

MECHANICAL DEPARTMENT ANNA UNIVERSITY RANK HOLDERS - 2015



S.PRAVIN KUMAR

CGPA: 9.2

RANK: 5

S/O Mr.R.SOMASUNDARAM
Mrs.S SENBAGALAKSHMIS.

Cash prize Rs. 25,000



RAGUL.S

CGPA: 9.08

RANK: 14

S/O Mr.SELVARAJU.T
Mrs.CHANDRA.

Cash prize Rs. 25,000



AATHI PRASATH. A

CGPA: 8.92

RANK: 29

S/O Mr.AGASTHIAPPAN.A
Mrs.JAYANTHI.A

Cash prize Rs. 25,000



ASHWIN KARTHIK. P

CGPA: 8.76

RANK: 49

S/O Mr.PURUSHOTHAMAN.K
Mrs.P.VASUDHA

Cash prize Rs. 25,000



Mr. VINCENT B

M.E (Mfg) - 6TH RANK

S/O Mr.X. BASIL RAJAN

Mrs. B. JENITHA

Cash prize Rs. 25,000

18th GRADUATION DAY REPORT

The 18th Graduation Day was held on the 28th of April, 2016. Dr. Jeppiaar Founder Chairman of St. Joseph's College of Engineering presided over the function. Mr.Srinivasan Bhaskar, Vice-President-Technology, Cognizant Technology Solutions delivered the Graduation address and distributed degree certificates.

1315 students received their degree. The College has bagged the highest number of University Ranks for the 10th consecutive year in Anna University Examinations held in the **May, 2015**. This batch of students secured **106 Ranks**.

All the Rank holders were honored by giving a Cash Prizes worth Rs. **27.00 lakhs** which includes **Rs. 50,000/-** each for the **Gold Medal** and **Silver Medal** and **Rs.25,000/-** each for all other **Rank Holders & Shields**. The total prize money amounts to **Rs.29.42 lakhs**.

PLACEMENT DETAILS

Out of the **1315** students who received their degree, **910** of them are placed through campus interviews, **227** of them through off campus and **174** of them have become entrepreneurs. The students are placed in many leading organizations like Cognizant Technologies, Wipro, Infosys, Mu-Sigma, Comm Vault, Global Analytics, Vembu Technologies, Tech Mahindra Soliton Technologies, HDFC, ICICI, Yes Bank, ITC Ltd, L&T, Zoho, Naukri.com, HCL, Hewitt, Renault Nissan, Virtusa, RBS, Accenture, Mindtree, Kotak Mahindra Bank, Pepsico etc., with a salary ranging from 2.4 lakhs to Rs 6.5 lakhs per annum.

HIGHER STUDIES

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

CO - CURRICULAR ACTIVITIES

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 years students. After preliminary scrutiny of the projects submitted nationwide, 16 projects were selected for the final presentation. Out of these 16 projects St Joseph's is proud to win 3 projects.

The selected projects are

- “Design and Development of 3D Printer” done by G. Vignesh ,S. Akash of the Mechanical Engineering Department under the guidance of Mr. L. Balamurugan. This Project also received NIT Kozhikode National Award for the Best B.Tech. Project by ISTE.
- “Effect of Dynamically Controlled Reflectors on the performance of Solar Panels” done by Soloman Jeshur Raja, A.V. Vamsi Krishna of the Electrical and Electronics Engineering Department under the guidance of Mrs. V. Uma.
- “Dry Agram [Beta] - A Unique DNA Based Ink and Hologram for Authentication Security” done by E.

Jothivanam , Y.V. Vamsi Bharadwaj of the Bio Technology Department under the guidance of Dr .Justin Pakiya Jacob

- Ms. Reshmi.N and Ms. Ishwarya.B, of the Bio Technology Department carried out their final year project in “Tuberculosis Research” at National Institute for Research in Tuberculosis, Chennai. This Project is jointly funded by National Institute of Immunology (ICMR, India) , National Institute of Health, USA
- Mr. Naveen Kumar.R and Mr. Heronimus Melvin.X, of the Bio Technology Department carried out their final year project in the “Bioethanol from Agriculture waste”, which has been published in International Journal named “Renewable Energy” with an Impact factor of 3.5
- Mr. Joseph Jose. K of the Electronics and Communication Department attended a Student Leadership Conference organized by Optical Society of America, held at Tucson, Arizona, USA.

EXTRA-CURRICULAR ACTIVITIES

Our students have excelled not only in the field of academics, but also in the field of sports. We have V Sneka, S.Srinidhi, M.Vigneshwar, Tharani, Kerchiyal, S.Anandharaj, Mohammed Aship Asharaf, S.Sowjanya, Tulika Godamkar & J.G.Nivethitha who represented our college in various events at the National and International Levels.

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

No of students Appeared : 1471

No. of students Passed : 1315

Pass Percentage : 89.4

First Class with Distinction : 143

Passed with First Class : 1172

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

Total No. of Ranks : 1002

Gold Medals : 44

Silver Medals : 38

Other Ranks : 920

Anna University Ranks for the 10th consecutive year

Total No. of University Ranks : 106

University Rank Awards : Total Rs. 29.42 lakhs

Cash Award (106*25,000) : Rs. 26.50 lakhs

Shields & Medals : Rs 2.92 lakhs

Placement

Total No. of Students Placed through

Campus Recruitment : 910

Off Campus : 287

Self Employed : 174

HIGHER STUDIES**Students pursuing Higher studies through
Advisory Bureau for Higher Studies (ABHS)**

Abroad 133

India 59

SPORTS

International Players 3

National Players 6

Represented Anna University in
All India University Tournaments 8

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

	Name of the Award	Branch	Year	Name of the Student
1	Dr. M.G.R Award	CSE	2011-2015	Ms. Pavithra Sridhar
2	A.P. Baulraj Award	ECE	2011-2015	Mr. Denesh Kumar.S
3	Abraham Lincoln Award	EEE	2011-2015	Mr. Karthick.S
4	Mother Teresa Award	MECHANICAL	2011-2015	Mr. Pravin Kumar.S
5	Dr. A.P.J. Abdul Kalam Award	ICE	2011-2015	Ms. Umayal .C
6	Kalpana Chawla Award	EIE	2011-2015	Ms. Shantha Laxmi .K
7	Martin Luther King Award	IT	2011-2015	Mr. Swaminathan .T.V
8	Deiva Pulavar Thiruvalluvar Award	CHEMICAL	2011-2015	Mr. Yohannan Bibin Sabilon
9	M. Visvesvaraya Award	Bio-Tech	2011-2015	Ms. Aishah Salma Shariff
10	Mahakavi Subramaniya Bharathiar	M.B.A	2013-2015	Mr. Kannan.T
11	Pavendar Bharathidasan Award	M.C.A.	2012-2015	Ms. Deepika.R
12	Dr. S. Radhakrishnan Award	M. Sc.	2010-2015	Ms. Dezosa
13	Annai Janaki M.G.R Award	M.E (Applied	2013-2015	Ms. Josephine Vincent
14	Perunthalaivar Kamarajar Award	M.E (Power Electronics)	2013-2015	Ms. Nuthalapati Mani Deepika Prasanthi
15	Arignar Anna Award	M.E (Computer Science)	2013-2015	Ms. Helen Victoria.A
16	Nelson Mandela Award	M.E (C & I)	2013-2015	Ms. S.Arockia Sukanya
17	Sir C. V. Raman Award	M.E (Power Systems)	2013-2015	Ms. Amritta.P
18	Srinivasa Ramanujan Award	M.E (Software)	2013-2015	Ms. Sangeetha Nagarajan
19	C.K Prahald Award	M.E (Manufacturing)	2013-2015	Mr. Vincent.B
20	Dr. Muthulakshmi Award	M.Tech(Bio.Tech)	2013-2015	Ms. Caroline. D.G

ACHIEVEMENTS OF OUR STUDENTS YEAR AFTER YEAR

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

DEPARTMENT DETAILS OF BATCH 2011-2015

No. of Students Graduated	First Class with Distinction	First Class	Trust Award - Mother Theresa Award	Placement	Pursuing Higher Studies
B.E : 127 M.E : 11	B.E : 15 M.E : 01	B.E : 116 M.E : 11	Mr. R. KARTHIK	Campus : 45 Off campus : 35	Aboard : 12 India :12

University Rank Holders	Name of the Student(UG)	Rank	Name of the Student(PG)	Rank
05 Ranks	S.PRAVIN KUMAR	5	B.VINCENT	6
	RAGULS	14		
	AATHI PRASATH. A	29		
	ASHWIN KARTHIK. P	49		

FACULTY ACTIVITIES

Good teaching can never be complete without good research. Many of our teachers are into active research. Presenting research papers in various national and international forums is a culture that we foster in our institution. The Publications added to their profile are listed below:

FACULTY PUBLICATIONS:

MECHANICAL:

1. **K.Arun**, Experimental studies on gasification of corn cobs in a fixed bed system, Journal of chemical and pharmaceutical research, 2016, 8(7): 667-676.
2. **K.Arun**, Comparative studies on gasification of corn cob, casugrina wood and coconut shell in a fixed bed gasifier, Journal of chemical and pharmaceutical research, 2016, 8(7): 544-552.
3. **K.Arun**, Stoichiometric equilibrium modelling of corn cob gasification and validation using experimental analysis, Energy and fuels 2016. Impact Factor: 2.839.
4. **N.E.Arunkumar**, A study on parametric optimization of wire electrical discharge machining using response Surface methodology, International journal of chemical sciences 2016, 1051-1059 ISSN.
5. **Dr.S.Arivazhagan**, Heat Transfer analysis of flat plate subjected to multi-jet air impingement using principal component analysis and computational technique, Journal Applied fluid mechanics.
6. **Dr.Vaddi Seshagiri Rao**, Optimization of drilling process parameters for minimizing surface roughness in carbon – carbon composite materials, Applied Mechanics and Research Vol. 1077 PP 96-105. 2015.
7. **Dr.Vaddi Seshagiri Rao**, Mechanical and Metallurgical Characterization of Dissimilar Weld Joints Using Continuous Direct Drive Friction Welding, Engineering Transactions, Vol.64, Issue 2, pp. 241-252, 2016.
8. **Dr.Vaddi Seshagiri Rao**, Characteristics of AA7075-T6 and AA6061-T6 friction welded joints, Transactions of the Canadian Society for Mechanical Engineering, pages 845-854 Volume 39 (2015), Issue 4.
9. **Dr.Arunkumar N**, Investigation of hot-staking process parameters and evolution of improvement in joint strength, Materials and Manufacturing Processes, Taylor & Francis Group, LLC DOI:10.1080/10426914.2014.961479, Vol.30,pp.155-161 , Impact factor 1.276 (2015)
10. **Dr.Arunkumar N**, Development of Copper Nano crystalline metal matrix composites, International Journal of Chem Tech Research, ISSN:0974-4290, Vol.7, No.3, pp.1267-1271. (2015).
11. **Dr.Arunkumar N**, Investigation and improvement in peak failure load of hot staked joints in starter motor armatures using complementing problem solving tools, Journal of Mechanical Science and Technology, DOI: 10.1007/s12206-015-0346-0 ,Vol.29, No.04, pp.1731-1736 , Impact factor 0.703 (2015).

12. **Dr.Arunkumar N**, Evolution of robust manufacturing process in machining of DC motor commutator using complementing problem solving tools, Mechanics and Materials, Trans Tech Publications, Switzerland, DOI:10.4028/www.scientific.net/AMM.766-767.1183, Vol. 766-767, pp.1183-1189. (2015).
13. **Dr.Arunkumar N, R.Selvam**, Experimental and Numerical Investigation of the Flexural properties of Thick Laminated Hybrid Composites, International Journal of Applied Engineering Research, Research India Publications, ISSN 0973-4562, Vol. 10, No. 8, pp.6011-6014. (2015)
14. **Dr.Arunkumar N, R.Selvam** Experimental investigation and numerical analysis of the dynamic characteristics of a laminated hybrid composite bed, Polymer Composites, Wiley Online Library, Copy right 2015 Society of Plastic Engineers, DOI:10.1002/pc.23555, (2015).
15. **Dr.Arunkumar N**, Wear analysis on Silicon coated HSS pin on HSS disc substrate, Procedia Materials Science, published by Elsevier Ltd., Science Direct, DOI:10.1016/j.mspro.2015.06.057, Vol.10 , pp.644-650 (2015)
16. **Dr.Arunkumar N**, Failure mode and analysis of the bonded/bolted joints between a hybrid fibre reinforced polymer and aluminium alloy, Journal of Advanced Materials and Processing, ISSN 2345-4601, Vol. 3, No.2, pp.49-60. (2015)
17. **Dr.Arunkumar N**, Effects of Micro and Nano-size Al₂O₃ particle reinforcement on Mechanical behavior of extruded Aluminum alloy Matrix composite, Applied Mechanics and Materials, Trans Tech Publications, Switzerland, DOI:10.4028/www.scientific.net/AMM.787.617, Vol. 787, pp.617-621. (2015).
18. **Dr.Arunkumar N**, Experimental investigation on Mechanical properties of micro and nano size Al₂O₃ particle reinforced extruded composite, Rev.Tec.Ing.Univ.Zulia, ISSN 0254-0770 ,Vol.38, No.3,pp.156-164, Impact factor 0.05 (2015).
19. **Dr.Arunkumar N**, A comparative study on low cycle fatigue behavior of nano and micro Al₂O₃ reinforced AA2014 particulate hybrid composites, Results in Physics, Elsevier Journal, Science Direct <http://dx.doi.org/10.1016/j.rinp.2015.09.004>, Vol. 5, pp.273-280. (2015).
20. **Dr.Arunkumar N**, Distortion control in thin low carbon steel plates using stiffeners and sequential welding, International Journal of Applied Engineering Research, ISSN:0973-4562, Vol.10, No.21, pp.41962-41971. (2015).
21. **Dr.Arunkumar N**, Wear and corrosion study of sputtered zirconium thin films on SS316L for wind mill application, International Journal of Engineering Research and Applications, ISSN: 2248-9622, Vol.5, No.5, (Part-1), pp.51-55. (2015).
22. **Dr.Arunkumar N**, A comparative study of Mechanical properties of friction welded Copper to Aluminum interlayer with Macro analysis, International Journal of Applied Engineering Research, ISSN:0973-4562, Vol.10, No.19, pp.14895-14902. (2015)
23. **Dr.Arunkumar N**, Developed similarity measure for machine cell formation and exclusion of exceptional elements', International Journal of Applied Engineering Research, ISSN:0973-4562, Vol.10, No.4, pp.10171-10184. (2015)

24. **Dr.Arunkumar N, Mr.Arun.M** Performance evaluation of dry drilling of stainless steel using cryogenic treated drills, International Journal of Applied Engineering Research, ISSN:0973-4562, Vol.10, No.32, pp.23887-23893. (2015)
25. **Dr.Arunkumar N**, Optimization of process parameters in turning of Titanium alloy with coated inserts using response surface methodology', International Journal of Applied Engineering Research, ISSN:0973-4562, Vol.10, No.32, pp.23925-23930. (2015)
26. **Dr.Arunkumar N**, Optimization of machining parameters in milling of Titanium alloy with coated inserts using taguchi method, International Journal of Applied Engineering Research, ISSN:0973-4562, Vol.10, No.32, pp.23957-23963. (2015)
27. **Dr.Arunkumar N**, Optimizing the process flow of the mixer unit (Internal material movement), International Journal of Applied Engineering Research, ISSN:0973-4562, Vol.10, No.32, pp.23989-23993. (2015)
28. **Dr.N.Arunkumar**, Development of Copper Nano crystalline metal matrix composites, International Journal of Chem Tech Research ISSN:0974-4290, Vol.7, No.3, pp.1267-1271. Feb 2015.
29. **Dr.N.Arunkumar**, Investigation on Performance of Abrasive Water Jet in Machining Hybrid Composites, Materials and Manufacturing Processes (Taylor & Francis), DOI: 10.1080/10426914.2016.1198039, Impact Factor: 1.629,2016
30. **R.Venkatesh**, Synthesis and characterization of SiC- Mg-Gr Nano crystalline reinforced aluminum oxide composite and analysis of its machinability characteristics, International Journal on recent technologies in mechanical and electrical engineering, Vol:3, Issue: 2, PP 010-016, Feb 2016
31. **R.Venkatesh**, The preparation of Al-Sic metal matrix composite and evaluation of its properties, International journal of innovations in engineering and technology, Vol:6, Issue: 3, PP 319-326, Feb 2016.
32. **K.PravinKumar**, Oxygen reduction reaction of manganese Oxide/grapheme oxide nanocomposite, Indian journal of chemistry.Vol.55A, pp.177-181, Feb 2016.
33. **Dr.Arunkumar N**, Mechanical properties and microstructure of friction welded Aluminum 6061-T6', International Journal of Applied Engineering Research, ISSN:0973-4562, Vol.10, No.15, pp.35546-35551. (2015).
34. **M.Arun**, Experimental investigation of dry drilling of austenitic stainless steel, ARPN Journal of Engineering and Applied Sciences, Vol. 11, No. 2, Jan 2016
35. **M.Arun**, Through Pass Rate Improvement in a Assembly Line by BPS Methodology: A Case Study of a Manufacturing Company, International Journal of Manufacturing and Mechanical Engineering Volume 2, pp. 1- 14, Number 2015
36. **R.Sathish**, Thermal And Structural Analysis Of Friction-Welded Dissimilar Materials, International Journal of Applied Engineering Research Volume 10, Number 1 (2015) pp. 2211-2219

37. **R.Sathish**, Tensile Strength and Hardness Correlations with Microscopy in Friction welded Aluminium to Copper, Journal of The Institution of Engineers (India): Series C January 2016, Volume 97, Issue 1, pp 121-126 First online: 06 March 2015
38. **R.Sathish**, Characteristics of AA7075-T6 and AA6061-T6 friction welded joints, Transactions of the Canadian Society for Mechanical Engineering, pages 845-854 Volume 39 (2015), Issue 4.
39. **R.Sathish**, Mechanical and Metallurgical Characterization of Dissimilar Weld Joints Using Continuous Direct Drive Friction Welding, Engineering Transactions, Vol.64, Issue 2, pp. 241-252, 2016.
40. **K.M.Kumar**, Examination of Microstructure and Mechanical Properties of Austempered Ductile Iron (ADI) As Per Austempering Temperature and Time, Trans Indian Inst Met, DOI 10.1007/s12666-015-0608-7, June, IF-0.615 2015
41. **K.M.Kumar**, Experimental Determination of Thrust Force, Torque and Surface Roughness in Machining Austempered Ductile Iron (ADI), International Journal of Applied Engineering Research, ISSN 0973-4562, Vol. 10 No.68 (2015).
42. **K.M.Kumar**, Effective fuel consumption by improving cooling water flow rate in IC Engine, Applied Mechanics and Materials Vol. 812 (2015) pp 112-117 July 2015.
43. **K.M.Kumar**, Experimental Investigation On Dry Sliding Wear Resisting Capabilities Of Austempered Ductile Iron, International Journal of Applied Engineering Research, ISSN 0973-4562, Vol. 10 No.61
44. **R.Selvam**, Investigation on Performance of Abrasive Water Jet in Machining Hybrid Composites, Materials and Manufacturing Processes (Taylor & Francis), DOI: 10.1080/10426914.2016.1198039, Impact Factor: 1.629,2016
45. **T.Balasubramanian**, Simulation of Pressure Drop of Alternative Refrigerants inside evaporator Coil using CFD, International Journal of Mechanical, Civil, Automobile and Structural Engineering (IJMCAS), Vol. 1, Issue. 1, April - 2015
46. **T.Balasubramanian**, Design and analysis of high speed water pump for domestic purpose, International Journal applied engineering and research ISSN0973 Vol.10 No.68 2015
47. **N.E.Arun Kumar**, Multi-Objective Optimization Of Wire Electrical Discharge Machining Using Principal Component Analysis, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.2 (2015) pp. 1739-1742.
48. **R.Venkatesh**, Wear analysis on silicon carbide coated HSS Pin on SS Disc Substrate, Elsevier, Procedia Material Science, 2015, 644-650
49. **R.Venkatesh**, Preparation and investigation of Cu-Co- Al₂O₃ Nanocrystalline metal matrix composites, International Journal of innovations in Engineering and Technology (IJJET), Volume 5, Issue 3, June 2015.
50. **R.Venkatesh**, Development of Copper Nano crystalline metal matrix composite, International Journal of Chem Tech Research, Vol.7, No.3, PP 1267-1271, Feb 2015.

51. **K.M.B.Karthikeyan**, Thermophysical properties of of coconut oil based nano fluid, International Journal of applied research, ISSN 0973- 4562, Vol.10 No.62-2015, P.P 47-49
52. **K.M.B.Karthikeyan**, Synthesis and study of hybrid nano fluid, International Journal of applied engineering and research, ISSN 0973- 4562, Vol.10 No.68-2015, P.P 682-68.
53. **M.Ganesh**, Design and analysis of automotive bumper beam using polymer matrix composite, Middle East Journal of Scientific Research, DOI: 10.5829/idosi.mejsr.2016.24.S1.1

CIVIL:

1. **Adlin Rose . R** and Ilamparuthi.K , “Behaviour of foundations in slopes ”, Proceedings of Indian Geotechnical Congress, 2015, Vol 1,Theme 17, pp.235.

FACULTY DEVELOPMENT ACTIVITIES:

‘Who dares to teach must never cease to learn’. Our faculty members are encouraged to participate in workshops, seminars, conferences and training programmes for skills and competency development and to organize and conduct in house programmes of value.

1. **Mr. K. Arun** attended National Workshop on Biofuels and Bioenergy, Sponsored by Department of Biotechnology, Government of India, Organized by Department of Biotechnology, St. Joseph's College of Engineering, Chennai - 600119.

FACULTY HIGHLIGHTS:

1. **Dr. L. Balamurugan** have been appointed as Subject Expert member (Replacement to Foreign Examiner) for viva-voce examination of Mr.D.Easu held on 10-8-2015 at MIT, Chrompet, by the Research Centre, Anna University.

AICTE PROJECT GRANT

Dr. N. Arunkumar, Professor & Head- Student Affairs, have secured an AICTE Project Grant as detailed below:

Title	:	Investigation of deep hole drilling AISI1045 steel and analysis of tool wear under varying aspect ratios with different cutting fluids
Scheme	:	Research Promotion Scheme (RPS)
Duration of the Project	:	3 Years
Grant	:	Rs. 14,11,765/-

FACULTY ADDITION:

Six new faculty members joined in the mechanical department and three new faculty members joined in the civil department in June 2015 at the rank of Assistant Professor.

Department of Mechanical Engineering	:	New Staff - 06
Department of Civil Engineering	:	New Staff - 03

WORKSHOP CONDUCTED

One Day National Workshop on “**ADVANCED OPTIMIZATION TECHNIQUES FOR ENGINEERING RESEARCH**” was held on 31.08.2015. About 20 participants comprising faculty members from Mechanical Engineering Departments of various Engineering Colleges in Tamilnadu enthusiastically attended the program. **Dr. M. Raj Mohan**, Associate Professor, Department of Department of Industrial Engineering, Anna University, delivered the lecture on “**INTRODUCTION TO METAHEURISTICS**” in session-I and “**METAHEURISTICS FOR COMBINATORIAL PROBLEMS**” in session-II. **Mr. K. Gokulnath M.E (Ph.D)**, Research scholar CEG, Anna University, delivered the lecture on “**ADVANCED OPTIMIZATION BY ARTIFICIAL NEURAL NETWORK**”

On the whole this Program has benefited the faculty members from various engineering colleges.



ADVISORY BUREAU FOR HIGHER STUDIES

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

The activities of ABHS are

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

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

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

S.No	Academic Year	No of students*
1	2015 - 2016	157**
2.	2014 - 2015	192
3.	2013 - 2014	187
4.	2012 - 2013	163
5.	2011 - 2012	131
6.	2010 - 2011	123
7.	2009 - 2010	118

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

** The admission process is still going on.

Apart from this many students are pursuing higher studies in India like NITs, IITs, IIMs, and IIPM. We are delighted to list out the 2010-2014 batch students of our department pursuing higher studies.

S.NO.	NAME	ABROAD/INDIA	UNIVERSITY NAME
1.	Shamit Dahake	Abroad	University Of Melbourne
2.	Aakash S	India	Anna University, CEG
3.	Adithya Ganesh S	Abroad	Texas A&M, College Station
4.	Balachandar B	India	National Power Training Institute, Nagpur
5.	Gaowthaman R K	India	KCT Business School
6.	Griffin T	India	KCG College Of Technology
7.	Hari Prasad T	India	Pondichery Engineering College
8.	Immanuel Ravikumar R	Abroad	North Eastern University
9.	Jayan Prathap K	India	MIT
10.	Krishna Balan S	Abroad	Binghamton University
11.	Mithun R	Abroad	University Of Windsor
12.	Nithin Abraham	Abroad	Oxford University
13.	Pavana Yogesh Rao	Abroad	Wayne State University
14.	Prithvirajan S	India	MIT
15.	Prathesh Prasad	Abroad	Boston University
16.	Vimal M	India	Loyola College
17.	Vignesh G	Abroad	Pennsylvania State University
18.	Wagner Sam Fredrick J	India	Christ University

CONQUISTA 2016

DISTRIBUTION OF 888 PLACEMENT ORDERS TO THE PLACED STUDENTS

CONQUISTA'16 – 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 9th, 2016 with grandeur.

The function was presided by the Senior Director - HR, from Cognizant Technology Solutions, and the General Manager - Competency & Operations Group, Wipro technologies who handed over the offer letters to the students in the presence of the Managing Director and Principals of St Joseph's group of Institutions. Human resources - Campus Hiring from Cognizant and Wipro were also present as 'special invitees'.

We are proud to inform that we have achieved a placement record of 1069 so far in this year. It is indeed a golden feather in the cap of St. Joseph's Group of Institutions.



COMMUNICATION SKILL ENHANCEMENT PROGRAM

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

attributes need to be addressed in addition to the development of technical skills. Some of the behavioural attributes are good communication skills, developing positive attitude towards work, and understanding of moral and ethical values.

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

PLACEMENT ORIENTATION PROGRAM AND OTHER ACTIVITIES

The Centre for Training and Placement has conducted Aptitude crash course for second year & third year students by Vista Mind. Placement orientation programme-I (POP I) was also conducted for third year students. 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.

Placement orientation program-II (POP II) was conducted for the final year students by Vista Mind and trained them on soft skills, quantitative aptitude skills etc., to prepare them for placement recruitments. Also POP III, a company specific training programme was conducted by SMART to crack Cognizant, Infosys Wipro test pattern.

The Centre for Training & Placement conducted Online aptitude assessment tests on every week for all the students through the skill rack portal. Apart from these the students have undergone mock tests in Cognizant, Wipro, Infosys and AMCAT test pattern before appearing for placements. Subsequent to the above training, Cognizant has conducted Evolve Program (Transition from College to Corporate) for the final years, which helped them to understand the expectations of the corporate world. Infosys conducted a session on “interview preparatory” & Wipro conducted a session on “employability”.

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

PLACEMENT DETAILS OF 2015-16 BATCH

We are glad to inform that 888 Students are selected through campus recruitment processes for the year 2015 - 16 with an annual salary package, starting from **Rs 2.4 Lakhs to 10.18 Lakhs** for UG & PG students.

No of Individual Offers : 1069

ST JOSEPH'S COLLEGE OF ENGINEERING : 888
ST JOSEPH'S INSTITUTE OF TECHNOLOGY : 181
DEPARTMENT WISE - INDIVIDUAL OFFERS

S. No	College	Dept	Total	Overall
1	St. Joseph's College of Engineering	CSE	89	888
2		IT	96	
3		ECE	140	
4		EEE	96	
5		EIE	86	
6		MECH	87	
7		ICE	24	
8		BIO TECH	48	
9		CHEMICAL	43	
10		MCA	18	
11		MBA	116	
12		ME - Applied Electronics	2	
13		ME - Power Systems	10	
14		ME - Power Electronics	3	
15		ME - Instrumentation	6	
16		ME - Computer Science	6	
17		ME - Software Engineering	6	
18		MTech - Bio Tech	10	
19		ME - Manufacturing	2	
21	St. Joseph's Institute of Technology	CSE	43	181
21		IT	39	
22		ECE	38	
23		EEE	33	
24		MECH	28	

COMPANY WISE - OFFERS

Company	Total	Company	Total
COGNIZANT	590	Wipro	7
WIPRO	399	99 acres	1
INFOSYS	287	Indusind Bank	16
Mu Sigma	8	Torry Harris	3
Kaar	1	Trade india	13
Soliton	3	First source	7
Verizon	5	EmbedUR	1
Volante	1	YES Bank	8
Thoughtworks	2	RBS	13
Wolters kluwers	14	Bnp Paribas	1
Zoho	19	Amex	2
Tech Mahindra	27	Flextronics	7
Mindtree	11	Thapovan	11
UST Global	8	Huawei	2
Scope International	2	VVDN	1
Polaris	3	HCL	5
FSS	1	Genpact	5
Astrazeneca	2	TVS & sons	9
Mphasis	1	MRF	3
BNY Mellon	10	CSS corp	4
Naukri	4	Scope Knowledge	29
Tychons	1	Steel stripes	3
CSS corp	2	HCL Infosystems	3
ICICI Securities	7		
			Total: 1562

PLACEMENT DETAILS OF MECHANICAL DEPARTMENT 2015-16 BATCH

ADITHESH M
SG.AJITHKUMAR
ANBARASU.M
R.ARAVIND
R.ARAVIND
ARVIND ANANTHAN
T.V.ARVINTH
K.ASIK MOHAMMED
M.BEBIN
R. BIBEYE JAHAZIEL
BRENDAN ANTONY RAJ
S . CHANDRA MOULEESWARAN
CYRIL MATHEW SAMUEL
M.DANIEL
S.DEEPANRAJ
S.DESMAN HAYNS
GIRINATH .S
GOKUL S
HARIHARAN P
JOE MATHEW
KESAVAN R
MANIKANDAN S
MANISH.F
MITHILESH KUMAR V.K
MOHAMMED ASLAM
NANDA KUMAR ANNAMALAI
NAVEEN KOVIL SAMPATH KUMAR
NELSON PRABHU ANANTHARAJ



PAUL DINESH AUGUSTINE
PERUMAL RAJ MANICKA RAJ
POONGUNDRAN BOOPATHI
PRAVEEN RAJENDIRAN
PRAVEEN SETHURAJ
RAGUL GANESAN
RAJESH KANNAN MURUGESAN
RAVEEN RIJOH JOHNSON
SABARISH RAJKUMAR JEYAKUMAR
SAI GANESH S
SANKAR GANESH N
SERGIIOUS PANEL J
SHERINGTON JORANS R
SURESH P
TAMILARASAN N
TARUN RAVI
VAITHIYANATHAN P
VENKATESAN.J
VIGNESH N
VIGNESH P D
VIGNESHWARAN K
VIJAY R
VINCENT RAJ M
VINOTH M
YUVARAJ P
HARI KRISHNAN P
SIVAGNANAM S



R.ARAVIND
SABARISH RAJKUMAR JEYAKUMAR
SANKAR GANESH N
VIGNESH N
S.CLEMENT
KARTHIK R
KARTHIKEYAN S
MANISARAN M
MOHAMMED HUSSAIN SUHAIL
MOHAN KUMAR DHANASEKARAN
SHARAN S
SYED SULTAN ASLAM M
TAMILARASAN S



PRAVEEN RAJENDIRAN
RAGUL GANESAN
SAI GANESH S
SHERINGTON JORANS R
SURESH P
VAITHIYANATHAN P
VENKATESAN.J
YUVARAJ P
M.DIWAHAR
JASSIM NIHMATHULLAH
JOHN SAMUEL S
KARTHICK
KARTHIKEYAN R
RAMKUMAR RAMALINGAM
SARATH S M
SURESH K
VIGNESH S



SABARISH RAJKUMAR JEYAKUMAR
SANKAR GANESH N
VIGNESH N
KARTHIK R
KARTHIKEYAN S
MOHAMMED HUSSAIN SUHAIL
SHARAN S
ARVIND ANANTHAN
M.BEBIN
S.DESMAN HAYNS
GIRINATH .S
JOE MATHEW
MANIKANDAN S
MANISH.F
NAVEEN KOVIL SAMPATH KUMAR
NELSON PRABHU ANANTHARAJ
PAUL DINESH AUGUSTINE
POONGUNDRAN BOOPATHI



S.BHARATHKUMAR
J.JEROLTRIN RAJ
JULIAN NIKHIL D'SOUZA
RAVISHANKAR ASAITHAMBI
RITHI.V.NIKSHITH



NAVEEN RAJ S



VIGNESH N
S.DESMAN HAYNS
KARTHIKEYAN R



KARTHIK R



MUTHUMANI RAMRAJ



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** with a cash prize of **Rs.50, 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.

UG I YEAR (MECH)

1	ABDUR RAHMAN M S	9.4
2	NAREN V	9.4
3	PRAMOTH.T.S	9.3
4	RAJESH GURU G	9.2
5	AJEETH V	9.1
6	ARUN S R	9.1
7	SURENDAR P	9
8	THIRUMANIRAJ R R	9
9	DAYANITHY DHANPAL G V	8.9
10	GOKUL BALAJI T	8.9
11	HARIHARAN D	8.9
12	JOY CINTHIA D	8.9
13	MANIKANDAN S	8.9
14	PRADEEP KUMAR S	8.9
15	SARATH KUMAR P	8.9
16	VIGNESH S A	8.9
17	RAHUL KANNA A	8.7
18	ROBERT J	8.7
19	SATHISHKUMAR V	8.7
20	YOGESH S	8.7

21	FRANCIS HENSLER MORAIS F	8.6
22	PRADEEP B	8.6
23	SURYANARAYANAN M A	8.6
24	ABISHEK B	8.5
25	DAYANANDA BARANI R	8.5
26	JAISON JOSE	8.5
27	NIVETHA M S	8.5
28	PRABAKARAN S	8.5
29	RICKY SACHIN V	8.5
30	SANATH VISWANATHAN S	8.5
31	SREENATH S A	8.5
32	YASHWANTH KUMAR PU	8.5
33	HARIPRASATH P	8.4
34	PRAKASH T	8.4
35	SIVASAKTHI P	8.4
36	SUBASH M	8.4
37	THANAPPAN K	8.4
38	DHINESH R	8.3
39	NIZAMDEEN IJAZ AHAMED	8.3

II YEAR (MECH)

Sl. No.	Name of the Student	CGPA
1	GOWTHAM N	9.2
2	SARAVANA KUMAR E	9.2
3	VENKATESH P	9.14
4	HARIHARAN T	9.1
5	SORUBAN RAJ B	9
6	YOGESH K V	8.97
7	YUVARAJ R	8.88
8	VIJAYARAJ R	8.83
9	WASSEM AHAMED A	8.81
10	ASHWIN KUMAR S	8.8
11	ASHWIN G	8.8
12	SRIGANESH KUMAR R	8.77
13	RAJARAM M	8.7
14	HARIHARAN K	8.7
15	KAMESWARAN S	8.7
16	HARISH V	8.7

17	VAIDYANATHAN T	8.66
18	VIGNESH B	8.61
19	NAVEEN CHAKRAVARTHI P	8.6
20	ATHISH G	8.6
21	JAYAKANTHAN D L	8.6
22	DHIYANESHWARAN S	8.6
23	YOGESHWARAN PRABHU M	8.53
24	VISHAL KUMAR YADAV	8.52
25	DWARAK NATH P L	8.5
26	KRISHNAN K	8.5
27	ELANGO VAN M	8.5
28.	HARISH B	8.4
29.	NAVEEN KUMAR M	8.4
30.	PRADEEP S	8.3
31.	VIGNESH K	8.39
32.	DHAYANAND D	8.3
33.	DINESHKUMAR K	8.3
34.	ARAVIND RAJ R	8.3

III YEAR(MECH)

Sl. No.	Name of the Student	CGPA
1.	SANKARANARAYANAN V	8.9
2.	GOPINATH R	8.8
3.	KEERTHANA C J	8.6
4.	HEMANTH KUMAR R	8.6
5.	VINOTH S	8.6
6.	VIJAY KUMAR N	8.6
7.	ARUN KUMAR A	8.6

8.	DHILIP KUMAR P	8.5
9.	MUTHUJAYANTH R	8.5
10.	RAM SURATH KUMAR M	8.5
11.	BRIAN KENNEDY JOHN KENNEDY	8.5
12.	IMMANUEL P	8.5
13.	JERINA A	8.5
14.	NAVEEN P	8.5
15.	ARUN MOZHI THEVAN S	8.5
16.	SEDHU MADHAVAN S	8.5
17.	VIJAY PRIYANKAN S	8.4
18.	PREETHIVIRAJ S	8.4

IV YEAR(MECH)

Sl. No.	Name of the Student	CGPA
1	VENKATESHWARAN P	9.09
2	VINOTH M	9.06
3	SHERINGTON JORANS R	9.04
4	YUVARAJ P	8.97
5	VIGNESH S	8.95
6	SURESH P	8.93
7	TAMILARASAN S	8.93
8	RAGUL G	8.91
9	KARTHIK R	8.83
10	MOHAMMED HUSSAIN S	8.83
11	KARTHIKEYAN S	8.77
12	KARTHIKEYAN R	8.64
13	HARIHARAN P	8.6

14	BEBIN M	8.55
15	CHANDRA MOULEESWARAN S	8.54
16	MANISH F	8.53
17	VAITHIYANATHAN P	8.52
18	SANKAR GANESH N	8.48
19	GIRINATH S	8.43
20	ARAVIND R	8.41
21	PRAVEEN R	8.38
22	CYRIL MATHEW SAMUEL	8.37
23	SABARISH KUMAR J U	8.37
24	ARAVIND R	8.34
25	VIGNESH M K	8.33
26	POONGUNDRAN B	8.31

P.G. I YEAR (MANUFACTURING ENGINEERING)**P.G. I YEAR**

Sl.No	Name of the Student	GPA
1.	K.GNANASEKARAN	8.27
2.	D.SANTHOSH	8.22
3.	N.L. EDWARD ARUL JOE	8.11
4.	S. NISTONE	7.85
5.	J.JEFFRIN SINGH	7.71
6.	V.NAGARAJAN	7.34

P.G. II YEAR

Sl. No.	Name of the Student	CGPA
1.	LAVANYA V	8.5
2.	NATESH N S	8.4
3.	MURALI D	8.3
4.	JOEL D	8.3
5.	SIVAGNANAM S	8.3
6.	PRABU R	8.2
7.	SAGAR M S	8.1
8.	PREMSURYAKANTH P U	7.9

9.	HARI KRISHNAN P	7.8
10.	VEERASABARI K	7.8
11.	ARUL GANESH S	7.6
12.	ANTWIN KOSHY A P	7.5
13.	MUKILVANAN B	7.5
14.	ABENESH C	7.5
15.	SIVASANKAR P	7.4

U.G. I YEAR (CIVIL)

S.NO.	STUDENT NAME	GPA
1	VIDHYA K	9.35
2	SATHYALAKSHMI G	9.15
3	SHARMILA B	9.08
4	BALAJI H	9.08
5	MADHUMATHI T	8.88
6	SOORYA B	8.81
7	PRIYANKA K	8.77
8	SOWNDARYA G	8.73
9	KISHORE KUMAR N S	8.58
10	HARE VIGNESH P J	8.38
11	SHARON BERCY J	8.31

U.G. II YEAR (CIVIL)

Sl. No.	Name of the Student	CGPA
1	BALAJI H	8.9
2	SHARMILA B	8.7
3	SATHYA LAKSHMI G	8.6
4	VIDHYA K	8.6
5	MADHUMATHI T	8.4
6	KISHORE KUMAR N S	8.3
7	SOWNDARAYA G	8.3
8	SOORYA B	8.2
9	PRIYANKA K	8.1

DEPARTMENT NGO ACTIVITIES

It is pathetic that there are numerous orphanages and old age homes in our society. Our Managing Director and Director yearn for extending a supporting hand to these needy persons. Also, they wanted to invoke the service tendency of our students by encouraging visits to orphanages, old age homes and homes for children with Cerebral Palsy.

NGO activities bring out the hidden potentials of young minds to serve the needy and to make them responsible citizens. They are exposed to the downtrodden lifestyle of our brethren. Changing this scenario is the 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 residents. All the students, from first year to final year enthusiastically participated and mingled with these residents and spent an entire day with them and shared their happiness. They also contributed by offering the basic essentials like rice bags, groceries, toys, clothes, pillows etc. for these residents.

The following are the visits arranged by the Department of Mechanical Engineering during this academic year:

Sl. No.	Year/ Section	Place	Type of Institution	Date
1.	I -A	Sirumalargal Home, Chengalpattu.	Orphanage	08.08.15
2.	I -B	Thambiillam, umannacherry	Orphanage	08.08.15
3.	I -C	Peace garden, kumizhi village.	Orphanage	12.09.15
4.	I-B	Faith home, porur, Near police station.	Orphanage	12.03.16
5.	I-C	Open door orphanage. Newton post, manali.	Orphanage	12.03.16
6.	I -A	Tiruvalluvargurukulam. Little Kanchipuram	Orphanage	19.03.16
7.	I -M.E	New Life charitable trust, Eraiyur Village, Mathur	Orphanage	19.03.16
8.	II A	Little hearts , No 17 velunayakam street, panayur, Chennai 119	Orphanage	22.08.15
9.	II B	Anbagam, Manavalarchi kundriyor sirappu palli., Kayar road , kolathur po, via vandalur Chennai 127	Orphanage	22.08.15
10.	II C	Maria's home , 5/8B seven wells street , parthasarathy lane, butt road, st. Thomas mount, Chennai 16	Orphanage	22.08.15

11.	II A	Peace garden, No 19 Kumuli salai, Kannivakkam road, Kumuli 603202	Orphanage	27.02.16
12.	II B	Saranalaya children home, porur kundrathur road, kovur	Orphanage	27.02.16
13.	II C	New hope and New Life trust, 3/218 gangai amman koil street, Perumbakkam, Chennai 600100	Orphanage	13.02.16
14.	II D	Peace garden, No 19 Kumuli salai, Kannivakkam road, Kumuli 603202	Orphanage	13.02.16
15.	II CIVIL	St. Thomas care home, ABAN Nagar, Keevalur road, Thandalam.	Orphanage	27.02.16
16.	III A	Sirumalargal orphanage, Ganapathy nagar villiampakkam, chengalpattu, Pincode 603001	Orphanage	25.07.15
17.	III B	Thambi illam trust, 174, indira Gandhi street, oonamancherri, kolapakkam, Chennai 127	Orphanage	25.07.15
18.	III C	Solomon children home, 13/78, 4 th cross street Anbunagar, Aalwar thirunagar Pincode 600087	Orphanage	05.09.15
19.	III D	Adwin orphanage, No 42 velachery main road, velachery Pincode 600042	Orphanage	05.09.15
20.	III A	Maria's home, 5/8B seven wells street, parthasarathy lane, butt road, st. Thomas mount, Chennai 16	Orphanage	20.02.16
21.	III B	Tansowa atharavu illam, 219, PTC colony, Pallavan nagar, 1st main road maduravayol Chennai 95	Orphanage	20.02.16
22.	III C	Hope for future children home, 58, old TKM road, Poonjeri, Mamallapuram, Pincode-600097	Orphanage	06.02.16
23.	III D	St. Thomas care home, ABAN Nagar, Keevalur road, Thandalam.	Orphanage	06.02.16
24.	IV A	Karunai illam, No 2 Maruthi nagar 1st street Madambakkam, Chennai 126	Orphanage	04.07.15
25.	IV B	Solomon children home, 13/78, 4 th cross street Anbunagar, Aalwar thirunagar, Pincode 600087	Orphanage	04.07.15
26.	IV C	Hope for future children home, 58, old TKM road, Poonjeri, Mamallapuram, Pincode-600097	Orphanage	04.07.15

The following are the visits arranged by the Department of Civil Engineering during this academic year:

Sl. No.	Year/ Section	Place	Type of Institution	Date
1.	I	Grace children home, Chengalpet	Orphanage	08.08.15
2.	I	Sirumalargal home, Athur, Chengalpet	Orphanage	19.03.16
3.	II	St. Thomas care home ABAN Nagar, Keevalur road, Thandalam.	Orphanage	27.02.16

STUDENT ACTIVITIES

CURRICULAR ACTIVITIES

To bring out the inherent talent and to overcome the inhibitions of our students, our department encourages students to participate in the technical meets organized by other institutions by presenting papers, participating in technical quiz and other competitions.

MECHANICAL:

Sl. No.	Name of the Student	Year	Name of the Event	Organizer	Place Won
1	Abhishek B	II/A	Sumo Robo	Misrimal Navajee Munoth Jain Engineering College	III
	Ajay Krishna M				
	Ajay Patrick S				
2	Ashwin Balaji G	II/A	Mr. Machinist	S A Engineering College	II
3	Bala Murali S	II/A	Battle Junkyard	Velammal Engineering College	III
	Balamurugan R				
	Dhiyaneshwaran S				
4	Akshay Menon V	II/A	Mind Drill	Velammal Engineering College	III
	Deepak Sai Raja K M				
5	Ajay Krishna M	II/A	Gaming - Counter Strike	Misrimal Navajee Munoth Jain Engineering College	II
6	Athish G	II/A	Connections	Meenakshi Sundararajan Engineering College	III
	Dhiyaneshwaran S				
7	Ashwin Balaji G	II/A	Quiz	Meenakshi Sundararajan Engineering College	I
8	Ashwin Balaji G	II/A	Web Crawler	Meenakshi Sundararajan Engineering College	II
9	Ajay Krishna M	II/A	Gaming – C.S 1.6	SSN College of Engineering	I
10	Ajay Krishna M	II/A	Line Follower Bot	SSN College of Engineering	II
11	Ajay Patrick S	II/A	Counter Strike	M I T, Anna University	I
12	Abhishek B	II/A	Counter Strike	M I T, Anna University	II
13	Abhishek B	II/A	IPL Auctions	M I T, Anna University	III
	Ajay Patrick S				
	Ashwin Ram R				
14	Gowtham Kumar S	II/B	Paper Presentation	KCG College of Technology	I
15	Vignesh N	II/D	Technical Connexions	KCG College of Technology	III
	Vijayaraj R				
	Yuvaraj R				
16	Vignesh K	II/D	Minute to Win It	Meenakshi Sundararajan Engineering College	III
17	Vijayaraj R	II/D	Paper Presentation	Meenakshi Sundararajan Engineering College	III
	Yuvaraj R				
18	Vignesh Raj V	II/D	Paper Presentation	Meenakshi Sundararajan Engineering College	II
	Yuvaraj R				

19	Sriram R	II/D	AutoQuiz	Government college of Technology	III
	Venkatesh Kumar R				
20	Venkatesh P	II/D	Draft zone	Alpha College of Engineering	I
21	Athish G	II/A	Junk Yard Wars	KCG College of Technology	II
	Deepak Sai Raja K M				
	Dhiyaneshwaran				
	Emmanuel Devakumar	II/B			
22	Ajay Krishna M	II/A	Call of Duty Gaming	Sri Venkateswara College of Engineering	II
	Anirudh J				
	Prince N	II/C			
23	Aravind G	III/A	R C Racing	Sri Sai Ram Engineering College	1
	Aravindhan A				
24	Devasagayam L	III/A	Auto Quiz	KCG College of Technology	1
	Dheepan Brunner M				
25	Anton Bosco V	III/A	Auto Quiz	KCG College of Technology	II
	Aravind Amuthuraj J				
	David Anand Daniel				
26	Abhilash Dev	III/A	Gaming – FIFA 15	Meenakshi Sundararajan Engineering College	II
27	Aravind G	III/A	R C Racing	Meenakshi Sundararajan Engineering College	I
	Aravindhan A				
	Arunmozhithevan				
28	Abhilesh D	III/A	Indoor GP	SSN College of Engineering	I
	Arunmozhithevan S				
	Aravind G				
29	Bharath Steven P	III/A	Robo Rally	RMK Engineering College	II
30	Bharath Steven P	III/A	Robo Roadador	RMK Engineering College	II
31	Dhanveer C S	III/A	RC Assault	Sri Venkateswara College of Engineering	I
32	Arunmozhithevan S	III/A	Robowar	MIT, Anna University	II
	Bharath Steven P				
33	Aravind G	III/A	Rumble Race	CEG, Anna University	I
	Arunmozhithevan				
34	Haarish Rahul C	III/B	Mr. Manufacturer	Dhanalakshmi College of Engineering	I
35	Gopinath R	III/B	Gaming	Dhanalakshmi College of Engineering	I
36	Karthik K	III/B	Gaming	Dhanalakshmi College of Engineering	II
37	Dhivakar M	III/B	Technical Quiz	Sri Sai Ram Engineering College	II
	Goutham C				

38	Elangovan S	III/B	ADZAP	DMI College of Engineering	I
39	Gowtham Reddy M	III/B	KI wallet (Audience)	College of Engineering Guindy, Anna University	I
40	Mohamed Fasarath J	III/C	Water Missile	KCG College of Technology	I
41	Naveen P	III/C	CAD Modelling	KCG College of Technology	I
42	Richie Allen Vaz T J	III/C	Just A Minute	Dhanalakshmi College of Engineering	I
	Samuel Praveen Kumar V				
43	Naveen P	III/C	Brainiac	Sri Venkateswara College of Engineering	I
	Praveen C				
44	Naveen P	III/C	Papyrus Proposal	Sri Venkateswara College of Engineering	II
	Praveen C				
45	Tanuj R	III/D	NOS Racing	Velammal Engineering College	II
	Thejas Paul				
	Vel Pranav T				
46	San Shelton P	III/D	RC Assault	Sri Venkateswara College of Engineering	II
	Tanuj R				
	Thejas Paul				
	Varun K				
47	San Shelton	III/D	Mini Turbo	MIT, Anna University	I
	Tanuj R				
	Thejas Paul				
48	Tamilmani N	III/D	Just A Minute	Sri Venkateswara College of Engineering	I
49	Sriram M	III/D	Whatsapp Hunt	Sri Venkateswara College of Engineering	I
	Shanely Alwin				
50	Vigneshwar R	III/D	Game of Nerds	Sri Venkateswara College of Engineering	I
	Sundaram S				
51	Vigneshwar B	III/D	Take a Minute	Meenakshi Sundararajan Engineering College	I
52	Sathish Kumar M	III/D	Treasure Hunt	Meenakshi Sundararajan Engineering College	II
	Suresh M				
53	Sudharsun E	III/D	Design Contest	S S N College of Engineering	I
	Vijay Priyankan S				
54	Siva Natarajan S R	III/D	Technical Quiz	S S N College of Engineering	III
	Vinoth S				
55	Srinivasa Raghavan S	III/D	Technical Quiz	S S N College of Engineering	I
	Yeshwanth K P				
56	Sudharsun E	III/D	Chem Connections	Anna University	I
	Shanely Alwin				
57	Sundaram S	III/D	Chem Connections	Anna University	III
	Sathish Kumar M				
58	Vigneshwar B	III/D	Eureka	Anna University	II
	Srinivasa Raghavan				

	S				
	Tamilmani N				
59	Sriram M	III/D	Green-Ovate	Anna University	III
60	Steve Clinton	III/D	Minutes of Disaster	Anna University	III
61	Aravind G	III/A	R C Car	Misrimal Navajee Munoth Jain Engineering College	I
	Dhivakar M	III/B			
	Goutham C				
62	Arun kumar A	III/A	Junk Yard Wars	KCG College of Technology	I
	Krishna Kumar R	III/B			
	Dhivakar M				
	Immanuel P				
63	Aravind G	III/A	Cyborg Combat	SSN College of Engineering	I
	Bharath Steven P	III/B			
	Dhivakar M				
64	Aravind G	III/A	Flashback	SRM University	II
	Arunmozhithevan S	III/B			
	Dhivakar M				
65	Aravind G	III/A	Robosoccer	MIT, Anna University	II
	Dhivakar M	III/B			
66	Arunmozhithevan S	III/A	Allterrain	MIT, Anna University	II
	Bharath Steven P	III/B			
	Dhivakar M				
67	Aravind G	III/A	Roborace	MIT, Anna University	III
	Arunmozhithevan S				
	Bharath Steven P				
	Dhivakar M	III/B			
68	Aravind G	III/A	Robowar	MIT, Anna University	I
	Dhivakar M	III/B			
69	Arunmozhithevan S	III/A	Robosumo	Sastra University	II
	Ajay Antony I				
	Aravindhan A				
	Dhivakar M	III/B			
70	David Anand Daniel	III/A	Treasure Hunt	Sri Krishna Engineering College, Coimbatore	I
	Joseph Rijul Raj A	III/B			
71	Bharath Steven P	III/A	Robowar	B S Abdur Rahman University	II
	Dhivakar M	III/B			
72	Bharath Steven P	III/A	Roborace	B S Abdur Rahman University	II
	Dhilip Kumar P	III/B			
	Dhivakar M				
	Koteswaran				
73	Abhinash R	III/A	Dum-C	B S Abdur Rahman University	I
	Abhinav R				
	Immanuel Roy	III/B			

74	Aravind G	III/A	RC Cars	KCG College of Technology	I
	Praveen C	III/C			
	Tanuj R	III/D			
75	Dhanveer C S	III/A	Mini Turbo	MIT, Anna University	I
	San Shelton P	III/D			
	Tanuj R				
	Thejas Paul				
76	Dhanveer C S	III/A	RC Nitro	Jeppiaar Institute Of Technology	II
	Tanuj R	III/D			
77	Immanuel P	III/B	Water Missile	KCG College of Technology	III
	Praveen R	IV/C			
78	Pradheep Raaj S	III/C	RC Cars Race	KCG College of Technology	I
	Puviyarasan G				
	Tanuj R	III/D			
79	Rahul Ganesh S	III/C	Chem Connections	Anna University	II
	Siva Natarajan S R	III/D			
80	Arvind Ananthan	IV/A	Paper Presentation	Prince Dr. K. Vasudevan College of Engineering & Technology	I
	Cyril Mathew				
81	Arvind Ananthan	IV/A	Technical Quiz	Prince Dr. K. Vasudevan College of Engineering & Technology	II
	Cyril Mathew				
82	Julian D' Souza	IV/B	BIZZ WIZZ	Loyola - ICAM College of Engineering and Technology	I
83	Guhan P	IV/B	R C Car	Misrimal Navajee Munoth Jain Engineering College	III
84	Praveen S	IV/C	MECH TRAIL	Loyola - ICAM College of Engineering and Technology	I
85	Muthumani R	IV/C	Machining	Misrimal Navajee Munoth Jain Engineering College	II
86	Mohammed Hussain S	IV/C	Pentathlon	Misrimal Navajee Munoth Jain Engineering College	III
	Mohan Kumar D				
87	Poongundran B	IV/C	Technical connexions	KCG College of Technology	I
	Praveen R				
	Ragul G				
88	Saran G V	IV/D	Just A Minute	KCG College of Technology	II
	Tarun Ravi				
89	Suhael Abishath R	IV/D	Mech Questo	KCG College of Technology	I
	Vivekanand V				
90	Saran G V	IV/D	Mech Questo	KCG College of Technology	II
	Tarun Ravi				
91	Vivekanand V	IV/D	Connexions	KCG College of Technology	II

92	Vincent Raj M	IV/D	Technical Quiz	GRT Institute of Engineering and Technology	I
93	Vincent Raj M	IV/D	Project Presentation		I
94	Ragul G	IV/C	Sumo Robo	Misrimal Navajee Munoth Jain Engineering College	II

CIVIL:

Sl. No.	Name of the Student	Year	Name of the Event	Organizer	Place Won
1.	Sathya lakshmi G	II	Archi Buildo	College of Engineering, Guindy	III
2.	Balaji H				
3.	Arjun Nath N.S				
4.	Harini. S	II	Poster Presentation	T.J.S Engineering College	II
5.	Prashanthi. R				
6.	Divya.S				
7.	Guna.R	II	Minute To Win	Meenakshi Sundararajan Engineering College	I
8.	Revanth Kanna V	II	Gaming	SSN College of Engineering	II
9.	Venkata Kiran Kanth.V.S				
10.	Raghuram Kumar.M				
11.	Richie Mathew	II	Gaming	Velammal Engineering College	III
12.	Sathya lakshmi G	II	Archi Buildo	College of Engineering, Guindy	III
13.	Balaji H				
14.	Arjun Nath N.S				
15.	Harini. S	II	Poster Presentation	T.J.S Engineering College	II
16.	Prashanthi. R				
17.	Divya.S				
18.	Guna.R	II	Minute To Win	Meenakshi Sundararajan Engineering College	I
19.	Revanth Kanna V	II	Gaming	SSN College of Engineering	II
20.	Venkata Kiran Kanth.V.S				
21.	Raghuram Kumar.M				
22.	Richie Mathew	II	Gaming	Velammal Engineering College	III

CO – CURRICULAR ACTIVITIES

THE INDIAN NATIONAL ACADEMY OF ENGINEERING (INAE) AWARD

The Indian National Academy of Engineering (INAE), New Delhi has constituted the best project award for the final years students. After preliminary scrutiny of the projects submitted nationwide, 16 projects were selected for the final presentation. Out of these 16 projects St Joseph's is proud to win 3 projects. In that the selected **mechanical project** is shown below.

“Design and Development of 3D Printer” done by G. Vignesh ,and S. Akash of the Mechanical Engineering Department under the guidance of **Mr. L. Balamurugan**. This Project also **received NIT Kozhikode National Award for the Best B.Tech. Project by ISTE**.



GUEST LECTURES:

To give an exposure in the latest and new technologies to our students, **Prof. K. M. B. Karthikeyan** and **Prof. T. Balasubramanian**, the Guest Lecture in-charges put an extra effort to identify the right delegates who would impart their knowledge to the students. This year the following lectures were arranged.

MECHANICAL:

Sl. No.	Title of the Lecture	Date	Guest	Year
1.	Automotive Industry-Innovation and History of Indian Inventiveness	27/02/16	Mr.S.Sudarsanam DGM-Head Build and Validation Farm Division, M&M	II A, B, C, D
2.	FEA Theory and Application using ANSYS Mechanical Package	09/02/16	Mr.Karthik Sundarraj, Technical Manager	III A, B, C, D
3.	Computational Modeling (CFD and FEA) using LISA and OCTAVE	26/02/16	Mr. Sathyak Udvavisk Technologies	III A,B,C,D & I ME (Mfg)
4.	Mechanical Simulation using OCTAVE	26/02/16	Mr. P. Suryanarayanan Ed-ExEngine	III A,B,C,D & I ME (Mfg)
5.	DRDO and its products, research activities and career opportunities existing in DRDO, India	24/02/16	DRDO -Presentation	II and III Year A, B, C & D

CIVIL:

Sl. No.	Title of the Lecture	Date	Guest	Year
1.	Shear & Bending in beams	08/07/15	Dr. Daniel Thangaraj, Prof & Head University College of Engineering & Technology (Dindivanam)	II
2.	Design of Marine Structures	26/02/16	"Mrs. D. Sudha, Marine structural Engineer" Build and Validation Farm Division, M&M	II

INDUSTRIAL VISITS:

Our department has arranged many industrial visits to give a professional edge to the students and to get practical knowledge. Students were taken to industries and allowed to explore and experience the life of industries. **Prof. T. Balasubramanian** and **Prof. K. M. B. Karthikeyan**, the Industrial visit in-charges who are maintaining good relationship with industries have arranged the following visits.

MECHANICAL:

Sl. No.	Year	Place of visit	Date
1	III A	Madras Atomic Power	14-Aug-15
2	III B	MARKS Air	14-Aug-15
3	III C	SVP Lasers	11-Aug-15
4	III D	SVP Lasers	12-Aug-15
5	II A,B,C & D	Jeppiaar Steels and	06-Sep-15
6	III B	NLC Limited Neyveli	11-Feb-16
7	III D	NLC Limited Neyveli	11-Feb-16
8	IIA	Ennore Thermal	23-Feb-16
9	IIB	North Chennai	22-Feb-16
10	IIC	IGP, Thiruporur	24-Feb-16
11	III, IV ISHRAE Chapter	Danfoss Industries	11-Feb-16

CIVIL:

Sl. No.	Year	Place of visit	Date
1	II	GVR Infra projects Ltd.	14-Aug-15
2	II	Jeppiaar Furnace and steels Pvt. Ltd	14-Aug-15

CULTURAL ACTIVITIES

S.No	Name of the Student	Year	Name of the Event	Organizer	Place Won
1	Daniel.M	IV	Group Dance	Jeppiaar Engineering College, Chennai	II
2	Praveen.S	IV			
3	Brendan Antony Raj	IV			
4	Karthick Raj	III			
5	Selvarajan	I CIVIL			

CHAPTER ACTIVITIES

SAE STUDENTS CHAPTER

SUPRA, is a motorsport event conducted by the Society of Automotive Engineers (SAE), India, which allows students from all over India, to design, simulate, and model a Formula III racing car and compete with it, thereby bringing out their potential in the field of engineering. Students from Mechanical department of St. Joseph's College of Engineering ventured into the event in the year 2015, in the name of 'The Josephite Racing'. The team comprising of 25 highly talented students made a Formula III Racing car (JR-1) and marked their footprint in the competition. The team cleared the Virtual Design Validation round competing with the cream of talents across the nation from institutions including IITs, NITs and was placed at 51st position among 170 teams nationally and at 13th position in south India zone. After clearing the Virtual round, the team went through a rigorous phase of manufacturing the car, almost from scratch, for 6 months. Through their perseverance and diligence, they finally built the JR-1, a formula III racing car. JR-1 was able to clear the technical inspection round of the main event, and, unfortunately missed the dynamic event of the competition due to time lag. Still, JR-1 was placed in the 30th rank in the National Level. JR-1 has now become a prestigious memory to both our Mechanical department and our college.



ISHRAE STUDENTS CHAPTER

- ISHRAE Student Chapter, Chennai, has arranged an **industrial visit** to **Danfoss Industries Pvt. Ltd.** on 11.02.2016 to give a professional edge to the students and to get practical knowledge. 49 students were taken to industry and allowed to explore and experience the life of industry.
- ISHRAE Student Chapter, Chennai, has arranged an **guest lecture** by **Mr. Pradeep Samuel** on the topic **Recent Trends in Air conditioning** on 31.08.2015 to give an exposure in the latest and new technologies to our students. The lecture was so interesting and inspired our students, they had an over all view about recent trends in Air conditioning. The students were so interactive with the guest.

STUDENTS COMPETITIVE EXAM RESULTS

A competitive examination is an examination where candidates are ranked according to their grades. Their results are used as entrance examination for post graduate in various Indian and foreign universities.

S.NO.	NAME	NAME OF THE EXAMINATION	ABROAD/ INDIA	MARKS / GRADE
1.	Shamit Dahake	TOEFL	Abroad	75/ out of 120
2.	Aakash S	GATE	India	41.67/ out of 100
3.	Adithya Ganesh S	GRE	Abroad	108/ out of 300
4.	Balachandar B	GATE	India	35/ out of 100
5.	Gaowthaman R K	GATE	India	34.67/ out of 100
6.	Griffin T	GATE	India	37/ out of 100
7.	Hari Prasad T	GATE	India	35/ out of 100
8.	Immanuel Ravikumar R	TOEFL	Abroad	95/ out of 120
9.	Jayan Prathap K	GATE	India	20.67/ out of 100
10.	Krishna Balan S	TOEFL	Abroad	97/ out of 120
11.	Mithun R	GRE	Abroad	175/ out of 300
12.	Nithin Abraham	TOEFL	Abroad	85/ out of 120
13.	Pavana Yogesh Rao	GRE	Abroad	180/ out of 300
14.	Prithivirajan S	GATE	India	38/ out of 100
15.	Prathesh Prasad	TOEFL	Abroad	92/ out of 120
16.	Vimal M	GATE	India	37/ out of 100
17.	Vignesh G	TOEFL	Abroad	94/ out of 120
18.	Wagner Sam Fredrick J	GATE	India	37/ out of 100

BEC TRAINING

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

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

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

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

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

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

Cambridge English: Business Higher, also known as Business English Certificate (BEC) Higher, is the third of the three certificates. It is a high level exam. They will help you to achieve your ambitions to:

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

They show that you can use English confidently in international business environments. The results of BEC are PRELIMINARY:212, VINTAGE:190.

INTRA DEPARTMENT SYMPOSIUM

Our management is showing keen interest to explore the talents of our students through many activities. Intradepartmental students' symposium is one such activity which reveals the technical knowledge of the students. The symposium was organized by **Students Co-ordination committee**, which was held on 22.07.2015. Various events were conducted and students of II and III year Mechanical engineering participated with great enthusiasm. The winners were awarded with a total cash prize of **Rs. 10,000/-**

MECHANICAL:

- 1. Event : AutoMart**
No. of Teams Participated : 27

Sl. No.	Place	Name	Year
1	I	Sankaranayanan V	III / D
		Joel Franics	III / D
		Sedhumadhavan s	III / D
2	II	Vaidyanathan T	II / D
		Votton John	II / D
		Vinesh B	II / D
3	III	Ramkumar R	IV / C
		Rithi V Nikshith	IV / C
		Vincent Raj M	IV / D

- 2. Event : Beat the Clock**
No. of Teams Participated : 43

Sl. No.	Place	Name	Year
1	I	Cyril Mathew Samuel	IV / A
2	II	Julian Nikil D' Souza	IV / B
3	III	Sorubaraj B	II / D

3. Event : Mr. Designerz

No. of Teams Participated : 31

Sl. No.	Place	Name	Year
1	I	Yuvaraj P	IV / D
		Suresh K	IV / D
2	II	Arul B	IV / A
		Dinakaran R	IV / A
3	III	Kameshwaran S	II / B
		Hariharan T	II / B

4. Event : Machinist

No. of Teams Participated : 15

Sl. No.	Place	Name	Year
1	I	Jayaseelan A	III / A
2	II	Venkatesh P	II / D
3	III	Immanuel P	III / B

5. Event : MechConnex

No. of Teams Participated : 36

Sl. No.	Place	Name	Year
1	I	Nishanth J	III / C
		Sankaranarayanan V	III / D
2	II	Saral Kumar R	III / D
		Barath K K	IV / A
		Rechie Allen Vaz T J	III / C
3	III	Samuel Praveen Kumar	III / C
		Harivasanth P	III / B

CIVIL:**1. Event : QUIZ****No. of Teams Participated : 6**

S. No.	Place	Name	Year
1	I	Aswin T.C	II
		Hare Vignesh P.J	II
		Devendran G	II

2. Event : POSTER PRESENTATION**No. of Teams Participated : 5**

S.No.	Place	Name	Year
1	I	Hare Vignesh P.J	II
		Praveen R	II
		Richie Mathew	II
		Rahul D	II
2	II	Sharmila B	II
		Harini S	II
		Divya S	II
		Divya P	II
3	III	Priyanka K	II
		Madhumathi T	II
		Sharon Bercy J	II
		Sathya Lakshmi G	II

3.Event : MODEL MAKING**No. of Teams Participated : 5**

Sl. No.	Place	Name	Year
1	III	Swethan E	II
		Venkata Kiran Kanth V S	II
		Sam Marshall S	II
		Rajapandivel V	II

4. Event : Pictionary

No. of Teams Participated : 5

Sl. No.	Place	Name	Year
1	I	Lakshmanan B	II
		Hariprassath ILA	II
		Nirish Parthana A C B	II
		Kishore Kumar N S	II

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 MECHANICAL and CIVIL are grouped together and named as CRANE.

SL NO.	GAME	II YEAR MECH/CIVIL	III YEAR MECH	IV YEAR MECH
1.	BASKET BALL	WINNER	-	WINNER
2.	VOLLEY BALL	WINNER	-	WINNER
3.	BALL BADMINTON	WINNER	-	WINNER
4.	HAND BALL	WINNER	RUNNERS UP	WINNER
5.	FOOT BALL	WINNER	-	WINNER
6.	KABADDI	WINNER	RUNNERS UP	-
7.	CHESS	WINNER	WINNER/RUNNERS UP	WINNER
8.	SHUTTLE	-	-	WINNER
9.	TABLE TENNIS	-	RUNNERS UP	3 rd PLACE
10.	HANDBALL - GIRLS	WINNER	-	-
11.	BASKETBALL - GIRLS	RUNNERS	-	-

NATIONAL LEVEL TECHNICAL SYMPOSIUM (JETMECH 2K15)

JETMECH 2K15, a National Level Technical Symposium was conducted on **08-09-2015**. Nearly **250 students** from more than **50 colleges** participated in various events like Paper presentation, Technical quiz, Design competition, Debugging etc. A total prize amount of **Rs. 25,000/-** was given to the winners of various events. The symposium was organized by **Students Co-ordination committee**.

Sl.No.	Event Name	I- Prize	II - prize	III- Prize
1	AutoKart	Suganthan S Vishnu Prakash G M N M Jain Engineering College	Jeevanandhan R Ajay R Velammal Engineering College	Sandeep Kumar M Ram Kumar V S Panimalar Engineering College
2	Beat the Clock	Lokeshkumar C Sri Lakshmi Ammal Engineering College	Vishnu Prakash G M N M Jain Engineering College	Prabhakaran K Sri Lakshmi Ammal Engineering College
3	Designorz	Murali Raj K Jeppiaar Engineering College Rajasekar V S A Engineering College	Ramprasad Jawahar Engineering College	Uvaraj K G K M College of Engineering & Technology
4	Machinist	Eagiri Brabakaran D M N M Jain Engineering College	Gokul V M N M Jain Engineering College	Suriya Prakash R St. Joseph's Institute of Technology
5	MechConnex	Baghubali Abishek K Suganthan S Vishnu Prakash G M N M Jain Engineering College	Sachithanantham P S Sandeep Kumar M Sanjaykumar R Panimalar Engineering College	Krishna Kumar M Loga Pradeep R Panneer Selvam D St. Joseph's Institute of Technology

Dr. MGR BIRTHDAY DEBATE FUNCTION

செயிண்ட் ஜோசப்ஸ் பொறியியல் கல்லூரி
செயிண்ட் ஜோசப்ஸ் கல்லூரிக் குழுமம்
தமிழ் மன்றம்

பட்டிமன்றம் அறிக்கை - 2016

செயிண்ட் ஜோசப்ஸ் பொறியியல் கல்லூரியில் டாக்டர். எம்.ஜி.ஆர். அவர்களின் பிறந்த நாள் விழாவை முன்னிட்டு 20.02.2016 அன்று செயிண்ட் ஜோசப்ஸ் பொறியியல் கல்லூரி தமிழ் மன்றம் சார்பில்

**"திருமணத்திற்குப் பின் அதிகம் விட்டுக் கொடுத்து வாழ்வது
ஆண்களே! பெண்களே!"**

என்ற தலைப்பில் பட்டிமன்றம் நடைபெற்றது.

கல்லூரித் தலைவர் கர்னல். டாக்டர். ஜேப்பியார், நிர்வாக இயக்குனர் டாக்டர். பாபு மனோகரன், இயக்குனர் திரு. ஜெயகுமார் கிறிஸ்து ராஜன், முதல்வர் டாக்டர். வட்டி சேஷகிரி ராவ் ஆகியோர் முன்னிலையில் நடைபெற்ற இந்த பட்டிமன்றத்தில் முனைவர். உரு. இராஜேந்திரன் நடுவராக பொறுப்பேற்று **"திருமணத்திற்குப் பின் அதிகம் விட்டுக் கொடுத்து வாழ்வது பெண்களே!"** என்று தீர்ப்பு வழங்கினார். ஆசிரியர்களும், மாணவர்களும் நடுவரது நகைச்சுவையான பேச்சைக் கேட்டு மகிழ்ந்தனர்.

பெண்களே! என்ற அணியில் மாணவர்கள் M. சுவாதி (I EIE), J. ஆஸ்டின் ஞான செல்வன் (I ECE), J.R. ஸ்ரீ வித்யா (I IT), S. கமலஸ்ருதி (I ICE), J. நூரூல்அமீன் (I CIVIL) ஆகியோரும்,

ஆண்களே! என்ற அணியில் மாணவர்கள் S. அருண் (I CHEM), K. பொன் நந்தினி (I ICE), R. கௌதம் குமார் (I CSE), V. சௌந்தர்யா (I IT), E.M.தினேஷ் (I ICE) ஆகியோரும் பங்கேற்று வாதிட்டு அனைவரது பாராட்டுக்களையும் பெற்றனர்.

இவர்களில் J.R. ஸ்ரீ வித்யா மற்றும் E.M.தினேஷ் ஆகியோரை சிறந்த பேச்சாளர்களாக தேர்வு செய்து, கல்லூரித் தலைவர் அவர்கள் ரொக்கப்பரிசு ரூபாய் 1000 அளித்து பாராட்டினார். பங்கேற்ற அனைவருக்கும் பங்கேற்பு சான்றிதழ் வழங்கப்பட்டது.

VALUE ADDED COURSES

FOR THIRD YEARS:

Our college is always one-step ahead in motivating and shaping 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. 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.**
 - ❖ A certified on-line course on application of “**Simulations for Mechanical Engineers using MATLAB**” was conducted in the department of mechanical engineering for **29 III year students** for about **64 hours**. The course was conducted by **EdXEngine** run by our Alumni at Wisconsin, Madison USA and the course can be applied in the domain of Scientific Computational Research.
 - ❖ A value added course on “**Product Design with FEA and Engineering Analysis with CFD**” was arranged for **4 days** for **60 students** of III year mechanical engineering by **UDVAVISK Technologies**. A Training Division of HEXDOF Engineering Services Pvt. Ltd., authorized training partner of Hyperworks Inc. Finite Element Analysis is a core area and the scope of this course is for recruitment to Engineering Services Division in IT Companies.
 - ❖ A knowledge upgradation programme on “**Basic Course in ANSYS Mechanical**” was arranged for 54 III year students of our department by **Kriatec Services**, EdgeCAM for about **8 days**. Students are exposed to EdgeCAM software, Manufacturing, Process planning, CNC machining -Tooling and Machining basics and Workouts with real time industrial part drawings.
 - ❖ A course on “**Hands on Training in Automotive Engine assembly, Transmission drives and Air Conditioning Unit**” was conducted for all **III year students** by **GOODWIN Motors** for **6 days** in order to train them with the basics of programming skills in C and C++ language.

FOR SECOND YEARS:

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/Stigmata Techno Solutions/ Digiterati /Silican Software Services** and around ----- 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

BEST OUTGOING STUDENT AWARD

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

The criteria of best outgoing students are

- * **Good in academics (CGPA)**
- * **Good communication skills**
- * **Best managerial skills**
- * **Active participation in extracurricular & co- curricular activities.**
- * **Attendance (not taken more than 4 days in a semester)**
- * **Got placed or got admission for higher studies (secured good score in GRE or GATE exam if admission is not confirmed)**
- * **Brought laurels to the department or college**
- * **Organized activities at department level or college level**
- * **Not undergone any disciplinary proceedings and maintaining neat dress code**
- * **Quality of final year project.**

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

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

Department	Name of the Student	
CSE	Mr. R. ABHILASH	Ms. N.B. SOUNDARYA
ECE	Mr. D. ALLEN PAUL	Ms. R. NANDINI
EEE	Mr. S. VENKATA SUBRAMANIAN	Ms. S.S. SHANU
IT	Mr. G. KANTHIVEL	Ms. R. ABINAYA
MECH	Mr. R. KARTHIK	
CHEMICAL	Mr. G. ARAVIND	
BIO	Ms. M. ABHINAYA	
ICE	Ms. R. KAVIYA	
EIE	Mr. M.N. MATHEWS EMMANUEL SORIS	Ms. Y. NIKITA
MCA	Mr. M. RAVICHANDRAN	
MSC	Ms. G. SIVARANJANI	
MBA	Mr. A. SINGARAM	Ms. D. KEERTHANA
COGNIZANT BEST OUTGOING STUDENT AWARD		
R. ABHINAYA B. Tech (IT)		
Best Sports Person Award		
NARASIMHA PRIYA S BIO TECH		

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.

ACHIEVERS DAY 2016

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 2015-16 was celebrated on 9. 04. 2016. The students who won various competitions have been invited. The invitees were

- Total Sports and Games Teams : **312** Players
- Inter-collegiate Paper presentation, Symposium, Conference position winners : **1463** Students
- **Blood donors** from **Youth Red Cross** : **53** Students
- Members of **Tamil Mandram**: **20** Students
- Members of Our College **Student Orchestra** Team : **44** Students
- Inter-collegiate **Cultural Competition** Winners : **43** students

No. of Students Hounoured	Total Amount Distributed
1876	Rs. 17.13 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 Gifts. This event was made even more startling by our College Orchestra team and Dance Program by the students. The event ended at 9.00 P. M. with Splendid Vegetarian and Non-vegetarian Dinner.

OVER ALL SPORTS ACHIEVEMENTS

We proudly announce that we have achieved

For the past 13 years in the following

Mega State Level Tournament/Meets

Conducted for all the Engineering Colleges/Arts Colleges in Tamil Nadu

1. ANNA UNIVERSITY INTER ZONAL TOURNAMENTS

From 2003 to 2014

Conducted for 542 Engineering Colleges in Tamil Nadu

2. TIES (TAMIL NADU INTER ENGINEERING SPORTS)

From 2003 to 2014

Conducted for 542 Engineering Colleges in Tamil Nadu

3. JETS

From 2003 to 2014

Conducted for Arts, Science and Professional Colleges in South India

4. St. JOSEPH'S INTER COLLEGIATE ATHLETICS MEET

From 2003 to 2013

Conducted for Arts, Science and Professional Colleges in South India

SPORTS DIARY: 2015-16

VOLLEY BALL – WOMEN		VOLLEY BALL - MEN	
XXI State Level Volley Ball Tournament	III Place	Lakshmi Nagar Sports Club Volley Ball Tournament(Nanganallur)	Winners
Zone-III	Runners	ONGC State Volley Ball Tournament(Thiruvarur)	Runners
SA Trophy	Runners	Bharathi Volley Ball Club State Level Tournament(Pondy)	Winners
PSN Trophy(Thirunelveli)	Runners	Zone-III	Winners
JETS-2016	Winners	Sawyerpuram State Volley Ball Championship(Tuticorin)	III Place
HOCKEY (MEN)		Anna University Inter Zone (Trichy)	Runners
Zone III	Winner	Kalasalingam State Level Volley Ball Tournament(Srivilliputhur)	Runners
Inter Zone	Runner	CM Trophy State(Chennai)	Runners
CM Trophy-2015	Runner	65 th Senior State Volley Ball Championship(Ooty)	Join Winners With Iob
IIT Trophy-2015	Runner	Veltech Tournament(Chennai)	Winners
Park CET Trophy-2016	Runner	Sairam Trophy-2016	Winners
IIT Trophy-2016	Winner	BADMINTON - WOMEN	
FOOT BALL (MEN)		Zone III	Runner
		Sairam Trophy-2015	Runner
WEIGHT LIFTING			
TNPESU Trophy-2015	Runner	Inter Zone (Weight Lifting)	Runner
Saveetha Trophy-2016	Runner	Inter Zone (Power Lifting)	Runner
JETS-2016	Runner	Inter Zone (Best Physique)	Runner
HANDBALL		KABADDI - WOMEN	
ZONE III	Runner	Inter Zone	3 rd Place
BADMINTON – MEN		TNPESU Trophy	Winner
		Karunya University Tournament	3 rd Place
Zone III	Sairam Trophy-2015	PSN Trophy-2016	3 rd Place
		Jets -2016	Winner
Sairam Trophy-2015	Runner	KABADDI - MEN	
JETS-2016	Winner	TNPESU Trophy	Winner
TENNIS – WOMEN		Zone III	Winner
Interzone	3 rd Place	Inter Zone	Runner
TENNIS – MEN		PSN TROPHY-2016	3 rd Place
Zone III	Runner	Sairam Trophy -2016	Winner
SA Trophy 2016	Runner	JETS -2016	3 rd Place
Saveetha Trophy --2016	Winner	K L University Trophy-2016	Winner
IIT Trophy --2016	Runner	BALL BADMINTON- MEN	
CHESS – WOMEN		Zone III	Winner
MOP Trophy-2016	Runner	7 th All India Ball Badminton Tournament	
Jets-2016 (Women)	3rd Place	Bertram Layola Trophy-2016	Winner
CHESS –(COMBINED)		Inter Zone	Winner
Zone III	Runner	Ms & Mrs Baulraj Memorial Ball Badminton 'B' Grade Tournament	Runner
SSN Trophy-2015	Runner		
S A Trophy-2016	Runner	State Level 2 Sr. Ballbadminton Tournament	Winner
JETS-2016 (Men)	Runner	For Men	

BALL BADMINTON - WOMEN		R S Puram 2 Sr.Balldbadminton Men	Winner
Zone III	Runner	Tournament	
Sairam Trophy-2015	Runner	B S Abdur Rehman Tournament	Runner
TABLE TENNIS - MEN		Jets-2016 'A' Team	Winner
Zone III	Runner	Jets-2016 'B' Team	3 rd Place
Sairam Trophy-2015	Winner	BASKET BALL - WOMEN	
SA Trophy-2016	3 rd Place	Zone-III	Runner
JETS-2106	Winner	Sa Trophy-2016	Winner
TABLE TENNIS – WOMEN		MOP Vaishnava Trophy-2016	3 rd Place
Zone III	Winner	IIT Trophy-2016	Runner
Inter Zone	Winner	JETS -2016	3 rd Place
Sairam Trophy-2015	Winner	BASKET BALL (MEN)	
SSN Trophy-2015	Winner	St.Joseph's Ragavendra Basket Ball Men & Women Tournament	RUNNER
MOP Trophy-2016	Winner	ZONE-III	Winner
JETS-2106	Winner	Karunya University Tournament	Runner
WEIGHT LIFTING, POWER LIFTING, BEST PHYSIQUE(MEN)		B.S.Abdur Rahamman Tournament	Runner
Inter Zone (Weight Lifting)	Runner	SVEC Trophy-2016	Runner
Inter Zone (Power Lifting)	Runner	JETS-2016	Runner
Inter Zone (Best Physique)	Runner		

ANNA UNIVERSITY BLUES 2015-2016

S. No	Name	Year/ Branch	Game	S. No	Name	Year/ Branch	Game
1	M.D.Aasipsharif	I (MBA)	Ball Badminton	17	A.A.Prasanna Raj	III (EIE)	Volley Ball
2	B.Aravindan	II (MBA)		18	J.Jain Jini Jo	IV CHEM)	
3	S.Muthukumar	I(MBA)		19	K.Praveen Kumar	III (EIE)	
4	Bokka Soma Sekar Babu	II (MBA)		20	S.Palani	III (EIE)	
5	D.Karthikeyan	IV (CHEM)	Kabbadi	21	K.Pramoth	III (EIE)	Badminton
6	A.Ranjithkumar	III (EIE)		22	B.Dhanus Kumar	II (IT)	
7	A.Nalini	IV(ICE)		23	M.Perumal	I (MBA)	
8	M.Nandhini	III (EIE)	Hockey	24	J.Sathish Raj	I (EIE)	Weight Lifting
9	S.Ajay Eswaran	II (ICE)		25	M.R.Kannan	I (MBA)	
10	C.Sarath Babu	II (ECE)		26	S.Elavarasan	II (CIVIL)	Power Lifting
11	V.Haris Kumar	III (EIE)		27	U.Allen Prabdu	I (MBA)	
12	R.Athityan	II (CIVIL)	Table Tennis	28	P.Viji	I(MBA)	Best Physique
13	S.Sanmathi	II (CSE)		29	K.Nagarajan	I(MBA)	
14	Raveena Deenadhayalan	II (B.TECH)		30	P.Venugopal	I (ME)	
15	S.Dhakshin Raj	II (IT)		31	M.Nithyanandam	I(MBA)	
16	S.Srijith	II (CSE)	Tennis	32	M.S.Pavan Gupta	I (ECE)	Swimming

SPECIAL OCCASIONS

IFDHAR Our College celebrated Ramzan on **15th July 2015**. 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.

Onam The festival of rice harvest was celebrated on **21st August 2015** 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.

Teachers Day Our College celebrated the Teachers day as a special occasion from 2nd,3rd ,4th September 2015. The students entertained the respective departments faulty members with unique shows on that special day. Our Management gave gifts to all the teachers of our college as a token of appreciation.

Vinayaka Chathurthi Our college celebrated Vinayaka chathurthi on 17th September 2015. 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.

Ayudha pooja Our College celebrated Ayudha Pooja on 20th October 2015. 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 7th November 2015. 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 24th November 2015 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 **12th December 2015** 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 **18th December 2015**. On Christmas day, a special mass was conducted in our college chapel. The celebrations included a rhythmic 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 **8th January 2016**. 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 **19th 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.

Easter Our College celebrated Easter on **23rd March 2016**. 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.

Ugadi Our college celebrated Ugadi on **8th April 2016**. 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.

Tamil New Year Our college celebrated Tamil New year on 15th April 2016. The Tamil New year festival popularly called as Puthandu. It is the celebration of the first day of the traditional Tamil calendar. The day is marked with feast and decorated with kolams. Special lunch was served to all.

AIRCRAFT SAFETY

New imaging technique could detect acoustically 'invisible' cracks



- The next generation of aircraft could be thinner and lighter which is made possible by the development of a new imaging technique that could detect damage previously invisible to acoustic imaging systems.
- The nonlinear acoustic technique developed by researchers from the University of Bristol's Ultrasonic and Non-destructive Testing (NDT) research group.
- It has long been understood that acoustic nonlinearity is sensitive to many physical properties including material microstructure and mechanical damage. The lack of effective imaging has, however, held back the use of this important method.
- Imaging of acoustic nonlinearity is achieved by exploiting differences in the propagation of fields produced by the parallel and sequential transmission of elements in ultrasonic arrays.

- Imaging acoustic nonlinearity not only provides sensitivity to smaller defects than is currently possible but may have the potential to detect damage before macroscopic material changes occur.
- "This would enable intervention before cracks have even begun to form, as well as predicting the remaining life of an engineering structure". Crucially the technique has been achieved using standard inspection equipment, which will allow for the rapid implementation of the technique in numerous applications.
- Such advances in non-destructive evaluation not only increase the safety of engineering structures but can help future design, for example, allowing the next generation of aircraft to be built thinner and lighter.

Article by: ROBERT J & RAJESH GURU, II YEAR MECH 'C'

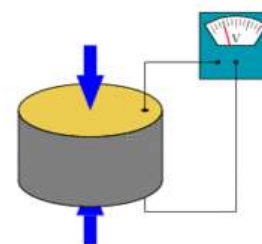
Hiking A Backpack That Charges Your iPod

Source: Michigan Technological University

Summary: The stress and strain absorbed by your backpack could one day recharge your cell phone. Researchers have designed a strap that will capture the energy generated by the up-and-down movement of a hiker's pack and turn it into enough voltage to power small electrical devices.

Principle: Piezoelectric effect

Piezoelectric Effect is the ability of certain materials to generate an electric charge in response to applied mechanical stress. The word Piezoelectric is derived from the Greek piezein, which means to squeeze or press, and piezo, which is Greek for "push".



A piezoelectric disk generates a voltage when deformed (change in shape is greatly exaggerated)

List of Naturally occurring piezoelectric crystals are

- ✓ Quartz
- ✓ Berlinite (AlPO₄), a rare phosphate mineral that is structurally identical to quartz
- ✓ Sucrose (table sugar)
- ✓ Rochelle salt
- ✓ Topaz
- ✓ Tourmaline-group minerals
- ✓ Lead titanate (PbTiO₃).

The stress and strain absorbed by your backpack could one day recharge your cell phone.

Researchers at Michigan Technological University have designed a strap that will capture the energy generated by the up-and-down movement of a hiker's pack and turn it into enough voltage to power small electrical devices.

With mechanical engineering graduate students Jonathan Granstrom and Joel Feenstra, Sodano designed straps made of a piezoelectric material that can convert mechanical strain into electrical energy.

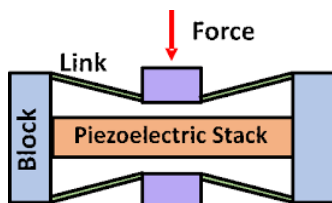
You probably wouldn't be able to plug a TV into your backpack; the system is designed for use with devices that require small amounts of electricity, such as a GPS unit. Alternatively, a hiker could charge up a headlamp while walking during the day and then turn it on after dark. Or the backpack could generate enough power to recharge a handheld computer.

The straps are made of a nylon-like polymer that produces a fluctuating, AC current that could be stored in a battery or a capacitor. The researchers teamed up with the Blacksburg, Va., company Nano Sonic Inc. to develop a specialized electrode grown on the surface of the strap using nanotechnology.



The beauty of the design is that it requires no extra effort on the part of the user, unlike other devices that transform mechanical energy into electricity, such as wind-up flashlights. It's part of a new field called "energy harvesting."

Someone shouldering a heavy pack, such as a soldier in the field, could generate 45.6 milliwatts of power walking two or three miles per hour. That's enough wattage to power small electronics. Or, it could be accumulated for later use.



In general, the power has to be accumulated before using it; for example you could walk for 20 minutes then have enough power to talk for 2.5 minutes on your cell phone.

The research was funded by the Office of Naval Research, which is investigating power sources for Marines in the field. The researchers hope to receive additional support to develop a prototype and then to commercialize their innovation.

Story Source: The above post is reprinted from materials provided by **Michigan Technological university**.

Article by: RAGHAV.S and RAMAKRISHNAN .C.B

Nano IC Engine

Mechanical field has now moved on to **nano scale**, which R&D has chosen as its area of interest. Heat engines have evolved from external combustion engines to internal combustion engines and the hot off the block is the nano internal combustion engine.



Prospects:

The problem is every day people are spending more and more money because of rising gas prices. People all over the world are trying to find a solution to locate cheapest gas. Now, there is a way to fight back against these constant increases in gas price and to fight pollution and protect the environment in the process.

The Solution

Use the most advanced technology available to improve fuel economy, prolong the engine life, reduce harmful emissions and protect the environment. The number one product for fuel economy, power and pollution control is now available.

Introducing these two unique nanotechnology products:

F2-21 NanoLube Engine Oil Treatment

F2-21 NanoRon Gas & Diesel Fuel Enhancer.

Fuel transforms at the nano-level to achieve a more complete combustion, resulting in the **increased fuel economy**, more driving power, and fewer pollutive emissions.

- Adds great power to your engine. **NanoLube** eases heavy driving loads and increases driving pleasure with a faster, smoother, and quieter ride.

- Boosts **miles per gallon** (analogous to buying Premium Gas or boosting your octane number), while saving you money and conserving energy.

- Prolongs engine life by cleaning your combustion chamber and piston ring deposits, extending engine life and cutting equipment downtime.

- Protects the environment by reducing harmful emissions and fighting global warming.

Components: Crank case, Back plate, Conrods, Cylinder, Piston & Contra piston, Nano Crank and Venturi & Needle valve assembly.



Applications: Nano ic engine has various applications ranging from race cars to space crafts

* In race cars this IC Nano Engine was used. The engine was fully fabricated, that is, no castings were employed.

* It can be controlled in aeroplanes/ satellites/ space ships etc., the timing of in let and exhaust valves.

* According to NASA reports they are now experimenting

about the use of nano engine in nano & pico satellites.

* In case of a mine tragedy where harmful gases are emitted ,these nano IC engines can be employed as powerful blowers to blow out these gases is a less time saving the lives of trapped miners .We require atleast 5-6 blowers to blow these gases where as two Nano IC engines could do the tick in less time.

* Agriculture pumps sets.

By: Yuvaraj.R
3rd year (Mechanical)

Sound-proof metamaterial inspired by spider webs

Spider silk is well-known for its unusual combination of being both lightweight and extremely strong – in some cases stronger than steel. Due to these properties, researchers have been developing spider-silk-inspired materials for potential applications such as durable yet lightweight clothing, bullet-proof vests, and parachutes.

But so far, the acoustic properties of spider webs have not yet been explored. Now in a new study, a team of researchers from Italy, France and the UK has designed an acoustic metamaterial which is a material made of periodically repeating structures) influenced by the intricate spider web architecture of the golden silk orb-weaver, also called the Nephila spider.

Researchers say that the spider web architecture, combined with the variable elastic properties of radial and circumferential silk, is capable

of attenuating and absorbing ion wide frequency ranges.

By modeling different versions of the new spider-web-inspired acoustic metamaterial, the researchers demonstrated that the new design is more efficient at inhibiting low-frequency sound and is more easily tuned to different frequencies than other sound controlling materials. Combined with the stiffening mechanical properties and the heterogeneity of spider silk, the tunable acoustic properties demonstrated here suggest that spider-web-inspired metamaterials could lead to a new class of applications for controlling vibrations. Possibilities include earthquake protection for suspended bridges and buildings, noise reduction, sub-wavelength imaging, and acoustics cloaking. The acoustic advantages of the spider web arise, at least in part, from the concentric circles, or "rings," of the web. These rings resonate at a particular frequency when exposed to vibrations. Based on this natural architecture, the researchers designed the acoustic metamaterial to have square units containing resonating rings with supporting ligaments that radiate outward from the center of the rings. The design could be incorporated into many diverse man-made structures.

The metamaterial is highly tunable because its geometry is defined by five parameters—which is more than traditional acoustic materials—and each of these parameters can be independently controlled to

produce a vast number of designs that respond to different acoustic frequencies. The frequency range that is inhibited by these materials is called the band gap, and here the researchers showed that spider-web-inspired acoustic metamaterials can have wide band gaps, with large ranges of tunability.

In the future, the researchers plan to further investigate the unusual vibration-reducing properties of spider webs, and how to take advantage of them for applications.

BY: KEERTHANA
IV YEAR MECH 'B'

Is 3D printing, entering a new dimension

3D printing, also known as additive manufacturing, is the computer-controlled sequential layering of materials to create three dimensional shapes. Originally developed more than 30 years ago, it is only in recent years that applications of the technology have expanded in fields as diverse as aerospace, medicine and dentistry, construction, the automotive industry and clothing and footwear. The main 3D printing technologies include Fused Deposition Modelling (FDM: melting of thermoplastic material by heating and then extruding it to create an object layer by layer), Selective Laser

Sintering (SLS: using a high power carbon dioxide laser to fuse small particles of metal or plastic powder into 3D objects), Electron Beam Melting (EBM: using a cathode ray as a heat source to melt metal powder in a high vacuum, layer by layer, to create a product) and Stereo lithography (SLA: producing 3D models layer by layer by curing a photo-reactive resin with a UV laser). The additive nature of 3D printing helps in reducing wastage of materials and the associated costs. It now has a growing range of uses beyond rapid prototyping. Although 3D printers are still not cost-effective for most high-volume commercial manufacturing, they are faster and easier to use than they were, and can handle multiple materials. Research is now under way on the next stage, dubbed "4D printing", which involves the use of 3D-printed objects and materials able to change shape over time when immersed in liquids or exposed to external energy sources. In 2015, 90% of 3D printing applications in the automotive industry were for prototyping and only 10% for production. However, the technology is starting to spread, and is used not just for design but also for manufacturing, repair and

replacement. Start-up companies in the US have already produced prototype 3D printed cars comprising a mix of carbon fibre and thermo-plastic modular body parts with original equipment manufacturer (OEM) components such as the engine and drive train. Aerospace is another sector where 3D printing has made great advances. Since 2015, astronauts aboard the International Space Station have created 3D printed replacement parts on demand. In January 2016, Boeing reported the successful maiden flight of its latest generation 737 MAX aircraft, powered by the world's first jet engines to include 3D-printed fuel nozzles, while another US company successfully tested a 3D-printed hypersonic scramjet engine combustor made by an additive manufacturing process known as Powder Bed Fusion (PBF). The European consortium Airbus has said it plans to 3D print 10% of all aircraft parts in the near future, citing the technology's production efficiencies and aircraft weight reduction as reasons for its adoption. The construction industry has adapted 3D printing technologies to create buildings and other structures. Researchers at the

Massachusetts Institute of Technology are investigating a variety of 3D printing systems for construction, including one which uses swarms of small robots that extrude fast-setting materials to fabricate large structures. A Chinese company has used large 3D printers spraying a mixture of quick drying cement and recycled raw materials to construct 10 small demonstration 'houses' in less than 24 hours, comprising prefabricated sections joined together with steel reinforcing bars. And an Italian research group has created giant printer 12 metres high that can 3D print huts using clay. Its main goal is to provide shelter in desert regions such as North Africa, where it has printed its first structures. The US space agency NASA, meanwhile, is looking at ways in which robotic 3D printers using material from the surfaces of the Moon. The above mentioned research facts clearly indicates that 3D printing is really travelling towards a new dimension.

Source: *Articles by prof. Peter Feuilherade.*

N.SATHISHKUMAR, m.e
Assistant professor

THE BOSS

Scientists at the Rocket Launching Station in Thumba were in the habit of working for nearly 12 to 18 hours a day. There were about seventy such scientists working on a project. All the scientists were really frustrated due to the pressure of work and the demands of their boss but everyone was loyal to him and did not think of quitting the job. One day, one scientist came to his boss and told him - Sir, I have promised my children that I will take them to the exhibition going on in our township. So, I want to leave the office at 5.30 p.m. His boss replied - OK, You are permitted to leave the office early today. The Scientist started working. He continued his work after lunch. As usual he got involved to such an extent that he looked at his watch when he felt he was close to completion. The time was 8.30 p.m. Suddenly, he remembered of the promise he had given to his children. He looked for his boss, He was not there. Having told him in the morning itself, he closed everything and left for home. Deep within himself, he was feeling guilty for having disappointed his children. He reached home. Children were not there. His wife alone was

sitting in the hall and reading magazines. The situation was explosive; any talk would boomerang on him. His wife asked him - Would you like to have coffee or shall I straight away serve dinner if you are hungry.

The man replied - If you would like to have coffee, I too will have it, but what about the

Children??? Wife replied- You don't know? - Your manager came at 5.15 p.m. and has taken the children to the exhibition.

What had really happened was....The boss who granted him permission was observing him working seriously at 5.00 p.m. He understood that this person will not leave the work, but if he has promised his children they should enjoy the visit to exhibition. So, he took the lead in taking them to exhibition'. The boss does not have to do it every time. But once it is done, loyalty is established. That is why all the scientists at Thumba continued to work under their boss even though the stress was tremendous.

The boss was His Excellency, Former President of India

Dr A.P.J Abdul Kalam.

By Editorial Desk