

# JETCHEM ENGINEERS



**ST. JOSEPH'S COLLEGE OF ENGINEERING**

*You choose, we do it*

**ST. JOSEPH'S GROUP OF INSTITUTIONS**

**OMR Chennai - 119**

# Green Engineering



turning  
ideas  
into  
reality

**DEPARTMENT OF CHEMICAL ENGINEERING**

**DEPARTMENT ACTIVITIES FROM**

**1<sup>st</sup> JUNE 2016 TO 31<sup>st</sup> MAY 2017**

**Issue no.1**

**Volume : 32**

**Messages...**

**Dr.B.BabuManoharan M.A., M.B.A, Ph. D.**  
**Chairman**

**"JET CHEM ENGINEERS"**, the technical magazine of Chemical Engineering students is a reflection of the activism they possess. It is heartening to know that they are bringing out their 33<sup>rd</sup> Volume that has its focus on **"Desalination"**. I extend hearty congratulations to them.

**Mrs.S.Jessie Priya M.Com.**

**Managing Director**

I would like to express my gratitude to the students and staff members of Chemical Engineering department for their effort in releasing the magazine **"Desalination"**- Volume 33

**Mr. B. Shashi Sekar M.Sc.**

**Director**

I take immense pleasure to congratulate the students and staff members of Chemical Engineering department for their effort in releasing the magazine **"Desalination"**-Volume 33

**Dr. VaddiSeshagiri Rao, M.E.,M.B.A, Ph.D.**  
**Principal, St.Joseph's College of Engineering.**

The 33<sup>rd</sup> Volume of **"JET CHEM ENGINEERS"** being released by the students of Chemical Engineering deserves appreciation for its focus on **"DESALINATION"**. I extend hearty congratulations to them

### MESSAGE FROM EDITORIAL BOARD

**"DESALINATION"** is the topic around which the 33<sup>rd</sup> Volume of **JET CHEM ENGINEERS** is woven. Desalination has the potential to reliably produce enough potable water to support large populations. We are very grateful to our beloved **Chairman Dr.B.BabuManoharan M.A., M.B.A, Ph.D., Managing Director Mrs.B. Jessie Priya M.Com & Director Mr.B. Shashi Sekar M.Sc, Principal Dr. VaddiSeshagiri Rao, M.E., M.B.A, Ph.D** for their constant encouragement and their keen interest towards the Department activities.

**-The Editorial Board**

**Editorial Advisors:**

**Dr.R. Baskaran**  
**Professor and HOD (Staff & Lab affairs)**

**Dr.N.Venkatesh**  
**Professor and HOD (Student'saffairs)**

**Editorial Board:**

**Ms.N. Deepa, Asst Professor**  
**Mr.Raghavendar.S, IV Year**

**CHEMICAL DEPARTMENT – ANNA UNIVERSITY RANK HOLDERS – 2017**



**Ms. RAZIKA SUBHANA A**  
D/O, Mr. M.ABDUL MALIK  
Mrs. FATHIMA MALIK  
Rank: 4 CGPA: 9.26  
Cash prize Rs. 25,000



**Ms. JAYASHREE Y**  
D/O, Dr.Y.SREENIVASA VARMA  
Dr. Y. SWAPNA  
Rank: 7 CGPA: 9.14  
Cash prize Rs. 25,000



**Ms. NIVEDITHA J R**  
D/O, Mr. J.RAMESH BABU  
Mrs. P LALITHA  
Rank: 15 CGPA: 8.95  
Cash prize Rs. 25,000



**Ms.KAVI NILA G**  
D/O, Mr. V GURUSARAN  
Mrs. R LATHA MAHESHWARI  
Rank: 18 CGPA: 8.92  
Cash prize Rs. 25,000



**Ms. AMRUTHA C**  
D/O , Mr. C CHOCKALINGAM  
Ms. C SUMATHI  
Rank: 21 CGPA: 8.86  
Cash prize Rs. 25,000



**Ms. ROHINI N S**  
D/O, Mr. SHIVAKUMAR N S  
Mrs. ASHA N S  
Rank: 23 CGPA: 8.83  
Cash prize Rs. 25,000

## VISION OF THE DEPARTMENT

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

## MISSION OF THE DEPARTMENT

- ✓ 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.

## 20<sup>TH</sup> GRADUATION DAY REPORT

The 20<sup>th</sup> Graduation Day was held on the **22<sup>nd</sup> Aug 2018**. **Dr. BabuManoharan, M.A., M.B.A., Ph.D. Chairman**, St. Joseph's Group of Institutions presided over the function. **Mrs. S. Jessie Priya, M.Com., Managing Director**, **Mr. B. Shashi Sekar, M.Sc., Director** St. Joseph's Group of Institutions, **Dr. Vaddi Seshagiri Rao, M.E., M.B.A., Ph.D.**, Principal of St. Joseph's College of Engineering graced the occasion.

**Mr. M. Siva Kumar**, Chief Executive Officer, ICT Academy and **Mr. Madan Singh**, Delivery Manager – IBU, Banking & Financial Services – Tech Mahindra delivered the Graduation address and distributed the degree certificates.

1430 students were conferred degrees. The College has bagged the highest number of University Ranks a total of 97 ranks in popular branches for the 12<sup>th</sup> consecutive year in Anna University Examinations held in May 2017.

All the Rank holders were appreciated and lauded by Cash Prizes and shields, a total of worth **Rs. 28 lakhs** which includes **Rs. 50,000/-** each for the **Gold Medal** and **Silver Medal** and **Rs. 25,000/-** each for all other **Rank Holders**. The total prize money values up to **Rs. 33.67 lakhs**.

## PLACEMENT DETAILS

Out of the **1430** students who received their degree, **1372** of them are placed through campus interviews, **78** of them got selected through off campus and **64** of them have chosen to be entrepreneurs. The students are recruited by in many leading organizations like Cognizant Technologies, Wipro, Infosys,

Mu-Sigma, CommVault, Global Analytics, Vembu Technologies, Tech Mahindra Solution Technologies, HDFC, ICICI, Yes Bank, ITC Ltd, L&T, Zoho, Naukri.com, HCL, Hewitt, Renalult Nissian, Virtusa, RBS, Accenture, Mindtree, Kotak Mahindra Bank, Pepsico etc., with a salary ranging from 3.2 lakhs to Rs 12 lakhs per annum.

## HIGHER STUDIES

**186** Students are pursuing their higher studies at various Universities in India as well as abroad. Students have got admission into top ranking Universities like University of Texas, Stanford University, Carnegie Mellon University, University of Massachusetts, Arizona State University, North Carolina State University, National University of Singapore, Illinois Institute of Technology, NJIT, University of West Virginia, Leeds University (UK), North Carolina State University, IITs, IIMs, NIITs etc, through our Advisory Bureau for Higher Studies (ABHS).

## CO - CURRICULAR ACTIVITIES

- **Mr. M. Karthicraja, Mr. VL. Krishna Prasad**, Department of Electronics and Instrumentation Engineering received INAE Award for the project "Cassandra – IOT in Women Safety" and bagged Rs 10,000 cash Prize.
- **Abirami.K**, Department of Bio Technology received the Best Student Award from ISTE for her outstanding performance.
- **Ms. Aparna Viswanathan, Ms. Nisha Jayashankar** of Biotechnology department have completed their final year project in the field of **Allergic Asthma at National University of Singapore** from December 2016 - March 2017
- **Ms. Lincy Zipporah S**, Department of Biotechnology had undergone special internship "Sea turtle and coastal conservation project" at **Mexico, USA** for a period of 15 days.
- **Ms. Sameera Nazeer**, Department of Biotechnology had undergone summer training internship in **Neurological Science at Indian Institute of Chemical Biology, Kolkata** for a period of 40 days
- **Mr. Rokesh R and Ms. Mohana Priya. N**, Department of Biotechnology have got admitted for their Post-Graduation Programme at **IIT - Kharagpur and IIT - Guwahati** respectively with **GATE** fellowship.
- **Tanay Paradeshi**, Department of Information Technology was selected campus Ambassador by **Twenty 19**, Chennai.

## EXTRA-CURRICULAR ACTIVITIES

Our students have excelled not only in the field of academics, but also in the field of sports. We have A.Alex, J.Leonard, K.Pramoth, Neil Franclin, A. Divagar, J.Narayanan, S.Sarathkumar, R.Vijayarajan, R.PradeepRajkumar, B.Monisha, R.Rajakumari, M.Nandhini, K.Saroja, P.Masilamani, P.G.Deepasri, & Monisha Srihari who represented our college in various events at the National and International Levels.

The Management, Principal and Staff extended a hearty congratulation to all the above students and all the budding graduates for their academic and extracurricular achievements.

<b>No of students Appeared</b>	:	1558
• No. of students Passed	:	1430
• Pass Percentage	:	91.8
• First Class with Distinction	:	133
• Passed with First Class	:	974

### **Ranks bagged by the college right from its inception (From May 1998 University Examinations)**

• Total No. of Ranks	:	1216
• Gold Medals	:	53
• Silver Medals	:	45
• Other Ranks	:	1118

### **Anna University Ranks for the 12<sup>th</sup> consecutive year**

• Total No. of University Ranks	:	97
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### **University Rank Awards : Total Rs. 33.67lakhs**

• Gold Medal Cash Award (3*50,000)	:	Rs. 1.50 lakhs
• Cash Award (94*25,000)	:	Rs. 23.50 lakhs
• Shields & Medals	:	Rs. 3.0 lakhs

### **Placement**

#### **Total No. of Students Placed through**

• Campus Recruitment	:	1372
• Off Campus	:	78
• Self Employed	:	64

### **Higher Studies**

#### **Students pursuing higher studies through**

#### **Advisory Bureau for Higher Studies (ABHS)**

• Abroad	:	115
• India	:	71

### **Sports**

• International Players	:	1
• National Players	:	15
• Represented Anna University in All India University Tournaments	:	13

## BEST OUTGOING STUDENT 2016 – 2017 PASSED OUT BATCH

S. No	Department	Name of the Best Outgoing Student
1.	CSE	NIVETHA .S
2.	ECE	STANETH ANN .S
3.	EEE	JANNATH NISHA .H
4.	IT	SANGEETHA RAMAN
5.	<b>CHEM</b>	<b>RAZIKA SUBHANA</b>
6.	ICE	PARAMESWARI .M
7.	EIE	KARTHICRAJA .V M
8.	MECH	LIBNISH S
9.	BIO	RITU MAHESH RAMAMURTHY
10.	MBA	SRIKKANTH .V.P
11.	MCA	JESU SAHAYA MOICA .J

The Trust has constituted awards to the topper in each branch. The awardees of the Trust awards are:

S.No	Name of the Award	Branch	Year	Name of the Student
1	Dr. M.G.R Award	CSE	2013-2017	Ms. NIVETHA .S
2	A.P. Baulraj Award	ECE	2013-2017	Ms. MADUVANTHI .M
3	Abraham Lincoln Award	EEE	2013-2017	Ms. JANNATH NISHA .H
4	Mother Teresa Award	MECHANICAL	2013-2017	Ms. KEERTHANA .C J
5	Dr. A.P.J. Abdul Kalam Award	ICE	2013-2017	Ms. PARAMESWARI .M
6	KalpanaChawla Award	EIE	2013-2017	Ms. ABI ESWARI .R
7	Martin Luther King Award	IT	2013-2017	Ms. SANGEETHA RAMAN
8	DeivaPulavarThiruvalluvar Award	CHEMICAL	2013-2017	Ms. RAZIKA SUBHANA .A
9	M. Visvesvaraya Award	Bio-Tech	2013-2017	Ms. ABIRAMI .K
10	MahakaviSubramaniyaBharathiar Award	M.B.A	2015-2017	Ms. POOJA .S
11	PavendarBharathidasan Award	M.C.A.	2014-2017	Ms. KALAIVANI M .K
12	AnnaiJanaki M.G.R Award	M.E (Applied Electronics)	2015-2017	Ms. SAHAYA PROJOLIN .S
13	PerunthalaivarKamarajar Award	M.E (Power Electronics)	2015-2017	Ms. S.SUDHA MERLIN
14	Arignar Anna Award	M.E (Computer Science)	2015-2017	Ms. JENIF D SOUZA .W S
15	Nelson Mandela Award	M.E ( C & I )	2015-2017	Ms. GEETHANJALI .R
16	Sir C. V. Raman Award	M.E ( Power Systems )	2015-2017	Ms. MANGAIYARKARASI .P
17	SrinivasaRamanujan Award	M.E (Software Engineering)	2015-2017	Ms. LINNET PRINCY JUSTINA .V
18	C.K Prahalad Award	M.E (Manufacturing	2015-2017	Ms. GNANASEKARAN K
19	Dr. Muthulakshmi Award	M.Tech(Bio.Tech)	2015-2017	Ms. LALITHA .K
20	Dr. S. Radhakrishnan Award	M.E – Embedded System	2015-2017	Ms. KRITHIKA .S

## ACHIEVEMENTS OF OUR STUDENTS YEAR AFTER YEAR

Year of passing	UNIVERSITY RESULTS			PLACEMENT			HIGHER STUDIES		ANNA UNIVERSITY RANKS			
	Total No of Students	No of Students Passed	% of Pass	Through Campus Interview	Off Campus Interview	Self Employed Own Business	Abroad	India	Total no of university Ranks	Gold Medals	Silver Medals	Other Ranks
2006	902	817	90.5	469	176	33	98	41	62	3	2	57
2007	984	892	90.6	609	144	29	76	34	45	1	2	42
2008	1014	923	91.2	810	31	23	38	21	45	3	4	38
2009	1227	1134	92.4	681	267	33	97	56	59	6	2	51
2010	1273	1183	92.9	705	298	62	88	30	59	3	3	53
2011	1380	1265	91.7	864	218	60	97	26	84	5	4	75
2012	1365	1229	90.1	901	176	70	92	39	123	2	3	118
2013	1368	1243	90.9	686	161	58	112	51	112	1	1	110
2014	1485	1329	89.7	697	184	71	129	58	107	4	1	102
2015	1471	1315	89.4	910	227	174	133	59	106	-	-	106
2016	1481	1357	91.6	1237	76	51	112	75	117	6	5	106
2017	1558	1430	91.8	1372	78	64	115	71	97	3	2	92
2018				*877								

\* as on 24-07-2018

DEPARTMENT OF CHEMICAL ENGINEERING

UNIVERSITY RESULTS	Total No of students graduated	<b>69</b>
	No of students graduated in First class with distinction	<b>14</b>
	No of students graduated in First class	<b>50</b>
PLACEMENT	Through Campus Interview	<b>35</b>
	Off Campus Interview	<b>9</b>
	Self Employed Own Business	<b>1</b>
HIGHER STUDIES	Abroad	<b>4</b>
	India	<b>3</b>
ANNA UNIVERSITY RANKS	Total no of university Ranks	<b>6</b>
	Ranks	1.Ms. Razika Subhana A <b>Rank: 4</b> CGPA: 9.26 2.Ms. Jayashree Y <b>Rank: 7</b> CGPA: 9.14 3.Ms. Niveditha J R <b>Rank: 15</b> CGPA: 8.95 4.Ms.Kavi Nila G <b>Rank: 18</b> CGPA: 8.92 5.Ms. Amrutha C <b>Rank: 21</b> CGPA: 8.86 6.Ms. Rohini N S <b>Rank: 23</b> CGPA: 8.83
Recipient of Trust Award		<b>MS. RAZIKA SUBHANA A</b> (Deiva Pulavar Thiruvalluvar Award)



## STAFF ACTIVITIES

### Dr.R.BASKARAN

- Published a paper entitled “Intensified degradation of pharmaceutical effluents by novel aerobic iron-dwarf activated molecular oxygen in the presence of ascorbic acid” in Desalination and water treatment vol.102, pg 273-279
- Published a paper entitled “Adsorption of Hexavalent Chromium in Industrial Water Using Pithe cellobium Dulce Bark” in Research Journal of Pharmaceutical, Biological and Chemical Sciences, vol 8, issue 1, pg 1450-1455
- Published a paper entitled “Effect of Addition of Salts on Excess Enthalpy in Methanol – Carbon tetra chloride Mixture “ in Russian Journal of Physical Chemistry
- Presented a paper on ‘Monitoring of Continuous Crystallization Process using Dissimilarity index’ at the “International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC) and published in the IEEE Xplore
- Participated in a one day conference ICT Academy Bridge 2018 - Chennai Edition held on 28<sup>th</sup> March 2018 at ITC Grand Chola, Chennai.
- Attended an MSME sponsored National Level Seminar on “Advanced Composites and its Manufacturing Technology for 3d-Printing” at Rajalakshmi Institute of Technology from February 22 to 24 , 2018
- Attended an IIChe sponsored National Seminar on “Software Packages for Dynamic Modeling and Distributed Control System” at Sri Venkateswara College of Engineering from 16<sup>th</sup> to 17<sup>th</sup> March, 2018.

### Dr. N. VENKATESH

- Attended AICTE sponsored Quality improvement Programme on “Coal quality management and utilization” organized by IIT Varanasi during 24<sup>th</sup> -29<sup>th</sup> July, 2017.
- Participated in AICTE sponsored Quality improvement Programme on “ Thermo chemical conversion of biomass for energy and fuel” at IIT Chennai , during 12<sup>th</sup> -17<sup>th</sup> February, 2017.
- Attended AICTE sponsored Quality improvement Programme on “Biology for engineers” organized by IIT Bombay during 4<sup>th</sup> - 8<sup>th</sup> June, 2018.

### Mr. S. VINOD KUMAR

- Attended short term course on “Recent trends in clean technology for sustainable environment organized by Coimbatore Institute of Technology during 16<sup>th</sup> – 22<sup>nd</sup> April, 2018.

**Ms. B. S. RATHI**

- Participated in Faculty training Programme on “Process Instrumentation, Dynamics and Control” organized by Anna University, 22<sup>nd</sup> -29<sup>th</sup>, November 2017.

**Ms. N. DEEPA**

- Published a paper entitled “Air inducing characteristics of self inducing character with non newtonian working fluid” in International Journal of Modern Science and Technology, Vol 2, No.8, 2017, Page 292-296.
- Attended two weeks Faculty Development Programme sponsored by AICTE on “Recent trends in Energy, Environment and Solid waste management” organized by Coimbatore Institute of Technology during 13-26<sup>th</sup> Nov,2017

**Ms. APARNA A M**

- Presented a paper on ‘Monitoring of Continuous Crystallization Process using Dissimilarity index’ at the “International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC) held on 28<sup>th</sup> Jan 2018 and published in the IEEE Xplore.
- Attended one week Faculty Development Programme on “ Development of thermodynamics Laboratory for undergraduates’ at IIT MADRAS during 22<sup>nd</sup> – 27<sup>th</sup> Jan, 2018
- Attended an IIChe sponsored National Seminar on “Software Packages for Dynamic Modeling and Distributed Control System” at Sri Venkateswara College of Engineering from 16<sup>th</sup> to 17<sup>th</sup> March, 2018.

**Ms.SIVARANJANEE.R**

- A paper entitled “ “Carbon sphere: Synthesis, characterization and elimination of toxic Cr (VI) ions from aquatic system” was published in Journal of Industrial and Engineering Chemistry 60 (2018) 307–320
- Participated in National Seminar on “Recent Advancements in Chemical, Food, Energy and Environmental Engineering” held at Anna University held during March 15-16,2018
- Attended one day faculty development programme on “Pursuing Emerging Technologies” at Cognizant on 26<sup>th</sup> May , 2018.

**Ms. TAMILARASI.A**

- Attended One month Induction Training Program conducted by Teaching Learning Centre at IIT Madras from 23<sup>rd</sup> April to 18<sup>th</sup> May 2018.
- Participated in National Seminar on “Recent Advancements in Chemical, Food, Energy and Environmental Engineering” held at Anna University held during 15<sup>th</sup> -16<sup>th</sup> March,2018

## LIST OF STUDENTS (2013 – 2017 BATCH) RECEIVED THE OFFER LETTER FOR HIGHER STUDIES

### ADVISORY BUREAU FOR HIGHER STUDIES

The advisory Bureau for higher studies (ABHS) is functioning as a separate wing with the prime notion to serve the student community for getting higher studies admission in India and abroad. The main objective of ABHS is to enable the students to prepare for the tests like GRE, TOEFL, GMAT, IELTS, GATE, CAT etc. ABHS has the latest information, books and CD's regarding GRE, TOEFL, GMAT, IELTS, GATE and CAT.

The activities of ABHS are

- ABHS organizes guest lectures to equip the students for pursuing higher studies in India and abroad.
- Various Workshops and seminars are handled by resource persons from IDP, USIEF, Cambridge University, British Council and other higher studies agencies.
- Apart from this, the students are exposed to the first hand information from Associate Director, Deans, Department heads and faculty members from many educational institutes like SUNY, University of California, University of Pennsylvania Graduate school of Education, Arkansas State University, Swinburne University, University of Sussex, Illinois Institute of Technology, Rochester Institute of Technology and Southern Illinois University.
- Many Academicians have visited our campus and also briefed the students about the application process, scholarships and requirements in their respective universities.
- The Business English Certificate (BEC), a certification from Cambridge University is a qualification in English for work. It is given under three levels - Preliminary, Vantage and Higher.
- All the second year students are given BEC training for a week and then they take the BEC examination, conducted by the Cambridge University in our campus itself.
- For the past five years, our college is getting best preparatory centre by the Cambridge University
- For the benefit of the Hostel students, coaching classes for the qualifying exams like GRE, TOEFL, GATE and CAT have been arranged in the campus.

Our students have got admission into various top ranking universities in different countries like USA, Australia, UK, New Zealand, Canada, Germany, Sweden and Singapore. To name a few, University of Texas, Stanford university, NJIT, Carnegie Mellon university, University of Massachusetts, Arizona State University, North Carolina state University, Illinois Institute of technology, University of Pennsylvania, Leeds university, University of Birmingham, NUS, NTU, University of West Virginia, MRIT, University of MTU, McGill University etc. The number of students who have got admission for higher studies during recent years is as follows:

S.No	Academic Year	No of students*
1.	2017 - 2018	67**
2.	2016 - 2017	147
3.	2015 - 2016	187
4.	2014 - 2015	192
5.	2013 - 2014	187
6.	2012 – 2013	163
7.	2011 – 2012	131

- This is the number of students who have gone for higher education immediately after the completion of course.

\*\* The admission process is still going on.

Apart from this many students are pursuing higher studies in India like NITs, IITs, IIMs, and IIPM.

A **master's degree** is an academic degree granted to individuals who have undergone study demonstrating a mastery or high-order overview of a specific field of study or area of professional practice. Within the area studied, graduates are posited to possess advanced knowledge of a specialized body of theoretical and applied topics; high order skills in analysis, critical evaluation, or professional application; and the ability to solve complex problems and think rigorously and independently. The degree is awarded upon graduation from a university.

INTERNATIONAL STUDIES ABROAD: Master's Degree programs around the world allow students to enroll in a graduate program at an institution abroad while receiving the personalized support services that define INTERNATIONAL STUDIES ABROAD programs throughout the world. The majority of programs can be completed in English in as little as one year. Upon successful completion of the program, students will receive their master's diploma and academic record from the university abroad.

In the department of Chemical Engineering

S.NO	NAME OF THE STUDENT	COURSE	INSTITUTE
1.	Avinash S Ram	Master Of Engineering, Chemical Engineering	University Of Toronto
2.	Jayashree Y	M.S. Chemical Engineering	Clarkson University
3.	Mahima H	Master Of Engineering, Chemical Engineering	Jersey Institute Of Technology
4.	Pavithra Gabriel	M.S. Chemical Engineering	University Of Florida
5.	Raveena Narayanee	M.Tech, Chemical Engineering	Anna University
6.	Vijitha G	M.Tech , Chemical Engineering	Govt. College Of Technology, Coimbatore
7.	Nivethitha J R	M.Tech, Chemical Engineering	NIT Trichy

## CONQUISTA 2018



### DISTRIBUTION OF 673 PLACEMENT ORDERS TO THE PLACED STUDENTS

Conquista'18– the word that makes us well with pride of our achievement. CONQUISTA is the ceremony of issuing the offer letters to the students recruited through campus placement. It was held on April 7th, 2018 with grandeur.

The function was presided by Muthuvel G – Vice President, Global Delivery Head, Data & Analytics Unit, Center Head, Infosys, Chennai who handed over the offer letters to the students in the presence of Dr.B.Babu Manoharan, The Chairman, Mrs.B.Jessie Priya & Mr.B.Shashi Sekar, The Managing Director & The Director and Dr.Vaddi Seshagiri Rao & Dr.P.Ravichandran, Principals of St Joseph's group of Institutions. Human resources - Campus Hiring from Cognizant and Infosys were also present as 'special invitees'.

We are proud to inform that we have achieved a placement record of 841 so far in this year. It is indeed a golden feather in the cap of St. Joseph's Group of Institutions.

## COMMUNICATION SKILL ENHANCEMENT PROGRAM



Centre for Training and Placement of St Joseph's is largely responsible and committed towards the identification and catering to the need of training of students so that they are able to develop a good personality; and assist them to find right job and help them place in right companies before they pass out. We realize that in order to convert a raw student in to employable graduate, several behavioural attributes need to be addressed in addition to the development of technical skills. Some of the behavioural attributes are good

communication skills, developing positive attitude towards work, and understanding of moral and ethical values.

Every academic year, our college has taken an initiative to improve the communication skill of the students by organizing 48 hrs Communication skill enhancement program. The aim of this program is to empower our students to take up the future campus recruitment with confidence. All the first year students are evaluated for communication skill by the expert committee. Based on the evaluation students are categorized into **three levels** and students are given appropriate training. This communication enhancement program is conducted by corporate trainers from **Strides & Winspire**.

## **CENTRE FOR TRAINING AND PLACEMENT PLACEMENT ORIENTATION PROGRAM AND OTHER ACTIVITIES**



The Centre for Training and Placement has conducted Aptitude crash course for first & second year students by SMART. Aptitude crash course was conducted in two phases, first phase in the first semester & second phase in the third semester. Placement orientation program-II (POP II) was conducted for the final year students by SMART and trained them on soft skills, quantitative aptitude skills etc., to prepare them for placement recruitments. Also POP III, a company specific training programme was conducted by SMART to

crack Cognizant, Infosys, Wipro test pattern.

The Centre for Training & Placement conducted Online aptitude assessment tests on every week for all the students through the skill rack portal.

Apart from these the students have undergone mock tests in Cognizant. AMCAT have conducted various test pattern such as Cognizant, Wipro, Infosys before appearing for placements. Subsequent to the above training, Cognizant has conducted Evolve Program (Transition from College to Corporate) for the final years, which helped them to understand the expectations of the corporate world. Infosys conducted a session on “interview preparatory” & Wipro conducted a session on “employability”.

Students have also acquired BEC certifications, other value added certifications. In addition to the above certifications, IT Refresher program was conducted for all final year students by Top freshers to enhance the IT related technical skills. Also series of Mock tests, Interviews & intensive coding training have greatly improved the performance of the students in the campus recruitments to a great extent.

E box have conducted various coding training on C,C++,Java and data structure from second year. Students can practice various coding programs every day software

## PLACEMENT DETAILS OF BATCH 2017-2018

Total of 841 students are selected through campus recruitment processes for the year 2017 - 18 with an annual salary package, starting from Rs 2.5 Lakhs to 7.5 Lakhs for UG & PG students.

Number of Individual Offers : 841

St. Joseph's College of Engineering : 612

St. Joseph's Institute of Technology : 229

St. Joseph's College of Engineering		St. Joseph's Institute of Technology	
Course wise		Course Wise	
BRANCH	TOTAL	BRANCH	
BIO	51	CSE	61
IT	89		
ECE	65	IT	31
EEE	48		
MECH	51	ECE	45
EIE	51		
ICE	29	EEE	41
<b>CHEM</b>	<b>35</b>		
CSE	97	MECH	34
MCA	12		
MBA	65	CIVIL	17
<b>Total</b>	<b>612</b>	<b>Total</b>	<b>229</b>

We are proud to inform that 841 students have been selected by the Core / Product Company, Omics, Infosys, Zifo R&D, Tnq, Scope E Knowledge, Fmi, Amazon (Alexa Data Service), Zoomrx, India Mart, Zoho (Tech Support), Spic, Cads Software, My Green Energy, Maestro Steel, Mindtree (Phase II), Hsbc, Kaar, Comcast, Hexaware Technologies, Zoho (Intern), Doodle Blue, Bosch, Wipro, Virtusa, Ntt Data, Cts, Tata Communications, Infotrellis, Msc Technology, Fourkites, Verizon, Ntt Data, Infotrellis, Maarga, Tata Communications, Valued Epistemics, Fourkites, Amphisoft, Torry Harris, Excelencia, Teamware Solutions, Thoughtworks Zoho (Content Writing), Sagitec Solutions, Biju's, Bosch (Phase II), Sosaley, Sanmina, Odyssey, Amphisoft, Zoomrx, Embedur, Edureka, Capital First, Valleypoint, Valued Epistemics, Data Patterns, Torry Harris, Ninjacart, Excelencia, Valued Epistemics, Pratian Technologies, Rivigo, Lapiz Digital Services, Autocrat Automotive Stamping Ltd, Capgemini, Yes Bank, Lapiz Digital Services, Surya Infotech, Rivigo, Nvh, Wheels India (Hr Trainee), Costking, Asahi India Glass, Anand Groups, Emerson, Digient, Johnson Controls, Comcast, Sirius, Tcs, Odyssey.

## PLACEMENT DETAILS OF BATCH 2018-2019

We are glad to inform you that the following students got selected in various Core / Product Companies through Campus placement as on July 10<sup>th</sup> 2018.

Sl.No	Name of the Candidate	Branch	College	Company
1	Jaffery Irudayasamy	EEE	Engineering	<b>Soliton</b>
2	Monisha Mary Arockian	EEE	Engineering	
3	Shriram M Chinnathurai	EEE	Engineering	
4	Vijay Sankar	EEE	Technology	
5	Abdun Nihaal A N	CSE	Engineering	<b>ZOHO</b>
6	Karthikeyan K	CSE	Engineering	
7	Supraja.D	CSE	Engineering	
8	Akil Arulsamy	IT	Engineering	
9	Harold Prabhu	IT	Engineering	
10	Pranesh Jameen Arumugapandian	IT	Engineering	
11	Surya Venkat Raghava Bupesh Kumar	IT	Engineering	
12	Hariharan D	MECH	Engineering	
13	Aswin.C	CSE	Engineering	
14	Chrisvin Jem Peniel	CSE	Engineering	
15	Akshay Raman Jayaraman	EEE	Engineering	
16	Navaneethakrishnan Subburaj	IT	Engineering	
17	Jaithun Mahira K Z	CSE	Engineering	
18	Vikash Anil	IT	Engineering	
19	Robin R	EEE	Technology	

The following list of companies will be visiting our college for the campus placement in the month of July 2018

Company Visited	Date of Interview	Salary Package (Lakhs / Annum)
ZOHO	09 & 10th April 2018	4.6 / 6.5
ELITISTS	10-Jun-18	5 - 6
SOLITON	26 & 27 June 2018	4.2 - 5.4
ZOHO	28, 29 & 30 June 2018	4.6 / 6.5
ODESSA	03 & 06 July 2018	5.5
Zifo	26th July 2018	3.7
MUSIGMA	09 July & 10, 11 August 2018	3.3
SYMANTAC	10 July & August 2018	4
NUTPAM	10 July & August 2018	4
AJIRA	16 July & August 2018	4
DOODLE BLUE	Jul-18	3
CODEBRAHMA	Jul-18	6

We are having many forthcoming recruitment by reputed industries in following months and we are training our students in a structured way.








## PLACEMENT TRAINING DETAILED SCHEDULE 2018-2019

SEM	ACTIVITY	ELIGIBILITY	TRAINING PARTNER	DURATION (In Days)	DATES
I	Communication skill Enhancement	ALL	STRIDES / WINSPIRE / VISTAMIND	3	August / September
	Aptitude Crash Course (Phase I)	ALL	External Vendor	3	August / September
III	BEC Training	ALL	STRIDES / WINSPIRE / SIX PHRASE	6	June 18th to June 30th
	Aptitude Crash Course (Phase II)	ALL	VISTA MIND	3	June 21st to June 30th
V	Advanced Data Structures	ALL	SKILL RACK	3	June 20th to July 4th
	Department Specific Value Added Course	ALL	EXTERNAL VENDOR	3	June 20th to July 4th
VII	Advanced Datastructures & Algorithm ( College Sponsored ) (Training & Virtual Learning)	ALL Departments (Selected Students Only)	EXTERNAL VENDOR	10	June 20th to June 30th
VI	AMCAT Assessment I	UPTO 3 ARREARS	ASPIRING MINDS	3.5hrs	March 23rd & 24th
VII Total package worth Rs. 8000	Placement Orientation Program II		SMART Training Resource	6	May 28th to June 19th
	Datastructures & Algorithm		SIX PHRASE	6	May 28th to June 19th
	CODE Fit Training		SIX PHRASE	6	May 28th to June 19th
	CoCubes Online Assessment I		CO CUBES	3 hrs	July 5th & 6th
	AMCAT Assessment II		ASPIRING MINDS	3.5hrs	July 7th & 9th
	Mock Interview I		EXTERNAL PARTNER		July 20th & 21st
	AMCAT Assessment III		ASPIRING MINDS	3.5hrs	December
	CoCubes Online Assessment II		CO CUBES	3 hrs	December
	Placement Orientation Program III		EXTERNAL PARTNER	6	August 27th to Sept 1st

## PLACEMENT DETAILS OF CHEMICAL ENGINEERING STUDENTS 2017- 2018

The Management and faculty of Chemical Engineering Department congratulate the following **students** for getting placed in reputed companies through campus interviews. We wish them all the very best for their future endeavour.

NAME OF THE STUDENT	COMPANY NAME
Arun Kumar J	MANALI PETROCHEMICALS 
Mohankumar K	
Kishor S	
Thaila. K	
Udith Kiran A	
Saran Kumar M	
Prasanth N	SPIC  Nourishing growth
Naveen B	
Askin John Samuel R	INFOSYS  POWERED BY INTELLECT DRIVEN BY VALUES
Daniel Manogaran D	
Delight Azariah Daniel W	
Keerthana. P	
Saran Kumar M	
Sinto Stephen	
Supriya.B	
Vineeth Anton Jose T	
Arun Kumar J	
Raghul M	
Sneha Jose	
Harish T	
Geetha N	AMAZON 
N.Noor Faseeha	
E.Yamuna	
Robin Jerry Moses P	
Naveen B	TNQ 
Harish T	
Harithajennifer D	
Karthik V Ashok	
Kishor S	
Mohammed Shahnawaz S	
Nandhini G	
Robinson N	
Sarah E	
Shankara Narayanan B	
Vipin K B	

## DEPARTMENT TOPPERS

A right honor at the right time will have an impact on life forever. The students who have catalyzed their actions into accomplishments by achieving good grades in the University Exam are motivated by the management in different ways by

- ❖ **Anna university rank holders will be awarded Rs.25, 000/- each and for gold medal Rs.50, 000/- on our college Graduation Day.**
- ❖ Awarding University Rank Holders with Shields on Graduation Day.
- ❖ Honoring the First University Topper from each Department with a special shield incorporating the name of a famous Personality.
- ❖ Issuing extra book bank library cards for semester toppers to enhance learning skills and better understanding.
- ❖ Awarding merit certificates at the end of each semester for subject toppers as well as overall toppers.
- ❖ Hosting Special lunch for the semester toppers on that day.

### DEPARTMENT TOPPER'S – ABOVE 8.3 CGPA

#### IV YEAR (2017 – 2018) – Passed out

S.No	Name of the Student	Total Grade Points out of 1820	CGPA
1	Delight Azariah Daniel W	1678	9.22
2	Prasanth N	1669	9.17
3	M. Muthu Nandini	1629	8.95
4	Saran Kumar M	1627	8.94
5	G. Nandhini	1620	8.90
6	N.Noor Faseeha	1618	8.89
7	J. Malathi	1615	8.87
8	Shivani K	1612	8.86
9	G.Vishali	1606	8.82
10	Supriya.B	1604	8.81
11	Haritha Jennifer.D	1597	8.77
12	Sneha Jose	1595	8.76
13	Naveen. B	1570	8.63
14	Arun Kumar J	1564	8.59
15	Kishor S	1560	8.57
16	Geetha.N	1558	8.56
17	Thaila. K	1557	8.55
18	Vineeth Anton Jose T	1556	8.55
19	Daniel Manogaran D	1552	8.53
20	E.Yamuna	1540	8.46
21	Abinaya.J	1538	8.45
22	Askin John Samuel R	1525	8.38
23	K.Janaki	1511	8.30

**III YEAR (2015– 2019) – Current IV Year**

S.No	Name of the Student	Total Grade Points out of 1420	CGPA
1	Mohamed Ibrahim S	1353	9.20
2	Aakash V R	1315	8.95
3	Karthick Raj S	1313	8.93
4	Aishwarya M	1303	8.86
5	Daniela Onasis A	1303	8.86
6	Raghavendar S	1294	8.80
7	Shijoy Thomas	1293	8.80
8	Lamsy Alex	1286	8.75
9	Kaviya S	1281	8.71
10	Rajeshwaran K	1275	8.67
11	Nandhitha S	1262	8.59
12	Mukilan T	1259	8.56
13	Gobicca M	1258	8.56
14	Sriganesh Parameswaran	1257	8.55
15	Monika Madhiyan Mookkan	1255	8.54
16	Kamalidevi J	1253	8.52
17	Pradeepkumar B	1236	8.41
18	Ajay Kumar V	1230	8.37
19	Kiruthika J	1229	8.36
20	Shashanka Bhat P	1229	8.36
21	Joefrey Daniel P C	1226	8.34
22	Jayasuriya S	1173	8.32
23	Sivasankar S	1221	8.31

**II YEAR (2016 – 2020) – Current III Year**

S.No	Name of the Student	Total Grade Points out of 980	CGPA
1	Vedha Lakshmi S	899	9.17
2	Revathy R	880	8.98
3	Irene Joseph	865	8.83
4	Surendran V	864	8.82
5	Hariharan R	846	8.63
6	Roshni M	845	8.62
7	Haripriya M	840	8.57
8	Earnestraj D	834	8.51
9	Hilton Samuel B	831	8.48
10	Shriram M R	830	8.47
11	Akash A	829	8.46
12	Madeshwaran J	829	8.46
13	Lenny Allwin Deepak F	827	8.44
14	Chandrasekar S	823	8.40
15	Gokul Ramesh K	820	8.37
16	Yapase Sajil N	815	8.32

**FIRST YEAR (2015– 2019) – Current II Year**

S.No	Name of the Student	Total Grade Points out of 500	CGPA
1	Monika V	456	9.12
2	Dharkshith K	453	9.06
3	Ragul R	449	8.98
4	Amala Deepa D	442	8.84
5	Aravindan K	442	8.84
6	Cheranmadevi G	436	8.72
7	Karthik M	428	8.56
8	Selvabharathi V	426	8.52
9	Kaviya V	425	8.5
10	Adithya G	422	8.44
11	Vaishnavi K	421	8.42
12	Ramalingam S	418	8.36
13	Kasthuri E I	415	8.3

## ***NGO'S (NON-GOVERNMENT ORGANIZATION) ACTIVITIES***

It is pathetic that there are numerous orphanages and old age homes in our society. Our visionary Director yearns for extending a supporting hand to these needy persons. Also, he wanted to invoke the service mind of our students by encouraging visits to orphanages, old age homes and homes for CP children (children with Cerebral Palsy which causes physical disability in human development chiefly in vain areas of body movement). NGO activities bring out the hidden potentials of young minds to serve the needy and to make them responsible citizens. They are exposed to downtrodden lifestyle which is a need of the hour for our country's development.

Our college offers special lunch (Both Vegetarian and Non Vegetarian with sweets, savories and ice creams) to all the inmates of orphanages, old age homes and homes for CP children. Students are provided with transport facilities to visit the homes on activity Saturdays. All the students, from First year to Final year, both UG and PG enthusiastically participated and mingled with inmates of home and

spent the daytime with them and shared their happiness. They also spent their pocket money in useful manner by offering the needy things like rice bags, groceries, toys, clothes, pillows etc. for the inmates.

The department of chemical engineering has participated on Saturdays and the activity was thoroughly enjoyed and appreciated by the students and faculties.

S.NO	Year	Date of Visit	Type of Organization	Address with phone number
1.	I	21/10/2017	Orphanage	Mariela's Children Home, Vayalur Check Post, Kalpakkam. Ph- 9952609818, 9944505796
2.	II	23/09/2017	Orphanage	Annai Fathima Child Welfare Centre, Karapakkam. Ph- 9444444874
3.	III	19/06/2017	Orphanage	Grace Children Home, Chengalpet. Ph- 9894822155
4.	IV	15/07/2017	Old Age Home	Sri Sathyanarayana Charitable Trust, Nanmangalam. Ph- 9080303340
5.	I	03/03/2018	Orphanage	Thambillam, Kolampakkam. Ph- 9952019230
6.	II	03/03/2018	Orphanage	Anbinoli, No-6, 4rth Street, KS Nagar, Kavankarai. Ph- 9380407307
7.	III	16/12/2017	Orphanage	Marilla's Children Home, Vayalur Check Post, Kalpakkam . Ph- 8939741550

***We wish to continue our service forever***

## ***STUDENTS ACTIVITIES***

The students of our department actively take part in various co-curricular and extra curricular activities not only inside the campus but also outside the campus enthusiastically. Their participation and achievements are listed below:

### **INTER COLLEGE TECHNICAL AND NON TECHNICAL ACTIVITIES**

Knowing the importance of bringing out the hidden talents by means of co-curricular activities, our students have participated in various symposiums at National and International levels and have emerged as winners.

S.NO	NAME OF THE STUDENT	EVENT	ORGANISOR	PLACE
1.	Arya B Nair	Chemiczna Quiz	Ssn College Of Engineering	II
2.	Irene Joseph	Chemiczna Quiz	Ssn College Of Engineering	II
3.	Abdul Khaiyoom.K	International Conference	Rajiv Gandhi Institute Of Petroleum Technology	Participated
4.	Aakash. V. R	Chem-Connections	Ssn College Of Engineering	III
5.	Alderick Nirmal Raj. J	Chem-Connections	Ssn College Of Engineering	III
6.	Muthulakshmi Shunmugam	Chemaze	Srm University	III
7.	Pooja Mohankumar	Chemaze	Srm University	III
8.	Nandhitha S	Chemaze	Srm University	III
9.	Mohamed Ibrahim S	Paper Presentation	Srm University	II
10.	Shijoy Thomas	Paper Presentation	Srm University	II
11.	Koushik Ram B	Recalibrte	Srm University	II
		Adzap & Channel Surfing		II
12.	Raghavendar S	Recalibrte	Srm University	II
13.	Mohamed Shameer M K S	Recalibrte	Srm University	II
14.	Janesh M	Recalibrte	Srm University	II
15.	Vineeth Anton Jose.T	Quiz Competition	Csir-Central Electrochemical Research Institute	I
16.	Prasanth.N	Quiz Competition	Csir-Central Electrochemical Research Institute	I
17.	Haritha Jennifer.D	Tech Quiz	B S Abdur Rahman	II
		Paper Presentation	Crescent Institute Of Science Nd Technology	III

## ***STUDENTS CHAPTER ACTIVITIES***

### ***INDIAN INSTITUTE OF CHEMICAL ENGINEERING ACTIVITIES***



Chemical Engineering club has conducted Guest lecture under the banner of Indian Institute of Chemical Engineering (IICHE)

The main objective is to make students aware about the different career options through interaction with industrialists. From this the students get an in-depth professional knowledge in their area of specialization through which they can outperform the questions raised during the interview.

<b>SL. NO.</b>	<b>DATE</b>	<b>NAME</b>	<b>DESIGNATION</b>	<b>TOPIC</b>
1	07/07/2017	Mr.Nagarajan. N	Assistant General Manager - PetroFac	Chemical Engineering Education & Career Prospects
2	07/07/2017	Mr.Gokul.D	Scientist – ISRO	Career Opportunities in Chemical Engineering
3	07/07/2017	Dr.G.S.Venkata Ratnam	Senior Principal Scientist,CLRI	Role of Chemical Engineer



## CURRICULAR ACTIVITIES

Our final year students of Chemical Engineering have done their projects in the following major industries:

- Orchid Chemicals and Pharmaceuticals , Chennai
- CPCL, Chennai
- Tamilnadu Petro products Limited, Chennai.
- CETEX Petrochemicals Limited, Manali, Chennai.
- Madras Fertilizers Limited , Manali
- Manali Petrochemicals Limited, Chennai
- CLRI, Chennai
- IIT Madras.

### INDUSTRIAL VISITS

Industry Institute Interaction has become almost a part of the curriculum in today's education. Our students visited some of the industries listed below to keep in pace with the current industrial environment. These visits give them a practical exposure to the actual industrial environment and motivate them to tune their theoretical knowledge as per the required standards set up in the industries.

YEAR	PLACE OF VISIT	DATE
II	BHAVINI, Kalpakkam, Chennai	16.02.2018
III	Ramco Cements Limited, Alathiyur	06.02.2018
III	Apollo Breweries Pvt. Ltd ,Gummidipoondi	06.07.2017
II	Orchid Pharmaceuticals Pvt. Ltd.	14.07.2017

### GUEST LECTURES

Guest Lecture is a way of enriching our students with the latest updates of the Industries and Technicalities. The Students are bestowed with knowledge about Industry needs, latest technical updates, Avenues for Higher studies etc.

Eminent personality from prestigious institutions and organizations are regularly invited to share their knowledge on various emerging fields and changing trends.



S.No	DATE	NAME OF THE RESOURCE PERSON	TOPICS COVERED
1	04.08.2017	Dr.N.Vedaraman ,Senior Technical Officer, CLRI	Recent Trends in Chemical Engineering
2	13/02/2018	Mr. K.K.Vishwanath, General Manager, Quality Assurance & Systems	Good Manufacturing Practices, Quality Control and Instrumentation

## STUDENTS COMPETITIVE EXAM RESULTS

A **competitive examination** is an examination where candidates are ranked according to their grades. If the examination is open for  $n$  positions, then the first  $n$  candidates in ranks pass, the others are rejected.

They are used as entrance examination for post graduate in various university and colleges. Competitive examinations are considered an egalitarian way of choosing worthy applicants without risking influence peddling, favoritism or other concerns.



The following students are qualified in the various examinations like GATE, GRE etc.

S.NO	NAME OF THE STUDENT	NAME OF EXAMINATION	MARKS SECURED
1.	AVINASH S RAM	TOFEL	99 out of 120
2.	DHANASHREE E	TANCET - MBA	32.66 out of 100
		TANCET – M.Tech	16.21 out of 100
3.	JAYASHREE Y	GRE	311 out of 340
		TOFEL	106 out of 120
4.	KAVI NILA G	GRE	307.5 out of 340
		TOFEL	100 out of 120
5.	KAVIPRIYA G	TOFEL	107 out of 120
6.	MAHIMA H	GRE	297.5 out of 340
		IELTS	6.5 out of 9
7.	NAVANEETHA KRISHNAN	IELTS	7.5 out of 9
8.	NAVIN R	TANCET - MBA	57 out of 100
		TANCET – M.Tech	30.83 out of 100
9.	NIVEDITHA J R	GATE	51.3 out of 100
10.	PATTABIRAMAN V K	GRE	306 out of 340
		TOFEL	101 out of 120
11.	PAVITHRA GABRIEL	GRE	307 out of 340
		TOFEL	102 out of 120
12.	PRIYANTHI K	GRE	307 out of 340
13.	VIJITHA G	TANCET – M.Tech	32.79 out of 100

## INTRA DEPARTMENT SYMPOSIUM 2017

The department of Chemical Engineering conducted an intra-department symposium for all II, III and IV Year CHEMICAL STUDENTS on **22-07-2017**. The students participated in various events Viz. **HOW WASTE STUFF WORKS, Chem Quiz, Chem Connections, Chemical Hazard Investigation, Working Model**

Prize amount of ₹ **10,000** was distributed to the prize winners of all the above mentioned events.

Sl. No.	Event	I prize (Rs.1000/-)		II prize (Rs.600/-)		III prize (400/-)	
		Name of the student(s)	Year	Name of the student(s)	Year	Name of the student(s)	Year
1.	Chem Quiz	Mohamed Ibrahim	III	Thaila K	IV	Monika Madhiyan	III
		Koushik Ram	III	Vineeth Anton Jose T	IV	Jessifer Jimna S J	III
2.	Chem Connections	Muthulakshmi	III	Aakash.V.R	III	Hariharan.R	II
		Nandhita.S		Jethin Laurence		Shriram.M.R	
3.	Chemical Hazard Investigation	Aakash V R	III	Soosai Nivek	IV	Daniel Raja N	II
		Jethin Laurence		Vignesh Kumar		Kameshwaran G	
4.	How Chem Waste Stuff Works	Raghavendar S	III	Agnel J Naveen	II	Abuthager Rekhan Faris R	II
		Shijoy Thomas		Hilton Samuel B		G R Rakesh Raj	
5.	Working Model	Akash Krishnadoss	II	Revathy R	II	Thaila K	IV
		Thiyagarajan M		Tabuja J		Vineeth Anton Jose	
<b>TOTAL PRIZE AMOUNT Rs.10,000/-</b>							

**செயிண்ட் ஜோசப்ஸ் பொறியியல் கல்லூரி**  
செயிண்ட் ஜோசப்ஸ் கல்விக் குழுமம்  
**தமிழ் மன்றம்**

**பட்டிமன்றம் அறிக்கை- 2018**

செயிண்ட் ஜோசப்ஸ் பொறியியல் கல்லூரியில் டாக்டர். எம்.ஜி.ஆர். அவர்களின் பிறந்த நாள் விழாவை முன்னிட்டு 08.02.2018 அன்று செயிண்ட் ஜோசப்ஸ் பொறியியல் கல்லூரி தமிழ் மன்றம் சார்பில்

**“குடும்பத்தின் மகிழ்ச்சிக்கும், கலகலப்பிற்கும் பெரிதும் காரணம்**

**ஆண்களே! பெண்களே!”**

என்ற தலைப்பில் பட்டிமன்றம் நடைபெற்றது.

கல்லூரித் தலைவர் மற்றும் நிர்வாக இயக்குனர் டாக்டர்.பாபு மனோகரன், இயக்குனர்கள் B. ஜெஸி ப்ரியா மற்றும் B. சசி சேகர், முதல்வர் டாக்டர். வட்டி சேஷகிரி ராவ் ஆகியோர் முன்னிலையில் நடைபெற்ற இந்த பட்டிமன்றத்தில் முனைவர் திரு. நெல்லை சுப்பையா நடுவராக பொறுப்பேற்று “குடும்பத்தின் மகிழ்ச்சிக்கும், கலகலப்பிற்கும் பெரிதும் காரணம் ஆண்களே!” என்று தீர்ப்பு வழங்கினார். ஆசிரியர்களும், மாணவர்களும் நடுவரது நகைச்சுவையான பேச்சைக் கேட்டு மகிழ்ந்தனர்.

!ÀŃŃŃ! என்ற அணியில் மாணவர்கள் செ. தேவேந்திரன் (I EEE-A), பெ. வைஷ்ணவி (I BIO), ப. தனுஷ் (I EEE-A), சே. சங்கீதா (I BIO), கோ. விஷால்ராஜ் (I ICE)ஆகியோரும்,

–ŃŃŃ! என்ற அணியில் மாணவர்கள் ப. சேதுவேலப்பன் (I MECH-C), இ. ஐஸ்வர்யா அன்னபூரணி (I BIO), பா. நிருபிரியா (I EIE-B), வி. ஜிம் டேவிட் (I EEE-B), பி. அருண் கார்த்திக் (I MECH -A)ஆகியோரும் பங்கேற்று வாதிட்டு அனைவரது பாராட்டுக்களையும் பெற்றனர்.

இவர்களில் பெ. வைஷ்ணவி மற்றும் பா. நிருபிரியா ஆகியோரை சிறந்த பேச்சாளர்களாக தேர்வு செய்து, கல்லூரித் தலைவர் மற்றும் நிர்வாக இயக்குனர் அவர்கள் ரொக்கப் பரிசு ரூபாய் 1000 அளித்து பாராட்டினார். பங்கேற்ற அனைவருக்கும் பங்கேற்பு சான்றிதழ் வழங்கப்பட்டது.

## BUSINESS ENGLISH CERTIFICATES (BEC)

Cambridge English: Business Certificates, also known as Business English Certificates (BEC), are a suite of three English language qualifications for international business.

### Cambridge English: Business Preliminary (BEC Preliminary) – CEFR Level B1

Cambridge English: Business Preliminary, also known as Business English Certificate (BEC) Preliminary, is the first of the three certificates. It is an intermediate level exam.

### Cambridge English: Business Vantage (BEC Vantage) – CEFR Level B2

Cambridge English: Business Vantage, also known as Business English Certificate (BEC) Vantage, is the second of the three certificates. It is an upper-intermediate level exam.

### Cambridge English: Business Higher (BEC Higher) – CEFR Level C1

Cambridge English: Business Higher, also known as Business English Certificate (BEC) Higher, is the third of the three certificates. It is a high level exam.

They will help you to achieve your ambitions to:

- ❖ work abroad
- ❖ work with international organizations in your own country
- ❖ Study business-related subjects taught in English.

They show that you can use English confidently in international business environments.

The results of BEC are

ASSESSMENT NAME	RESULT	NO OF STUDENTS	ASSESSMENT NAME	RESULT	NO OF STUDENTS
BEC VANTAGE	PASS AT GRADE A	3	BEC PRELIMINARY	PASS	12
BEC VANTAGE	PASS AT GRADE B	7	BEC PRELIMINARY	PASS WITH MERIT	3
BEC VANTAGE	PASS AT GRADE C	6	BEC PRELIMINARY	PASS WITH DISTINCTION	1
BEC VANTAGE	COUNCIL OF EUROPE LEVEL B1	1	BEC PRELIMINARY	COUNCIL OF EUROPE LEVEL A2	27

**BEC VANTAGE : 19 STUDENTS      BEC PRELIMINARY: 48 STUDENTS**

## INTRAMURAL SPORTS

In our college intra department sports was conducted to encourage the students to participate in sports activities. Various houses were formed among all departments and it is mentioned by different names. In our house CHEMICAL, BIOTECH and ICE are grouped together and named as CRANE.



### For I year it is conducted on 20<sup>th</sup> September 2017

- ❖ Basketball (men) - RUNNERS UP
- ❖ Basketball (women) - WINNERS

### For II year it is conducted on 7<sup>th</sup> February 2018

- ❖ Basketball (women) -WINNERS
- ❖ Football (Men) - RUNNERS UP
- ❖ Chess Men (Singles) - N.DANIEL RAJA

### For III year it is conducted on 14<sup>th</sup> February 2018

- ❖ Volley ball (women) - WINNERS
- ❖ Basketball (women) - RUNNERS UP

## NATIONAL TECHNICAL SYMPOSIUM – JET CHEM 2017

On September 9<sup>th</sup>, 2017, the 18<sup>th</sup> National Students' Symposium "JET CHEM 17" was conducted by the Department of Chemical Engineering. Rs 25,000 prize money was awarded to the winners of all the events. Students from various institutions VIZ, A C College of Technology, Anna University, Chennai and Trichy, S S N College of Engineering, Chennai, Vel Tech High Tech Engineering College, Chennai, Sathyabhama University, Chennai, Sri Venkateswara College Of Engineering Chennai participated in the symposium.

- ❖ Total no. of Colleges Participated – 07
- ❖ No. of Participants – 34

Sl. No.	Name of the Event	I Prize : Rs. 3000/-	II Prize : Rs. 2000/-	III Prize : Rs. 1000/-
		Name(s) of I Prize Winners	Name(s) of II Prize Winners	Name(s) of III Prize Winners
1	CHEM QUIZ	1.R S Goutham Kumar 2.M Maheswaran	1.S Karthik 2.K Jeeva	1.S M Amresh 2.Bharadwaj
		<b>A C Tech, Anna university</b>	<b>Sri Venkateswara College of Engineering</b>	<b>S R M University</b>
II	ELEMENTAL X	1.S Karthik 2.K Jeeva	1.R S Goutham Kumar 2.M Maheswaran	1.Kushpoo S 2.Poorna Priya V
		<b>Sri Venkateswara College of Engineering</b>	<b>A C Tech, Anna university</b>	<b>A C Tech, Anna university</b>
III	CHEM WARS	1.Rohit Mathur 2.Bharadwaj	1.Dharanidharan 2.Ajith Kumar	1.Harini S 2.Sowmiya V
		<b>S R M University</b>	<b>S R M University</b>	<b>A C Tech, Anna university</b>
IV	CHEM-BOOZLED	1.P L Sriram 2.G Sudarsan	1.S NAMresh 2.Karthik Vasudev R N	1.Kushpoo S 2.Poorna Priya V
		<b>SSN College of Engineering</b>	<b>S R M University</b>	<b>A C Tech, Anna university</b>
V	RECALIBRATE	1.R S Goutham Kumar 2.M Maheswaran	1.Ruthra Dharshini 2.Nandhini	1.S Karthik 2.K Jeeva
		<b>A C Tech, Anna university</b>	<b>A C Tech, Anna university</b>	<b>Sri Venkateswara College of Engineering</b>

## VALUE ADDED COURSES

Our college is always one-step ahead in motivating and shaping up our students towards their career development. In this aspect, we are conducting value added courses, which are courses beyond their curriculum, 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. Completing such value added courses makes the students to:

- **Enhance their learning skill, technical creativity and innovative ideas.**
- **Gain exposure towards recent trends in core fields augmenting their employability.**
- **Endeavor them for higher studies in India and abroad.**
- **Compete with the fellow students globally.**
- **Carryout innovative projects thereby contributing to research and development.**

Our institution has signed Memorandum of Understanding (MoU) with many leading organizations to organize value added courses to students, to take up specialized courses, which are currently being used in the industries. The students have the option to choose the courses according to their desires and inclinations. During the last academic year, students have undergone various value-added courses based on their interest. In our department many students were benefited and the details are given below.

Department	Year	Value added Courses	No of Students
CHEMICAL ENGINEERING	III	Instrumentation in Chemical Industries	72
CHEMICAL ENGINEERING	III	Advanced C	72
CHEMICAL ENGINEERING	III	Digital Image processing`	72
CHEMICAL ENGINEERING	III	Hands on value added course in computer aided drug designing	72

- Practical classes were conducted on Instrumentation in Chemical Industries for six days during 27.06.2017 to 03.06.2017 . Students have gained wide knowledge on various **instrumentation used in industries.**
- **Advanced C** programming training was given for 3 days by Ebox during 11.01.2018,12.01.2018 & 19.01.2018
- One day training was provided by **Digital Image processing`** by Pantech ProE Pvt Ltd on 23.02.18.
- **Hands on value added course in computer aided drug designing was** conducted by Biozone Research Technologies during 20.02.2018 to 21.02.2018

### ONLINE WORKSHOP

- Quality Improvement cell, in collaboration with IIT Mumbai and Anna university, is conducting an online workshop on OPEN FOAM. Following the workshop, students are provided with study materials to help them in facing 45 minute objective type online test. Students cleared the online test and achieved e-IIT certificate from IIT Mumbai. 72 students have attended OPEN FOAM.



## II YEAR VALUE ADDED COURSES

Value Added Courses are provided to students with an aim to teach and train in programming skills.. The goal is to accelerate the programming capability needed for solving scientific and real time problems demanded by the corporate world. Students have options to choose the courses according to their desire and inclination. It is great boon to our students, in expertise various Value Added Courses which enables them to face the formidable challenges.

Department	Year	Value added Courses	No of Students
CHEMICAL ENGINEERING	II	C/C++ course	68
CHEMICAL ENGINEERING	II	Data structures	68

- **C/C++ course** was provided by EBox for three days during 27/06/2017 to 29/06/2017
- Five days training was given on **Datastructure** by EBox during 9.01.18 to 12.01.18 & 19.01.18

### ONLINE WORKSHOP

- Quality Improvement cell, in collaboration with IIT Mumbai and Anna University, is conducting an online workshop on C/C++. Following the workshop, students are provided with study materials to help them in facing 45 minute objective type online test. Students cleared the online test and achieved e-IIT certificate from IIT Mumbai. 72 students have attended C/C++.68 students from 2<sup>nd</sup> year Chemical Engineering have attended C/C++

### Course Objective – C/C++, Datastructure

To facilitate the fundamentals of structured and Object Oriented programming concepts and to enhance the programming aspects in C/C++.

### The outcome of this course is to enable the students to

- Identify the usage of complex data types to solve scientific and real world problems.
- Identify the major elements in an object-oriented programming language.
- Implement operator overloading.
- Select the proper class protection mechanism.
- Derive classes using inheritance in C++.
- Demonstrate the use of virtual functions to implement polymorphism.
- Write programs utilizing the I/O classes in C++.
- Understand some advanced features of C++ including templates, exceptions, and multiple inheritance.

It is a matter of pride that the courses are taught by the experts from industries using the laboratory facilities available in our institutions to meet the requirements of industry on successful completion of such value added courses make the students to:

- ✓ Accelerate the programming skills
- ✓ Carryout innovative projects
- ✓ Compete with the fellow students during placement and interview process.

## BEST OUT GOING STUDENT AWARD 2017-2018

Success is not the destination that we reach. Success is the quality of our journey. The quality of the journey depends upon the goals we set and the mentors we choose. The quality of the mentor lies in appreciating even the smallest efforts as appreciation is the only tool which enables us to build the impossible. Mankind's greatest achievements have come about by constant encouragement. Our greatest hopes could become reality in the future if our efforts are recognized. With this the possibilities are unbounded. All we need to do is to appreciate and encourage the young minds as most achievers are people who have made a strong and deep dedication to pursue a particular goal. St. Joseph's recognizes this dedication by awarding the student with "The Best Outgoing Student Award". The most prestigious and most awaited award ceremony of the year "The Best Outgoing student Award" for this year was held in the St. Joseph's indoor Auditorium.

The criteria of best outgoing students are

- ❖ **Good in academics (CGPA)**
- ❖ **Good communication skills**
- ❖ **Best managerial skills**
- ❖ **Active participation in extracurricular & co- curricular activities.**
- ❖ **Attendance (not taken more than 4 days in a semester)**
- ❖ **Got placed or got admission for higher studies (secured good score in GRE or GATE exam if admission is not confirmed)**

**Brought laurels to the department or college**

**Organized activities at department level or college level**

**Not undergone any disciplinary proceedings and maintaining neat dress code**

**Quality of final year project.**

The students from various departments were selected as best outgoing students by the faculty members of the respective department. The faculty members select the best students by voting. The student who gets the highest number of votes would be awarded the best student award for the year. The Best outgoing students were felicitated by the Managing Director Dr. B. Babu Manoharan.

The following table shows the names of students from various departments selected as best outgoing student

S. No.	Department	Name of the best outgoing student
1	CSE	VISHWA PRIYA J
2	ECE	SERGITON DAVID
3	EEE	RACHEN R
4	IT	NANTHA KUMAR R
5	<b>CHEM</b>	<b>SARAN KUMAR M</b>
6	ICE	NARMADHA S
7	EIE	RITESH S
8	MECH	RAJARAM M
9	CIVIL	SOORYA B
10	BIO	PUNNAIVALAVAN K A
11	MBA	AGILA S
12	MCA	VARUN NACHIAPPAN S P

## ACHIEVER'S DAY 2018

Achievers day is celebrated every year during the month of April, in which students who brought laurels to the College during the academic year are honoured and rewarded.

Achievers Day for the Academic year 2017-18 was celebrated on 07. 04. 2017. The students who won various competitions have been invited. The invitees were

- Total Sports and Games Teams : 223 Players
- Inter-collegiate Paper presentation, Symposium, Conference position winners : 1463

Students

- Toppers :496 Students
- Blood donors from Youth Red Cross : 53 Students
- Members of Tamil Mandram: 20 Students
- Members of Our College Student Orchestra Team :  
44 Students
- Inter-collegiate Cultural Competition Winners : 43 students



No. of Students Honored	Total Amount Distributed
<b>2342</b>	<b>Rs. 11.13 Lakhs</b>

On the whole 2342 Students of our college belonging to various categories mentioned above were honored by distributing cheques and certificates on this special occasion.

This special function started at 6.00 P.M. with the High Tea followed by the distribution of Gifts. This event was made even more startling by our College Orchestra team and Dance Program by the students. The event ended at 9.00 P. M. with Splendid Vegetarian and Non-vegetarian Dinner.

## **OVERALL SPORTS ACHIEVEMENTS**

We proudly announce that we have achieved

### **Over All Championships**

For the past 14 years in the following

#### **Mega State Level Tournament/ Meets**

Conducted for all the Engineering Colleges/ Arts Colleges in Tamilnadu

#### **1. ANNA UNIVERSITY INTER ZONAL TOURNAMENTS**

From 2003 to 2016

Conducted for 631 Engineering Colleges in Tamilnadu

#### **2. TIES (TAMIL NADU INTER ENGINEERING SPORTS)**

From 2003 to 2016

Conducted for 631 Engineering Colleges in Tamilnadu

#### **3. JETS**

From 2003 to 2016

Conducted for Arts, Science and Professional Colleges in South India

#### **4. ST. JOSEPH'S INTER COLLEGIATE ATHLETICS MEET**

From 2003 to 2016

Conducted for Arts, Science and Professional Colleges in South India

## SPORTS ACHIEVEMENTS : 2017-18

BASKET BALL –MEN		VOLLEY BALL - MEN	
ZONE III	Winner	Zone-III	Winner
INTER ZONE	Runner	Inter Zone	Winner
PSN TROPHY-2018	Winner	Bertram Trophy 2017	3 <sup>rd</sup> Place
SA TROPHY 2018	Winner	State Level Invitation Volleyball Tournament2017,(Vilupuram)	3 <sup>rd</sup> Place
SSN TROPHY 2017.	3 <sup>rd</sup> Place	Pon State Level Invitation Volleyball Tournament(Vadugapatti)	Runner
HOCKEY -MEN		State Level Vadagadu Volleyball Tournament(Pudukottai)	Runner
Zone III	Winner	SA TROPHY-2018	Runner
Inter Zone	Winner	SVEC TROPHY-2018	Winner
Dr.RAJAGOPAL MEMORIAL TROPHY 2017,RASIPURAM.	RUNNER	Buck Tournament2017	Runner
Chennai Youthfest 2017	Runner	SA Trophy-2018	Runner
PSN Trophy 2018	Winner	Thamarai Volleyball Club State Level Volleyball Tournament,Kanyakumari,2018	Winner
Zone III	Winner	BADMINTON- MEN	
FOOT BALL -MEN		ZONE III	3 <sup>rd</sup> Place
ZONE III	Runner	LICET TROPHY 2018	3 <sup>rd</sup> Place
B S Abdur Rahuman Trophy-2018	3 <sup>rd</sup> Place	CHESS (MEN)	
CRICKET - MEN		ZONE III	Runner
MNM Jain Trophy 2018	3 <sup>rd</sup> Place	S A TROPHY-2018	Winner
KABADDI -MEN		WEIGHT LIFTING, POWER LIFTING, BEST PHYSIQUE	
ZONE III	Runner	Inter Zone (Weight Lifting)	Winner
TABLE TENNIS - MEN		Inter Zone (Power Lifting)	Runner
ZONE III	Runner	Inter Zone (Best Physique)	Runner
S A TROPHY-2018	Winner	BALL BADMINTON- MEN	
SSN TROPHY 2017	3 <sup>rd</sup> Place	Zone III	Winner
LICET TROPHY 2018.	3 <sup>rd</sup> Place	Inter Zone	3 <sup>rd</sup> Place
TENNIS – MEN		Loyola Bertram Trophy 2017.	Winner
ZONE III	Runner	Ms&Mrs Baulraj Memorial Ball Badminton 'B' Grade Tournament 2017 (A' Team), Tiruvarur.	Winner
LICET TROPHY 2018.	Winner	Ms&Mrs Baulraj Memorial Ball Badminton 'B' Grade Tournament 2017 (B' Team),Tiruvarur.	3 <sup>rd</sup> Place
BASKET BALL - WOMEN		State Level One Senior Ball Badminton Tournament 2017.Jolarpet.	Winner
ZONE-III	WINNER	37 <sup>th</sup> State Level One Senior Ball Badminton Men Tournament 2018.Tirupur.	Winner
S A TROPHY-2018	Runner	State Level One Senior Ball Badminton Tournament 2018, Karur, TNPL.	Winner
INTER ZONE	Runner	TABLE TENNIS - WOMEN	
MOP VAISHNAVA TROPHY-2018	Runner	ZONE III	Runner
SSN TROPHY 2017	3 <sup>rd</sup> Place	MOP TROPHY-2018	Winner
PSN TROPHY 2018	Runner	SSN TROPHY-2017	Runner
SVCE	Winner	VOLLEY BALL - WOMEN	
BADMINTON - WOMEN		SA Trophy-2018	Runner
ZONE III	Winner	Zone-III	Runner
INTER ZONE	Winner	Licet Trophy 2018	3 <sup>rd</sup> Place
SSN TROPHY-2017	Winner	Buck Trophy 2017.	3 <sup>rd</sup> Place
LICET TROPHY 2018	Runner	WEIGHT LIFTING POWER LIFTING - WOMEN	
CHESS - WOMEN		Inter Zone (Weight Lifting)	Runner
MOP Trophy-2018	Winner	Inter Zone (Power Lifting)	Runner
Zone III	Runner	TENNIS - WOMEN	
SSN Trophy-2017 (Combined)	Winner	Inter Zone	3 <sup>rd</sup> Place

## ANNA UNIVERSITY BLUES 2017-18

S.NO	NAME OF THE STUDENT	YEAR-DEPT	GAME
1.	S.KARTHIKEYAN	III-EIE	ATHLETICS
2.	M.SIVAPRAKASH	IV-EIE	ATHLETICS
3.	B.PRAVEEN	IV-ICE	ATHLETICS
4.	K.SABARISANKAR	IV-ICE	ATHLETICS
5.	A.MOHAMED NISSAN	II-MBA	ATHLETICS
6.	N.KALAISELVAN	I-MBA	BALL BADMINTON
7.	S.ARAVINDAN	IV-EIE	BALL BADMINTON
8.	B.DANUSH KUMAR	IV-IT	BADMINTON
9.	S.AKSHAYA	I-CSE	BADMINTON
10.	S.AJAY KRISHNA	II-MECH	CHESS
11.	A.S.JAKIL	III-IT	CHESS
12.	B.SOORYA	IV-CIVIL	BASKETBALL
13.	DALAVI SAURABH NAMDEV	III-EIE	BASKETBALL
14.	K.N.NIRMAL	IV-CIVIL	BASKETBALL
15.	J.SUCHITHRA	III-EEE	BASKETBALL
16.	R.TEENA	II-EIE	BASKETBALL
17.	S.DIVYA	III-EIE	BASKETBALL
18.	R.ATHITHAN	IV-CIVIL	TABLE TENNIS
19.	S.AJITH KUMAR	II-EEE	TABLE TENNIS
20.	S.SHANMATHI	IV-CSE	TABLE TENNIS
21.	RAVEENA DEENADAYALAN	IV-IT	TABLE TENNIS
22.	S.LALUPRASATH	II-CIVIL	WEIGHT LIFTING
23.	M.H.SIDIQ	II-EIE	WEIGHT LIFTING
24.	S.KARTHICK	II-MECH	WEIGHT LIFTING
25.	R.KUGESH	II-CSE	WEIGHT LIFTING
26.	D.AGALIYA	II-EIE	WEIGHT LIFTING
27.	R.MAHENDRAN	IV-MECH	BEST PHYSIQUE
28.	M.RANJITH	II-ME	POWER LIFTING
29.	A.SAKTHIVEL	IV-MECH	POWER LIFTING
30.	S.ELAVARASAN	IV-CIVIL	POWER LIFTING
31.	P.RAMYA	II-MBA	POWER LIFTING
32.	K.KAMALI	III-MCA	POWER LIFTING
33.	C.GANGATHARAN	II-MBA	HOCKEY
34.	C.SARATH BABU	IV-ECE	HOCKEY
35.	C.ARAVIND SAMY	IV-EEE	HOCKEY
36.	A.ROBIN FELIX	I-MBA	HOCKEY
37.	R.S.AJAY EASWARAN	IV-ICE	HOCKEY
38.	S.VENISLAS	I-MBA	HOCKEY
39.	S.CLARANCE SUSHIL	III-EIE	HOCKEY
40.	K.ABINASH	III-ICE	HOCKEY
41.	K.BALACHANDAR	I-EIE	VOLLEYBALL
42.	S.PALANI	I-MBA-5	VOLLEYBALL
43.	V.SELVA VINAYAGAM	I-MBA-5	VOLLEYBALL
44.	S.VIGNESH	III-EEE	VOLLEYBALL
45.	V.SUBRAMANIAN	IV-CIVIL	VOLLEYBALL
46.	B.MIDHUN KUMAR	I-MBA-5	VOLLEYBALL
47.	M.S.PAVAN GUPTA	III-ECE	SWIMMING
48.	C.S.B.PRITHIVI RAJ	II-CIVIL	SWIMMING
49.	AJAY NARAYANAN	IV-IT	ROWING
50.	G.V.BALAJI	III-ECE	TAEKWONDO
51.	NICOLAS ISRAL PATRICK	II-EEE	YATCHING

## COLLEGE DAY AND CULTURAL COMPETITION RESULTS

### II, III & IV YEAR COLLEGE DAY (2017 – 2018)

The most awaited aura of the year filled with enthusiasm and passion to triumph was all set in the month of August. Enlightening this year with the **College Day '17 Eve, the 11<sup>th</sup> of August 2017**, a one day fun packed mega cultural extravaganza kindled the joy of the students. A well unified amalgamation of 13 talent hunting events such as quiz, egg shell painting, scrap art, light music, etc., were piled up. Students with their stupendous skills exhibited their talent with zeal and dynamism and the well deserved was embraced with cash reward of **Rs. 1000/-, Rs. 600/-, Rs. 400/-** for the first, second and the third positions respectively.

The following students won prizes in these events

S.No	EVENT	I PRIZE	II PRIZE	III PRIZE
1.	Light Music	M. Arun Kumar – IV ICE	NivedhaMurali Shankar II Bio-Tech	NissiChrisolite A – II IT
2.	Creative Writing (Tamil)	<b>K. Gokul Ramesh–II Chem</b>	E. M Dinesh - III ICE	M. Ramakrishnan – III MCA
3.	Drawing(Pencil)	Uma Maheswari–II EIE	Visali Lakshmi–II EIE	Hanna Isaac–II ECE
4.	Oratorical (English)	Pallav Singh– III CSE	Mary Avelin J – II CSE	Kamala Shruthi. S – III ICE
5.	Creative Writing(Eng)	Preethi.R–II CSE	MattinaMano.M–III IT	SnehaMirulalini –II BT
6.	Oratorical (Tamil)	K.APunnaivalavan -IV Biotech	Eneeyan N – II IT	Arun S –III Chem
7.	Egg Shell Painting	E. Raviraj - II Mech	H. Akshaya- II EIE	R. Rajasekar – IV IT
8.	Quiz	Sathya Narayanan P – III Mech Sannjai R – III Mech	Diwakar S –II MBA David IrudayaVimal – II MBA	Mohamed Rizwan T K – IV ICE Dinesh E M – III ICE
9.	Rangoli	Hemasree S – II CSE Guruprabha V – II CSE	S. Martina Valogia– II M.E(S/W) A.H NazreenFathima – IIME(S/W)	M. Agnes Rachel– II MBA C. Mani Arasi– II MBA
10.	Collage	SaiMahima K – III CSE Raja Lakshmi J. R – III CSE	Abinaya P – IV BioTech Kanagalakshmi B – IV BioTech	Sowmmiya G– IV EEE Yuvashree J S – IV EEE
11.	Dumb C	<b>Agnel J. Naveen - II Chem</b> <b>B. Hilton Samuel - II Chem</b>	RamkrishnaM–IV EIE Rajesh . C – IV EIE	T J Jayasuriya – III EEE G. Kavipriya– III EEE
12.	Scrap Art	A.P Swetha Priyadarshini– II EIE F.R Amirtha Priyadarshini–II EIE	Charulochna–II BioTech AishwaryaMathee – II BioTech	R. Saranya – III IT A. Sanjana – III IT
13.	PattukuPattu	Shereen Esther J – II CSE Yuvedha D – II CSE	S. Akash – III CSE Aswin . C – III CSE	Kirthiga M –III CSE Malvika– III CSE

The day, **12<sup>th</sup> of August 2017** we witnessed the most awaited day of the year – the ‘**College Day**’. It is a platform to put on display the cultural dexterity and to nourish the spirit with the splendid palette of multi-flavored events!! This event was made even more startling by the Orchestra team of our college. Students of all departments exhibited their assorted talents and best of the show were rewarded. A huge amount of **Rs. 40,000/-** was distributed to the best dances, best variety shows, and innovative entertainments, such that each deserving team received a prize money of **Rs. 4000/-**. The winners of the cultural events were honored with cash prizes, which were distributed by the Judges.

**“Best Events of the College Day”**

S.NO	EVENT NAME	TEAM LEADER	DEPARTMENT	PRIZE AMOUNT
1.	B-Fab	M. Saranya	BT	4000
2.	Miming	Gopi & Team	IT	4000
3.	Human Formations	R S Divin	CIVIL	4000
4.	Shadow Dance	Surya & Team	EEE	4000
5.	Human Pyramid	Vijay Karthick	EEE	4000
6.	Fusion Dance	Vasavi S A & Team	ICE	4000
7.	<b>Cemetery</b>	<b>Muthulakshmi</b>	<b>CHEM</b>	<b>4000</b>
8.	Panther’s Dance	Sathish Kumar S	EIE	4000
9.	Classical Dance	Chethana S	EIE	2000
10.	Mimicry	Benny Paul	MECH	2000

The winners of the cultural events which were conducted on the previous two days were honored with cash prizes and certificates, which were distributed by the college Chairman Dr. B. Babu Manoharan, Principal, Dr. Vaddi Seshagiri Rao and Dean Research Dr. B. Parvathavarthini.

## **I YEAR COLLEGE DAY (2017 – 2018)**

The college day for the first year students was celebrated with a one day mega cultural extravaganza that was put up on the **16<sup>th</sup> of March 2018**.

A well blended combination of 13 events such as quiz, pattukupattu, scrap art and light music was staged and the students exhibited their talents with enthusiasm and vigor. The deserving young achievers were awarded with a prize money of **Rs. 1000/-**, **Rs. 600/-**, **Rs. 400/-** for the first, second and third places respectively. The following students won prizes in these events:



S.No	EVENT	I PRIZE	II PRIZE	III PRIZE
1.	Light Music	HemanthPrakash G (Mech)	Varshini S (ICE)	AnuradhaKrishnaratnam (CSE)
2.	Creative Writing (English)	Siva Suriya T (CSE)	Yazhini R (BT)	Anjali Ramani (CSE )
3.	Egg Shell Painting	Sowmiya G (BT)	SibiRajan E K (MBA )	Abhishek S (ECE)
4.	Creative Writing (Tamil)	Raj Krthika R (EEE )	Hemalatha K S (EEE)	Ramya J (ECE )
5.	Drawing (Pencil)	Lokesh R (ECE)	KoyalGopika M (EIE)	Vignesh S (Mech )
6.	Oratorical (English)	Karunya D (EEE )	Vaishnavi K (Chem)	Vijay A (CSE )
7.	Oratorical (Tamil)	Jim David W (EEE )	ArunKarthik P (Mech )	Sethuvelappan P (Mech )
8.	Rangoli	Rakshmitha M (CSE) Priyanka E L (CSE)	Priyadarshini I(ECE) Thevatharshini A (ECE)	Deepa K (M.E S/W) Kalivani I (M.E- CSE)
9.	Dumb Charades (Premils, Final)	Saravanan P EEE) Rahul R (EEE)	Yogesh S N(EEE) Prem M (EEE)	Kumaraguru K R N (ECE) Praveen Kumar M (ECE)
10.	Scrap Art	Reshika R(EIE ) Ramya M(EIE )	Keerthisree P(IT ) Malathi V (IT)	Muthu Mohan P (BT) Sathish Kumar G (BT)
11.	PaatukuPaatu (Premils,Final)	Priyadarshini M (BT) BasillaEurroshini L E(BT)	Raj Krthika R (EEE ) Hemalatha K S (EEE)	Siva Priya B (EEE) Siji Catherine J (EEE )
12.	Collage	Jennifer Dania T (EEE ) Pavithra Ravi(EEE )	Roshni R (MBA ) Swathi A P (MBA )	Priyadarshini P (EEE ) Purnima T (EEE )
13.	Quiz (Premils,Final)	Vishwanath G K (Mech) Wittin Prince C (Mech )	Saravanan P (EEE) Sri Hari S (EEE )	Abishek P A (ICE) Hari Haran J (ICE)

The **College Day for I year students** was celebrated on the following day, the **17<sup>th</sup> of March 2018** which provides a platform to show the talents and spirit of students in various cultural multi-flavored

events. The College Orchestra with first year students gave a pleasant as well as rhythmic entertainment on that day.

Students of all departments have shown their talents and best performances were rewarded. A huge amount of **Rs. 56,000/-** was distributed to the best dances, best variety shows, and innovative entertainments, such that each deserving team receives a prize money of **Rs.4000/-**. Cash prizes were distributed by the Judges to the winners at the end of the day.

**“Best Events of the College Day”**

S.NO	EVENT NAME	TEAM LEADER	DEPARTMENT	PRIZE AMOUNT
1.	<b>Pyramid formation</b>	Guru Varma.K -	MECH	4000
2.	<b>Classical Dance</b>	Thivyalakshmi	EIE	4000
3.	<b>Women Power</b>	AishwaryaThiyagaraj	ECE	4000
4.	<b>Deunix Teens</b>	RenugaDharene	CSE	4000
5.	<b>Gujarathi Dance</b>	Kiruthika.R	CIVIL	4000
6.	<b>Marriage Dance</b>	Abirami.V.G	ECE	4000
7.	<b>Gana Girls</b>	Janavi .K	CSE	4000
8.	<b>Western Via Folk</b>	Sakthivel .S	MECH	4000
9.	<b>Red Dragan</b>	Arun Kumar .S	EEE	4000
10.	<b>Verteians -Tribal Dance</b>	SivaPriya B	EEE	4000
11.	<b>The Step Strike</b>	JyothikaNarayani	IT	4000
12.	<b>Classical Dance</b>	Keerthana . A	ICE	4000
13.	<b>Dancing Dolls</b>	AishwaryaAnnapoorani	BT	4000
14.	<b>Love for Parents-MIME</b>	Prashanth	IT	4000

The winners of the cultural events which were conducted on 16.03.2018 were honored with cash prizes and certificates, which were distributed by the Chairman Dr. B. Babu Manoharan, Principal, Dr.VaddiSeshagiriRao and Dean Research Dr. B. Parvathavarthini.

## SPECIAL OCCASSSIONS

### IFDHAR

Our College celebrated Ramzan on **18<sup>th</sup> June 2017**. All the Muslim students in our college underwent fasting within the campus. The early morning food called as “sahar” according to the Muslim custom, was served with delicious items by the college in the mess at 4.30 a.m. In the evening, the Muslim students were served for “Ifthihar” with dates, cool drinks porridge as a sign breaking the fast. The hostel students attended Namaz in their respective hostel rooms. Special Namaz was conducted at 1.00 p.m on Fridays. During Ramzan fasting period, prayers were conducted in our college mosque.

### ONAM

The festival of rice harvest was celebrated on **1<sup>st</sup> Sep 2017** with great spirituality and delight. All Malayali students participated with enthusiasm on this special occasion. Our Beloved Chairman & Managing Director attended this festival with his family and conveyed his wishes to all the students. Malayali students dressed up in their traditional wear, particularly girls wearing the kasavu saree and performed kaikottikali, Malayalam pattu and Nadakam. The celebration was called off with the grand dinner where the menu included aviyal, erussery, pulisery, nenthampazham and different types of payasam.

### TEACHERS DAY

Our College celebrated the Teachers day as a special occasion from **Aug28 to Sep 5 2017**. The students entertained their respective department’s faculty members with unique shows on that special day. Our Management gave gifts to all the teachers of our college as a token of appreciation.

**Vinayaka Chathurthi** Our college celebrated Vinayaka Chathurthi on **25<sup>th</sup> August 2017**, by decorating Ganesha’s statue of our college temple with flowers. Pooja was grandly performed in the temple in the presence of our beloved Chairman & Managing Director’s family. Delicious food was offered to the Lord and Kozhakatai was distributed to the students. Many students came forward to participate on that occasion and filled in with all blessings of Ganesha.

### AYUDHAPOOJA

Our College celebrated Ayudha Pooja on **28<sup>th</sup> September 2017**, by arranging Kolu for 9 days in our college from the day of Mahalaya Amavasya till Vijayadasami. On this special day, all the Laboratories and Office were beautified with plantain trees, mango leaves and glazing papers followed by a pooja in the presence of Chairman & Managing Director’s family. The remarkable part of this celebration was the mouth-watering lunch, sweets and ice creams that were served for all the students and staff. Gift vouchers for deepavali were distributed on the day of Ayudhapooja to Administrative staff, Technical staff, Non-Technical staff, Drivers, Sweepers, workers in the mess and daily wage workers.

### DEEPAVALI

The festival of lights is celebrated with full delight and enthusiasm. Deepavali is the most expected festival by all. This year the festival of lights was celebrated on **14<sup>th</sup> October 2017**. On this special eve, a grand lunch with exotic dishes ranging from mouth lingering sweets to delicious deserts was served. **Deepam** Kaarthigai Deepam is celebrated on the full moon day in the Tamil month of Kaarthigai. This festival is known for brightened lights lit all over the place signifying growth and prosperity. The deepam celebrations took place in our college on **2<sup>nd</sup> December 2017** with lamps lighted by the divine flame that is believed to fend off evil forces and escort ecstasy.

### CHRISTMAS

Christmas is the season of joy, holiday greetings exchanged, gift-giving, and families getting united. The Christmas celebrations took place in the college campus on **20<sup>th</sup> December 2017**. On Christmas day, a special mass was conducted in the college chapel. The celebrations included a rhythmic performance from the college choir and an add-on surprise package by Santa Claus. The staff and students were completely spellbound with the Christmas gratification and the day was called off with a hearty lunch.

#### PADIPOOJA

The festival was celebrated on **3<sup>rd</sup> December 2017** by decorating the holy steps of Ayyappa with flowers and silk clothes and lighting traditional lamp. The Chairman & Managing Director, Staff and Students attended the pooja and "irumudi" was tied to those who went to sabarimala. Traditional songs were sung in pooja and a grand feast was given to those who attended pooja.

#### PONGAL

Pongal is an occasion that is believed to chime in the opulence. It is renowned as a thanksgiving festival for various Hindu deities. "Thai" is the first month of the Tamil Almanac where the joy-filled Pongal occasion comes. The celebration in the college took place on **12<sup>th</sup> January 2018**. The day's lunch was served with different varieties of Pongal. Indeed, Pongal is a festival of freedom, peace, unity and compassion crystallized in the last hymn on unity in the Indian spiritual text the Rig Veda.

#### HOSTEL DAY

Hostel day is one of the most awaiting occasions of the year in St. Joseph's College of Engineering. This wonderful day was celebrated in the college on **17<sup>th</sup> February 2018** with lots of events conducted for both boys and girls. The hostel was decorated with colour lamps and balloons making it more eye-catching. Cricket, Volleyball, Basketball, Kabaddi matches were held and the winners and runners were awarded with cash prizes. Cultural events such as singing, skit and dance were performed in the presence of our beloved Chairman & Managing Director. Matches and other events were conducted 3 days prior to hostel day. Special dinner and snacks was provided to the hostilities.

#### UGADI

Our College celebrated Ugadi on **18<sup>th</sup> March 2018**. The Telugu New year festival popularly called as Ugadi comes close on the heels of Holi. This day of celebration is marked by religious fanaticism and social jollity. Special dinner was served for the hostel students. Exotic dishes made with raw mango went on well with the occasion. Ugadi which is considered to be the most auspicious time to start new ventures was indeed a cheerful and a memorable celebration to be remembered by the staffs and students of our college.

#### EASTER

Our College celebrated Easter on **2<sup>nd</sup> April 2018**. Easter is the springtime holiday marking the rebirth of Jesus and the renewal of the Christian faith. A special programme was conducted by St. Joseph's College Fellowship in our college Placement Cell which was attended by students and staff. The celebrations started with worship songs and prayer. Heartfelt wishes were shared among everyone and ended off with holy blessing of God. **Tamil New Year** Our College celebrated Tamil New year on **13<sup>th</sup> April 2018**. The Tamil New year festival is popularly called Puthandu. It is the celebration of the first day of the traditional Tamil calendar. The day is marked with feast and decorated with kolams. Special lunch was served to all as a part of celebrations.

## ARTICLES

### NUCLEAR DESALINATION

**Nuclear desalination** uses excess heat created by nuclear power plants to evaporate the salt and other unnecessary minerals from seawater and condense the pure water. Reverse osmosis drives the pumps which pressurize the water and force it through tiny, semi-permeable membranes. After this occurs, purified water exits through the membrane, and the salt is left by itself on the other side. This whole procedure is facilitated by nuclear energy, using it to drive the entire process. Although this form of water purification hasn't completely skyrocketed in popularity, many people feel that it soon will because of all the positives it brings to the table.

#### Advantages

For those countries that already have established nuclear power plant programs (especially smaller to medium sized ones), this form of purification is almost already done. All that these areas will have to do is just equip these plants with some more materials in order to desalinate the salt water. Additionally, nuclear desalination is a promising alternative to using fossil fuels because of the absence of emerging, harmful emissions. Nuclear energy doesn't emit dangerous substances into the air; therefore, it is quickly becoming the preferred choice of fueling in processes like desalination.

#### Disadvantages

Although this whole process of nuclear desalination may sound too good to be true to some, there are some negatives that help put this whole process into perspective. Because this technique involves using the nuclear power plants as energy to desalinate the water, there are possibilities that some of the radioactive materials could be released into the water itself. Even though most plants already have safety precautions put into place, nuclear energy is a dangerous ingredient that could find its way into this potable water by way of an accident or even through leakage.

#### Concluding Thoughts

Perhaps nuclear desalination may not be good enough of a tactic to last humans for eternity, but at least it can serve as a temporary solution.

*“Seventy percent of our world is covered in water, but only two and a half percent of that comes as fresh water”.*

Why shouldn't we pour more time and effort into researching methods such as this one when purifying water is obviously a problem in our world today?

- *MONIKA.V*

*II YEAR CHEMICAL*

## DESALINATION

Desalination process in Nuclear power plant where sea water is used as a source water. At first sea water is taken from the sea into desalination plant for desalination process. The water which enters into the desalination plant is first purified. In this first purification the organisms like algae, fungi and other small microorganisms are removed. And then the particles like stones and etc are removed. Then by the ERCHLORINATION process chlorine is added which has the oxidizing and disinfecting property. With addition of chlorine the various organic and and inorganic materials are oxidized and all the pathogenic and other micro organisms are killed or inactivated. Then by AERATION of water air is added to the water in order to kill all anaerobic microorganisms and to oxidize all organic materials. Then by sedimentation all the materials are sedimented and removed by filtration.

The sea water consists of above 36, 000ppm. After the desalination process it means removal of all minerals present in the water, it has the ppm of about 0. 2ppm. This is stored in the tank. The desalinated water can not be used for drinking directly because it has not minerals in it except cation and anion. So soda is added in a particular amount which makes the desalinated water into drinking water.

- JEROME JOSIAH M

*II YEAR CHEMICAL*

## THE NEW REVOLUTION-DESALINATION

As our global population increases, sources of high quality and fresh water decrease. Only .003% of water on earth is available for human consumption. Inadequacy of good water also could lead to serious problems like drought leading to famine. Statistics say that 13 kgallons of water is wasted domestically around the globe.

### DESALINATION

Recycling of water is a best method to solve this trouble. So chemical engineers have scaled an efficient and economical method called DESALINATION operated in a plant. Desalination is the process that removes excess salts and other minerals from water. The impure water is collected and are made to undergo various processes. Two major technologies are primarily used around the globe, THERMAL DESALINATION and MEMBRANE TECHNOLOGIES.

### REVERSE OSMOSIS

A well-known process, this process is categorized under **membrane technology**. This plant is set up in a very large scale and gallon of waste water are converted into human consumable water. Basically RO uses pressure gradient as driving force to move high pressure waste water through a membrane and prevent salt ions from passing.

Currently world's largest membrane water treatment plant is located in California. This plant turns treated sewage from sanitation department into drinkable water. The waste water goes through a 3 step purification process. First micro filters remove particles and bacteria. Secondly, using RO process, water is sent into hundreds of RO tubes. Finally exceptional viruses are removed under high powered UV light tanks.

**HARITHA R**

**II YEAR CHEMICAL**

## METHODS OF DESALINATION

**Desalination** is one of mankind's earliest forms of water treatment, and is still a popular treatment throughout the world.

The oldest method is to heat the water until the steam comes off. The steam is then collected and cooled until it condenses back into pure water. This process is called **distillation**, and the water is called distilled water.

A similar method is **vacuum distillation**. Sea water is made up of components that vaporize at different pressures. Since water is a volatile component, the pressure of the mixture can be lowered until the water turns into steam, effectively removing impurities such as salt. The steam is then condensed to become fresh water.

**Freezing** is one of the low-cost methods for desalination. This method can be used in remote areas, cold regions, and small societies. This method is based on the principle that, ice crystals mainly consists of pure water, when the temperature of the saline water is lowered to its freezing point and further heat is removed. This process involves three steps (i.e.), separation of ice crystals from brine, cleaning of the ice crystals to remove the adhering salts on the crystal surface, and melting of ice to produce pure crystals.

The most effective method today that we know of is **reverse osmosis**. This method works by pushing the salt water through a semi-permeable membrane that has holes large enough for the water molecules to pass through but too small for salt or other molecules to pass through. The pressure applied to push the feed water should be greater than that of the osmotic pressure. The water that passes the RO membrane is known as the permeate whereas the salts and other contaminants are discharged through a reject stream/brine stream.

**M.HARIPRIYA**

**III YEAR CHEMICAL**

## DESALINATION

Desalination or desalinization refers to any of several processes that remove the excess salt and other minerals from water in order to obtain fresh water suitable for animal consumption or irrigation, and if almost all of the salt is removed, for human consumption, sometimes producing table salt as a by-product.

The traditional process used in these operations is distillation - essentially the boiling of water at less than atmospheric pressure, and thus a much lower temperature than normal. Due to the reduced temperature, energy is saved.

In the last decade, membrane processes have grown very fast, and Reverse Osmosis (R.O.) has taken nearly half the world's installed capacity.

Membrane processes use semi-permeable membranes to filter out dissolved material or fine solids.

The systems are usually driven by high-pressure pumps, but the growth of more efficient energy-recovery devices has reduced the power consumption of these plants and made them much more viable; however, they remain energy intensive and, as energy costs rise, so will the cost of R.O. water.

- *SHRIRAM M.R*

*III YEAR CHEMICAL*

## DESALINATION- THE BOON

Desalination has been known to history for millennia as both a concept, and later practice, though in a limited form. The ancient Greek philosopher Aristotle observed in his work *Meteorology* that "salt water, when it turns into vapour, becomes sweet and the vapour does not form salt water again when it condenses," and also noticed that a fine wax vessel would hold potable water after being submerged long enough in seawater, having acted as a membrane to filter the salt. There are numerous other examples of experimentation in desalination throughout Antiquity and the Middle Ages but desalination was never feasible on a large scale until the modern era.

So what is desalination ? What is the necessity to use it? What are the methods that can be adopted? All these question raise up. This article serves best in providing answers to all these questions.

**Desalination** is a process that extracts mineral components from saline water. More generally, desalination refers to the removal of salts and minerals from a target substance. Most of the modern interest in desalination is focused on cost-effective provision of fresh water for human use because of the water scarcity problem being an alarming issue. Currently, approximately 1% of the world's population is dependent on desalinated water to meet daily needs. According to the International Desalination Association, in June 2015, 18,426 desalination plants operated worldwide, producing 86.8 million cubic meters per day, providing water for 300 million people. This number increased from 78.4 million cubic meters in 2013, a 10.71% increase in 2 years. The single largest desalination project is Ras-Al-Khair in Saudi Arabia, which produced 1,025,000 cubic meters per day in 2014.

There are numerous methods for performing desalination.

- ❖ Reverse osmosis
- ❖ Vacuum flash distillation
- ❖ Multistage distillation
- ❖ Freeze thaw
- ❖ Electrodialysis reversal



- ❖ Solar evaporation
  - ❖ Wave powered desalination
  - ❖ Membrane distillation
- Other approaches include,
- ❖ Forward osmosis
  - ❖ Biomimesis
  - ❖ Electrokinetic shock
  - ❖ Hydrogel based desalination
  - ❖ Nanotechnology
  - ❖ Geothermal
  - ❖ Passarell

So one can conclude that the desalination is one of the best growing technology in purifying water for human use .To put it differently we can say it as the helping hand for our water crisis.

- *VAISHNAVI K*

*III YEAR CHEMICAL*

### REVERSE OSMOSIS DESALINATION

Is it worth it? Reverse osmosis is the most popular desalination process. The current standard technology uses high pressure pumps to force water through semi-permeable membranes to eliminate salt and impurities. Unfortunately those aren't the only things it removes from water. This process also removes the essential minerals from water. In addition it uses high amount of energy to operate impacting your operational costs exponentially. Conventional sea water RO process use up to 3.5KWhrs of energy to produce a cubic metres of desalinated process.

Instead of pushing sea water through dense membranes to remove dissolved salt ions, another option could be, to use electricity to treat sea water, a process known as **electro dialysis**. Electro dialysis is an electrochemical process in which the salt ions which carry either a positive or negative charge are removed from water when they are attracted to the electrodes of opposite charges. In the process ions selectively pass through attracting ion exchange membranes to create separate streams of purified and concentrated water.

The electrochemical concept of moving salts across an electric field uses much less energy than pumping large volumes of sea water through semi-permeable membranes under high pressure. **NEX electro dialysis technology** is a trending one. It provides consistent water quality with variable feed water parameters or partial removal of contaminants without the need for blending. Because output quality can be manipulated by input power adjustments which means the energy consumption, operating costs and space required for sea water reverse osmosis can be reduced and optimized membrane for electrochemical desalination, cost driven design.

This research is co-funded by PUB and Singapore National Research Foundation under its technology

- *REVATHY*

*III YEAR CHEMICAL*

**SOLAR HUMIDIFICATION –DEHUMIDIFICATION METHOD**

Water and energy are two of the most important topics on the international environment and development agenda. The social and economic health of the modern world depends on sustainable supply of both energy and water. Many areas worldwide that suffer from fresh water shortage are increasingly dependent on desalination as a highly reliable and nonconventional source of fresh water. So, desalination market has greatly expanded in recent decades and expected to continue in the coming years. In the developing world, water scarcity led to the pressing need to develop inexpensive, decentralized small-scale desalination technologies that use renewable resources of energy. One of the most promising of these technologies, is the humidification–dehumidification (HDH) desalination powered by solar energy.

The solar humidification–dehumidification method (HDH) is a thermal desalination technology that imitates nature's rain cycle.. It is based on evaporation of sea water or brackish water and subsequent condensation of the generated humid air, mostly at ambient pressure. Its basic components are a humidifier, a dehumidifier, and a heater. In the humidifier, air is humidified through direct contact with salty water. In the dehumidifier, hot moist air is put in indirect contact with cold salty water. This causes water vapour to condense, which produces a fresh water stream. Seawater desalination has already confirmed its potentiality to resolve the fresh water problems in numerous countries .It is , however,to be noted that in spite of the good reliability and favourable economic aspects of desalination processes,the problem of high energy consumption till remains to be resolved .

- **VEDHA LAKSHMI**

**III YEAR CHEMICAL**

**Department of Chemical Engineering**  
**Branch Toppers**  
**(Batch : 2014-18)–Passed out (Up to VIII sem)**



CGPA 9.22

**Mr. DELIGHT AZARIAH DANIEL**

S/O, Mr.S.Wellington Dhanasingh, Mrs.Jasmine Patience



CGPA 9.17

**Mr. PRASANTH.N**

S/O, Mr.R.Narayanan, Mrs.C.Sindhu

**(Batch : 2015-19)–Current IV Year (Up to VI Sem)**



CGPA 9.20

**Mr. MOHAMED IBRAHIM S**

S/O, Mr.A.K.Shibly, Mrs.Niyamathunnisa



CGPA 8.95

**Mr. AAKASH V R**

S/O, Mr.V.Ramesh, Mrs.R.Revathy

**(Batch : 2016-20)–Current III Year (Up to IV sem)**



CGPA 9.11

**Ms. Vedhalakshmi S**

D/O, Mr.S.Sundaresan, Mrs.S.Sangeetha



CGPA 8.98

**Ms. REVATHY R**

S/O, Mr.P.Ramanathan, Mrs.R.Kasthuri

**(Batch : 2017-21)–Current II Year (Up to II sem)**



CGPA 9.12

**Ms. MONIKA V**

S/O, Mr.Venkatesan.D, Mrs.Shanbagavalli V



CGPA 9.06

**Mr. Dharkshith K**

S/O, Mr.K.Kalyana Sundaram, Mrs.K.Dhanalakshmi