

Messages...

Dr.B.Babu Manoharan M.A., M.B.A, Ph. D. Managing Director.

"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 30th issue that has its focus on "CARBON SEQUESTRATION". I extend to them hearty congratulations.

Mr.B.Jaikumar Christhurajan, M.E., M.B.A. Director, St. Joseph's college of Engineering.

I take immense pleasure to congratulate the students and staff members of chemical engineering department for their effort in releasing the magazine "CARBON SEQUESTRATION"- Volume xxx

> Dr. Vaddi Seshagiri Rao, M.E., Ph.D.

Principal, St.Joseph's College of Engineering.

The 30th issue of "**JET CHEM ENGINEERS**" being released by the students of chemical engineering deserves appreciation for its focus on "CARBON SEQUESTRATION". I extend to them hearty congratulations.

MESSAGE FROM EDITORIAL BOARD

"CARBON SEQUESTRATION" is the topic around which the 30th issue of JET CHEM ENGINEERS is woven. The renewable energy has its applications in a variety of areas such as Chemical engineering, Power engineering, Energy Engineering, Storage technologies, etc. We are very grateful to our beloved Managing Director Dr.B.Babu Manoharan M.A., M.B.A, Ph.D., Director Mr.B.Jaikumar Christhurajan, M.E., M.B.A., and Principal Dr. Vaddi Seshagiri Rao, M.E., 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 (students affairs) Editorial Board: Ms.S.Prathiba, Asst Professor Mr.S.Vigneshwaran – IV Year Ms.Nithya sivakami - III Year

CHEMICAL DEPARTMENT – ANNA UNIVERSITY RANK HOLDERS - 2014



Mr. RAJ KUMAR R S/O, Mr.Ramraj.S Mrs.Gnanavadivu.D Rank: I CGPA: 9.27 Cash prize Rs. 50,000



Ms. SRIMATHI S D/O, Mr.Sekar.E Mrs.Kalavathy.S Rank: 3 CGPA: 9.2 Cash prize Rs. 15,000



Mr. SHRAVAN M KRISHNAN S/O, Mr.Muthukrishnan.R Mrs.Sreelatha.K Rank: 6 CGPA: 9.08 Cash prize Rs. 15,000



Mr.VENKATA KRISHNAN. S S/O, Mr.Sreenivasan.V Mrs.Bhuvaneswari.S Rank: 10 CGPA: 8.9 Cash prize Rs. 15,000



Ms. SHREYA S D/O , Mr.Sathyanath.V Ms.Sujatha.S Rank: 12 CGPA: 8.88 Cash prize Rs. 15,000



Ms. SANTHINI S D/O, Mr.Subramaniyam.P.K Mrs.Paameswari.S Rank: 13 CGPA: 8.87 Cash prize Rs. 15,000



Ms. ARUNA M D/O, Mr.Mayilvaganan.A Mrs.Indradevi.M Rank: 16 CGPA: 8.82 Cash prize Rs. 15,000

17th GRADUATION DAY REPORT

The 17th Graduation Day was held on the 8th April, 2015 at 2.00 pm. Dr. Jeppiaar Chairman of St Joseph's College of Engineering presided over the function and Mr. Roy Joseph, Head Human Resource,



MRF Limited delivered the Convocation Address. Mr. Raghuraman Krishnamurthy, Senior Director, Cognizant Technology Solutions, distributed the Degree Certificates to the fresh graduates. 1329 Students received their degrees. The College has bagged the highest number of University Ranks for the 9th consecutive year in Anna University Examinations held in the May2014. This batch of students has secured 107 Ranks with 4 Gold Medal.

All the Rank holders were awarded Cash Prizes worth Rs. 17.45 lakhs which includes Rs. 50,000/- each for the Gold Medalists, Rs.15,000/- each for all other Rank Holders & Shields. The total prize money amounts to Rs.20.32 lakhs.

PLACEMENT DETAILS

Out of the 1329 students receiving their degree, 697 of them are placed through campus interviews 184 of them are all well placed through off campus and 71 of them have become entrepreneurs. Through campus interviews the students are placed in many leading organizations like Cognizant Technologies, Wipro, Midtree, Verizion, Sanmar, Sasken, Perlos, HDFC, ICICI, RR Donelly, Asahi India Glass Ltd, L&T, Zoho, Technip, HCL, Hewitt, Renalult Nissian, Virtusa, RBS, Coffee Day, Hinduja Leyland, Kodak Mahindhira Bank, Pepsico etc., with a salary ranging from 2.4 lakhs to Rs 6.5 lakhs per annum.

HIGHER STUDIES

187 Students are pursuing their higher studies both in India and Abroad which includes universities in like University of Texas (UK), University of South Florida (US), University of Melbourne, National University of Singapore, Auburn University, Illinois Institute of Technology, University of West Virginia, Leeds University (UK), North Carolina State University, NJIT, IIT IIM etc., through our Advisory Bureau for Higher Studies (ABHS)

CO - CURRICULAR ACTIVITIES

The Indian National Academy of Engineering (INAE) Awards:

The Indian National Academy of Engineering (INAE), New Delhi has constituted the best project award for the final year students. The selected project is

- "Design of Gyroscopically Controlled biomorphic robot and gait generation for assisted walking of humans" done by Harish Rammohan .S of the Electrical and Electronics Engineering dept under the guidance of Mrs. V.Chamundeeswari
- Mr. Ashwin Sridhar; Ms. Keerthana Ramanathan; Ms. Namritha Maniyodath & Ms. Kirthika Pyandapal of the Biotechnology Department Presented a poster at "11th European Conference on Computational Biology" on 9-12 September 2012 at Basel, Switzerland.
- Ms. Grace Janet Philip carried her final year project work at Saint Barnabas Medical Research Center in Livingston, New Jersey, USA.
- Ms. Akila S V & Mr. Ashwin Sridhar carried their final year project work at NUS, Singapore.
- Mr. Vignesh Karthick S & Ms. Sriragavi A: underwent a Govt. of India Sponsored internship programme for 70 days at Indian Institute of Science Education and Research Kolkata, during the academic year 2013-2014.

EXTRA-CURRICULAR ACTIVITIES

Our students have excelled not only in the field of academics, but also in the field of sports. We have G Satyan who is India's No 1 table tennis player. R. Sumana, Mr. Prsanna international table tennis player.

R. Veenasree, R. Vidhyasree, P. Suganya, SPB Poorvika, P Anjuka represented our college in various events at the university, State and National 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.

No of students Appeared	:	1485
 No. of students Passed 	:	1329
Pass Percentage	:	89.7%
• First Class with Distinction	:	130
 Passed with First Class 	:	1199

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

• Total No. of Ranks	:	896
Gold Medals	:	44
• Silver Medals	:	38
Other Ranks Highest Number of Anna University Ra	nks for the	814 9 th consecutive year
• Total No. of University Ranks	:	107
• No. of Gold Medal	:	4

No of Silver Medal	:	1	
•Other Ranks	:	102	
University Rank Awards: Total Rs. 20.32 l	akhs		
• Cash Award	:	Rs 20.32	lakhs 2
• Gold Medal (4* 50,000)	:	Rs 2,00,0	000/-
• Other Ranks (103*15,000)	:	Rs 15,4	5,000/-
Shields & Medals	:	Rs 2.87	lakhs
Placement			
Total No. of Students Placed through			
Campus Recruitment	:	697	
Off Campus	:	184	
• Self Employed	:	71	
Higher Studies			
Students pursuing Higher studies throug Advisory Bureau for Higher Studies (ABF	;h {S)		
Abroad		:	129
• India Sports		:	58
International Players		:	2
• Represented Anna University in			
All India University Tournaments		:	9

The Trust has constituted awards to all the topper of the class. The awardees of the trust award are

S.N	Name of the Award	Branch	Year	Name of the Student
1	Dr. MGR Award	CSE	2010-2014	Mr. SRIDHAR J
2	A.P. Baulraj Award	ECE	2010-2014	Ms. ANANTHALAKSHMI P R
3	Abraham Lincoln Award	EEE	2010-2014	Ms. SOWMYA R
4	Mother Therasa Award	MECHANICAL	2010-2014	Mr. SATISH KUMAR V
5	A.P.J. Abdul Khalam Award	ICE	2010-2014	Mr. R.S AJISH
6	Kalpana Chawla Award	EIE	2010-2014	Mr. HARIHARA
7	Martin Luther King Award	IT	2010-2014	Ms. MONA R
8	Theiva Pulavar Thiruvalluvar	CHEMICAL	2010-2014	Mr. RAJ KUMAR R
9	M. Visvesvaraya Award	Bio-Tech	2010-2014	Ms. ROMIYA C
10	Mahakavi Subramania Bharathiar	M.B.A	2012-2014	Ms. ANGELINE SHAMILA B
11	Paventhar Bharathidasan Award	M.CA.	2011-2014	Ms. KIRTHIKA S
12	Dr. Radhakrishnan Award	M. Sc.	2009-2014	Mr. CHENTHUR PANDIAN .V
13	Annai Janaki MGR Award	ME (Applied	2012-2014	Ms. DIVYA FRANCIS
14	Perundalaivar Kamarajar Award	ME (Power Electronics)	2012-2014	Ms. JAYALASHMI G
15	Aringnar Anna Award	ME (Computer Science)	2012-2014	Ms. THRESA JENIFFER J
16	Nelson Mandela Award	ME (C&I)	2012-2014	Ms. RAMA DEVI C
17	C. V. Raman Award	ME (Power Systems)	2012-2014	Ms. NIMITHA ROSE PETER
18	Srinivasa Ramanujan Award	ME (Software	2012-2014	Ms. RAJALAKSHMI M

Year of passing	UNIVE	RSITY RESU	ILTS	PI	LACEMEN	ſ	ABI	IS	ANNA	ANNA UNIVERSITY RANKS		
	Total No of Student s	No of Students Passed	% of Pass	Through Campus Interview	Off Campus Intervie W	Self Employ ed 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	-	-	-	757 *	-	-	-	-	-	-	-	-

Achievements of our students year after year

as on 6th April 2015

DEPARTMENT OF CHEMICAL ENGINEERING

	Total No of students graduated	66
UNIVERSITY RESULTS	No of students graduated in First class with distinction	14
	No of students graduated in First class	47
	Through Campus Interview	21
PLACEMENT	Off Campus Interview	22
	Self Employed Own Business	05
HIGHER	Abroad	03
STUDIES	India	10
	Total no of university Ranks	7
	Gold Medal	Mr. RAJ KUMAR R- Rank: I CGPA: 9.27
ANNA UNIVERSITY RANKS	Other Ranks	1.Ms. SRIMATHI S-Rank: 3 CGPA: 9.2 2. Mr. SHRAVAN M KRISHNAN Rank: 6 CGPA: 9.08 3. Mr.VENKATA KRISHNAN. S Rank: 10 CGPA: 8.9 4. Ms. SHREYA S Rank: 12 CGPA: 8.88 5. Ms. SANTHINI S Rank: 13 CGPA: 8.87 6. Ms. ARUNA M Rank: 16 CGPA: 8.82
Recipient of Trus	st Award	Mr.R.RAJKUMAR
		(Theiva Pulavar Thiruvalluvar Award)

STAFF ACTIVITIES

Dr. R. BASKARAN

- A paper entitled "Desalination of well water solar power membrane distillation and reverse osmosis and its effective analysis" was published in International Journal of chem. Tech Research, 2014.
- A paper entitled "Heavy metal stabilization" was published in International Journal of chem. Tech Research.
- A paper entitled "Application of homogeneous oxidative methodologies in degradation of textile dyes" was published in Research Journal of Pharmaceutical, biological and chemical sciences.
- A paper entitled "Solar powered membrane distillation and reverse osmosis process" was published in International Journal of latest research in science and Technology.
- A paper entitled "Variation of flux in membrane distillation " was published in APCBEE Proceedia, Elsevier

***** Dr. N. VENKATESH

- A paper entitled "Preparation of Nickel Oxide Nano-particles from Sophorolipids" was presented in International Conference on new frontiers in Chemical ,Energy and Environmental Engineering, on 20th to 21st march 2015 at National Institute of Technology, Warangal
- Attended a Short Term Programme organized by AICTE on "Thermodynamic Analysis of Modern Separation Processes" from 24th to 28th Nov 2014 at IIT- MADRAS.

***** Dr. M. PALANIYAPPAN

Attended a Short Term Programme organized by AICTE on "Contemporary trends in process system engineering and management" from 10th to 14th Nov 2014 at CIT-Coimbatore.

* Ms. S. PRATHIBA

- A paper entitled "Removal of Heavy Metals from aqueous solution using a cost effective novel adsorbent pearl umbonium" was presented in International Conference On Green Technology For Environmental Pollution Prevention and Control (IGTEPC 2014), National Institute of Technology, Trichirappalli, Tamilnadu" on 27th to 29th September 2014
- A paper entitled "Investigation on adhesive wear behavior of industrial crystalline and semi- crystalline polymers against steel counterface" was published in International Journal of Chem Tech Research.
- Attended two days National workshop on "recent trends in X-Ray diffraction techniques (RTX-2014)" on 28th & 29th November 2014at Sathyabama university, Chennai.

* Mr. S. VINOD KUMAR

- A paper entitled "Dye sensitized solar cells sensitized with natural pigments extracted from mixed fruits" was presented in International conference on sustainable energy technologies ICSET 2014" on 11th to 13th December 2014 held at PSG College of Technology, Coimbatore
- A paper entitled "preparation and performance of ZnO based dye sensitized solar cells and their effects on various dyes" was presented in International conference on sustainable energy technologies ICSET 2014" on 11th to 13th December 2014 held at PSG College of Technology, Coimbatore.

* Ms. B. S. RATHI

Attended one day National workshop on "Instrumental Methods of Water Analysis" on 28th November 2014 held at SSN College of Engineering.

✤ MS. N. DEEPA

A paper entitled "Hydro dynamic studies on air inducing impeller systems " was published in International Journal of chem. Tech Research

* MS. APARNA A M

A paper entitled "Monitoring of Continuous Crystallization Process" " was presented in "International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT 2014), Noorul Islam University, Kumaracoil.

ANNA UNIVERSITY SPONSORED FACULTY DEVELOPMENT TRAINING PROGRAM ON "MASS TRANSFER"

Anna University sponsored seven days Faculty Development Training Program was conducted by St.joseph's College of Engineering, department of Chemical Engineering on MASS TRANSFER. Participants from various institutions attended and gained more knowledge on mass transfer operations and principles.



The following chief guest delivered the plenary lecture on MASS TRANSFER and other scientist and industrial experts have delivered lecture in this field.

- Dr.P.S.T.sai, professor and HOD IITM Chennai
- Dr.Radha Associate professor, A.C.Tech Chennai
- Dr.T.R.Kubendran, professor, A.C.Tech Chennai.
- Mrs.R.Pushpalatha, Associate professor, SSNCE, Chennai.
- Dr.Kannan, Associate professor, kongu engineering college.
- Dr.Nagarajan, IITM, Chennai.
- Dr.Gnanaprakash, Associate professor, SSNCE, Chennai.
- Dr.Meyappan, professor and HOD SVCE.
- DrJoshua Amarnath.D Professor and Head, Sathyabama university, Chennai.
- Dr.B.Karunanithi, Professor, SRM University, Chennai.
- Dr.S.Renganathan Profeesor, A.C.Tech Chennai.
- Mr.Shar Govindan, Director, Bentley System Inc, U.S.A

LIST OF STUDENTS (2010 – 2014 BATCH) RECEIVED THE OFFER LETTER FOR HIGHER STUDIES

ADVISORY BUREAU FOR HIGHER STUDIES

The advisory Bureau for higher studies (ABHS) was inaugurated in the year 1999. Ever since its inception, it 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. From this year onwards the GRE and TOEFL training classes have been commenced in the campus.

ABHS is also organizing guest lectures and seminars to equip the students for pursing higher studies .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, Arkansa State University, Swinburne University, University of Sussex, Illinois Institute of Technology, Rochester Institute of Technology, University of Denver, Pace University and Southern Illinois University. The Academicians have visited our campus and also briefed the students about the application process, scholarships and requirements in their respective universities.

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, Concordia University, Leeds university, Florida institute of technology, University of Birmingham, NUS, NTU, University of West Virginia, MRIT, University of MTU, McGill University etc.

S.No	Academic Year	No of students*
1.	2013 - 2014	187
2.	2012 - 2013	163
3.	2011 - 2012	131
4.	2010 - 2011	123
5.	2009 - 2010	118
6.	2008 - 2009	153
7.	2007 - 2008	59

The number of students who have got admission for higher studies during recent years:

*This is the number of students who have gone for higher education immediately after the completion of their course and many take up their higher education after one or two years of work experiences in industry.

Apart from this many students are pursuing higher studies in India like 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.	GANGA.S	M.TECH	A.C.TECH, ANNA UNIVERSITY	
2.	GOPI.V	M.E	CONCORDIA U N I V E R S I T Y, KANNADA.	
3.	LAKSHMINARASIMHAN SRIDHAR	M.TECH	THE UNIVERSITY OF QUEENSLAND, AUSTRALIA	
4.	RADHA BALU	M.TECH	CEG, ANNA UNIVERSITY	
5.	SHRAVAN.M.KRISHNAN	M.S	NUS, SINGAPORE	
6.	MANIKANDAN.J	M.S	NUS, SINGAPORE	
7.	SANTHOSH.V	M.TECH	UNIVERSITY OF PETROLEUM AND ENERGY STUDIES, DEHRADUN	
8.	RAJIV.S	M.B.A	UNIVERSITY OF PETROLEUM AND ENERGY STUDIES, DEHRADUN	
9	CHELLA GANAPATHY	M.S	UNIVERSITY OF HOUSTON, TEXAS.	
10.	MOHAMMED NABEES	M.TECH	M.G.R UNIVESITY, CHENNAI.	
11.	SOWGATH	M.TECH	M.G.R UNIVESITY, CHENNAI.	
12.	ANJUKA	M.B.A	ST.JOSEPH'S COLLEGE OF ENGINEERING, CHENNAI	
13.	POORVIHA	M.B.A	ST.JOSEPH'S COLLEGE OF ENGINEERING, CHENNAI	

PLACEMENT DETAILS OF PRESENT FINAL YEAR **STUDENTS – 2015 BATCH**

<u>762 TOTAL STUDENTS ARE PLACED AS ON</u> 08th April 2015 We are glad to inform that 818 Students are selected through campus recruitment processes for the year 2014 - 15 with an annual salary package, starting from Rs 2.4 Lakhs to 10.18 Lakhs for UG & PG students.

BRANCH	TOTAL
CSE	86
IT	87
ECE	100
EEE	86
MECH	71
EIE	85
ICE	34
СНЕМ	53
BIO	37
MCA	27
ME - CSE	5
ME -SE	3
ME - AE	5
ME -PE	9
ME - PS	4
ME - C& I	2
ME - MANU	1
MTech - BIO	1
MBA	66
Total	762

Company	Total	Company	Total		
Cognizant total offers**	461	Wipro - Global Infrastructure Services	2		
Wipro total offers**	222	Polaris	5		
Infosys total offers**	245	Prime Focus	1		
Soliton Technologies	2	Accenture	1		
Zoho	7	TNQ	12		
CommVault	2	Global Analytics	1		
Vembu Techhnologies	2	Aon Hewitt	2		
Trimble	2	ITC Limited	1		
Vernalis	3	Royal Bank of Scotland	16		
RR Donelley	3	BNP Paribas	4		
Mindtree	21	ICICI Securities	1		
Virtusa	9	Vortex	1		
Ideas2it	4	Coffee day	1		
Scope International	5	HCL Technologies	3		
AGS Healthcare	11	American Megatrends	1		
Verizon	5	HDFC Bank	4		
NTT DATA	13	Ashok Leyland	1		
NAUKRI.COM	1	Sony	1		
Globalsoft Solutions	1	Mphasis	1		
Datacert	9	Jain Housing	1		
TECH MAHINDRA	6	SPIC	5		
Jaro Education	2	HCL health care	2		
BNY MELLON	11				
ITS Solutions	20	Manali petrochemicals limited	5		
Total: 1139					

LIST OF STUDENTS PLACED THROUGH CAMPUS IN VARIOUS COMPANIES IN THE YEAR 2014 - 2015

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	NAME OF THE STUDENT	COMPANY NAME
AARTHI A		AARTHI A	
ASHIQ PETER FRANCIS		BHARATH KRISHNA C M	
BALAKUMARAN T P		BHARGAVI V	
BHARATH KRISHNA C M		HEMAMALINI J	
BHARGAVI V		MAHIMA SAJAN V ARGHESE	
HEMAMALINI J		MANIBARATHI V	
KISHORE KUMAR K		PRADHEEP MURALI	
LIBINA THIVYA BELL G		SHWETHA S	
MAHIMA SAJAN VARGHESE		JAMES SYRUS V	INFOSYS
MANIBARATHI V		NAMITHA V	R R
MOHANA PRIYA M	Cognizant Technology	VIGNESH SHEKHAR	Intosys
NIVEDHITHA J G	Solutions.	VIGNESHWAR K	POWERED BY INTELLECT
NIVESHA S		SNEHA J	DRIVEN BY VALUES
PRITHI PARTHASARATHY VRP	Cognizant	SRUTHI S	
PAVITHRA A		VENKATESAN R	
PAVITRA S		Y BIBIN SABILON	
POORNIMA K		Y SUBIN SABILON	
PRADHEEP MURALI			
PRIYA S		Y BIBIN SABILON	MPL-MANALI PETRO
RAVIKIRAN`R		Y SUBIN SABILON	CHEMICALS LIMITED
RONALD B		JAMES SYRUS	Manan
SHWETHA S		RAMAKRISHNAN	
SOWJANYA SOWRIRAJAN		BHARATH KRISHNA C M	
SRUTHI S			
TAMILARASI A			
MERCY JACQULINE B		BALAKUMARAN T P	Southern
REVATHI S		SURAGANI MUNI HEMANTH	Industries
SENTHIL KUMAR T K		VENKATESAN R	Corporation Ltd
YUVATHY H		VIGNESHWARAN S	
MERCY JACQULINE B		SIVARAMAN R	Nourishing growth

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

- Rewarding Gold Medalist with a cash prize of Rs.75, 000/- and University Rank holders wish a cash prize of Rs.60, 000/- on 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

FOURTH YEAR -BATCH: 2011 - 2015 (I - VII SEMESTER)

S.No	Name of the Student	Total Grade Points out of 1770	CGPA
1.	Y. BIBIN SABILON	1622	9.16
2.	Y. SUBIN SABILON	1616	9.13
3.	HEMAMALINI J	1606	9.07
4.	VENKATESAN R	1603	9.06
5.	MANIBARATHI V	1600	9.04
6.	AARTHI A	1579	8.92
7.	NIVESHA S	1578	8.92
8.	BHARGAVI V	1576	8.90
9.	POORNIMA K	1563	8.83
10.	LIBINA THIVYA BELL	1558	8.80
11.	MAHIMA SAJAN V.	1553	8.77
12.	MOHANA PRIYA M	1542	8.71
13.	MERCY JACQULINE.B	1069	8.69
14.	TAMILARASI A	1527	8.63
15.	VIJAYALAKSHMI D	1526	8.62
16.	SHWETHA S	1501	8.48
17.	PREETHI C M	1496	8.45
18.	SOWJANYA SOWRIRAJAN	1485	8.39
19.	REETHU SUSAN VARGHESE	1475	8.33
20.	PRITHI V R P	1471	8.31
21.	RAVIKIRAN R	1470	8.31

THIRD YEAR - BATCH: 2012-2016 (I - V SEMESTER)

S.No	Name of the Student	Total Grade Points out of 1290	CGPA
1.	ARAVIND G	1195	9.26
2.	DEEPIKA R	1185	9.19
3.	VENKATESH D	1174	9.10
4.	RAJA RAJA CHOZHAN P	1166	9.04
5.	SANDANA V P	1165	9.03
6.	ARUNACHALAM S	1163	9.02
7.	PRASANTH C	1124	8.71
8.	AMIRTHA VARSHINI P	1116	8.65
9.	NITHYA SIVAKAMI G	1116	8.65
10.	PRAVIN BOSCO C	1107	8.58
11.	MAHESWARI C	1102	8.54
12.	SRIRAM R	1098	8.51
13.	HAFILA	1094	8.48
14.	SHERIN REGI SAM	1080	8.37
15.	SWETHA. V	1080	8.37
16.	KARTHICK	1079	8.36
17.	SARATH R	1076	8.34
18.	PAUL ERICSON P	1074	8.33
19.	SHARADA TN	1074	8.33

SECOND YEAR - BATCH: 2013 - 2017 (I - III SEMESTER)

S.No	Name of the Student	Total Grade Points out of 760	CGPA
1.	RAZIKA SUBHANA R	689	9.07
2.	JAYASHREE Y	680	8.99
3.	NIVEDITHA JR	676	8.89
4.	KAVI NILA G	664	8.74
5.	AMRUTHA C	649	8.54
6.	CHERYL PEREIRA	645	8.49
7.	ROHINI N S	644	8.47
8.	VEENA MATHANGI G	644	8.47
9.	MADHUMATHI S	636	8.37

FIRST YEAR - BATCH: 2014 - 2018 (I SEMESTER)

S.No	Name of the Student	Total Grade Point out of 260	CGPA
1.	DELIGHT AZARIAH DANIEL.W	240	9.23
2.	PRASANTH N	239	9.19
3.	MALATHI J	237	9.12
4.	HARITHAJENNIFER D	236	9.08
5.	MANIKANDAN V	232	8.92
6.	VISHALI G	231	8.88
7.	NAVEEN B	229	8.81
8.	KISHOR S	228	8.77
9.	SARAN KUMAR M	228	8.77

Department Of Chemical Engineering

10.	YAMUNA E	228	8.77
11.	NANDHINI G	225	8.65
12.	ARUN KUMAR J	224	8.62
13.	DANIEL MANOGARAN D	224	8.62
14.	GEETHA N	222	8.54
15.	SNEHA JOSE	221	8.50
16.	MUTHU NANDINI M	219	8.42
17.	VINEETH ANTON JOSE T	219	8.42
18.	ABINAYA J	218	8.38
19.	AMUDHA K	218	8.38
20.	KEERTHANA V	218	8.38
21.	SINTO STEPHEN	218	8.38
22.	SUPRIYA B	218	8.38
23.	VIGNESWARAN S	218	8.38
24.	CEDRIC DENNY	217	8.35
25.	NOOR FASEEHA N	217	8.35

NGO (Non-Governmental 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.

Date	Class	Name of the organization visited
28/06/2014	III Year	GRACE CHILDREN HOME, Chengalpattu, Chennai.
05/07/2014	II Year,	LITTLE HEARTS, Pannaiyur, ECR
06/09/2014	I Year, Chemical	PEACE GARDEN, Guduvancherry.
31/01/2015	I Year, Chemical	TRUTH FOUNDATION, Perambur.
07/02/2015	II Year Chemical	SEED UDKOTTAI, Poonamalle.
21/02/2015	III Year	ROSHINI ILLAM, Sunnambukulathur.

We wish to continue our service forever

STUDENTS ACTIVITIES CURRICULAR, CO-CURRICULUR, EXTRA-CURRICULUR ACTIVITIES

S. No	Name of the Student	Year	Name of the	Organizer	Place Won
1.	ARUN KUMAR R	II	Paper	SSN College of Engineering	III
2.	JITHIN RAJ K	II	presentation		
3.	VEENA MATHANGI G	II			
4.	MADHUMATHI S	II	Technical quiz	CIPET, Chennai	Ι
5.	MAHIMA.H				
6.	CHERYL PEREIRA	II	MATERIAL HUNT	SSN College of Engineering	III
7.	PAVITHRA GABRIEL				
8.	NIVEDITHA J R	П	CONNECTIONS		
9.	RAVEENA NARAYANEE S	11	CONNECTIONS	Sriram Conege of Engineering	Ι
10.	SIDDHARTHA U	III			
11.	B NITHISH	III	Adzan		
12.	MANOJ CHAKRAVARTHY.M	III	Muzup	Madras Institute of Technology	Ι
13.	SANDEEP RAJ. S	III			
14.	SRIRAM R	III	Adzap	SSN College of Engineering,CHENNAI	п
15.	B NITHISH	III	-		11
16.	SIDDHARTHA U	III	B Plan	Madras Institute of Technology	II
17.	SIDDHARTHA U	III	Be The Millionare	A C Tech, ANNA UNIVERSITY	II
18.	SIVA S	III	Bucket Your Business	Sri Venkateswara College of Engineering	II
19.	VENKATESH D	III	Business Plan	SSN College of Engineering, CHENNAI	II
20.	SIDDHARTHA U	III	Business Plan Formulation	A C Tech, ANNA UNIVERSITY	II
21.	ARUNACHALAM S	III	Business Plan	A C Tech ANNA UNIVERSITY	III
22.	PAUL ERICSON P		Formulation		111
23.	ARUNACHALAM S	III	Cerebro	Madras Institute of Technology	II
24.	PRAVIN BOSCO C	III	Cerebro	Madras Institute of Technology	Ι
25.	SIDDHARTHA U	III	Chem No. I	A C Tech, ANNA UNIVERSITY	Ι
26.	SRIRAM R	III	Chem No. I	A C Tech ANNA UNIVERSITY	II
27.	B NITHISH	III			
28.	SIDDHARTHA U	III	Chemconnection	A C Tech, ANNA UNIVERSITY	II
29.	SIDDHARTHA U	III	Ciphermission	A C Tech, ANNA UNIVERSITY	Ι
30.	PRAKASH S	III	Connexions	MAGNA COLLEGE OF ENGINEERING	III
31.	B JOKIM	III	Crazy Quiz	SSN College of Engineering,CHENNAI	Ι
32.	ARUNACHALAM S		D 10		
33.	PAUL ERICSON P	III	Del Q	A C Tech, ANNA UNIVERSITY	II
34. 25	SKIKAM K				
35. 24	PAUL ERICSON P	111	General Quiz	Madras Institute of Technology	
30. 27	K S AVINASH	111	Get It Kight	Madras Institute of Technology	11
37.	VENKATESH D	III	Works	Madras Institute of Technology	Ι
38.	K S AVINASH	III	Inquisites	SSN College of Engineering.CHENNAI	Ι
39.	ARUNACHALAM S	III	1	<u> </u>	
40.	SIDDHARTHA U	III	Jaw Dropper	Madras Institute of Technology	Ι
41.	SANDEEP RAJ. S		·		
4 Z.	ARUNACHALAM S	III	Logo It	Madras Institute of Technology	II

43.	SWETHA V	III			II
44.	SANDANA V P	III	Material Hunt	SSN College of Engineering,CHENNAI	
45.	VARSHA.M.H	II			
46.	PRASHANTH C	III	Mod – E - Link	Madras Institute of Technology	Ι
47.	K S AVINASH	III	Mod – F - Link	Madras Institute of Technology	Ш
48.	VENKATESH D	III	MOU - E - LIIIK	Mauras institute of recimology	111
49.	MADHUKAR C N	III			
50.	SRIRAM R	III	Mystery Project	SSN College of Engineering,CHENNAI	II
51.	B NITHISH	III			
52.	SHARADA T N	III	Online Photography	SSN College of Engineering.	II
53.	SANDANA V P	III	Online Quiz	SSN College of Engineering.	II
54.	R DEEPIKA	III	Online Quiz	SSN College of Engineering.	Ι
55.	ARUNACHALAM S	III	Paper	CHEMICAL ENERGY & ENVIRONMENTAL	-
56.	PAUL ERICSON P	III	Presentation	ENGINEERING, SSN College of Engineering, CHENNAI	1
57.	SRIRAM R	Ш	Paper		II
58.	B NITHISH	111	Presentation	Sri Venkateswara College of Engineering	11
59.	SIDDHARTHA U	III	Photography	KCG COLLEGE OF TECHNOLOGY	II
60.	ARUNACHALAM S	III	Poster	SSN College of Engineering CHENNAL	I
61.	PAUL ERICSON P	III	Presentation	55W conege of Engineering, Chewki	1
62.	R DEEPIKA	III	Poster Presentation	Sri Venkateswara College of Engineering, CHENNAI	III
63.	SHARADA T N	III	Poster Presentation	SSN College of Engineering,CHENNAI	III
64.	ROSHAN P R	III	Drovo Ha Wrong	Madraa Instituta of Tashralogy	Ш
65.	SHRIRAM R	III	Prove US wrong	Madras institute of Technology	11
66.	SHRIRAM R	III	Outin Un	Sri Venkateswara College of Engineering,	I
67.	SIDDHARTHA U	III	Quiz Op	CHENNAI	I
68.	SIDDHARTHA U	III	Specher Haus		I
69.	B NITHISH	III		A C TECH, ANNA UNIVERSITY	I
70.	ARUNACHALAM S	III			
71.	PAUL ERICSON P	III	Specher Haus	A C Tech, ANNA UNIVERSITY	II
72.	SRIRAM R	III			
73.	SRIRAM R	III	Surprice Event	Anjalai Ammal Mahalingam Engineering	Ţ
74.	SIDDHARTHA U	III	Surprise Event	College	I
75.	SIDDHARTHA U	III	Surprise Event	SMK FOMRA INSTITUTE OF TECHNOLOGY	II
76.	PAUL ERICSON P	III	Technical Connexions	Madras Institute of Technology	Ι
77.	ARUNACHALAM S	III	Technical Dumb Charades	Madras Institute of Technology	II
78.	VENKATESH D	III	Technical Quiz	SSN College of Engineering,CHENNAI	II
79.	SIDDHARTHA U	III	Technical Quiz	Madras Institute of Technology	Ι
80.	SIDDHARTHA U	III	Treasure Hunt	Madras Institute of Technology	II
81.	SHARADA T N	III	Thooghan Harry	Sri Venkateswara College of Engineering,	T
82.	R DEEPIKA	III	Treasure Hunt	CHENNAI	I
83.	R DEEPIKA	III	Tropauro Ut	SCN College of Engineering CHENNAL	11
84.	SHARADA T N	III	Treasure Hunt	SSN College of Engineering, CHENNAL	11
85.	PRAKASH S	III	Treasure Hunt	MAGNA COLLEGE OF ENGINEERING	III
86.	MADHUKAR C N	III	What Want Wrong	Spirom Engineering College	Ш
87.	SRIRAM R	III	what went wrong		11
88.	PRASHANTH C	III	Monlying Madel	SSN College of Engineering CUENNAL	
89.	PRAVIN BOSCO C	III	working Model	SSN College of Engineering,CHENNAI	111
90.	MADHUKAR C N	III			
91.	SRIRAM R	III	Working Model	SSN College of Engineering,CHENNAI	II
92.	NITISH B	III			

93.	PRADHEEP MURALI	IV	JAW DROPPER	Madras Institute of Technology	
94.	VIGNESH SHEKHAR	IV			II
95.	M.JAYARAM	IV	Working Model	Adhiparasakthi Engineering College	II
96.	K.SHAKTIVEL	IV			
97.	PRADHEEP MURALI	IV	Deja Vu	Madras Institute of Technology	
98.	K.KISHORE KUMAR				Ι
99.	PRADHEEP MURALI	IV	Volatile secrets- Treasure Hunt	Madras Institute of Technology	III
100.	VIGNESH SHEKHAR				
101.	VIGNESH SHEKHAR	IV	Prove us wrong	Madras Institute of Technology	III
102.	J.KATHIRAVAN	IV	Contraption	Velammal Engineering College	II
103.	J.KATHIRAVAN	IV	ROBOMASONS	College of Engineering, Anna University.	II
104.	K.KISHORE KUMAR	IV	Gaming	SSN College of Engineering	Ι
105.	K.KISHORE KUMAR	IV	Dumb- C	SKR Engineering College	II
106.	K.KISHORE KUMAR	IV	LOGO IT	Madras Institute of Technology	Ι
107.	K.KISHORE KUMAR	IV	B Plan	Madras Institute of Technology	Ι
108.	K.KISHORE KUMAR	IV	Design a smart city	Madras Institute of Technology	II
109.	SENTHIL KUMAR.T.K	IV	IDP	SSN College of Engineering	Ι
110.	K.SHAKTIVEL	IV			II
111.	K.SHAKTIVEL	IV	QUIZ	Adhiparasakthi Engineering College	II
112.	M.JAYARAM	IV			
113.	B.MERCY JACQULINE	IV	What went wrong	Sriram Engineering College	II
114.	B.MERCY JACQULINE	IV	Poster Presentation	Sriram Engineering College	II

INTRA DEPARTMENT CULTURALS

In our college we have conducted intra department cultural activity to entertain and encourage the students in extracurricular activities. This program was held on 04-02-2015. The lists of winners are

Sl.	Event	I Prize (amount)	Rs.300	II Prize (amount) Rs.200	
No.		Name of the Student(s)	Year/Sec	Name of the Student(s)	Year/Sec
1	PATTUKKU	GUNA TWEENA BENIZ.J	П	ARUNACHALAM S	III
	PATTU	G.KAVI PRIYA	11	PRAVIN BOSCO C	
2	QUIZ	NITISH.B	ш	MOHAMED NAFIL.M	II
		SRIRAM.R	111	ALRIN ROSSARIO.S.J	
3	DUMB-C	J.R.NIVEDITHA		E.DHANASHREE	II
		S.RAVEENA NARAYANEE	11	GUNA TWEENA BENIZ.J	
4	DANCE	JENIL RAJA SINGH		SNEHA.E	II
		PRAVIN BOSCO		ROHINI.N.S	
		JAFFIN SAM RAJ	111	VEENA MATHANGAI.G	
		SRIRAM.R		KAVI NILA.G	
5	SKIT	MOHAMED NAFIL.M		SIVA SANKAR	II
		ALRIN ROSSARIO.S.J		BALAJI.T.P	
			II	GOVARADHAN KOKA	
				K.NAVANEETHA KRISHNAN	
				MUTHU SELVAM.E	
6	RANGOLI	RAJARAJA CHOZHALAN		E.DHANASHREE	
		ARAVIND.G	III	E.DHIVYA	П
				C.AMRUTHA	11
		Total Prize	e amount Rs. 3	,000	

SPORTS ACTIVITIES

NAME	YEAR	EVENT	NAME OF THE	ORGANIZER	PLACE			
J.G.NIVEDHITHA	IV	CHESS	TIES	SAIRAM COLLEGE OF	1			
				ENGINEERING	-			
			JETS	ST.JOSEPH'S COLLEGE OF	2			
				ENGINEERING	4			
			INTERCOLLEGE	MOP VAISHNAV				
			CHESS		4			
			TOURNAMENT					
			INTERCOLLEGE	D.G.VAISHNAV				
			CHESS		3			
			TOURNAMENT					
SOWJANYA	IV	CHESS	TIES	SAIRAM COLLEGE OF	1			
SOWRIRAJAN				ENGINEERING	1			
			JETS	ST.JOSEPH'S COLLEGE OF	1			
				ENGINEERING	1			
			INTERCOLLEGE	D.G.VAISHNAV				
			CHESS		4			
			TOURNAMENT					
			CHENNAI	CDCA	1			
			DISTRICT		1			
D.RAJESHWARI	III	VOLLEY	JEPPEPPIAAR	JEPPIAAR COLLEGE OF	2			
		BALL	TROPHY	ENGINEERING	Z			
			ZONE	JEPPIAAR COLLEGE OF				
				ÉNGINEERING	3			
			LOYOLA	LOYOLA COLLEGE OF	-			
				ENGINEERING	2			
			МОР	MOP COLLEGE OF	_			
			TOURNAMENT	ENGINEERING	2			
				SA COLLEGE OF ENGINEERING				
			SA TOURNAMENT		1			
				SAIRAM COLLEGE OF	_			
			TIES	ENGINEERING	2			
			IETS	ST JOSEPH'S COLLEGE OF				
			<u>j<u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	ENGINEERING	1			
DFFPIKA SM	III	BASKET	ΔΝΝΔ	SSN COLLEGE OF				
	111	BALI	UNIVERSITY	FNGINFFRING	2			
		DITEL	TIFS					
					11115	TILS	FNGINFFRING	3
			IFTS					
			JE15	FNGINFERING	2			
К МАМДНІМІ	III	VOLLEY	IEDDEDDIVVB					
PRIVA	111	RAII		FNGINFFRING	2			
		DALL	70NF	ΙΕΡΡΙΔΔΡ ΓΟΙ Ι ΕΩΕ ΟΕ				
				FNCINFFRINC	3			
					}			
			LUIULA	ENCINEEDING	2			
			MOD					
				MOP COLLEGE OF	2			
			IUUKNAMENI					
				SA COLLEGE OF ENGINEERING	1			
			5A TUUKNAMENT					
			THE	SAIRAM CULLEGE OF	2			
			TIES	ENGINEEKING				
			JETS	ST.JOSEPH'S COLLEGE OF				
				ENGINEERING	1			
			1		1			

R.VENKATESH	III	VOLLEY	JETS	ST.JOSEPH'S COLLEGE OF	1
		BALL		ENGINEERING	T
			SVCE	SVCE	1
			ZONE	JEPPIAAR COLLEGE OF	1
				ENGINEERING	1
			INTER ZONE	ST.JOSEPH'S COLLEGE OF	2
				ENGINEERING	2
			TIES	SAIRAM COLLEGE OF	2
				ENGINEERING	2
J.JAIN JINI JO	III	VOLLEY	JETS	ST.JOSEPH'S COLLEGE OF	1
		BALL		ENGINEERING	1
			SVCE	SVCE	1
			ZONE	JEPPIAAR COLLEGE OF	1
				ENGINEERING	1
			INTER ZONE	ST.JOSEPH'S COLLEGE OF	2
				ENGINEERING	2
			TIES	SAIRAM COLLEGE OF	2
				ENGINEERING	2
			BESTSAM	LOYOLA	2
			TOURNAMENT		7
			KONGU TROPHY	KONGU ENGINERING COLLEG	2
			B DIVISION	YMCA	1
			CHAMPIONSHIP		-
			ROTARY CLUB	CHENNAI	
			INVITATION		2
			TOURNAMENT		
			THENI DISTRICT	THENI	
			INVITATION		
			TOURNAMRNT		
			ANNA FEST	ANNA UNIVERSITY	1
JAIN MATHEW	3RD	BASKET	SRI	SRI RAGAVENDRA COLLEGE	
		BALL	RAGAVENDRA	OF ENGINEERING	3
			TOURNAMENT		
			INTERZONALS	KARUR	3
			ZONALS	SRM UNIVERSITY	1
			SRI	SVCE	
			VENKATESHWAR		1
			A TOURNAMENT		
			JETS	ST.JOSEPHS COLLEGE OF	1
				ENGINEERING	-
			PEER		
			MOHAMMED		1
			TROPHY		
			ANNA FEST	ANNA UNIVERSITY	1
DHIVYA	3RD	BASKET	SRI	SRI RAGAVENDRA COLLEGE	
PRAKASH		BALL	RAGAVENDRA	OF ENGINEERING	3
			TOURNAMENT		
			INTERZONALS	KARUR	3
			ZONALS	SRM UNIVERSITY	1
			SRI	SVCE	
			VENKATESHWAR		1
			A TOURNAMENT		
			JETS	ST.JOSEPHS COLLEGE OF	1
				ENGINEERING	T
			PEER		
			MOHAMMED		1
			TROPHY		
			ANNA FEST	ANNA UNIVERSITY	1
			ANNA FESI	ANNA UNIVERSITT	1

D VADTUIVEVAN	200	KABBADI	ΑΝΟΠΟΥ ΤΟΟΟΠΛ	VI UNIVEDCITY	1
F.KANTIIKETAN	SKD	MIDDIDI		CAIDAM COLLECE OF	1
			TIES	SAIRAM COLLEGE OF	1
				ENGINEERING	
			JETS	ST.JOSEPH'S COLLEGE OF	1
				ENGINEERING	-
			PSN TROPHY	PSN COLLEGE OF	1
				ENGINEERING	T
			INTERZONE	J J COLLEGE TRICHY	3
			ZONE	JEPPIAAR COLLEGE OF	
				ENGINEERING	1
M.SATHISHKUMAR	3	ATHLETE	1500 METER	ST.JOSEPH'S SPORTS MEET	3
			5000 METER		1
			ANNA	J J COLLEGE ,TRICHY	
			UNIVERSITY		2
			INTERZONE		3
			12 KILOMETER		
			3000 METER	SENIOR STATE	2
			ZONE	ANNA UNIVERSITY	2
			1500 METER		Z
			5000 METER		2
			INTERZONE	ANNA UNIVERSITY	
			1500 METER		1
			TIES	SAIRAM COLLEGE OF	1
			1500 METER	ENGINEERING	1
			5000 METER		2
			10000 METER		1

GUEST LECTURES

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



- A very informative Lecture on "OCCUPATIONAL HAZARDS" by Mr.B.M.SUBBURATHINAM Principal engineer- Technip india (p) ltd.guindy,Chennai on 15-07-2014
- A very informative Lecture on "LARGE SCALE SEA WATER REVERSE OSMOSIS DESALINATION" by Mr.D.SUDHAKAR Principal engineer- Technip india (p) ltd.guindy,Chennai on 18-07-2014
- A very informative Lecture on "ECO- Industrial Entotox Case Study: Chemical And Petrol Chemical Region In India" by DR.RAMABRAHMAN, Sr. principal scientist, HOD, Department of chemical engineering, CLRI on 23/01/2015

INDUSTRIAL VISITS

The second year students have visited Central Institute of Plastics Engineering and Technology (CIPET), Guindy, Chennai on 14th July 2014 they had a very good exposure to the production of plastics.



- The third year students have visited MOHAN BREWERIES AND DISTILLERIES LIMITED, CHENGALPET, on 08th August 2014. Students had a good exposure to distillery industry and distillation column and mass transfer unit operations.
- The second year students have visited Sri Meera Laboratories, Chennai, on 11th February 2015 students had a very good exposure in basics of chemical reaction and chemical reaators.
- The third year students have visited Neyveli Lignite Corporation (NLC), Neyveli on 20th February 2015 students had a very good exposure to the process.

STUDENTS CHAPTER ACTIVITIES

INDIAN INSTITUTE OF CHEMICAL ENGINEERING ACTIVITIES

Under the banner of IIChE, Chemical engineering department has conducted a Guest Lecture programme on "Innovations in the field of Chemical Engineering" on 20.08.2014. All the students from II, III and IV year Chemical Engineering were attended the programme. Mr. R. Durai Raj, Visiting Professor, Indian Institute of Chemical Engineers (IIChE) has presented the lecture. During the programme, a book was given to all the participated students at free of cost by IIChE Regional centre titled 'Innovation, Your competitive advantage'.

CHEMICAL ENGINEERING CLUB ACTIVITIES



- Chemical Engineering club has conducted working model event on Heat Exchanger design for III year chemical engineering under the banner of Indian institute of Chemical Engineering (IICHE). About 20 students (as 10 batches) were actively participated the event with the models designed and fabricated by themselves by applying their engineering knowledge. The preliminary round was conducted on 5.9.2014 and about 5 batches were shortlisted for final rounds of competition. During the final round conducted on 17.09.2014, three best models were identified by the panel of judges comprising HODs.
- A "Working Model" event on Waste Water Treatment for our students of III year Chemical engineering was conducted on 30.01.2015. About 22 students were demonstrated their models and three models were selected as best model by the panel of judges comprising HODs.

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, GMAT, etc.

S.NO	NAME OF THE STUDENT	EXAM	MARKS SECURED
1.	MANIKANDAN.J	GATE	43.33/ out of 100
2.	AMANDA EDWIN	GATE	29.67/ out of 100
3.	SHRAVAN.M.KRISHNAN	GATE	48.33/ out of 100
4.	PRAVEEN KUMAR.S	GATE	36.33/ out of 100
5.	HEMAVATHY.R	GATE	30.33/ out of 100
6.	GOPI VASUDEV	IELT'S	6.5/out of 9
7.	SHREYA.S	TOEFL	110/out of 120
8.	RAJKUMAR.R	GATE	34.33/out of 100
9.	SINDHURI.P	TOEFL	94/ out of 120
10.	SINDHURI.P	GRE	308/ out of 340

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
- $\boldsymbol{\diamond}$ 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 VANTAGE are

ASSESSMENT NAME	RESULT	NO OF STUDENTS
BEC VANTAGE	PASS AT GRADE A	4
BEC VANTAGE	PASS AT GRADE B	6
BEC VANTAGE	PASS AT GRADE C	7
BEC VANTAGE	COUNCIL OF EUROPE LEVEL B1	5

BEC VANTAGE : 22 STUDENTS

COLLEGE DAY AND CULTURAL COMPETITION RESULTS

COLLEGE DAY - 2015 (II, III & FINAL YEAR)

The most awaited aura of the year filled with enthusiasm and passion to triumph was all set in the month of March. Enlightening this year with the **College Day '15 Eve**, the **26th** and **27th of March 2015**, a two day fun packed mega cultural extravaganza kindled the joy of the students. A well unified amalgamation of 15 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	Hakkim.R-III MCA	Aishwarya.S–III CSE	Nandhagopal.E–II IT
2.	Creative writing(Tamil)	Anburaja.B–II CSE	Nivetha.P-II ECE	Sneha Mirulalini–II BT
3.	Drawing (Pencil)	Uma Maheswari–II EIE	Visali Lakshmi–II EIE	Hanna Isaac–II ECE
4.	Oratorical (Eng)	Ashik Peter.J–III EIE	Sneha Mirulalini–II BT	Daniel Charles–III ECE
5.	Egg Shell Painting	Ganga.B– II EIE	Prem Chandar.B-III EIE	Preethika.P–II CSE
6.	Creative writing(Eng)	Preethi.R–II CSE	Mattina Mano.M–III IT	Sneha Mirulalini–II BT
7.	Oratorical (Tamil)	Kamalashini.D-III EIE	Barani.M–III EIE	Pradheep Raaj–III Mech
8.	Classical Vocal	Haritha K. Nair-II ECE	Aishwarya.S–III CSE	Madhuvanthi.S– II EIE
9.	Quiz	Pratheesh.V.K–III EEE Vignesh Rajan–III EEE	Aldo Pioline.A.C–II CSE James Ashwin.M–II CSE	Nicholas.A.J–II Mech Nikhil Sanjay–II Mech
10.	Rangoli	Sangeetha.G–III BT Chandra Priya.C–III BT	Abirami.K–II BT Niketha.R–II BT	Parimalar.S–II CSE Preethika.P–II CSE
11.	Collage	Sangeetha.G–III BT Chandra Priya.C–III BT	Sanjana.S–III BT Aparna.P– III BT	Preethika.P– II CSE Parimalar.S – II CSE
12.	Dumb C	Niveditha.J.R–II Chem Raveena.S–II Chem	Hemnaa.S–III EEE Josephine–III EEE	Akshaya Suresh–II CSE Geethanjali.A–II CSE
13.	Scrap Art	Sangeetha.G–III BT Chandra Priya.C–III BT	Vilfrena Jennifer–III IT Sharon Angelene–III IT	Madhumitha.R–II CSE Keerthana.K.R–II CSE
14.	Mehandi	Thivya Roopini–II EIE Vaishnavi.S – II EIE	Hanna Isaac–II ECE Jasmine Nancy.S–II ECE	Baby Shalini–II CSE Akshaya Sriram–II CSE
15.	Pattuku Pattu	Hakkim.R–III MCA Vengadeshwaran–III MCA	Swetha.S–II ECE Shanmuga Priya–II ECE	Ravichandran.M–II MCA Clinton.S–II MCA

The day, **30th of March 2015** eye 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 splendiferous 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.

Our department students won prizes in the following categories:

• Dumb C- I PRIZE - Niveditha.J.R, Raveena.S – II YEAR CHEMICAL

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 Principal, Dr. Vaddi Seshagiri Rao.

Intramural Sports events for the final years was conducted on **July 18th**, **2014**, III years on **July 17th**, **2014** and for the II years it was conducted on **July 16th**, **2014**. The prize distribution took place on the college day where the certificates and medals for winners were distributed by the Vice Principal, Dr.S.Arivazhagan and Dean Research Dr.B.Parvathavarthini.

I YEAR COLLEGE DAY - 2014

The college day for the first year students was celebrated with a two day mega cultural extravaganza that was put up on the 23^{rd} and 25^{th} of April 2014. The following students won prizes in these events:

S.No	EVENT	I PRIZE	II PRIZE	III PRIZE
1.	Light Music	Santhanabharathi-MBA	Inneshius Stany-ECE	Pooja.D-CSE
2.	Rangoli	Saraswathy.R-IT Vijayalakshmi.V-IT	Priyadharshini.A-MBA Divya Manavalan-MBA	Chitra.S-M.Tech-Bio Caroline-M.Tech-Bio
3.	Creative Writing(Tamil)	Pradheep Raaj.S-Mech	Aswin Prakash.P-Mech	Kanimozhi K.R-ECE
4.	Quiz (Premils,Final)	Sankaranarayanan-Mech Ajayantony.I-Mech	Vinmathi.V-M.Tech-Bio Chitra.S-M.Tech-Bio	Aadhith.P-MBA Venkatachalam.R-MBA
5.	Drawing (Pencil)	Nanthini.M-M.Tech-Bio	Hanna Isaac-ECE	Visali Lakshmi.P.R-EIE
6.	Creative Writing(Eng)	Mercy.P-ICE	Kanimozhi.K.R-ECE	Jeffy Merin Jacob-CSE
7.	Collage	Caroline-M.Tech-Bio Vinmathi.V-M.Tech-Bio	Preethika.P-CSE Parimalar.S-CSE	Hanna Isaac-ECE Jenisha Haran-ECE
8.	Egg Shell Painting	Uma Maheswari.M-IT	Kasi Vignesh.M-MBA	Mageswari.S-EIE
9.	Paatuku Paatu (Premils,Final)	Swetha.S-ECE Shameera Banu.S-ECE	Raj Kumar.M-MBA Jeyesh.V – MBA	Nandha Gopal.E-IT Sakthivel.S-IT
10.	Pot Painting	Hanna Isaac-ECE	Ganga.B - EIE	Luxshana.P-CSE
11.	Dumb Charades (Premils,Final)	Sankaranarayanan-Mech Ajayantony.I-Mech	Raveena Narayanee- Chem Niveditha J R-Chem	Sheron Raji.R-EEE Lavanya P-EEE
12.	Classical Vocal	Sandhya.S-MBA	Ranjani.V-IT	Uma Maheswari.M-IT

S.No	EVENT	I PRIZE	II PRIZE	III PRIZE
	Scran Art	Balasubramanian.M-MBA	Keerthana.R-ECE	Uma Maheswari.M - IT
13.	Serap Int	Mohamed Inzaman-MBA	Madhubala-ECE	Saraswathy.R - IT
14	Mehandi	Afreen Bushrakhan–MBA	Shameera Banu.S-ECE	Vaishnavi-EIE
11.	Menanar	Srilekha S-MBA	Sharine Jennifer.M-ECE	Thivya Roopini.I-EIE
15.	Oratorical (English)	Jayashree.Y-Chem	Mercy.P-ICE	Divya Manavalan-MBA
16.	Oratorical (Tamil)	Aswin Prakash.P-Mech	Pradheep Raaj.S-Mech	Kayalvizhi.K.R-M.E(A.E)

A well blended combination of 16 events such as quiz, pattuku pattu, 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 **College Day for I year students** was celebrated on the following day, the **26th of April 2014** 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. 40,000/-** 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.

Our department students won prizes in the following categories:

- Dumb Charades I PRIZE Raveena Narayanee-Chemical.
- EVENT NAMETEAM LEADERDEPARTMENTRESTAURANT MAYHEMALICE SNEHACHEMICAL
- College day prize winners:

The winners of the cultural events which were conducted on 23.04.2014 and 25.03.2014 were honored with cash prizes and certificates, which were distributed by the principal Dr. Vaddi Seshagiri Rao, Vice Principal, Dr.S.Arivazhagan and Dean Research Dr.B.Parvathavarthini.



செயிண்ட் ஜோசப்ஸ் பொறியியல் கல்லூரியில் டாக்டர். எம்.ஜி.ஆர். அவர்களின் பிறந்த நாள் விழாவை முன்னிட்டு 04.02.2015 அன்று செயிண்ட் ஜோசப்ஸ் பொறியியல் கல்லூரி மற்றும் செயிண்ட் ஜோசப்ஸ் தொழில்நுட்பக் கல்லூரிகளின் தமிழ் மன்றம் சார்பில்

"சி**ன்**ன சின்ன பொ**ய்கள் வாழ்க்கை**க்கு

சுகமா? சுமையா?"

என்ற தலைப்பில் பட்டிமன்றம் நடைபெற்றது.

கல்லூரித் தலைவர் கர்னல். டாக்டர். ஜேப்பியார், நீர்வாக இயக்குனர் டாக்டர். பாபு மனோகரன், இயக்குனர் திரு. ஜெயகுமார் கிறிஸ்து ராஜன், இயக்குனர் திருமதி ஜெசி ப்ரியா, தலைமை செயல் அலுவலர் சசி சேகர், முதல்வர் டாக்டர். வட்டி சேஷசகிரி ராவ் மற்றும் முதல்வர் டாக்டர். ரவிச்சந்திரன் ஆகியோர் முன்னிலையில் நடைபெற்ற இந்த பட்டிமன்றத்தில் **முனைவர். திரு. இளசை சுந்தரம்** நடுவராக பொறுப்பேற்று **"பொய்கள் வாழ்க்கைக்கு சுமையே!"** என்று தீர்ப்பு வழங்கினார். ஆசிரியர்களும், மாணவர்களும் நடுவரது நகைச்சுவையான பேச்சைக் கேட்டு மகிழ்ந்தனர்.

சுகமே! என்ற அணியில் மாணவா்கள் இர.இதயதா்க்ஷினி (I EEE-Tech.), ம.வ.புவநிஷா (I EEE), க.ஆ.புன்னை வளவன் (I BT), ச.ஜீவா(I CIVIL-Tech.), பூ.ஷா்மிளா(I CIVIL) ஆகியோரும்

சுமையே! என்ற அணியில் மாணவர்கள் ரா. சீதாலட்சுமி (I BT), து.ச.நாராயணன் (I- EEE), ஸ்ரீ. கௌசிக்ராம் (I BT), மு. அபிநயாதேவி (I IT-Tech.), ஜெ. முகமது உசேன்(I EEE) ஆகியோரும் பங்கேற்று வாதிட்டு அனைவரது பாராட்டுகளையும் பெற்றனர்.

இவர்களில் **ம.வ.புவநிஷா** மற்றும் **ஸ்ரீ. கௌசிக்ராம்** ஆகியோரை சிறந்த பேச்சாளர்களாக தேர்வு செய்து கல்லூரித் தலைவர் அவர்கள் ரொக்கப்பரிசு ரூபாய் 1000 அளித்து பாராட்டினார்கள். பங்கேற்ற அனைவருக்கும் பங்கேற்பு சான்றிதழ் வழங்கப்பட்டது.

ACHIEVERS DAY 2015

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 2014-15 was celebrated on 11. 04. 2015. The students who won various competitions have been invited. The invitees were



- Total Sports and Games Teams : **311** Players
- Inter-collegiate Paper presentation, Symposium, Conference position winners : **1413** Students
- Blood donors from Youth Red Cross : 53 Students
- Members of Tamil Mandram: 12 Students
- Members of Our College **Student Orchestra** Team : **44** Students
- Inter-collegiate **Cultural Competition** Winners : **43** students

No. of Students Hounoured	Total Amount Distributed
1876	Rs. 17.03 Lakhs

On the whole 1876 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 6.30 P.M. with the High Tea followed by the distribution of cheques. 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 13 years

In the following

Mega State Level Tournament/ Meets

Conducted for all the

Engineering Colleges/ Arts Colleges in Tamilnadu

1. ANNA UNIVERITY INTER ZONAL TOURNAMENTS

From 2003 to 2015

Conducted for 631 Engineering Colleges in Tamilnadu

2. TIES (TAMIL NADU INTER ENGINEERING SPORTS)

From 2003 to 2015

Conducted for 631 Engineering Colleges in Tamilnadu

3. JETS

From 2003 to 2015

Conducted for Arts, Science and Professional Colleges in South India

4. St. JOSEPH'S INTER COLLEGIATE ATHLETICS MEET

From 2003 to 2015

Conducted for Arts, Science and Professional Colleges in South India



SPORTS ACHIEVEMENTS : 2014-15

VOLLEY BALL	VOLLEY BALL - WOMEN VOLI		EY BALL - MEN	
Jeppiaar Engg College Tournaments	RUNNERS	Valangaiman 30 TH State Level Volley Ball Men Tournament	WINNERS	
MOP Tournaments	RUNNERS	Jeppiaar Engg College Tournaments	WINNERS	
Jayaram Trophy	RUNNERS	13 th State Level Volley Ball Men Tournament	III PLACE	
ZONE 3	III PLACE	ZONE 3	WINNERS	
LICET Trophy	RUNNERS	Chola State Level	WINNERS	
TIES 2015	RUNNERS	"B" Division City League Volley Ball Men Tournament	WINNERS	
Anna Sports Fest	WINNERS	Pon Volley 2015 Seethaiammal Memorial Volley ball Men Tournament	RUNNERS	
JETS	A-TEAM WINNERS, B-TEAM RUNNERS	TIES 2015	RUNNERS	
S A Engg Trophy	WINNERS	Anna Sports Fest	WINNERS	
FOOT B	ALL	JETS	"A" Team- Winners "B" Team – III Place	
T N Physical Education Sports University Tournament	WINNERS	Pon Volley 2015 Seethaiammal Memorial Volley ball	RUNNERS	
JETS	IV PLACE	BERTRAM Tournaments	RUNNERS	
НОСКІ	EY	Theni volley ball tournament	III PLACE	
Dvanchan memorial cup	RUNNERS	Udumalaipet volley ball	RUNNERS	
BALL BADMIN	ron – men	BALL BADMINTON - W	OMEN	
		All India Inter Collegiate Ball	III Place	

		Badmn. (W) Tournament		
St. Joseph's All India				
Ball Badminton				
Invitation	IV Place	ce ZONE 3	WINNERS	
Tournament for Men				
Jayaram Trophy	WINNERS	TIES 2015	III PLACE	
ZONE 3	WINNERS	IETS Women	WINNERS	
Thiruvarur Mr		,		
Baulrai .& Mrs.		B S Abdur Rehman University		
Soundra Bai	WINNERS	Tournaments	III PLACE	
Memorial State Level				
Inter Zone	WINNERS	SSN Tournaments	WINNERS	
SVCF Tronhy	WINNERS	KABADDI - WOMF	N	
SVCL Hophy	"A" Toom-		1	
	Winnors			
JETS Men	"P. Toom IV	PSN Trophy	RUNNERS	
	D: Team-Tv			
D.C. Abdur Dobran	Flace			
B S Abdur Kenman		T N Physical Education Sports	MUNINEDC	
Tournements	III PLACE	University Tournaments	WINNERS	
	MOMEN	1.1		
IABLE TENNIS	- WOMEN	Inter Zone	III PLACE	
Jeppiaar Engg College	WINNERS	JETS Women	WINNERS	
Tournaments				
MOP Tournaments	III PLACE	TIES	RUNNERS	
JETS	WINNERS	KABADDI - MEN		
ZONE 3	WINNERS	Jeppiaar Engg College	WINNERS	
		Tournaments		
S A Engg Trophy	WINNERS	Erode Diamond Star Open Club	III PLACE	
TIES	WINNERS	Guntur (AP)- Koneru	WINNERS	
		Lakshmaiah Trophy		
TABLE TENNI	IS - MEN	PSN trophy	RUNNERS	
S A Engg Trophy	III PLACE	ZONE 3	WINNERS	
		PSN Tronhy	RUNNERS	
ZONE 3	RUNNERS	i six i topity		
ZONE 3 JETS	RUNNERS RUNNERS	Inter Zone	III PLACE	
ZONE 3 JETS TIES	RUNNERS RUNNERS RUNNERS	Inter Zone Anna Sports Fest	III PLACE WINNERS	

			TIES	WINNERS
Jeppiaar Engg College Tournaments	RUNNERS		CHESS - MEN	
MOP Tournaments	IV PLACE		Jeppiaar Engg College Tournaments	WINNERS
ZONE 3	RUNNERS		TIES	RUNNERS
JETS	WINNERS		JETS	WINNERS
TIES	WINNERS			
BADMINTO	N- MEN		BADMINTON - WOM	IEN
JETS	RUNNERS		TIES	III PLACE
TIES	RUNNERS			
ATHLETIC- MEN	N & WOMEN		BASKET BALL - WON	MEN
St. Joseph's Inter Collegiate Athletics Meet	MBA has WON t BEST ATHLET AWARD with 98 Points Overall Men & Women Championship W 142 Points Men Overall	he E 36 Z Vith	MOP Tournaments JETS	IV PLACE RUNNERS
ZONE 3 & Inter Zone	men Overall Championship		Ball Tournament ZONE 3	IV PLACE RUNNERS
	2 nd Place		TIES	III PLACE
P. Bharath Steven – II Mech has Won 5 Medals (2 Gold, 2 Silver and 1 Bronze) in 40 th State Rifle and Pistol Shooting Championship held at Chennai Rifle Club, Chennai		M w D	r. S. Srijith, I Year CSE has WOI ith Cash Prize Rs. 50,000 in the Trophy – Tennis – Men organiz evelopment Authority of Tami	N the III PLACE e Chief Minister zed by Sports Inadu, Chennai
TENNIS -	MEN		BASKET BALL - MI	EN
ZONE 3	RUNNERS		Anna Sports Fest	WINNERS
S A Engg Trophy	RUNNERS		JETS	WINNERS
IIT-M Tournament	WINNERS	St. Joseph's Ragavendra Basket Ball Tournament		III PLACE

TIES		RUNNERS	B S Abdur Rehman University Tournaments		WINNERS	
TENN	IS – W	OMEN	WI	WEIGHT LIFTING		
D G Vaishnava						
Tournament		III I LACL	Tamilnadu State	S .Priyanka	I –ICE has WON	
Inter Zone		III PLACE	Championship	the 3 rd Plac	eUnder 63 Kgs	
SSN Open		WINNERS				
LICET Trophy		III PLACE				
TIES		III PLACE				
			TIES BEST	IV	ΡΙΑΓΕ	
			PHYSIQUE	IV		

ANNA UNIVERSITY BLUES 2014-2015

(MEN)						
S.NO	NAME	YEAR/BRANCH	GAME			
1.	AKHIL REUBEN KANAGARAJ	I MECH	TENNIS			
2.	SRIJITH.S	I CSE	TENNIS			
3.	SUNDARARAJ.M	III ICE	BASKET BALL			
4.	AJAY NARAYANAN	I IT	ROWING			
5.	PRADEEP.D.R	II ME	BALL BADMINTON			
6.	MOHAMMAD ASHIP SHARIF.S	IV BIOTECH	"			
7.	SOMA SEKHER BABU.B	IV ICE))			
8.	KARTHI.M	IV ICE	KABADDI			
9.	MOHAMED NISAN.M	III EEE	ATHLETICS			
10.	IMMANVEL ALLAN.R	I MBA))			
11.	SATHISH KUMAR.M	III CHEM))			
12.	BHARATH STEVEN.P	II MECH	SHOOTING			
13.	ATHITYAN.R	I CIVIL	TABLE TENNIS			
14.	DHAKSHIN RAJ.S	I IT	"			

(WOMEN)

S.NO	NAME	YEAR/BRANCH	GAME
1.	POORVIHA.S.P.B	I MBA	ATHLETICS
2.	SHIYA.S	III ICE	KABADDI
3.	GIRIJA.R	IV MSC-CT))
4.	MALATHI.N	II MCA	VOLLEY BALL
5.	SNEHA.V	IV ECE	TABLE TENNIS
6.	NARASIMHA PRIYA.S	III BIO-TECH))
7.	SHANMATHI	I CSE	"

BEST OUT GOING STUDENT AWARD LIST 2014 – 2015

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 11th of April 2015 in the St. Joseph's indoor Auditorium.

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.

S. No.	Dept.	Man		
1.	CSE	GUHAN.AK		
2.	ECE	Mr. DENESH KUMAR.S		
3.	EEE	Mr. ASHISH B. NAIR		
4.	MECH	Mr. VENKATESWARAN.P		
5.	ICE	Ms.ARTHI.V		
6.	EIE	Mr. SUREKHA.P.M		
7.	СНЕМ	Mr. VENKATESAN.R		
8.	BT	Ms.SUMATHI.S		
9.	IT	Mr. SURESH .L.V		
10.	MBA	Ms.PRIYADHARSHINI		
11.	МСА	Mr. CHITTI BABU		

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

The criteria of best outgoing students are good in academics, good communication skills, best managerial skills, as well as good in extracurricular, co- curricular activities.

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	No of
		Courses	Students
CHEMICAL ENGINEERING	III	ASPEN HYSYS	43
CHEMICAL ENGINEERING	III	C LANGUAGE	48

Totally 4 days practical classes were conducted on ASPEN HYSYS by Edwin Jenson, Director, Chemsys Process Engineering (P) Ltd. Pune.

- 43 students gained knowledge about ASPEN HYSYS
- 48 students from 3rd year Chemical Engineering attended ONLINE course on C language conducted online by IIT, Bombay through spoken tutorial program, Anna University, Chennai, conducted at St. Joseph's College of Engg.

II YEAR VALUE ADDED COURSES -- C, C++

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.

C/C++ course was provided by **Eye open Technologies and Digiterati** and around **71 students are benefited by the course.**

Course Objective - C/C++

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

CONQUISTA 2015

DISTRIBUTION OF 762 PLACEMENT ORDERS TO THE PLACED STUDENTS

CONQUISTA'15 – 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 13th 2015 with grandeur. The function was presided by Mr. Elangovan Mathivanan, Director – Learning & Development, Cognizant Academy, and Mr. Ramki Krishnan, General Manager – Competency & Operations Group, Wipro technologies who handed over the offer letters to the students in the presence of Managing Director Dr. B. Babu Manoharan, Director Mr. B.Jai Kumar Christhu Rajan and Principal Dr. Vaddi Seshagiri Rao. Ms. Absala, Mr. Pramodh T, Campus team , Human resources, Cognizant and Mr. Karthik, Campus team , Human resources, Wipro were also present as 'special invitees'.

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 behavioral attributes need to be addressed in addition to the development of technical skills. Some of the behavioral 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**, **Vistamind etc**.



CENTRE FOR TRAINING AND PLACEMENT 12 days Placement Orientation Program and other activities



The Centre for Training and Placement has conducted placement orientation program (POP'14) from 13th August to 18th August 2014 for the final

year students by Vista Mind & 18th August to 28th August 2014 for the pre-final year students and trained them on soft skills, quantitative aptitude skills etc., to prepare them for placement recruitments. Faculties from various departments contributed for the orientation program. Department of Mathematics were instrumental in delivering aptitude, logical reasoning sessions. Technical sessions were handled by the concerned departments and Soft skill was handled by the faculty from Business administration, English and some faculties from Engineering Departments.

The Centre for Training & Placement conducted Online aptitude assessment tests on every weeks for all the students including 1st year. Every student has attended 20 online assessment tests per year.

Apart from these the students have undergone mock tests in Cognizant, Wipro and NAC tech tests pattern before appearing for placements. This year the students were exposed to NAC tech tests. 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.

10 Students had hands on experience in live projects through 'KiLab - SKILD program'. 4 Students have been selected for Cognizant CIO-Challenge Program 2013-2014. Our college has joined hands with Murugappa for Murugappa Young Professional (MYP) program.

Students have also acquired BEC certifications, other value added certifications. In addition to the above certifications, series of Mock tests and Interviews have greatly improved the performance of the students in the campus recruitments to a great extent.

NATIONAL TECHNICAL SYMPOSIUM – JET CHEM 2014

On September 27th, 2014, the 17th National Students' Symposium" JET CHEM 14" 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, S S N College of Engineering, Chennai, Vel Tech High Tech Engineering College, Chennai, Sathyabhama University, Bharat University, Chennai, St. Joseph's Institute of



Technology, St. Peter's College of Engineering, Chennai, Sri Venkateswara College Of Engineering Chennai, Anand Institute of Higher Technology participated in the symposium.

Total no. of Colleges Participated

- 09

- 48

No. of Participants

Sl. No	Event	I prize	II Prize	III prize
1	CHEM CHADADES	PRADEEP KUMAR.T VIVEK.T Prize amount: 1200	PREM KUMAR.S K.DHANASEKAR	SHARMILA PRIYA .M UTHRA.M Prize amount:500
1	CHEM CHARADES	SSN College of engineering	A.C.TECH., ANNA UNIVERSITY	SSN College of engineering
	MINUTE TO WIN IT	PRATIK RAJIV SHAH NIKHIL R KHATRI	GOWTHAM.K I.JOSEPH DANIEL RAJ	SUJITH.A JACOB.M.P
2		SVCE COLLEGE OF ENGINEERING	SSN College of engineering	VELTECH
	CEREBRO	SANKKAR.CPRATIK RAJIV SHAHPRASANNA.VNIKHIL R KHATRI		UTHRA.M M.SHARMILA PRIYA
3		Prize amount:1200 SSN College of engineering	Prize amount:800 SVCE COLLEGE OF ENGINEERING	Prize amount:500 SSN College of engineering
	GET IT RIGHT	PURNA SANDAR.C.M.J VIGNESH.D	SHIVA SUBRAMANIAN.J PRAVEEN KUMAR.V	VIVEK.T PRADEEP KUMAR.T
4		SVCE COLLEGE OF ENGINEERING	SSN College of engineering	Prize amount:500 SSN College of engineering
5	FAST AND FURIOUS	SHANKKAR.C ZAHEER AHAMED	KAR.C ANANDRAM.P	
		Prize amount:1200 SSN College of engineering	Prize amount:800 CEG, GUINDY	Prize amount:500 SSN College of engineering
6	TECHNICAL QUIZ	T.V.HARISH KUMAR P.GOPI	P.T.MADHAVAN D.ASHOK KUMAR	S.SAKTHIVEL SURENDHAR.A.D
		Prize amount:1200	Prize amount:800	Prize amount:500
		SSN College of engineering	SSN College of engineering	ANNA UNIVERSITY BIT CAMPUS
	SHERLOCK HOMLES	A.PRAVEEN MANI UDHAYLVAN.V	JEYA VIGNESH.V SUSEENTHIRAN.N	NIL
7		Prize amount:1500	Prize amount:1000	Prize amount:NIL
		VELTECH	A.C.TECH., ANNA UNIVERSITY	NIL
8		K.GOWTHAM T.PRADEEP KUMAR T.VIVEK	JOSEPH DANIEL RAJ.I PREM KUMAR.S DHANASEKAR.K	NIL
	HOW WASTE STUFF WORKS	Prize amount:1500	Prize amount:1000	Prize amount:NIL
		SSN College of engineering	A.C.TECH., ANNA UNIVERSITY	NIL

Carbon Sequestration

		V.PRAVEEN KUMAR	K.PREM KUMAR	RJ.SAJID ALI
			K.DHANASEKAR	VR SETURAMAN
			I.JOSEPH DANIEL RAJ	A.SUJITH
9 WORKING				A.PRAVEEN MANI
	WORKING MODEL			V.UDHAYAVAN
		Drize amount 1500	Brize amount 1000	Prize amount: 500 +
		PHze amount: 1500	Plize amount: 1000	500
		SSN College of engineering	ANNA UNIVERSITY	ANNA UNIVERSITY
			CHENNAI	CHENNAI
				VELTECH
		TARUN DEV DINESH	ABRAHAM TENNYSON.M	S.PANDI
10	GAMING	Prize amount:1000	Prize amount: NIL	Prize amount: 500
		SRM UNIVERSITY	ST.JOSEPH'S INSTITUTE	BHARAT UNIVERSITY

INTRA DEPARTMENT SYMPOSIUM

The department of Chemical Engineering conducted an intra-department symposium for all II Year and III Year CHEMICAL STUDENTS on 19.07.2014 .The students participated in various events Viz. HOW WASTE STUFF WORKS, SHIPWRECK, LOGO QUIZ, ADZAP and TECHNICAL QUIZ. Prize amount of ₹ 10,000 was distributed to the prize winners of all the above mentioned events.

CI	Event	I PRIZE (RS. 1000)		II PRIZE (RS. 600)		III PRIZE (RS. 400)	
51. No.		Name of the	Year	Name of the	Year	Name of the	Year
		Student(s)		Student (s)		Student (s)	
1	ADZAP	Prashanth C K. Karthick D.Venkatesh M.Gowthaman Pravin Bosco.C	III	Raja Raja Chozhan P Sandeep Raj S Roshan PR Ashok Kumar M Jacob Benny P	III	S.Siva Nitish B Kiran J Neerakkal Jenil Raja Singh Sriram.R	III
2	TECHNICAL QUIZ	Jaffin Sam Raj Aravind G	III	Avinash K S Gowthaman M	III	Veena Mathangi G Madhu Mathi S	II
3	LOGO QUIZ	D. Venkatesh S.Siva	III	Govarthan S B. Jokim	III	V. Swetha G. Nithya sivakami	III
4	SHIPWRECK	Jayshree Y	II	B. Nitish	III	-	-
5	HOW WASTE	Alice Sneha George Razika Subhana A Kavi Nila G	II	Amirthavarshini P Maheswari C Bhuvaneswari D Jeniha Christy J M	III	Gouthaman M Venkatesh R Vignesh I Praveen Prabhu E	III
	STUFF WORKS	Cheryl Pereira	DITE	AMOUNT De 10 000 /		Jayshree Y Mahima H Snehaa E Varsha M H	II
TOTAL PRIZE AMOUNT Rs.10,000/-							

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 **II year** it is conducted on July 16th 2014

For **III year** it is conducted on Jan 29th 2014

- Volley ball (men) WINNERS
- ✤ Hand ball (women) WINNERS

For **IV year** it is conducted on July 18th 2014

- ✤ Volley ball (women) WINNERS
- ✤ Hand ball (men) WINNERS
- ✤ Hand ball (women) RUNNERS UP
- Badminton (singles) (men) RUNNERS UP

For I Year - Kabbadi (men) - RUNNERS UP





IFDHAR



Our College celebrated Ramzan on **30th July 2014**. All the Muslim students in our college undergone 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 are well served for the "ifthihar" that is for breaking the fasting at 6.30 p.m, dates and cool drinks along with the porridge. 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.

Vinayaka Chathurthi

Our college celebrated Vinayaka chathurthi on 29th August 2014. Lord Vinayaka's birthday was celebrated by decorating the Ganesha Statue in our college temple with flowers. Pooja was grandly performed in the temple in the presence of our beloved 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.

Teachers Day

Our College celebrated the Teachers day as a special occasion on **5th September 2014**. First year students entertained our college staff and encourage them with unique shows on that special day. Our Management gave gifts to all the teachers of our college as a token of appreciation.

Onam

The festival of rice harvest was celebrated on 5th **September 2014** with great spirituality and delight. All Malayali students came with full rejoice to participate on this special occasion. Our Beloved 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 includes aviyal, erussery, pulissery, nenthram pazham and different types of payasams.

Ayudha pooja

Our College celebrated Ayudha Pooja on **1**st **October 2014.** The traditional Ayudha pooja celebrations took place 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 which was followed by a pooja in the presence of Chairman and Managing Director's family. The remarkable parts on this celebration were 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 ayudha pooja to administrative staff, technical staff, non-technical staff, drivers, sweepers, scavengers, 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 **18th October 2014.** On this special eve, a grand lunch with exotic dishes ranging from mouth lingering sweets till 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 brighten lights. The deepam celebrations took place in our college on 5th **December 2014** with lamps lighted by the divine flame that is believed to fend off evil forces and escort ecstasy and prosperity.

Padi pooja

The festival was celebrated in our college on **6th December 2014** by decorating the holy steps of Ayyappa with flowers and silk clothes and lighting traditional lamp. 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.

Christmas

Christmas is the season of joy, of holiday greetings exchanged, of gift-giving, and, of families united. The Christmas celebrations took place in our college campus on **19**th **December 2014**. On Christmas day, a special mass was conducted in our college chapel. The celebrations included a rythmic performance from our college choir and an add-on surprise package by the Santa clause. The staffs and students were completely spellbound with the Christmas gratification and the day was called off with a hearty lunch.

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. This joy-filled Pongal occasion was celebrated in our college on the **10th January 2015**. 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 occasion of the year in St. Joseph's college of Engineering. This wonderful day was celebrated in our college on **8th March 2015** 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 and Director. Matches and other events were conducted 3 days prior to hostel day. Special Dinner and snacks was provided to the hostilities. At last, the day ended with whole masthi and fun.

Ugadi

Our college celebrated Ugadi on **21**st **March 2015**. 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 **6th April 2015**. Easter is the springtime holiday marking the rebirth of Jesus and the renewal of the Christian faith. A special program 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 end off with holy blessing of God.

oil

ARTICLES

Agricultural sequestration

All crops absorb CO₂ during growth and release it after harvest. The goal of agricultural carbon removal is to use the crop and its relation to the carbon cycle to permanently sequester carbon within the soil.

This is done by selecting farming methods that return biomass to the soil and enhance the conditions in which the carbon within the plants will be reduced to its elemental nature and stored in a stable state. Methods for accomplishing this include:

- Use cover crops such as grasses and weeds as temporary cover between planting seasons
- Concentrate livestock in small paddocks for days at a time so they graze lightly but evenly. This encourages roots to grow deeper into the soil. Stock also till the soil with their hooves, grinding old grass and manures into the soil.
- Cover bare paddocks with hay or dead vegetation. This protects soil from the sun and allows the soil to hold more water and be more attractive to carbon-capturing microbes
- Restore degraded land, which slows carbon release while returning the land to agriculture or other use.

Agricultural sequestration practices may have positive effects on soil, air, and water quality, be beneficial to wildlife, and expand food production. On degraded croplands, an increase of 1 ton of soil carbon pool may increase crop vield bv 20 to 40 kilograms per hectare of wheat, 10 to 20 kg/ ha for maize, and 0.5 to 1 kg/ha for cow peas. The effects of soil sequestration can be reversed. If the soil is disrupted or tillage practices are abandoned, the soil becomes a net of greenhouse source gases. Typically after 15 to 30 years of sequestration, soil becomes saturated and ceases to absorb carbon. This implies that there is a global limit to the amount of carbon that soil can hold.

Many factors affect the costs of carbon sequestration including soil quality, transaction costs and various externalities such as leakage and unforeseen environmental damage.

Because reduction of atmospheric CO2 is a longterm concern, farmers can be reluctant to adopt more expensive agricultural techniques when there is not a clear crop, soil, or economic benefit.

> - G.Aravind III Year chemical

Enhanced oil recovery by storing the captured Carbon di oxide Enhanced

recovery (EOR) is a generic term for techniques used to increase the amount of crude oil that can be extracted from an oil field. Carbon Capture & In Sequestration Enhanced Oil Recoverv (CCS EOR). carbon dioxide is injected into an oil field to recover oil that is often never recovered using more traditional methods.

Crude oil development and production in U.S. oil reservoirs can include up to three distinct phases: primary, secondary, and (or enhanced) tertiary recovery. During primary recovery only about 10 percent of a reservoir's original oil in place is typically produced. Secondary recoverv techniques extend a field's productive life generally by injecting water or gas to displace oil and drive it to a production wellbore,

resulting in the recovery of 20 to 40 percent of the original oil in place. However, with much of the easy-to-produce oil already recovered from U.S. oil fields. producers have attempted several tertiary, or enhanced oil recovery (EOR), techniques that offer prospects for ultimately producing 30 to 60 percent, or more, of the reservoir's original oil in place.

> -D.Venkatesh III Year chemical

Carbon Sequestration

Carbon sequestration removes carbon, in the form of CO₂, either directly from the atmosphere or at the conclusion of combustion and industrial processes. One type of sequestration is the longterm storage of carbon in plants trees and (the terrestrial biosphere). commonly referred to as terrestrial sequestration. CO_2 removed from the atmosphere is either stored in growing plants in the biomass form of or absorbed by oceans which are called geologic or ocean sequestration respectively. Sequestering carbon helps to reduce or slow the buildup of CO₂ concentrations in the atmosphere.

Before the Industrial Revolution. the concentration of greenhouse gases in the atmosphere remained relatively constant. Except for slow changes on a geological time scale, the absorption and release of carbon was kept in balance. By clearing forests and burning fossil fuels more rapidly than the carbon can sequestered, be industrialization may have altered this equilibrium.

Currently, human activity is directly or indirectly responsible for the release of six to seven billion metric tons of carbon annually. In light of these potential impacts, strategies to help reverse these emission trends like carbon sequestration are increasing in importance.

There are many benefits of carbon sequestration through reforestation like environmental and financial benefits. Some of the environmental benefits are improvement of air

quality, providing habitat for endangered species, improvement of water quality, recreational benefits. and phytoremediation. Some of the financial benefits are recreational revenue. and timber non-timber harvest benefits. tax incentives, waste recycling.

-PRAKASH.S III Year chemical

CARBON SEQUENSTER IN OCEAN

One of the most places promising to sequester carbon is in the oceans, which currently take up a third of the carbon emitted by human activity, roughly two billion metric tons each year. The amount of carbon that would double the load in the atmosphere would increase the concentration in the deep ocean by only two percent.

Two sequestration under strategies are intense study at the Department of Energy's Center for Research on Carbon Ocean (DOCS),Sequestration where Jim Bishop of Berkeley Lab's Earth Sciences Division is codirector with Livermore Lab's Ken Caldeira.

One is direct injection, which would pump liquefied carbon dioxide a thousand meters deep or deeper, either directly from shore stations or from tankers trailing long pipes at sea.



"At great depths, CO2 is denser than sea water, and it may be possible to store it on the bottom liquid as or deposits of icy hydrates," Bishop explains. "At depths easy to reach with pipes, CO2 is buoyant; it has to be diluted and dispersed so it will dissolve."What happens to carbon dioxide introduced into the ocean in this way may soon be field-tested in Hawaii. Over two-week period а researchers plan to inject 40 to 60 metric tons of pure liquid CO2 over 2,500 feet deep in the ocean near the Big Island.

One variable they will be measuring is acidity. Water and carbon dioxide form carbonic acid. "but once diluted in sea water, carbonic acid is not the dominant chemical species," Bishop says, "because of seawater's high buffering alkalinity and capacity." If calcium carbonate sediments are involved, acidity is even less. "Think of Tums," he suggests.

Capturing CO₂ is probably most effective at point sources, such as large fossil fuel or biomass energy facilities, industries with major CO₂ emissions, natural gas processing, synthetic fuel plants and fossil fuelbased hydrogen production plants. Extraction (recovery) from air is possible, but not very practical. The CO_2 concentration drops rapidly moving away from the point source. The lower concentration increases the amount of mass flow that must be processed (per tonne of carbon dioxide extracted).

Concentrated CO_2 from the combustion

of coal in oxygen is relatively pure, and could directly processed. be Impurities in CO₂ streams could have a significant effect on their phase behaviour and could pose a significant threat of increased corrosion of pipeline and well materials. In instances where CO₂ impurities exist and especially with air capture, a scrubbing process would be needed.

Organismsthatproduce ethanol by fermentation generatecool,essentiallypure CO_2 thatcanbepumpedunderground.Fermentationproducesslightlyless CO_2 than ethanol by weight.

Broadly, three different types of technologies for scrubbing exist: postcombustion, precombustion, and oxyfuel combustion:

In post combustion capture, the CO_2 is removed after combustion of the fossil fuel — this is the scheme that would be applied to fossil-fuel burning power plants. Here, carbon dioxide is captured from flue gases at power stations or other large point sources.

The technology is well understood and is currently used in other industrial applications, although not at the same scale as might be required in a commercial scale power station.

The technology for pre*combustion* is widely applied in fertilizer. chemical, gaseous fuel (H₂, CH₄). power and production.^[13] In these cases, the fossil fuel is partially oxidized. for instance in a gasifier. The resulting syngas (CO and H_2) is shifted into CO_2 and H₂. The resulting CO_2 can be captured from а relatively pure exhaust stream. The H₂ can now be used as fuel: the carbon dioxide is removed before combustion takes place.

There are several advantages and when disadvantages compared to conventional post combustion carbon dioxide capture. The CO₂ is removed after combustion of fossil fuels, but before the flue gas is expanded to atmospheric pressure. This scheme is applied to new fossil fuel burning power plants, or to existing plants where re-powering is an option.

The capture before expansion, i.e. from pressurized gas, is standard in almost all industrial CO_2 capture processes, at the same scale as will be required for utility power plants. In *oxy-fuel* combustion the fuel is burned in oxygen instead of air. To limit the resulting flame temperatures levels to during common conventional combustion, cooled flue gas is recirculated and injected into the combustion chamber. The flue gas consists of mainly carbon dioxide and water vapour, the latter of which is condensed through cooling.

> -S.VIGNESHWARAN IV Year chemical

CO₂ Capture Technologies



While CO₂ capture technologies are new to the power industry, they have been deployed for the past sixty years by the oil, gas and chemical industries. Thev are an integral component of natural gas processing and of many coal gasification processes used for the production of chemicals syngas, and liquid fuels. There are three main CO₂ capture for power processes generation.

- post-combustion
- pre-combustion
- oxyfuel

'Post-combustion'

capture involves

separating the CO_2 from other exhaust gases after combustion of the fossil fuel. Post-combustion capture systems are similar to those that already remove pollutants such as particulates, sulphur oxides and nitrogen oxides from many power plants.

The most commonly used postprocess for combustion CO₂ capture is made possible through special chemicals called amines. A CO₂ rich gas stream, such as a power plant's flue gas, is "bubbled" through an amine solution. The CO₂ bonds with the amines as it passes through the solution while other gases continue up through the flue. The CO_2 in the resulting CO₂-saturated amine solution is then removed from the amines, "captured" and is ready for carbon storage. The amines themselves can be recycled and re-used.

Whilst post-combustion CO_2 capture is technically available now for coalbased power plants, it has not yet been used commercially for largescale CO_2 removal.

'Pre-combustion' capture involves

separating CO_2 before the fuel is burned. Solid or liquid fuels such as coal, petroleum biomass or products are first gasified in a chemical reaction at very high temperatures with a controlled amount of Gasification oxygen. produces two gases, hydrogen and carbon monoxide (CO). The CO is CO_2 and converted to removed. leaving pure hydrogen to be burned to produce electricity or used for another purpose. The CO₂ is then compressed into a supercritical fluid for

transport and geological storage. The hydrogen can be used to generate power in an advanced gas turbine and steam cycle or in fuels cells – or a combination of both.

Oxyfuel combustion (also called oxyfiring) involves the combustion of coal in pure oxygen, rather than air, to fuel a conventional steam generator. Bv avoiding the introduction of nitrogen into the combustion chamber, the amount of CO_2 in the power station exhaust stream is greatly concentrated. making it easier to capture compress. Oxyfuel and combustion with CO₂ storage is currently at the demonstration phase.

Each of these capture options has its particular benefits. Post-combustion capture and oxyfuel have potential the to be retrofitted to existing coalfired power stations and plants constructed new over the next 10-20 years. Pre-combustion capture utilising IGCC is potentially more flexible, opening up a wider range of possibilities for coal, including a major role in a future hydrogen economy.

All the options for capturing CO₂ from power generation have higher capital and operating costs as well as lower efficiencies then conventional power plants without capture. Capture is typically the most expensive part of the CCS chain. Costs are higher than for plants without CCS because more equipment must be built and operated. Around 10-40% more energy is required with CCS than without. Energy is required mostly to separate the CO_2 from other gases and to compress it, but some is also used to transport the CO_2 to the injection site and inject it underground.

As CCS and power generation technology become more efficient and better integrated, the increased energy use is likely to fall significantly below early levels. Much of the work on capture is focused on lowering costs and improving efficiency as well as improving the integration of the capture and power generation components. These improvements will reduce energy requirements.

> -P.Raja Raja Chozhan III Year chemical

Main techniques for preventing carbon dioxide from coal-fired power stations

Carbon capture and storage (CCS) is а range of technologies that hold the promise of trapping up to 90% of the carbon dioxide emissions from power stations and industrial sites. It involves collecting, transporting and then burying the CO2 so that it does not escape into the atmosphere and contribute to climate change.

There are three main techniques: the postcombustion process involves scrubbing the power plant's exhaust gas using chemicals. Precombustion CCS takes place before the fuel is placed in furnace by first the converting coal into a clean-burning gas and stripping out the CO2

released by the process. The third method, oxyfuel, burns the coal in an atmosphere with a higher concentration of pure oxygen, resulting in an exhaust gas that is almost pure CO2. (See below for further details).

Once the CO2 has been trapped, it is liquefied, transported - sometimes for several hundred miles and buried. either in suitable geological formations, deep underground saline aquifers or disused oil fields. The last method is often used in a process "enhanced called oil recovery", where CO2 is pumped into an oil field to force out the remaining pockets of oil that would otherwise prove difficult to extract.

The technology is not cheap - up to 40% of a power station's energy could end up being used to run the CCS scrubbing and transport systems and experts estimate the average cost of retro-fitting aged Britain's power stations at about £1bn each. Pipes to transport the CO2 to suitable burial sites could cost £1m per mile. The oldest power stations being mav end up uneconomical to refit.

All the components of CCS have been in use by oil companies and chemical engineering plants for decades. But, so far, only a small pilot project at Vatenfall's Schwarze Pumpe power station in northern Germany has connected all the different stages of the CCS chain together. The pilot is an oxyfuel boiler that can generate 30MW of heat and around 12MW of electricity.

> -KEVIN .J II Year chemical

Carbon dioxide recycling / Carbon Capture and Utilization

Recycling CO₂ may offer a response to the challenge global of significantly reducing greenhouse gas emissions from major stationary (industrial) emitters in the near to medium term, but is usually considered a different technological category from CCS. Technologies under development, such as Bio CCS Algal Synthesis, utilises pre-smokestack CO₂ (such as from a coal-fired power station) as а useful feedstock input to the production of oil-rich algae in solar membranes to produce oil for plastics and transport fuel (including aviation fuel), and nutritious stock-feed for farm animal production. The CO_2 and other captured greenhouse gases are injected into the membranes containing waste water and select strains of algae causing, together with sunlight or UV light, an oil rich biomass that doubles in mass every 24 hours.

The Bio CCS Algal Synthesis process is based on earth science photosynthesis: the technology is entirely retrofittable and collocated with the emitter, and the capital outlays may offer a return upon investment due to the high value commodities produced (oil for plastics, fuel and feed).

Bio CCS Algal Synthesis test facilities are being trialed at Australia's three largest coal-fired power stations (Tarong, Queensland; Eraring, NSW; Loy Yang, Victoria) using pre-emission piped smokestack CO₂ (and other greenhouse gases) as feedstock to grow oil-rich algal biomass in enclosed membranes for the production of plastics, transport fuel and nutritious animal feed.

Another potentially useful way of dealing with industrial sources of CO2 is to convert it into hydrocarbons where it can be stored or reused as fuel or to make plastics. There are a number of projects investigating this possibility. Carbon dioxide scrubbing variants exist based on potassium carbonate which can be used to create liquid fuels, though this process requires a great deal of energy input. Although the creation of fuel from atmospheric CO₂ is not a climate

engineering technique, nor does it actually function as greenhouse gas remediation. it nevertheless is potentially useful in the creation of a low carbon economy. Other are uses the production of stable carbonates from silicates (i.e. Olivine produces Magn esium carbonate).

> - Kavinila. G II Year chemical

Bio-energy with carbon capture and storage

The main technology for CO₂ capture from biotic sources generally employs the same technology as carbon dioxide capture from conventional fossil fuel sources. Broadly, three different types of technologies exist: postcombustion, precombustion, and oxy-fuel combustion.

However, on the critical subject of *"upstream large-scale provision of the biomass*

cultivation/refinery

technology, marine based BECCS (i.e. MBECS) operations, within the subtropical convergence zones (STCZ), offers а unique combination of stable oceanic environmental conditions which can physically accommodate vast MBECS operations while avoiding the long list of limiting found within factors terrestrial BECCS.

The STCZs are marine deserts with no practical levels of biological activity within the surface or nutricline waters and which also offers vast amounts of renewable for energy cultivation/processing of the biomass.

The raw nutrients found within the nutricline can be used to support vast scale biomass production with only mineral importation. The cultivation of both micro and macro algal species can be augmented with terrestrial species such as halophytes (for oil) and bamboo (for Cellulosic ethanol) grown through aquaponic subsystems.

The use of nonphotosynthesis dependent cultivation methods, such as described in the paper: "REDUCTION OF CARBON DIOXIDE COUPLED WITH THE **OXYHYDROGEN** REACTION IN ALGAE, expands micro algal cultivation into all three dimensions.

Farming *down* the water column to 50+ meters is possible. Also, a broad spectrum of critical (nonfuel) commodities, such as food/feed/fertilizer/plastic and vast volumes of freshwater production, can economically subsidize MBECS biofuel production at sub fossil fuel prices.

Based upon reasonable assumptions concerning biofuel production output for 1 km2 under the MBECS scenario, the total global replacement of fossil fuels can be achieved at <1.5M km2 of MBECS operations. Global replacement of fossil fuels is achievable within 20 years, while within that same time frame, all energy importing nations can achieve energy independence through involvement in the IMBECS Protocol.

The coordination of an internationally collaborative MBECS effort is the focus of the Intergovernmental Marine Bio-Energy and Carbon Sequestration (IMBECS) Protocol (developed by Michael Hayes).

-V.Swetha III Year chemical

CARBON DIOXIDE IN FOOD

Carbon dioxide is used in the food industry to produce carbonated beverages such as sodas and mineral waters. It is also employed to propel beer on tap, and gives this beverage its famous foam.

Carbon dioxide is also used an **inerting** as atmosphere (for welding or for handling flammable materials, for example). It a protective creates **atmosphere** that enables to control the proliferation the micro-organisms of (insect larvae, bacteria, found fungi, etc.) in foodstuffs such as grains and bread, by depriving them of Oxygen.

Additionally, Carbon dioxide is used in some **fire extinguishers**. It is packaged in the gaseous state but becomes dry ice snow when released. It is able to cool flames and also deprives fire of the Oxygen it needs to burn by displacing air.

In the solid state (-78°C), Carbon dioxide forms **dry ice**. A powerful source of cold, this ice is used to immediately freeze food. It is also used to transport food in such a way that the **cold chain** is not broken. This is how the meals served on airplanes and trains are kept fresh and safe for consumption.

> -Balaji.T.P II Year chemical

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Carbon Sequestration

You choose, we do it St.Joseph's College of Engineering Department of Chemical Engineering Department toppers



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