

ANNUAL REPORT
ACADEMIC YEAR 2017—2018

St Joseph's College of Engineering, Chennai was established in the year 1994. The college has been approved by All India Council for Technical Education (AICTE), New Delhi and is affiliated to Anna University, Chennai. The Institution offers 10 Under Graduate Courses, 10 Post Graduate Courses and 5 research centers for Doctoral Programmes in Engineering.

Anna University Results in 2017-2018

SI. No	Department	Pass %	SI. No	Department	Pass %
1	B.E. - Civil Engineering	73.24	11	M.E. - Applied Electronics	100
2	B.E. - Computer Science and Engineering	73.33	12	M.E. - Computer Science and Engineering	100
3	B.E. - Electrical and Electronics Engineering	73.04	13	M.E. - Manufacturing Engineering	100
4	B.E. - Electronics and Communication Engineering	66.82	14	M.E. - Power Systems	100
5	B.E. - Electronics and Instrumentation Engineering	82.9	15	M.E. - Power Electronics and Drives	100
6	B.E. - Instrumentation and Control Engineering	73.01	16	M.E. - Software Engineering	100
7	B.E. - Mechanical Engineering	76.79	17	M.E. - Control & Instrumentation Engineering	100
8	B.Tech. - Chemical Engineering	97.18	18	M.E. - Embedded Systems	100
9	B.Tech. - Information Technology	83.68	19	M.Tech. - Biotechnology	100
10	B.Tech. - Biotechnology	100	20	MBA	95.32

Anna University Ranks in 2017-2018

UG Ranks			PG Ranks		
Dept	Rank		Dept	Rank	
CSE	7		APPLIED ELECTRONICS	6	1 GOLD, 1 SILVER
ECE	9		CSE	4	
EEE	8		MAN. ENGG	1	
IT	11		POWER SYSTEM	1	
MECH	9		CONTROL & INSTRUMENTATION	1	1 GOLD
EIE	14		EMBEDDED SYSTEM	1	
BIOTECH	13	1 GOLD, 1 SILVER	BIOTECH	2	1 GOLD
CHEM	10		POWER ELECTRONICS	--	
ICE	1	1 SILVER	SOFTWARE ENGG	--	
CIVIL	1		MBA	5	
TOTAL: 130 RANKS MEDALS: 4 GOLD, 4 SILVER					

Awards for Department Toppers

The Trust has constituted awards to the topper in each branch. The awardees are listed below.

S.N	Name of the Award	Branch	Name of the Student
1	Dr. M.G.R Award	CSE	Ms. RENA STELLIN R
2	A.P. Baulraj Award	ECE	Ms. ATCHAYA S
3	Abraham Lincoln Award	EEE	Ms. SABARITA K V
4	Mother Teresa Award	MECHANICAL	Mr. YUVARAJ R
5	Dr. A.P.J. Abdul Kalam	ICE	Ms. NARMADHA S
6	KalpanaChawla Award	EIE	Ms. GOWRI K
7	Martin Luther King Award	IT	Ms. SWETHA M
8	DeivaPulavarThiruvalluvar Award	CHEMICAL	Mr. PRASANTH N
9	M. Visvesvaraya Award	BIO TECH	Ms. SEETHALAKSHMI
10	Dr. K.L. Rao	CIVIL	Ms. VIDHYA K

11	MahakaviSubramaniyaBharathiar Award	M.B.A	Ms. AGILA S
12	AnnaiJanaki M.G.R Award	M.E (Applied Electronics)	Ms. VISHALI R S
13	PerunthalaivarKamarajar Award	M.E (Power Electronics)	Ms. SINDHUJA E
14	Arignar Anna Award	M.E (Computer Science)	Ms. MONICA TRESA I
15	Nelson Mandela Award	M.E (C & I)	Ms. SUPRAJA V
16	Sir C. V. Raman Award	M.E (Power Systems	Ms. LEKAH R
17	SrinivasaRamanujan Award	M.E (Software Engineering)	Ms. NASREEN FATHIMA A H
18	C.K Prahalad Award	M.E (Manufacturing Engineering)	Ms. AROKIA JOHN MITHUN A
19	Dr. Muthulakshmi Award	M.Tech (Bio-Tech)	Ms. JESLIN J
20	Dr. S. Radhakrishnan Award	M.E - Embedded System	Ms. SENTHAMIZHELAKKIY

Training and Placement Cell

The institution has always been in the forefront with respect to recruitments. The Centre for Training & Placement has been working vigorously to provide recruitment for our students. 823 students are placed through campus interviews. The students are recruited by many leading organizations like Cognizant Technologies, Wipro, Infosys, Ashok Leyland, Wheels India, Soliton Technologies, AMAZON, Verizon, GE Digital, Juspay, Mu-Sigma, Comm Vault, Global Analytics, E-Con Systems, Sirius Vembu Technologies, Tech Mahindra Solution Technologies, HDFC, ICICI, IDBI Federal Life Insurance, Mr. Copper, Bajaj Capital, DHL Logistics, Yes Bank, ITC Ltd, L&T, Zoho, Naukri.com, HCL, Hewitt, RenalultNissian, Virtusa, RBS, Accenture, Mindtree, KotakMahindra Bank, Pepsico etc., with a salary ranging from 3 lakhs to Rs 12 lakhs per annum.

Higher Studies

In the year 2017-2018, 128 Students are pursuing their higher studies at various Universities in India and abroad. Students have got admission into top ranking Universities like University of Texas,, Carnegie Mellon University, University of Massachusetts, Arizona State University, North Carolina State University, National

University of Singapore, Illinois Institute of Technology, NJIT , University of WestVirginia, Leeds University (UK), North Carolina State University , IITs, NIITs etc, through our Advisory Bureau for Higher Studies (ABHS).

Research Activities

Ph D Awardees in 2017-2018

NAME	DESIGNATION /DEPARTMENT	NAME	DESIGNATION/ DEPARTMENT
Dr.B.Vasudevan	Associate Professor/ECE	Dr.S.Jothi	Associate Professor/CSE
Dr.S.Vinayagapriya	Associate Professor/ECE	Dr.M.Anuradha	Associate Professor/CSE
Dr.J.Sivakumar	Associate Professor/ECE	Dr. J. Ramya	Associate Professor/CSE
Dr.F.SangeethaFrancelinVinnarasi	Associate Professor/CSE	Dr.R.Sathish	Associate Professor/Mech
Dr.J.T Anita Rose	Associate Professor/CSE	Dr. K.Arun	Associate Professor/Mech
Dr.Jesline	Associate Professor/CSE	Dr.N.EArun Kumar	Associate Professor/Mech
Dr.J.Jean Justus	Associate Professor/CSE	Dr. G.Anand	Assistant Professor/Mech
Dr.N.Angel	Associate Professor/CSE	Dr. C.Karthik	Associate Professor/BioTech
Dr. M.P.Rajakumar	Professor,CSE	Dr.C.N.Gananpr akasam	Associate Professor,EIE
Dr.A.Sheryl Oliver	Associate Professor/CSE	Dr.K.PalaniThan garaj	Assistant Professor/EIE
Dr.B.Senthilkumar	Associate Professor/EIE	Dr.U.Abirami	Assistant Professor/MBA

Funded Projects in 2017-2018

Sl. No.	Name of the Funding Agency	Details of the Funded Project	Amount (Rs.)	Name of the faculty and Department	Academic Year
1	Department of Biotechnology (DBT), New Delhi	Anticancer activity of multifunctional nanobiocomposites of L-asparaginase and metal nanoparticles.	25,19,913	Dr. G. Baskar Biotechnology	2015-2019
2	Government of Tamil Nadu	Unnat Bharat Abhiyan (UBA)	5,00,000	Dr.V.Muthulakshmi	2018-2020

	Village Adoption Program.		Information Technology	
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Patents Registered in 2017-2018

No.	Inventor(s)	Title	Application Number
1	Dr.A.Chandrasekar Professor & Head	AUTOMATIC DETECTION OF HUMAN HEALTH AND TRANSFERRING HEALTH INFORMATION	201641037258
	Mr. A.PrabhuChakkaravarthy Assistant Professor		
	Ms. M.Iswarya I M.E CSE		
	Ms. J.Nirmala I M.E CSE		
	Ms. M. Leena Christy I M.E CSE		
2	Dr.A.Chandrasekar Professor & Head	AUTOMATIC WATER SUPPLY FOR AGRICULTURE ON ANALYZING SOIL MOISTURE	201641037256
	Mr. A.PrabhuChakkaravarthy Assistant Professor		
	Ms. Rosario Gilmary I M.E CSE		
	Ms. Shirley Angel Praveena A I M.E CSE		
3	Dr.A.Chandrasekar Professor & Head	AUTOMATIC WATER MEASUREMENT USING ARDUINO AND ANDROID	201641037257
	Mr. A.PrabhuChakkaravarthy Assistant Professor		
	Ms. J.Jancy Claret I M.E CSE		
	Ms. D.Nandhalakshmi I M.E CSE		
4	Dr.A.Chandrasekar Professor & Head	AUTOMATIC DETECT OF GASES IN DRAINAGE USING ARDUINO AND ITS DEVICES	201641037259
	Mr. A.PrabhuChakkaravarthy, Assistant Professor		

Ms. Sowmiya.S I M.E CSE		
Ms. I.MonicaTresa I M.E CSE		

Staff Publications and FDP,Workshops attended in 2017-2018

SL. NO	DEPARTMENT	Journal/Conference/ Book chapters Publication	NO. of FDPs/Workshops attended
1.	CSE	27	43
2.	ECE	41	23
3.	EEE	15	31
4.	IT	44	42
5.	MECH	24	23
6.	EIE	49	18
7.	BIOTECH	35	20
8.	CHEM	6	22
9.	ICE	7	13
10.	CIVIL	2	12
11.	MBA	10	10
12.	S&H	17	03
13.	Maths	13	05
TOTAL		290	265

FDPs and Workshops Conducted in 2017-2018

Sl No.	Department	Name of the Workshop	Sponsoring Agency	Date
1	BIOTECH	National Workshop on Biofuels and Bioenergy	Department of Biotechnology, Government of India	15/09/2017-16/09/2017

2	CIVIL	Disaster Modeling and its Impact Assessment	Self	24/9/2017
3	CSE	Problem Solving And Python Programming - GE8151	Self	06/09/2017-08/09/2017
4	ECE	Understanding Subspace Methods For Array Signal Processing Applications	Self	12/07/2017-13/07/2017
5	EEE	Advances in Technology for Sustainable Energy based Applications	Self	8/4/2017
6	IT	Introduction to Big Data Analytics	ICT Academy	14/12/2017-15/12/2017
7	MECHANICAL	Manufacturing Analytics for Industrial Applications and Research(MAAR 2017)	Self	29/08/2017
		Fundamentals of Vibration - Measurement, Analysis and Control	AICTE	10/11/2017
8	MATHS	FDP on Calculus and its Applications	Self	18/08/2017

Notable Achievements in 2017-2018

1. NIRF Rankings 2017

St. Joseph's College of Engineering ranked **97th position** in Engineering category by **National Institutional Ranking Framework (NIRF)**, Ministry of Human Resource Development(MHRD), Government of India.

2. AICTE-ECI ChhatraVishwakarma Awards 2017

AICTE and Engineering Council of India (ECI) have jointly organised "**AICTE-ECI CHHATRA VISHWAKARMA AWARDS**" on 19th September 2017 at New Delhi. Our College has won "**Outstanding Institutions Award**" among the Engineering Institutions of India. In addition **Civil Engineering and Information Technology departments** have bagged "**Outstanding Student Engineers/Teachers Awards**" for their innovative research projects presentations. St. Joseph's had a tough competition to emerge up to final demonstration (Biotech, Civil, EEE and IT) out of 965 projects that were received from 23 states.

3. National Academy of Engineering – Final Year Project Award -2017

Students	Mentor	DEPT	Project Name
Mr. Karthicraja VM	Dr. R.	EIE	Sewage block detection
Mr. Krishna Prasad VL	Sivakumar Professor		Cassandra-IOT In Women Safety

4. International Delegation at Model United Nations – Singapore

A “Model United Nations” (MUN) conference convenes pre-university and college students to negotiate and formulate solutions to global problems. Globally 1230 delegates had participated in addressing the current affairs and international relations by discussions, debate, and resolution on a multinational problems. St. Joseph's takes pride in proclaiming that our final year **Biotechnology** student **Ms. Pavithra M**, had been invited as the "First" and the "Only Indian delegate" to represent our country under "United Economic and Social Council " of Model United Nations 2018 , held at Nanyang Technological University, Singapore on 23rd -25th February 2018.

5. Nokia - Chennai Technology Day

Name of the Students	Branch & Year	EVENT	Place
Ms. PersisJerifa Nelson Ms. Pradepa.P Ms. Patricia Trinita Gilbert	III ECE	The World At Your Neurons -Paper	I
Mr. Venkatesan G, Mr. Vikash A, Mr. Hariraagavanthar C	III IT	Prototype Presentation	Special Prize

6. Unisys Hackathon 20/20

Mr. Venkatesan G, Mr. Vikash A, Mr. Surendhar , Mr. Surya VenkatRaghavan B of 3rd year **IT department** have participated in "Unisys Hackathon 20/20"

conducted in the month of December on 16th at **Bangalore** on the topic “ Machine Learning - Predict the arrival of the next support issue for a product” and has secured "**First Prize**" with a cash reward of **Rs.100000** (Rupees one lakh).

7. Best performance in Project Design

- **Mr. Varun Kumar. S, Mr. Jayasurya. S.M, and Mr. Joshua Ponsam (III ICE)** has won **Rs.25000** for the "**Best performance in Project Design**" held at Bannari Amman Institute of Technology, Coimbatore on 7- 9th September 2017.
- **Mr. S. VarunKumar(III ICE)**3rdposition in "**New India student championship 2018**" - The largest learnathon of India organized by ICT academy and Trailhead.
- **Ms. Jabaselvilediyal S &Ms. Kamalashruthi S(III ICE)** won cash prize of **Rs.7000/-** for securing place in **top 35 position** in "**3rd Mitsubishi Electric Cup**" National level competition for Factory Automation held at Nirma University, **Ahmedabad.**

8. SAE e-BAJA - INFERNO RACING TEAM

Students from the **Department of Mechanical Engineering** formed a racing team consist of 23 members, as a team named "**Inferno Racing Team**". The team designed and fabricated their own customised ATV (All Terrain Vehicle) buggy in our campus.They represented our college in the **e-Baja** event conducted by **SAE India** held at Pithampur, Indore and secured 13th position at National level and 1st in Tamilnadu. They also secured National level 4th position in Design Evaluation.

9. Tamil Nadu State Council for Science and Technology - Project Award

The following student's projects from **Department of Electronics and Instrumentation Engineering** have been selected for TNSCST – Student Project Scheme – 2017-2018 by Government of Tamilnadu and awarded a cash prize of **Rs. 10,000** (Each).

Sl. No	Project Name	Mentor	Students
1	Sewage block detection	Dr. R. Sivakumar Professor	Mr. Rithesh S Mr. RicherdSebasteen S
2	Controller design for TITO process using optimization algorithm	Mrs. S. Meena Associate Professor	Ms. Aashika Suresh
3	Design of controllers for interacting spherical tank system	Mr. D. Dineshkumar Assistant Professor	Ms. Ashwini Suresh

10. Participation in International Conferences conducted in Abroad

- **Mr. Anand Raja. M. J**, the final year student of **Department of Electronics and Communication Engineering** has attended "Student Leadership Conference and OSA Annual Meeting" which was held from 17-21 September 2017, **Washington, USA**, with "**full sponsorship**".
- **Mr. E Joan Sheryl**, the third year student of **Department of Electronics and Communication Engineering**, had presented a paper entitled "High performance Super Capacitor Synthesis" in the '12thInternational conference on Surfaces, Coatings and Nano-structured Materials (NANOSMAT-Paris)' held in **Paris, France** during 11-13 September 2017.
- **Mr. Dinesh.S** of 2013-17 Batch, **Electronics and Communication Engineering**, has attended the Chapter Chairs event at "ICEAA-APWC Conference", scheduled from September 11-15, 2017, **Verona, Italy**. He has been approved for a "**travel grantUSD 1950**".

11. Google Developers - Developer Student Club Lead

Ms. Karen Zipporah .J from the 3rd year **IT department** was selected as the **Developer Student Club Lead (DSC)** for the academic year 2017-18. The DSC Summit was held on the 23rd and 24th of February, 2018 in **Goa, India**, as a

motivation for the leads to conduct activities on their campuses and facilitate innovation.

12.SolarTree Plantation at St. Joseph's

The project 'Solar tree' had been successfully planted in our college premises by **Department of Electrical and Electronics Engineering** to motivate and enhance the 'Go Green' policy among students.

A group of 12 students designed LED display using Solar tree which comprises of 8 branches with one solar panel each. Thus the solar radiations harvested effectively and economically by the solar tree, is used to power up the LED display.

Sports Achievements

Our students have excelled not only in the field of academics, but also in the field of sports . **Ms.C. A Bhavani Devi** is the first Indian to win the **Gold medal in the senior Commonwealth fencing championship** held in Canberra. She has also won the **Gold medal** and **Silver medal** in the Sabre event of the **Turnoi Satellite Fencing Championship** held at Reykjavik in Iceland.

We have M. Mohamed Nissan, P.Ramya, K. Kamali, B.Praveen, K.Sabarisankar, B.Soorya, M.Sivaprakash, T.Arunkumar, A.Hari Krishnan, A.Gopala Krishnan, R.Jeyaraman, R.Athithan, S.Dhakshin Raj, B.Danush Kumar, R.Ganesh, K.N.Nirmal, M.Sathish Kumar, R.Mahendran, C.Gangatharan, C.SarathBabu, C.AravindSamy, S.Srijith who have represented our college in various events at the National and International Levels.