULTY STRENGTH



### PAPER PUBLICATIONS

#### STAFF

International journals	130
National journals	8
International conferences	50
National conferences	5

#### STUDENTS

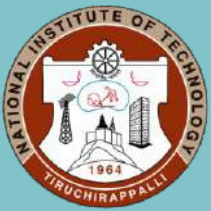
Journals	15
Conferences	40

### PATENTS

- 2021-22** Smart solar power electric fence published  
Metal Complexes and compositions with novel synthesis, characterization and properties of binuclear
- 2020-21** Design and versatile application at chemical spillage cleaning micro controller robot (published)
- 2019-20** A novel and selection algorithm based on similarity theory (published)







## GUEST LECTURES



One Guest lecture will be Organised every semester by our Department. Eminent persons from IIT, NIT, CLRI, CSIR, Industries and abroad universities are invited to share their expertise



## PLACEMENT

### PLACEMENT TRAINING



### DEPARTMENT PLACEMENT

**2022-2023**  
**PLACED STUDENTS**  
**44**  
 \*as on date

Training and Placement centre has its own superlative reputation when it comes to Placement Training through the execution of meticulous planning and systematic schedule. We believe in nurturing Industry Institute Interaction and mentoring our students on how to prepare for the corporate world. Our true uniqueness lies is not only enhancing the technical knowledge of the students, but also making the students plug and play by imparting soft skills and employ ability skills.

Our department has got a good placement record of about 95% of the eligible students.

**ANNUAL PACKAGE IS 2.5 LAKHS TO 8 LAKHS**

Students have been placed in various core companies that includes

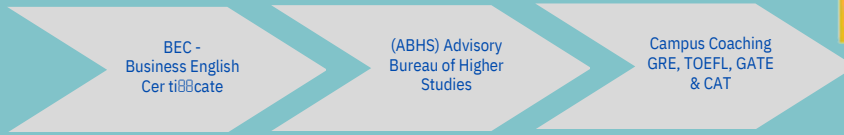
## PRESTIGIOUS RECRUITERS





UNIVERSITY OF CAMBRIDGE

# HIGHER STUDIES



The main objectives of ABHS are to Motivate more number of aspiring students to pursue higher studies in India and Abroad. Enable the students to excel themselves in the tests like GRE, TOEFL, IELTS, GATE etc. Students can avail all the facilities at free of cost. ABHS has infrastructure of about 10 lakhs, which includes systems, books, CD's for taking competitive examinations.

## HIGHER STUDIES ABROAD

Regularly about 20 % of students are pursuing their higher studies in various reputed universities of India and abroad.

Some of the globally recognized universities where our students are studying are shown below



**Faizur Rahman**  
Risk and Safety Engineer  
Bureau Veritas Group,  
Doha Qatar



**Monika M**  
Graduate Research Assistant  
at Utah Water Research  
Laboratory  
Utah, United States



**JAFFIN SAM RAJ**  
Process Engineer  
Asia Petrochemicals,  
Ras al Khaimah, United Arab  
Emirates



**Sriganesh P**  
Restaurant Crew Member  
A&W Food Services of  
Canada Inc. Ontario, Canada



**Ajay Kumar V**  
Plant Process Engineer at  
Indorama Ventures Oxides  
Pty Ltd., New South Wales,  
Australia



**Koushik Ram B**  
Analyst Ostrom Climate  
Solutions Inc.  
British Columbia,  
Canada



**Delight Wellington**  
Graduate Project Research  
Assistant  
Los Angeles, California,  
United States



**Alderick Jude**  
Quality control technologist  
Polytubes (2009) Inc.,  
Peterborough, Ontario,  
Canada



**Kamalidevi J**  
Master thesis student at Dow  
Chemical,  
R & D BASF Solutions,  
Magdeburg, Saxony-Anhalt,  
Germany



**Robin Jerry**  
Developer and Data Analyst  
Macclesfield, England, United  
Kingdom



**Cedric Denny**  
Graduate Mining Engineer at  
Palaris  
Newcastle, New South  
Wales, Australia



## INDUSTRIAL VISITS



In our college industrial visits are mandatory in every semester. Students are taken to the best industries in and around Tamil Nadu each semester. They gain practical knowledge regarding the rapid growth in industrialization and automation. Some of the major industries visited during last 3 years



## VALUE ADDED COURSES

Our college is always ahead in motivating and shaping the confidence and competency of our students towards their career development

In this aspect, trainings are scheduled from first year.

We regularly conduct value added courses designed to enhance the knowledge of the students in their core fields and specialize themselves in the latest technologies pertaining to their chosen field of studies.

## R&D FACILITIES



Specialized research equipment's are available in addition to prescribed equipment's in the curriculum to carry out the research and to publish technical papers in scientific journals.

## EXTENSION ACTIVITIES

Charity starts at home; here, it starts at college. Once in a semester, each class visits various NGOs in and around the Chennai city during working Saturdays. Apart from providing food, clothing and other amenities, they also conduct various programs to entertain the inmates. They also gain insight about their lifestyle and understand the value of humanity and happiness in helping the underprivileged people in the society.



# BENEFITS OF AUTONOMOUS

- **Autonomous status reflects the excellence in academic performances**
- **It gives a prestigious image for the students and the teachers**
- **It Provides more academic freedom in terms of prescribing its own courses and syllabus towards “Employment Centric” Restructuring the courses to suit industrial needs**
- **We will continue to be affiliated with Anna University**
- **Degree will be awarded by Anna University**

## OPPORTUNITIES

### HIGHER STUDIES OPPORTUNITIES

- India
- USA & UK
- Australia
- Canada
- Germany

### RESEARCH OPPORTUNITIES

- Renewable Energy
- Membrane Technology
- Nano Technology
- Water Treatment

### JOB OPPORTUNITIES

- Petrochemical
- Refinery
- Biotechnology&Pharmaceuticals
- Environmental

## STUDENT SUPPORT ACTIVITIES

- Training for Defence and Civil Service Examinations.
- Higher Studies career counselling - GATE, GRE, TOEFL,CAT, IELTS, PG CET
- Organising Student clubs, professional chapter activities and participating in Hackathon events.
- Extensional Activity - NGO & NSS
- Entrepreneurship Development Cells - MSME, DSIC, EDI
- Gifts for winners, Toppers, 100% Attendance, Subject Toppers on Achiever's Day celebration.
- TA and DA Registration fees for Co-curricular & Extra curricular activities
- Cash Award of Rs.50,000 for Gold Medal and Rs.25,000 for other rank holders
- Student Mentoring
- Intra Department & Inter Department Symposiums
- E -Learning
- Alumni Interactions





## CIVIL SERVICES

St. Joseph's Civil Service Academy provides help on various tests to cadres. It also focuses on all job opportunities available in the various department under SSB (Services Selection Board).

## DEFENCE ACADEMY

St. Joseph's Defence Academy encourages its students to serve the government of India by preparing and motivating the students to join the Indian Defence wings.

## ENTREPRENEUR ACTIVITIES

- Workshop on "Ethical Hacking" by Mr. Rizwan Shaikh, Pristine Info Solution.
- 5 Days Entrepreneur development programme by SIDBI
- Entrepreneurship Awareness programme along with SIDBI and ICT Academy.

## SYMPOSIUM

Intra Department Symposium : (Cash Prize worth Rs. 10,000)

All students can participate in the events conducted inside the campus to bring out their talents

Inter Department Symposium : (Cash Prize worth Rs. 30,000)

Students from other colleges are invited to take part in various co- curricular and extra curricular activities in our institutions.



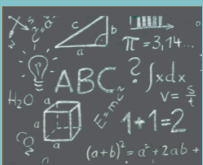
## MOU ACTIVITIES

Chemical department has signed memorandum of understanding with the following companies.



## CLUB ACTIVITIES

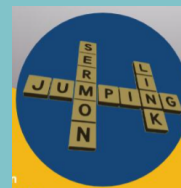
### MATHEMATICS CLUB



### TAMIL CLUB



### ENGLISH CLUB



### GOOGLE DEVELOPERS STUDENTS CLUB



### CTS STUDENT CLUB



### QUIZ CLUB



### ECO-SOC CLUB





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## ABOUT OUR COLLEGE

- St. Joseph's College of Engineering is having 29 years of successful academic reputation offering 11 UG programs and 7 PG programs with a current total intake of more than 1570 students per year.
- Since inception, St. Joseph's College of Engineering is consistently placed among the Top 10 institutions in terms of number of ranks. So far 1541 ranks including 57 Gold medals and 55 Silver medals have been secured by students. The college has been in 1st Place in terms of highest numbers of Anna University ranks, 4 times.
- The College is continuously being ranked by in National Institutional Ranking Framework (NIRF) since 2017.
- Our institution is ranked in 'Elite Band' at National level Atal Ranking of Institutional Innovations and Achievement (ARIIA – 2021).
- Accredited with A+ grade by securing 3.46 on a scale of 4.00 by National Assessment and Accreditation Council (NAAC).
- 9 departments are recognised as 'Research Centres' by Anna University to Ph.D.
- Recognition as 'Scientific and Industrial Research Organisation' (SIRO) since 2014 by DSIR, Government of India.
- The college is having a good number of research publications with a h-Index of 57 in Scopus and 51 in Web of Science index.
- Recognised as the 'Best Exam Preparatory Centre' for conducting Business English Certificate (BEC) examination by Cambridge ESOL for the past eight years in India & one among 25 South Asia Best Preparatory Centres.
- 45 Sponsored Research Projects of worth Rs. 2.83 Crores and 40 Faculty Training Programs worth of 54 lakhs funded by AICTE, NRB, DST, SERB, DBT, NRDMS, TNSCST & Anna University etc., have been carried out by staff members.
- Received FIST grant of Rs. 71 Lakhs from Department of Science and Technology, Government of India.
- "21 INAE Innovative Student Project Awards" were bagged by our students for their innovative final year projects.
- Selected under the National level "Unnat Bharath Aayan Programme" by MHRD Government of India and Skill and Personality Development programme Centre (SPDP) for SC/ST by AICTE, New Delhi.
- Secured 86th rank by Internshala Annual Ranking 2022.
- Received a grant of Rs. 17 lakhs grant under PMKVY program.
- Won First AICTE-ECI Chatra Viswakarma award in 2017 as a Best Institute at National level.
- Won 1st position in "Utkrisht Sansthan Vishwakarma Award", 2020 by All India Council for Technical Education (AICTE) in association with Ministry of Human Resource and Development (MHRD).
- Secured AICTE-Lilavathy awards in 2021 and 2022 : Winner under the stream of Women Security, Runner under Hygiene and Sanitation themes in 2021 and Runner in Women Empowerment 2022.
- College has secured 4.5-star rating for the activities carried out in the campus by Institution's Innovation Council (IIC). In 2022 the college has received 3 projects for incubation worth of Rs. 45,00,000 by MSME, MOE, Government of India
- Consistently our students are securing winning positions in National level Innovative idea implementation competitions such as AICTE Smart India Hackathon in Hardware and software, Toycathon, Mapathon etc.
- Consistently awarded "National Employability Award" every year since 2017 by Aspiring Minds.