

EVALUATIVE REPORT OF THE DEPARTMENT



Department of Mechanical Engineering



1. **Name of the Department** : **Mechanical Engineering**
2. **Year of Establishment** : Department of Mechanical Engineering was established in the year 1993 in St. Peter's Engineering College which was declared as Deemed to be University in 2008.
3. **Is the Department part of a School / Faculty of the University:**

Department of the University
4. **Names of the Programmes offered (UG, PG, Ph.D., Integrated Masters; Integrated Ph.D., D.Sc. D.Litt etc.)**
 - B.E (Mechanical Engineering)
 - M.E (Advanced Manufacturing Technology)
 - M.E. Engineering Design (Suspended)
 - M.E. Thermal Engineering (Suspended)
 - M.E. CAD CAM (Suspended)
 - Ph.D. (Mechanical Engineering)
5. **Interdisciplinary programmes and departments involved :**

S.No.	Interdisciplinary courses	Year/ Sem	Department
UG Programme B.E. (Mechanical)			
1.	113EHT01-Technical English-I	I/I	English
	213EHT01-Technical English-II	I/II	
2.	113MAT02-Mathematics-I	I/I	Maths
	213MAT02-Mathematics-II	I/II	
	313MAT01-Transforms and Partial Differential Equations	II/III	
	413MET01-Statistics and Numerical Methods	II/IV	
3.	113PHT03-Engineering Physics-I	I/I	Physics
	213PHT03-Engineering Physics-II	I/II	
4.	113CYT04-Engineering Chemistry-I	I/I	Chemistry
	213CYT04-Engineering Chemistry-II	I/II	
5.	313MET02-Strength of Materials	II/III	Civil
6.	413MET05-Environmental Science and Engineering	II/IV	Chemical
7.	212EET05-Basic Electrical and Electronics Engineering	I/II	EEE

	312MET06-Electrical drives and controls	II/III	
8.	512MET06-Applied Hydraulics and Pneumatics	III/V	EIE
	412MET06-Electronics and Microprocessor	II/IV	
	712MET02-Mechatronics	IV/VII	
9.	513MET06-Professional Ethics in Engineering	III/V	MBA
	612MET01-Principles of Management	III/VI	
	712MET01-Total Quality Management	IV/VII	
	812MET01-Engineering Economics & Cost Analysis	IV/VIII	
	812MET04-Entrepreneurship Development	IV/VIII	
PG Programme M.E. (Advanced Manufacturing Technology)			
10.	213AMPT01-Advanced Operations Research	II/I	

6. Courses in collaboration with other universities, industries, foreign institutions.

Nil

7. Details of programmes discontinued, if any.

Nil

8. Examination System with: Annual/Semester/Trimester/Choice Based Credit System:

Semester system and Choice Based Credit System (CBCS)

9. Participation of the department in the courses offered by other departments.

S.No	Interdisciplinary courses	Year/Sem	Department
1	113EGT06-Engineering Graphics All branches of B.E./ B.Tech	I/I	All branches of B.E./ B.Tech)
2	213MET04-Engineering Mechanics	I, II/I,II	Civil Engineering
3	313MET06-Power Plant Engineering	III/V	EEE

10. Number of teaching posts sanctioned , filled :

	Sanctioned	Filled	Actual (including CAS & MPS)
Professors	4	4	4
Associate Professors	2	2	2
Asst. Professors	14	14	14

11. Faculty profile with name, qualification, designation, specialization, (D.Sc/D.Litt./Ph.D./M.Phil.etc.,)

S. No	Name of the faculty	Qualification	Designation	Specialization	No. of years Exp.	No. of Ph.D students under guidance
1	Dr.K.Balagurunathan	M.E., Ph.D	Senior Prof. & Advisor	IC Engines	44	8
2	Dr.L.Mahesh Kumar	M.E., Ph.D	Prof. & Director Academic	Manuf. Engg	25	8
3	Dr.P.V.Senthiil	M.E., Ph.D	Prof. & Head	Manuf. Engg	30	8
4	Dr.P.Periyasamy	M.E., Ph.D	Prof.	Manuf. Engg	15	4
5	Mr.V.Thiagarajan	M.E (Ph.D)	Assoc. Prof.	Manuf. Engg	20	NA
6	Mr.T.Thamilarasan	M.E (Ph.D)	Assoc. Prof.	Manuf. Engg	15	NA
7	Mr.M.Jayaprasad	M.E	Asst. Prof.	IC Engines	5	NA
8	Mr.R.Praveen Kumar	M.E	Asst. Prof.	Engg Design	2	NA
9	Mr.K. Arun	M.E	Asst. Prof.	Engg Design	3	NA
10	Mr.M.Kamal	M.E	Asst. Prof.	Mech. Engg	2	NA
11	Mr.A.Prabu	M.E	Asst. Prof.	IC Engines	-	NA
12	Mr.S.Manoj	M.E	Asst. Prof.	Engg Design	4	NA
13	Mr.D.Kanmani	M.E	Asst. Prof.	Thermal	3	NA
14	Mr.R.Ganesh Moorthy	M.E	Asst. Prof.	Engg Design	16	NA

15	Mr.Balasubramanian	M.E	Asst. Prof.	Manufacturing	4	NA
16	Mr.V.Gobinathan	M.E	Asst. Prof.	Engg Design	5	NA
17	Mr.Bharathi Selvam	M.E	Asst. Prof.	Engg Design	-	NA
18	Mr.Harish	M.E	Asst. Prof.	Engg Design	5	NA
19	Mr.Pachamuthu	M.E	Asst. Prof.	CAD/CAM	1	NA
20	Mr.Prasad	M.E	Asst. Prof.	CAD/CAM	3	NA

12. List of senior Visiting faculty:

Nil

13. Percentage of classes taken by temporary faculty – programme-wise information.

Nil

14. Programme-wise Student Teacher Ratio:

S. No.	Programme	Sanctioned strength	Student Teacher Ratio
1	B.E-Mechanical	II Yr - 30 III Yr - 45 IV Yr – 120	15:1
2.	M.E-Advanced Manufacturing Technology	24	12:1
3.	Ph.D	-	8:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual.

	Sanctioned	Filled	Actual (incl. CAS & MPS)
Support Staff (Technical)	9	9	9
Administrative Staff	1	1	1

16. Research thrust areas as recognized by major funding agencies :

- Automobile - Vehicles,
- Advanced Manufacturing Technology,
- Simulation and Automation,
- Entrepreneurship Development.

17. Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

Nil

18. Inter-institutional collaborative projects and associated grants Received

Nil

19. Departmental projects funded by DST-FIST,DBT, ICSSR, AICTE, etc.; total grants received:

Details of Departmental Projects funded

S. No	Name of the Investigator	Funding Agency	Project title	Grant Received	Status
1.	Mr.V.S.Manivannan & Mr.V.Thiagarajan Associate Prof.	MSME	Solar-Powered Vehicle for in-Campus Transportation	6 lakhs	Received
2	Mr.Prem Sekar Bakiaraj & Dr. K.Purushothaman	MSME	Fuel Activator	5 lakhs	Received

20. Research facility / centre with

State recognition - Nil
National recognition - Nil
International recognition - Nil
Others

Sl.No	Softwares available
1	Auto CAD 14
2	ANSYS 11
3	CREO 3.0
4	Fluxin
5	Myrea
6	Lekin Simulation
7	CATIA V6

Sl.No	Equipment/Hardware Kits available
1	My rio kit
2	CNC Grinding Machine
3	CNC Turning Centre
4	CNC Vertical Machining Centre
5	Radial Drilling Machine
6	DCC-Co Ordinate Measuring Machine
7	STRATASYS Print Rapid Proto Typing Machines

21. Special research laboratories sponsored by / created by industry or corporate bodies :

Special research laboratory sponsored by DST has been created in the name of SPEC- TBI which is used for promoting Entrepreneurship.

22. Publications:

- a) No. of papers published in peer reviewed journals (National/ International)

Year	International Journal	National Journal	International Conference	National Conference	Total
2015	05	02	03	32	42
2014	17	02	03	13	35
2013	05	01	-	57	63
2012	07	04	02	03	16
2011	05	02	02	01	10
2010	02	03	-	01	06
Total	41	14	10	107	172

PUBLICATIONS IN INTERNATIONAL JOURNALS

2015	
1	P. Periyasamy , “Effect of volume percentage of reinforcement on Al/SiCp MMCs” International Journal of Applied Engineering Research, ISSN 0973-4562, Vol.10, Issue.17, pp12886-12893, 2015, SCOPUS, Impact Factor:0.8
2	P.Jayaraman and L.Mahesh Kumar , “Multi-response Optimization of Machining Parameters of Turning AISI 6061 T6 Aluminium Alloy using grey relational analysis in Taguchi method” International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 8 (2015) SCOPUS, Impact Factor:0.8
3	P.Jayaraman and L.Mahesh Kumar , “Multi-characteristics optimization during turning of AISI 6061 T6 Aluminium Alloy using Weighted principal component Analysis” International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 8 (2015) SCOPUS, Impact Factor:0.8
4	P.Jayaraman and L.Mahesh Kumar , “Multi-response optimization of cutting parameters during End-milling of AA6061 T6 Aluminium Alloy using Grey relational analysis” International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 2 (2015) SCOPUS, Impact Factor:0.8
5	Mahesh Kumar L. V.B.M.Sayana and Jayaraman P, “Multi-characteristics optimization on end-milling of AA6101 T6 using weighted principal component analysis”, International Journal of Applied Engineering Research, Vol.10, No.6, 2015.

2014	
6	P.V.Senthiil and Aakash Shirrushti “Productivity Enhancement with Lean Concepts in Belt driven Compressor industry” International journal of recent advances in multidisciplinary research, vol.01,issue.03,pp.051-055, 2014, Impact Factor:0.4
7	P.V Senthiil , Aakash Sirusshti “Inventory Control and Cost Transition for Optimum Transition Policy” International Journal of Advances in Engineering and Technology,2014,vol.7,Issue.4,pp-1245-1253, Impact Factor:2.12
8	P.V.Senthiil , Aakash Sirusshti “Job Shop Scheduling using Modified Simulated Annealing Algorithm” International journal of Engineering Sciences & Research Technology,2014,vol.3,issue.9,pp.54-60, Impact Factor:3.1
9	P.V Senthiil , Aakash Sirusshti “Finite Element Simulation of Plasma Transferred Arc Welding (PTAW) of Structural Steel” International Journal of Engineering Research and Applications ,2014,Vol. 4, Issue 10(Part – 4), pp.06-11, Impact Factor:1.6

10	P.V Senthil , Aakash Sirusshti “Analysis of Spring back in Tube Bending” International journal of Current research,2014,vol.6,issue.08,pp7809-7811, Impact Factor:3.5
11	P.V Senthil , Mirudhunka, Aakash Shirusshti “Centrifugal Pump Stress analysis with Optimization” International Journal of Advanced Research Trends in Engineering and Technology (IJARTET),2014,Vol. 1, Issue 2, pp.1-5,
12	P.V Senthil , V S Mirudhunka “Simulation Study Of Hybrid Push/Pull System” International Journal of Emerging Technology & Research, 2014, Volume 1, Issue 4,pp.-1052-1060, Impact Factor:0.9
13	PV Senthil , VS Mirudhunek,Aakash Shirusshti “predictive maintenance model development using life prediction methodology” Engineering Science and Technology: An International Journal (ESTIJ),2014,Vol.4, No.3, pp102-111, Impact Factor:2.4
14	P.V Senthil , V S Mirudhunka “Heuristics For N Job M Machine Flowshop Batch Processing With Breakdown Times” International Journal of Emerging Technology and Advanced Engineering,2014,Vol.4, Issue 6, pp.276-286, Impact Factor:0.4
15	P.V Senthil & Rajesh Ranganathan “Design & Development of Immediate Post Surgical Fittings for the Amputee” international journal of recent scientific research, 2014, vol. 5, issue, 6, pp. 1170-1176, Impact Factor:2.4
16	P.V Senthil , V S Mirudhunka “Design and Development of Regenerative Pump Impeller using CFD Technique”international journal of scientific research,2014,vol.3,issue.7,pp-1-5, Impact Factor:2.4
17	Senthil, P. V. , M.Chinnapandian and Aakash Sirusshti “Optimization of Process Parameters In Cold Chamber Die Casting Process Using Taguchi Method”International Journal of Innovative Science, Engineering & Technology, 2014, Vol. 1, Issue. 6, pp325-337.
18	Elaiyaraja K, Periyasamy P “In Process Quality Control through proportionate value in Electrical Upsetting of engine valves” International Journal of Applied Mechanics and Materials Vol.592-594, Issue.17, pp 2665-2670, 2014, Impact Factor:1.29
19	P.Periyasamy , B.Mohan, V.Balasubramanian,”Feasibility of utilizing Response Surface Methodology for predicting tensile strength and hardness of friction stir welded AA6061/10p SiCp MMCs joints”, Materials and Design, vol.38, pp 234 – 248, 2014, Impact Factor:2.913
20	P.Jayaraman and L.Mahesh Kumar , “Multi-response optimization of Machining Parameters of Turning AA6063 T6 Aluminium Alloy using Grey Relational Analysis in Taguchi Method” International Journal of Procedia Engineering, 97, 2014, pp197 – 204
21	P.Jayaraman and L.Mahesh Kumar , “Multi Characteristics Optimization During Turning of 6063 T6 Aluminium Alloy Using Weighted Principal Component Analysis” International Review of Mechanical Engineering, IREME, Vol.8, July 2014.
22	Venkatkumar.G , Mohanamurugan.S, Jeess Janesh.M and Vijay.R, “Optimization of Suspension Parameters for Helical spring of two

	Wheeler rear Suspension” International Journal of Applied Engineering Research, ISSN 0937-4562 Vol.9 No.26, 2014
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2013	
23	P.Periyasamy , B.Mohan, V.Balasubramanian, S.Rajakumar S.Venugopal “Multi-Objective optimization of FSW parameters using desirability approach to join Al/SiC MMCs” Trans. Nonferrous Met. Soc. China, vol 23, pp942–955, 2013, Impact Factor:1.178
24	P.Periyasamy , B.Mohan, V.Balasubramanian, “Effect of heat input on mechanical and metallurgical properties of friction stir welded cast aluminum alloy” Int. J. Materials and Product Technology, vol.56, pp2087–2091, 2013, Impact Factor:0.28
25	Venkata Ramesh Mamilla , M.V.Mallikarjun and G.Lakshmi Narayana Rao, “Prediction of Cetane Number for Biodiesel Fuels: Karanja, Jatropha, Sunflower, Palm and Waste Cooking Oil Methyl Esters”, CIIT International Journal of Artificial Intelligent Systems and Machine Learning, Vol. 5 No.2, pp70-74 February 2013. Impact Factor:0.76
26	M.V.Mallikarjun , Venkata Ramesh Mamilla and G.Lakshmi Narayana Rao, “Nox Emission Control Techniques when CI Engine Is Fuelled with Blends of Mahua Methyl Esters and Diesel” International Journal of Engineering Sciences & Emerging Technologies, ISSN: 2231 – 6604 Vol. 4, Issue 2, pp 96-104, Feb. 2013. Impact Factor:0.5
27	Venkata Ramesh Mamilla , M.V.Mallikarjun and G.Lakshmi Narayana Rao, “Effect of Injection Pressure on Performance, Emission and Combustion Characteristics of Diesel Engine Running on Blends of Jatropha methyl esters and Diesel Fuel” CIIT International Journal of Artificial Intelligent Systems and Machine Learning, Vol. 5, No.2, pp 88-94 February 2013, Impact Factor:0.76

2012	
28	P.Periyasamy , B.Mohan, V.Balasubramanian, S.Rajakumar S.Venugopal “Prediction of tensile strength of friction stir welded AA6061 aluminum alloy using response surface methodology”, Trans. Nonferrous Met. Soc. China, vol. 22, pp435-443, 2012, Impact Factor:1.178
29	M.V.Mallikarjun , Venkata Ramesh Mamilla and G.Lakshmi Narayana Rao, “Experimental Exploration of CI Engine Fuelled With Mahua Oil and Diesel with Low Heat Rejection Technique and by varying Injection Pressure”, International Journal of Recent Scientific Research, ISSN: 0976-3031 Vol. 3, Issue. 1, pp45 – 49, January, 2012. Impact Factor:1.13
30	Venkata Ramesh Mamilla , M.V.Mallikarjun and G.Lakshmi Narayana Rao, “Performance and Emissions Characteristics of Single Cylinder 4 Stroke Diesel Engine from Jatropha Methyl Ester and Diesel Blends” International Journal of Recent Scientific Research, ISSN: 0976-3031, Vol. 3, Issue 1, pp20-24, January 2012, Impact Factor:1.13

31	M.V.Mallikarjun , Venkata Ramesh Mamilla and G.Lakshmi Narayana Rao, "Experimental Investigation of Compressed Ignition Engine Fuelled with Blends of Diesel and Mahua Oil and also by Varying Fuel Injection Pressures" International Journal of Recent Scientific Research, ISSN: 0976-3031. Vol. 3, Issue. 2, pp80-85, February, 2012, Impact Factor:1.13
32	M.Anand , S.Ravi, Kuldeep Chouhan and Syed Musthak Ahmed, "Data Self-Healing Technique Using ASIC Level Security Mechanisms", CIIT International Journal of Programmable Device Circuits and Systems, Vol. 3, No. 7, pp.329-335, June 2012, Impact Factor:0.5
33	Venkata Ramesh Mamilla , M. Narayana Rao, "Biodiesel Production from palm oil by Transesterification Method" International V.Mallikarjun and G.Lakshmi Journal of Current Research, ISSN: 0975-833X. Vol. 4, Issue 08, pp. 083-088, August 2012.
34	M.Prabhakar , R.Muralimanohar & S.Sendilvelan, "Performance, Emission and Combustion Characteristics of a Direct Injection Diesel Engine with Pongamia Methyl Ester and Diesel Blends, European Journal of Scientific Research", ISSN 1450-216X, Vol. 73 No.4, pp504-511, 2012, SCOPUS

2011

35	P. Periyasamy , B. Mohan, and V. Balasubramanian "Effect of heat input on mechanical and metallurgical properties of friction stir welded AA6061-10% SiCp MMCs", ASM International Journal of Materials Engineering and Performance, JMEPEG DOI: 10.1007/s11665-012-0176-5, 2011, Impact Factor:0.98
36	P. Periyasamy , B. Mohan, V. Balasubramanian and S. Venugopal, "Effect of heat input on mechanical and metallurgical properties of friction stir welded cast AA6061-20% SiCp MMCs", International Journal of Manufacturing Science and Technology, 5(2), pp135-150, 2011, Impact Factor:0.78
37	M.Prabhakar , R.Muralimanohar & S.Sendilvelan, "Performance, Emission and Combustion Characteristics of a Direct Injection Diesel Engine with Pongamia Methyl Ester and Diesel Blends, European Journal of Scientific Research", ISSN 1450-216X, Vol. 73 No. 4, 2012, pp. 504-511. May 2011. SCOPUS
38	Venkata Ramesh Mamilla , M.V.Mallikarjun and G.Lakshmi Narayana Rao, "Preparation of Biodiesel from Karanja Oil", International Journal of Energy Engineering, World Academic Publishing, ISSN: 2225-6563 Vol.1 (2), pp.94 – 100, June 2011. SCOPUS
39	M.V.Mallikarjun , Venkata Ramesh Mamilla and G.Lakshmi Narayana Rao, 'Investigations on the Performance an Exhaust Emissions of a Diesel Engine Using Preheated Madhuca Indica Oil as Fuel', International Journal of Mechanical and Production Engineering Research and Development Vol.1 (1), pp.1-15, August 2011, Impact Factor:5.3

2010	
40	R.Murali Manohar , M.Prabhahar and Dr.S.Sendil Velan, “Bio-Diesel production and Effect of Catalytic Convertor on Emission performance with Bio-Diesel Blends”, International Journal of Engineering and Technology, ISSN 0975-5462, Vol. 2(6), pp. 2133-2139, 2010. SCOPUS
41	K.Purushothaman and G.Nagarajan, “Studies on the characteristics of orange oil-diethyl ether in a direct injection diesel engine”, Intl J of Engine Res, Vol.11, pp.219-228, 2010.

PUBLICATIONS IN NATIONAL JOURNALS

2015	
41	D. Devakumar, D.B. Jabaraj, V.K. Bupesh Raja, P. Periyasamy , "Characterization of Duplex Stainless Steel/Cold Reduced Low Carbon Steel Dissimilar Weld Joints by GTAW", Applied Mechanics and Materials, Vol. 766-767, pp.780-788, 2015, Impact Factor:0.15
42	Periyasamy P , Elaiyaraja K, Kavitha K. “Optimization of friction welding process to eliminate forking in Engine Optimization of friction welding process to eliminate forking in Engine valves” Indian Journal of Science, 16(50), pp34-39, 2015, Impact Factor:0.56

2014	
43	P.V Senthil , V .S Mirudhuneka “image grabbing and analysis with efficient heuristic algorithm”, Indian journal of scholarly research, vol.3,issue.5,pp.26-28, 2014, Impact Factor:3.26
44	D.Edison Selvaraj, R.Vijayraj, M.Raj kumar, G.Dhivya, C.Pugazhendhi Sugumaran, M.Rajmal Joshi, D.Krishnamoorthi, J.Ganesan, S.Geethadevi and S.Dinesh kumar ,”Estimation of Losses on 3D Nano Coated Induction Motor” Applied mechanics and Materials Vol.666, 2014, pp 213-217. SCOPUS .

2013	
45	M.V.Mallikarjun , Venkata Ramesh Mamilla and G.Lakshmi Narayana Rao, “Performance, Combustion and Emission Analysis of Diesel Engine Fuelled with Blends of Diesel and Mahua Oil Methyl Esters with Retardation of Injection Timing” Golden Research Thoughts, Vol. 2, Issue. 7, pp 1-11, January 2013, Impact Factor:1.2

2012	
46	R.Murali Manohar , M.Prabhahar and Dr.S.Sendil Velan, “An Experimental Investigation of Thermal Behavior of Engine Fueled with Diesel and Bio-Diesel Blends B20N and B80N”, Indian Streams Research Journal, Vol. 2, Issue 3, pp1-4, April 2012, Impact Factor:2.15
47	Venkata Ramesh Mamilla , M.V.Mallikarjun and G.Lakshmi Narayana Rao, “Biodiesel: The Use of Vegetable Oils and Methyl Esters as Alternative Diesel Fuels” Indian Streams Research Journal Vol. 2, Issue.

	7, pp.74 – 83, Aug 2012, Impact Factor:2.15
48	Thiagarajan. C , Sivaramakrishnan.R and Somasundaram.S,“Modelling and optimization of cylindrical grinding of Al/SiC composites using genetic algorithms”, Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol. XXXIV, No. 1, pp.32-40, 2012, Impact Factor:0.2
49	Venkata Ramesh Mamilla , M.V.Mallikarjun and G.Lakshmi Narayana Rao, “Experimental Investigation of Direct Injection Compression Ignition Engine Fueled With Blends of Karanja Methyl Esters and Diesel” Elixir Thermal Engineering Journal, ISSN:-2229-712X, Vol. 48, pp. 9400-9404, 2012.

2011

50	P. Periyasamy , B. Mohan, V. Balasubramanian and S. Venugopal “Effect of tool rotational speed on Mechanical and Microstructural Properties of Friction Stir Welded Aluminum MMCs”, Journal of Manufacturing Engineering, Vol. 6, Issue 2, pp 127-132, 2011, Impact Factor:0.78
51	Thiagarajan, C , Sivaramakrishnan.R and Somasundaram.S, “ Experimental evaluation of grinding forces and surface finish in cylindrical grinding of Al/SiC metal matrix composites”, Proceedings of the Institution of Mechanical Engineers, Part B, Journal of the Engineering Manufacture, Vol. 225, No. 9, pp.1606-1614, 2011, Impact Factor:0.72

2010

52	R.Murali Manohar , M.Prabhakar and Dr.S.Sendil Velan, “Modeling and Construction of Bio-Diesel processor”, Global Journal of Researches in Engineering, Vol. 10, Issue 7, pp. 55-60, December 2010.
53	Natarajan Palani, Velraj Ramalingam, G.Ramadoss and R.V.Seeniraj, “Study of slip velocity and application of drift-flux model to slip velocity in a liquid-solid circulating fluidized bed”, Journal of Advanced powder Technology, 2010.
54	Thiagarajan.C , Sivaramakrishnan.R and Somasundaram.S, “Cylindrical grinding of Al/SiC metal matrix composites”, Journal of Material Science Research India, Vol. 7, No. 2, 2010

PUBLICATIONS IN INTERNATIONAL CONFERENCES

2015

55	D.S.Jenaris, P.Periyasamy “Production Scheduling Problem Solving Using Genetic and Greedy Algorithms with Sequence Dependent Set-up Times”, International Conference on Emerging Trends in Engineering Research (ICETER’15), pp TER 42-49
56	N.Arunkumar, L.Mahesh Kumar , P. Periyasamy ,“Experimental Investigation to Increase The Mechanical Characterization of Aluminium With Silicon Carbide & Fly-Ash Composite” 2 nd International Conference

	on Futuristic Trends in Mechanical Engineering (ICFTME'2K15), pp A55-60.
57	M.Saravanan and K.Suresh Monic, "Design of Reversible Counter Using URG", International Conference on Green Technologies for Power Generation, Communication and Instrumentation (ICGPC 2015).

2014

58	B.Shanmugam, K.Balagurunathan "Hybrid Energy System in Hybrid Vehicle-State of Art" International Conference on Green technologies for Power Generation & Communication, 2014, pp-110-113
59	B.Shanmugam, K.Balagurunathan "Advantages of sliding order in sliding mode control design" International Conference on Computing, Communication & Electrical Technologies, 2014, pp1-8
60	V.Ramakrishnan , K.Purushothaman and S.Mohammed Ghouse, "Emission Control by Selective Exhaust Gas Recirculation Scavenging System in 2-Stroke Engine", International Conference on Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2014), 22 nd - 24 th February 2014, pp1-5

2012

61	P. Periyasamy , B. Mohan, and V. Balasubramanian "Effect of volume percentage of reinforcement on mechanical and metallurgical properties of friction stir welded AA6061 Aluminum based MMCs" International Symposium on Joining of Materials (SOJOM) Conference on Cutting, Welding and Surfacing (CWS), Published in proceedings, organized by WRI & BHEL Trichy, on 16 th & 17 nd March 2012, pp. ICA 110(1-13).
62	P. Periyasamy , B. Mohan, and V. Balasubramanian "Microstructure and material flow pattern during friction stir welding of AA6061-10% SiCp MMCs" Published in proceedings, Organized by Indian Welding Society (IWS), Welding Research Institute (WRI) and International Welding Symposium (IWS) Mumbai on 18 th -20 th Nov 2012, ICA 057, pp. 85.

2011

63	P. Periyasamy , B. Mohan, and V. Balasubramanian "Effect of heat input on mechanical and metallurgical properties of friction stir welded Al/SiCp composites materials" Published in proceedings, International Conference on Cutting, Welding and Surfacing (CWS 2011), organized by CIT & IWS at Coimbatore, 5 th -7 th Feb 2011, pp. H1-7
64	P. Periyasamy , B. Mohan, and V. Balasubramanian "Predicting the optimum FSW process parameters to weld cast AA6061/10% SiCp MMCs" Published in proceedings, International Welding Seminar (IWS 2011), organized by Bhilai Steel Plant and Indian Institute of Welding, Bhilai Branch, Chhattisgarh on 12 th -14 th Oct 2011, pp. 117-130.

PUBLICATIONS IN NATIONAL CONFERENCES

2015	
65	N.Arunkumar, L.Mahesh Kumar, P. Periyasamy ,“Experimental Investigation to Increase The Mechanical Characterization of Aluminium With Silicon Carbide & Fly-Ash Composite” National Conference on Recent Advances in Mechanical Science (NCRAMS’2K15), ppYN21-26
66	K.Elaiyaraja, P. Periyasamy ,“Optimisation of Process Parameters In Friction Welding of Solid And Hollow Engine Valves”, National Conference on Recent Advances in Mechanical Science (NCRAMS’2K15), pp MG10-15
67	P.Kalaiarasan, P. Periyasamy ,“Optimization of Milling Parameters For Minimizing Surface Roughness Using Taguchi’s Approach” National Conference on Recent Advances in Mechanical Science (NCRAMS’2K15), pp RA-14-24
68	K.Prabhu, P. Periyasamy ,“Finite Element Analysis of Composite Leaf Spring” National Conference on Recent Advances in Mechanical Science (NCRAMS’2K15), pp UT14-17
69	K.Prem Kumar, P. Periyasamy ,“Optimization on Human Hip Prosthesis Using Finite Element Concept” National Conference on Recent Advances in Mechanical Science (NCRAMS’2K15), pp LH32-38
70	V.Raja, P. Periyasamy , “Performance Improvement of Mixed Flow Pump Using Computational Fluid Dynamics” National Conference on Recent Advances in Mechanical Science (NCRAMS’2K15), pp BG16-23
71	Rajesh N, P. Periyasamy , “CFD Analysis of Exhaust Manifold to Improve Performance of Diesel Engine” National Conference on Recent Advances in Mechanical Science (NCRAMS’2K15), pp NH74-78
72	M.Rajkumar, P. Periyasamy ,“Piston Profile Optimization and Fatigue Factor Simulation” National Conference on Recent Advances in Mechanical Science (NCRAMS’2K15), pp FS27-37
73	Ravi Varman M, P. Periyasamy ,“Mechanical Property Analysis of Aluminium And Glass Fibre Composite” National Conference on Recent Advances in Mechanical Science (NCRAMS’2K15), pp GL11-17
74	Apoorva G, Dr. D. Gopinath and Dr. P. Periyasamy , “Shape optimization approach to design of structural components”, National Conference on Recent Advances in Mechanical Science (NCRAMS’2K15), pp GT12-17
75	Ravikumar B, P. Periyasamy ,“Design and analysis of side door impact beam of passenger car using composite materials” National Conference on Recent Advances in Mechanical Science (NCRAMS’2K15), pp MH12-15
76	Vijay Babu. N, P. Periyasamy , “Optimization of Machining Parameters of Wire EDM” National Conference on Recent Advances in Mechanical Science (NCRAMS’2K15), pp ED23-31
77	D.S.Jenaris, Dr.P.Periyasamy “Production Scheduling Problem Solving Using Genetic and Greedy Algorithms with Sequence Dependent Set-up

	Times”, National Conference Proceedings (NCRAMS’15), pp UN 12-19
78	D.Devakumar, D.B.Jabaraj, V.K.Bupesh Raja, and P.Periyasamy “The Influence of Rolling Process on the Mechanical and Metallurgical Properties of CRS, HSLA and HRS Steels – A Literature Review” National Conference Proceedings (NCRAMS’15), pp MS 30-35
79	N. Nagabhooshanam, N. Ramadoss and Dr. P. Periyasamy “Mechanical Characteristics of Al-B4C Nano Composite Material in Dry Condition”, National Conference on Trends in Automotive Parts Systems & Applications (TAPSA’15) pp 22-28
80	J.Sofia, P.Periyasamy “Design for eXcellence (DfX) A paradigm shift in Product Design” National Conference Proceedings (NCRAMS’15), pp GP57-60
81	V.Mohanavel , K.Rajan, S.Arul and P.V.Senthil , “Effect of graphite addition on mechanical behavior of AA6351/SiC hybrid composites”, National Conference On Recent Advances In Mechanical Sciences’15
82	M.Vinoth , “Experimental Analysis on D.I Diesel Engine By Using Algae Methyl Ester”, National Conference on Recent Advances In Mechanical Sciences’15
83	Sathish Kumar D ,”Design And Analysis of Eef & Neef Marriage Equipment For Large Wheel Loader”, National Conference On Recent Advances in Mechanical Sciences’15
84	Vadivel.V.A and Boopathy G.B, “Advance Manufacturing process and implementation of wire EDM to achieve minimum surface roughness of shape memory alloy”, National Conference on Recent Advances in Mechanical Sciences’15
85	Mani Vannan M , “Thermal and Flow Analysis of Counter Flow Concentric Tube Heat Exchanger Using Twisted Tapes In CFD”, National Conference on Recent Advances in Mechanical Sciences’15
86	Parthasarathy .M and S.Baskar , “Numerical Analysis of Hydrodynamic Journal Bearing Lubricated With Bio-Lubricant”, National Conference on Recent Advances in Mechanical Sciences’15
87	P. Shanmugam and S.Baskar , “Finite Element Analysis of Modal Analysis for Composite Material”, National Conference on Recent Advances in Mechanical Sciences’15
88	R.Poiyamozhi, S.Baskar , P.V.Senthil , “Study on Mechanical Behavior of AA6063/TiO ₂ Composites ”, National Conference on Recent Advances in Mechanical Sciences’15
89	Sangameswaran .U , “Design and Analysis of Customized Hydraulic Scissor Lift ”, National Conference on Recent Advances in Mechanical Sciences’15
90	k.J.Jayakumar , “Design and Analysis of Turbine Blade”, National Conference on Recent Advances in Mechanical Sciences’15
91	Rajesh.M , “Effect and Analysis of Impact Response on Stitched and Unstitched Glass Fibre Epoxy Lamination ”, National Conference on Recent Advances in Mechanical Sciences’15
92	S.Prassan kumar, M.Santhosh Kumar and M.Dinesh , “Flow Simulation and analysis of main Refuelling line of Tejas (Light Combat Aircraft)”,

	National Conference on Research & Innovative Development in Aeronautical and Mechanical Engineering (NCRIDAME)
93	Deepan.J and Dinesh M , “Drag Estimation and Flow Field Investigation Around OREX (Orbital Reentry Experiment Vehicle) Typical Reentry Capsule at Mach No. 2.5 & 3.5” National Conference on Research & Innovative Development in Aeronautical and Mechanical Engineering (NCRIDAME)
94	Ramakrishnan V,R.Thamilarasan and K.Purushothaman.K, “Effects of Recirculation In Two Stroke I.C. Engine”, National Conference on Recent Advances in Mechanical Sciences’15
95	P.K.Anbarasan , “Design And Analysis of Helical Spring In Two Wheeler Suspension Systems ”, National Conference on Recent Advances in Mechanical Sciences’15
96	Ramakrishnan V,R.Thamilarasan and K.Purushothaman.K , “Natural Palm Leave Laminate (Pll) Composite Material For Automotive Applications”, National Conference on Recent Advances in Mechanical Sciences’15

2014

97	B.Shanmugam, Dr.K.Balagurunathan “Sliding Mode Chattering Control and Application” National Conference on Power Electronics and Drives, 2014, pp-1-7
98	B.Shanmugam, Dr.K.Balagurunathan “Nonlinear Sliding Control For Non Linear Uncertain Systems” 4 th National Conference on Power Electronics and Power systems, MEPPCON’2014, pp1-8
99	B.Shanmugam, Dr.K.Balagurunathan “Sliding Mode Theory and Application” National conference on Recent advances in power electronics and industrial drives, 2014, pp-269-276
100	P.V Senthil , Aakash Sirushti “Characterization of aluminium fly ash composites using stir casting technique”
101	P.V Senthil , V S Mirudhuneka “CFD Analysis of Centrifugal Pump Using Impeller Parameters” AEIJST’14, Vol.2 ,Issue 5,pp.01-08
102	Pachamuthu S, P.Periyasamy , “Welding cap tip consumption reduction”, National Conference on Recent Advanced Research & Tech. Innovation in Mech. Engg. (NCRARTIME’2k14), pp 63-67
103	Sundaresan K, P.Periyasamy , “Elimination of spot welding separation in fuel filler housing”, National Conference on Recent Advanced Research & Tech. Innovation in Mech. Engg. (NCRARTIME’2k14), pp 22-27
104	Karthikeyan ST, P.Periyasamy , “Elimination of door tear down process”, National Conference on Recent Advanced Research & Tech. Innovation in Mech. Engg. (NCRARTIME’2k14), pp 14-18
105	Satheesh C, P.Periyasamy , “Vibration Analysis on a Propeller Shaft”, 3 rd National Conference on Design, Materials & Construction (NCDMC’2k14), pp 44-51
106	Viji B, P.Periyasamy , “Experimental and investigation of FSW lap joint on Al6061 alloy”, National Conference on Advance Trends in

	Aeronautical & Mech. Engg. (NCATAME'2k14), pp 1-12
107	Arumugam N, P.Periyasamy , "Optimizing the cutting parameters for hard turning of stainless steel", 3 rd National Conference on Design, Materials & Construction (NCDMC'2k14), pp DME22
108	Prasath CK, P.Periyasamy , "Static and Dynamic stress analysis of connecting rod and cost reduction", National Conference on Innovative & Emerging Trends in Engg and Tech (NCIETET2k14), pp 1-9
109	T.Sathish , N.Thinkaran and J.Jeyaprakash, "Optimizing Supply Chain in Reverse Logistics", National Conference on Latest Techniques in Mechanical Engineering-LTIME'2014, 13 th March 2014, pp1-8

2013

110	B.Shanmugam, Dr.K.Balagurunathan "Hybrid Vehicle –State of Art" National conference on I.C Engine and combustion (NCICEC'2013)
111	R.Ramanan, P.Periyasamy , "Process control of spot welding in manual line by PLC programming" National Conference on Recent Trends in Mechanical Engineering (NCRTME'2k13), pp 21-26
112	J.Senthil Kumar, P.Periyasamy , "A comparative study on the microstructures and mechanical properties in the weld region of FSW of aluminum MMCs" Proceeding of National Conference RAMM2k13, pp 6-13
113	Karthikeyan G, P.Periyasamy , "Design of fully automated thermoforming machine" National Conference on Recent Trends in Mechanical Engineering (NCRTME'2k13), pp 55-58
114	Suderson K, P.Periyasamy , "Linear buckling analysis of carbon fiber-epoxy laminated composite plate", National Conference on Recent Trends in Mechanical Engineering (NCRTME'2k13), pp 25-33
115	Jeevarose Shanthi M, P.Periyasamy , "Friction stir welding of steel – An overview" National Conference on Recent Trends in Mechanical Engineering (NCRTME'2k13), pp 77-85
116	Prasath CK, P.Periyasamy , "Static and dynamic stress analysis of two stroke petrol engine connecting rod and cost reduction", National Conference on Recent Trends in Mechanical Engineering (NCRTME'2k13), pp 22-31
117	Selvakumar B, P.Periyasamy , "Wettability studies of SiC Particles in Al alloy" National Conference on Mechanical Sciences (MS'2k13), pp32-45
118	Rajasekaran S, David, P.Periyasamy , "Analysis of MF241DI Clutch Plate with different Material (30Cr13 steel and En15 steel)", National Conference on Mechanical Sciences (MS'2k13), pp 46-54
119	Kannan GK, P.Periyasamy , "Analysis of FSW of Al Alloy AA1100", National Conference on Mechanical Sciences (MS'2k13), pp 55-59
120	Suheal A, David, P.Periyasamy , "Stress analysis of Crank Shaft Subjected to Dynamic Loading" National Conference on Mechanical Sciences (MS'2k13), pp 60-69
121	Vijayakumar V, David, P.Periyasamy , "Delamination Analysis of Fiber Reinforced Polymer Composite Laminates", National Conference on

	Mechanical Sciences (MS'2k13), pp 70-73
122	Senthil Kumar J, P.Periyasamy , “Comparative Study on the Microstructures and Mechanical Properties in the Weld Region of FSW of Al MMCs”, National Conference on Recent Advances in Materials and Manufacturing Engineering (RAMM'13), pp MAT06
123	D.Geetha and S.Jebamani , “Connecting Rod Cross Section Optimization Using Pro-E And Ansys” National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
124	H.Javithbasha and D.David , “Analysis Of Glass Fiber Reinforced Polymer Composites” National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
125	J.Lakshmanan and S.Jebamani , “Design And Analysis of Modular Caliper Assembly” National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
126	P.Sarmaji kumar and D. David , “Design And Performance Analysis of Epocyclic Gear For Tractor” National Conference on Mechanical Sciences(MS'13), St. Peter's University, 14 th & 15 th March 2013.
127	V.Damodaram and D.David , “Vibration Signature Analysis of Cavitation In Centrifugal Pump Using Neural Network” National Conference on Mechanical Sciences(MS'13), St. Peter's University, 14 th & 15 th March 2013.
128	A.Karthikeyan and S.Jebamani , “Modeling And Fatigue Analysis of Automotive Wheel Rim” National Conference on Mechanical Sciences(MS'13), St. Peter's University, 14 th & 15 th March 2013.
129	A.Bharathi , “Quaternion Based Non-Linear Error Modeling of Sdins” National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
130	J.Chandru , “Design And Stress Analysis of A Centrifugal Pump Impeller Using Finite Element Method” National Conference on Mechanical Sciences (MS'3), St. Peter's University, 14 th & 15 th March 2013.
131	P.Saravanan and S.Jebamani , “Design And Analysis of Composite Drive Shaft For Automotive Application” National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
132	S.Arunkumar and S.Jebamani , “Analysis Automotive Composite Leaf Spring Using Ansys” National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
133	B.Sridhar and D. David , “ Design of Biw-Welding Fixture” National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
134	S.Prasath , “Design And Analysis of Latch Tyoe Locating Fixture For Cam Grinding Machine” National Conference on Mechanical Sciences (MS'3), St. Peter's University, 14 th & 15 th March 2013.
135	R.Saravanan and S.Jebamani , “Intelligent Decision Making For Reactive Scheduling In Flexible Manufacturing System” National

	Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
136	R.Sathish and S.Jebamani , "CFD Analysis of Water Pump In Automotive Culling System" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
137	V.Vijay and S.Jebamani , "Design and Development of off Road Vehicle handling By Active Tubular Stabilizer Bar" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
138	G.Antony Casmir Jayaseelan and Mohammed Abudullah , "Optimization of Wire Electrical Discharge Machining (WEDM) Process In Hchr Using Taguchi Method" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
139	S.Arunkumar and S.Jebamani , "Design And Analysis of Automotive Bumper Beam Using Polymer Matrix Composite" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
140	S.Gowthan Sanjai and S. Jebamani , "Experimental Investigation of Vision System For A Humadoid" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
141	S.Hariharan and S. Jebamani and A. Sengolerayan , "Photoframmentry Based Welding Quality Analysis For Semi-Automatic Welding Machine" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
142	M.Arunkumar and D. David , "Design And Development of Unipole Automatic Rotatable Hoarding Structures" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
143	R.R.Ravi and D. David , "Design And Analysis of Split Breaking System" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
144	R.Selvam, S. Jebamani and A. Sengolerayan , "CFD Analysis of Wave Energy Heavemotion In Axisymmetric Cylinder Heave" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
145	R.Senthil and S.Jebamani , "Design And Analysis of Fatigue Stress In Crank Shaft" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
146	B.Rajan and S.Jebamani , "Thermo-Mechanical Analysis of A Circular Composite Plate" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
147	S.Murali Sankar and S. Jebamani , "Optimization of Heavy Truck Chassis Design Parameters Using Finite Element Methods" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
148	C.Ganesan and D.David , "Design And Analyzing of Leaf Drill Jig In Production" National Conference on Mechanical Sciences (MS-13), St.

	Peter's University, 14 th & 15 th March 2013.
149	K.Manigandan and S. Jebamani , "Aerodynamic Design And Analysis of a Car Body" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
150	M.Anand and S. Jebamani , "Design And Structural Analysis of Broaching Tool" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
151	S.Rajasekaran, D.David and P.Periyasamy , "Analysis of Mf242di Clutch Plate With Different Material(30cr13 Steel and En15 Steel)" National Conference on Mechanical Sciences(MS'13), St. Peter's University, 14 th & 15 th March 2013.
152	M.Ramachandran , "Static Analysis of Piston in LCV" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
153	S.Ramesh and A.Sengolerayan , "Design of Heat Engine And Renewable Energy" National Conference on Mechanical Sciences(MS'13), St. Peter's University, 14 th & 15 th March 2013.
154	S.Rajkumar and R.Rajkumar , "Enhancing Aerodynamic Performance of a Blade Tip In Horizontal Axis Wind Turbine" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
155	A.R.Vignesh , "Finite Element Analysis of Compression Screw Used For Small Bone Treatment" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
156	A.Venkatesan , "Design And Analysis of Effect of Draw Bead In Metal Drawing Process" National Conference on Mechanical Sciences (MS-13), St. Peter's University, 14 th & 15 th March 2013.
157	M.Kamatchihariharan and D.David , "Design And Performance Analysis of Single Inlet Multiple Outlet Jet Nozzle With Thrust Vector Control" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
158	R.Selvam, S.Jebamani and A. Sengolerayan , "CFD Analysis of Way Energy Heave Motion In Axisymmetric Cylinder Heave" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
159	M.D.Raj Kamal, P.Periyasamy "CFD Analysis of Dimple over Formula Car" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
160	Sevugaperumal, P.Periyasamy "Investigation and Snag Analysis In Hydraulic System of Boeing 747" National Conference on Mechanical Sciences (MS-13), St. Peter's University, 14 th & 15 th March 2013.
161	M.Mohamed Abdullah , "Modeling Transient Compressible Flow" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th & 15 th March 2013.
162	P.Periyasamy and B.Mohan , "Prediction of Tensile Strength of Friction Stir Welded AA6061 Using Response Surface Methodology" National Conference on Mechanical Sciences (MS'13), St. Peter's University, 14 th

	& 15 th March 2013.
163	A.Suheel, D.David and P.Periyasamy , “Stress Analysis of Crank Shaft Subjected To Dynamic Loading” National Conference on Mechanical Sciences(MS’13), St. Peter’s University,14 th & 15 th March 2013.
164	Kannan.G.K and P.Periyasamy , “Analysis of Friction Stir Welding of Aluminium Alloy Aa1100” National Conference on Mechanical Sciences(MS’13), St. Peter’s University,14 th & 15 th March 2013.
165	V.Vijayakumar, D.David and P.Periyasamy ,” Delamination Analysis of Fiber Reinforced Polymer Composite Laminates” National Conference on Mechanical Sciences (MS’13), St. Peter’s University,14 th & 15 th March 2013.
166	M.Avadi Ammal , “Computer Aided Design Of Flywheel And Four Bar Mechanisms” National Conference on Mechanical Sciences (MS’13), St. Peter’s University,14 th & 15 th March 2013.

2012

167	Bernet Johnson T, P. Periyasamy , “FEA of Fiber Reinforced Plastic acid storage tank” Published in proceedings of National Conference on Innovations in Mechanical Engg (NCIME-2012), pp 143-150
168	K. Mahesh Kumar, P. Periyasamy , “Discontinuity stresses in pressure vessel” Published in proceedings, 2 nd National Conference on Advances in Mechanical Engg, March 2012, pp 84.
169	N. Dhakshinamurthy, P. Periyasamy , “Failure mode & effects analysis in centrifugal pump” Published in proceedings, 2 nd National Conference on Advances in Mechanical Engg, March 2012, pp 91

2011

170	P. Periyasamy , B. Mohan, and V. Balasubramanian “Effect of heat input on mechanical and metallurgical properties of friction stir welded Al6061-20p SiCp composites materials” Published in proceedings, Emerging Research and Advances in mechanical science (ERA-2011), pp 177-182
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2010

171	P. Periyasamy , B. Mohan, and V. Balasubramanian “Mechanical and Microstructural Characteristics of friction stir welded Al6061/SiCp MMCs”, Published in proceedings National Conference on Recent Innovations in Production Engineering (RIPE-2010), pp. C-1-4.
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- b) **Monographs** – Nil
- c) **Chapters in Books** – Nil
- d) **Edited Books** – Nil
- e) **Books with ISBN with details of Publishers** – Nil

f) **Number listed in International Database**(for e.g. web of science, Scopus, Humanities International complete, Dare Database – International Social sciences Directory, EBSCO host, etc) – 18

g) **Citation Index** - range/ average – 3.5

h) **SNIP** - Nil

i) **SJR** - Nil

j) **Impact factor - Range /average:** 0.1- 3.5

k) **H-index-** Nil

l) **Total impact factor-** 33.769

23. Details of Patents and income generated :

Nil

24. Areas of consultancy and income generated :

Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

Nil

26. Faculty serving in a) National Committees b) International Committees c) Editorial Boards

a) Faculty serving in National Committees:

S.No.	Name of the Faculty	Details
1	Dr.L.Mahesh Kumar	<ul style="list-style-type: none"> • Member of the FICCI Educational Panel of Tamil Nadu Centre • Secretary, Indian Institute of Production Engineers, Tamil Nadu Chapter • Advisory member in National conferences. • National Conference on Recent Advances in Mechanical Sciences'2015, Technical Advisory Committee • National Conference on Mechanical Sciences'2013, Technical Advisory

		Committee
2	Dr.P.V.Senthiil	<ul style="list-style-type: none">• National Conference on Recent Advances in Mechanical Sciences Sciences'2015, Organizing Committee• National Conference on Mechanical Sciences'2013, Technical Advisory Committee
3	Dr.P.Periyasamy	<ul style="list-style-type: none">• National Conference on Recent Advances in Mechanical Sciences Sciences'2015, Technical Advisory Committee• National Conference on Mechanical Sciences'2013, Technical Advisory Committee
4	Mr.V.Thiagarajan	<ul style="list-style-type: none">• National Conference on Recent Advances in Mechanical Sciences Sciences'2015, Co-ordinating Committee• National Conference on Mechanical Sciences'2013, Technical Advisory Committee
5	Mr.M.Jayaprasad	<ul style="list-style-type: none">• National Conference on Recent Advances in Mechanical Sciences Sciences'2015, Co-ordinating Committee
6	Mr.R.Praveen kumar	<ul style="list-style-type: none">• National Conference on Recent Advances in Mechanical Sciences Sciences'2015, Co-ordinating Committee
7	Mr.K. Arun	<ul style="list-style-type: none">• National Conference on Recent Advances in Mechanical Sciences Sciences'2015, Co-ordinating Committee
8	Mr.M.Kamal	<ul style="list-style-type: none">• National Conference on Recent Advances in Mechanical Sciences Sciences'2015, Co-ordinating Committee

b) Faculty serving in International committees :

Nil

c) Editorial Boards:

S.No.	Name of the Faculty	Details
1	Dr.P.V.Senthiil	<ul style="list-style-type: none"> Transaction on Engineering and Sciences, Editor
2	Dr.P.Periyasamy	<ul style="list-style-type: none"> National Journal of Manufacturing Engineering, Reviewer International Journal of Multidiscipline Modeling in Materials and Structures, Reviewer
3	Dr.L.Mahesh Kumar	<ul style="list-style-type: none"> Reviewer for different Conferences and Journals.

d) Any other (please specify):

Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops training programs and similar programs).

Year	FDP	Training Prog.	Workshops	Seminars	Conference
2015	-	-	4	-	5
2014	2	1	1	-	-
2013	1	-	-	-	2
2012	-	-	-	-	-
2011	-	-	-	-	-
2010	-	1	-	-	-

Works shops / training program details are given below

S.No	Name of the faculty	Programme	Period	Organized by
1	Mr.M.Jayaprasad	Workshop on Cutting edge technologies for automobile	19.03.15 to 21.03.15	Saveetha School of Engineering
2	Mr.V.Thiagarajan	National Conference on Recent Advances in Mechanical Sciences'15	27.03.15	St. Peter's University

3	Mr.M.Jayaprasad	National Conference on Recent Advances in Mechanical Sciences' 15	27.03.15	St. Peter's University
4	Mr.R.Praveenkumar	Workshop on Research methodology for research scholars	02.03.15 to 08.03.15	Birla Global Institute
5	Mr.R.Praveenkumar	National Conference on Recent Advances in Mechanical Sciences' 15	27.03.15	St. Peter's University
6	Mr.P.Periyasamy	National Conference on Recent Advances in Mechanical Sciences' 15	27.03.15	St. Peter's University
7	Mr.P.Periyasamy	Workshop on Advances in Arc Welding	06.04.15	Annamalai University
8	Mr.P.Periyasamy	Workshop on XFEM based Fracture Mechanics & its Applications	06.10.15	SSN College of Engineering
9	Mr.K.Arun	National Conference on Recent Advances in Mechanical Sciences' 15	27.03.15	St. Peter's University
10	Mr.P.Periyasamy	Fire Safety	15.10.14	St.Peter's University
11	S.Basker	Workshop on Failure analysis and design	26.09.14 to 27.09.14	Sri Venkateswara College of Engineering
12	Mr.K.Arun	FDP on Computational fluid dynamics for heat transfer application	15.12.14 to 17.12.14	Veltech University
13	Mr.R.Praveenkumar	FDP on Computational fluid dynamics for heat transfer	15.12.14 to 17.12.14	Veltech University

		application		
14	Mr.P.Periyasamy	National Conference on Mechanical Sciences' 13	March' 13	St.Peter's University
15	Mr.V.Thiagarajan	National Conference on Mechanical Sciences' 13	March' 13	St.Peter's University
16	Mr.P.Periyasamy	FDP on Entrepreneurship	09.12.13 to 21.12.13	TBI St.Peter's University
17	Mr.P.Periyasamy	ISO 9001:2008 Quality Management & Audit Training	08.10.10 & 09.10.10	Creative Management Consultants

28. Student projects:

- **Percentage of students who have done in house projects including inter departmental projects.**
- **Percentage of students doing projects in collaboration with other universities/industries/institute.**

Year	% of In-house Projects	% of projects in collaboration with other University/ Industry / Institute
B.E Projects		
2011 – 2015	75	25
2010 – 2014	75	25
2009 – 2013	80	20
2008 – 2012	75	25
M.E- Engineering Design		
2013 – 2015	80	20
2012 – 2014	75	25
2011 – 2013	75	25
2010 – 2012	75	25
2009 – 2011	60	40
M.E -CAD/CAM		
2013 – 2015	80	20
2012 – 2014	75	25
2011 – 2013	75	25

2010 – 2012	75	25
2009 – 2011	80	20
M.E -Advanced Manufacturing Tech		
2013 – 2015	100	-
M.E- Thermal Engg		
2013 – 2015	100	-

29. Awards / recognition received at the national and international level by Faculty:

• **Awards and Recognition of Faculty:**

S. No	Name of the faculty	Details
1	Dr P.Periyasamy Prof. Mech	Dr P.Periyasamy as a session chair for the National Conference on Recent Advances in Mechanical Science March'2015 St.Peter's University Dr P.Periyasamy as a session chair for the National Conference in Engineering and Science 2013, Murugappa Polytechnic Chennai Dr P.Periyasamy as a session chair for the National Conference in Mechanical Science 2013, St.Peter's University.
2	Mr.V.Thiagarajan Associate Prof.	Mr.V.Thiagarajan as a session chair for the National Conference on Recent Advances in Mechanical Science March'2015 St.Peter's University

• **Details of Ph.D's awarded in the department**

S. No	Reg.no	Name of the Ph.D Scholar	Title of the Thesis
1.	SP09MEDA53	Mr.Venkata Ramesh Mamilla	Estimation of an optimal blend of biodiesel for diesel engines using artificial neural networks(ANN)
2.	SP09MEDA54	Mr.M.V. Mallikarjun	Experimental investigation of diesel engine fuelled with biodiesel and its blends to reduce emission
3.	SP08MEDA09	Mr.M.Prabhahar	Experimental Studies on Biodiesel (Pongamia oil) Fuelled Direct Injection Diesel Engine With Different Techniques
4.	SP08MEDA10	Mr.R.Murali Manohar	Experimental Investigation of an Engine Fueled with Produced Bio-Diesel (by using two different catalyst) and Blends

• **Awards and Recognition of Student:**

S.No	Student Name & Class	Activity	Organized By	Period	Award received
1	D. Thamilselvan and R.Ragavan / III year	Business Plan in E-Week	EDC, SPU	2014	II prize
2	D. Thamilselvan and R.Ragavan / III year	Paper presentation	St. Josep Engg College	2014	II prize
3	Sevugaperumal / II year	University Exam	SPU	2015	Gold Medal
4	Praveen Kumar / II year	University Exam	SPU	2015	Gold Medal

30. Seminars / Conferences/ Workshops organized and the source of funding (National / International) with details of outstanding participants, if any.

Academic Year	Seminars	Conferences	Workshops
2011 - 2012	-	01	-
2012 - 2013	01	01	-
2013 - 2014	01	-	01
2014 - 2015	-	01	-
Total	02	03	01

S. No	Title of the Programme & period	Convenor/ Co-ordinator	National/ International	Funding Agency
1	National Conference on Non- Conventional Refrigeration and Air conditioning Sciences	Mr. V.Thiyagarajan & Mr..A.Sengolerayan	National	TBI & St.Peter's University

	15.03.2012 & 16.03.2015			
2	National Conference on Mechanical Sciences 14.03.13 & 15.03.13	Dr.P.V.Senthiil Dr.P.Periyasamy	National	St.Peter's University
3	One day Seminar on Advances in CADD & its Applications, 03.09.13	Dr.P.V.Senthiil Mr.Praveen kumar	National	St.Peter's University
4	Two days Workshop on Robotics 04.09.14 & 05.09.14	Dr.P.V.Senthiil Dr.P.Periyasamy	National	St.Peter's University
5	One day Seminar on Importance of CADD In Engg Applications, 29.09.14	Dr.P.V.Senthiil Mr.Praveen kumar	National	St.Peter's University
6	National Conference on Recent Advances in Mechanical Sciences (NCRAMS'2K15), 27.3.15	Dr.P.V.Senthiil Dr.P.Periyasamy	National	St.Peter's University

31. Code of ethics for research followed by the departments

- Researchers must respect the rights, interests and dignity of participants and related persons in research.
- Research must be undertaken in accordance with any relevant common law or legislation.
- Informed consent should normally be obtained from participants.
- Consent itself should be given freely without force or coercion.
- Researchers have an obligation to protect research participants wherever possible from significant harm consequent upon the research.
- The confidentiality of information supplied by research participants and any agreement to grant anonymity to respondents should be respected

- All research involving human participants whether undertaken by academic staff, other university staff or students is to be subject to ethical approval.
- Both the design of research and its conduct should ensure integrity and quality.
- Research is to be undertaken subject to the principle of academic independence. Where any conflicts of interest or partiality arise, these must be clearly stated prior to ethical approval being obtained.

32. Students profile programmes-wise.

Name of the Programme (refer to question no.4)	Applications received	Selected		Pass Percentage	
		Male	Female	Male	Female
B.E Mechanical					
2008-2012	280	240	-	96.47%	-
2009-2013	110	90	-	95.67%	-
2010-2014	150	103	01	94.17%	100 %
2011-2015	120	110	-	100%	-
2012-2016	140	120	-	97.35	-
2013-2017	48	38	-	98.24	-
2014-2018	43	33	-	95.42	-
M.E-Engineering Design					
2008-2010	07	04	-	100%	-
2009-2011	10	05	-	100%	-
2010-2012	30	28	-	100%	-
2011-2013	38	35	-	100%	100%
2012-2014	42	23	01	100%	-
2013-2015	29	17	-	100%	-
M.E-CAD/CAM					
2008-2010	04	03	-	100%	-
2009-2011	07	05	-	100%	-
2010-2012	14	07	01	100 %	100 %
2011-2013	24	18	02	100 %	100%
2012-2014	33	28	02	100%	100%
2013-2015	15	11	-	100%	-
M.E-AMT					
2013-2015	08	04	-	100 %	-
2014-2016	23	12	01	-	-
M.E-THERMAL ENGINEERING					
2013-2015	15	07	-	100 %	-

33. Diversity of students:

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the state	% of students from universities outside the state	% of students from other countries
M.E Engineering Design				
2008-2009	-	100	-	-
2009-2010	-	100	-	-
2010-2011	-	100	-	-
2011-2012	-	100	-	-
2012-2013	-	100	-	-
2013-2014	-	100	-	-
M.E CAD/CAM				
2008-2009	-	100	-	-
2009-2010	-	100	-	-
2010-2011	-	100	-	-
2011-2012	-	100	-	-
2012-2013	-	100	-	-
2013-2014	-	100	-	-
M.E AMT				
2013-2014	-	100	-	-
2014-2015	-	100	-	-
M.E Thermal Engineering				
2013-2014	-	100	-	-

34. How many students have cleared Civil Services and Defense Services examinations, NET, SLET, GATE and other competitive examinations? Give details category-wise.

35.

S. No	Name of the student	Program & Batch	Competitive Exams details
1	Tamilselvan.D	B.E/2011-2015	TANCET -2015 conducted by Anna University
2	Manikandan	B.E/2010-2014	Defense Service

36. Student Progression for last 5 years

Student progression	Percentage against enrolled				
	2010-11	2011-12	2012-13	2013-14	2014-15
UG to PG	-	-	-	-	7%
PG to M.Phil.	-	-	-	-	-
PG to Ph.D.	-	-	-	-	-
Ph.D to Post -Doctoral	-	-	-	-	-
Employed	61.9%	68.4%	67%	30%	61.9%
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	23%	35%	39%	46%	

37. Diversity of staff:

Percentage of faculty who are graduates	
of the same University	10%
From other universities within the state	90%
From Universities from other states	-
From Universities outside the country	-

38. Number of faculty who are awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period.

Period	Programme		
	M.Phil	Ph.D	D.Sc.
2008-09	-	-	-
2009-10	-	1	-
2010-11	-	1	-
2011-12	-	1	-
2012-13	-	1	-
2013-14	-	-	-
2014-15	-	-	-

39. Present details of departmental infrastructural facilities with regards to

a) Library

Our Department library having

- Total no of text Books: 652
- No. of Conference Proceedings: 03
- Question Bank: 10
- No. of Student Project Reports: 300
- No. of Student Project CD: 60
- No. of Project: 20
- 10 Lab manuals
- NPTEL Lectures and also Central Library having about 5000 books, 25 Online Journals related to Mechanical Engineering

b) Internet facilities for staff and students - Yes

- Name of the Internet Provider : NKN+BSNL
- Available Bandwidth : 1 Gbps
- Computers are available in our lab. Students and staffs can access internet from the labs. The university has 1 Gbps internet connectivity

c) Total number of class rooms – 10

d) Class rooms with ICT facility - Yes

The department has 6 UG class rooms and 4 PG class rooms equipped with LCD projector and optional OHP facilities. An air conditioned seminar hall to accommodate about 300 students where in seminars, guest lectures and department meetings are organized.

e) Students Laboratories

- Machine Shop
- Dynamics Lab
- Metrology Lab
- Workshop
- Thermal Lab
- CAD/CAM Lab

f) Research Laboratories - TBI

- CNC Machining Centre
- Rapid Prototype Machine
- DCC – Coordinate Measuring Machine
- Radial Drilling Machine
- Dell Workstations (10 Nos)

40. List of doctoral, post-doctoral students and Research Associates

a) From the host institution/university

S. No	Registration Number	Name of the Ph.D Scholar
1	SP09MEDA37	Mr.V.Thiagarajan
2	SP13ME146	Mr.M.Jayaprakash
3	SP15MED001	Mr. R.Praveenkumar

b) from other institutions / universities:

S. No	Registration Number	Name of the Ph.D Scholar
1	SP11MEDA145	Mr.P.Jayaraman
2	SP11MEDB186	Mr.S.Joyson Abraham
3	SP12MED003	Mr.D.Devakumar
4	SP12MED011	Ms.A.Subrammanian
5	SP12MED022	Ms.Sangeetha Krishnamoorthy
6	SP12MED084	Mr.Bineesh Madhu
7	SP12MED094	Mr.W.Andrew Nallayan
8	SP13ME037	
9	SP13ME038	Mr.V.Mohanavel
10	SP13ME040	Mr. V.Ramakrishnan
11	SP13ME041	Mr.G.Raja
12	SP13ME042	Mr.Pasam Bhagyalakshmi
13	SP13ME042	Mr. Sunitha Racharla
14	SP13ME070	Mr. R.Tamilarasan
15	SP13ME103	Mr. S.Jothy Basu
16	SP13ME104	Mr. F.Fedrick Gnanaraj

17	SP13ME106	Ms.A.Radha
18	SP13ME138	Mr.T.Adithiyaa
19	SP13MED503	Mr.M.D. Vijayakumar
20	SP13MED506	Mr.R.Prabakaran
21	SP13MED507	Mr.D.S. Jenaris
22	SP13MED508	Mr.V.Achuthan
23	SP13MED509	Mr.R.Saravanakumar
24	SP14MED501	Mr.R.Narasimhan
25	SP14MED502	Mr.S.Babu Sasikumar

41. Number of students receiving financial assistance from college, university, government and other agencies.

- Students are receiving financial assistances from University.
- Students are receiving from Government and other agencies.

42. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

- The Department who wish to conduct a particular program first discusses in their faculty meeting and if approved, prepares a draft proposal along with curriculum and the teaching and learning facilities available in the department for conducting that particular course. The proposal is forwarded to the registrar with a request to put up to the Board of Study committee for approval. After approval, the proposal is sent to the University to put up to the Academic Committee of the University for Consideration and approval. The Academic Committee discusses the proposal in detail and if approved the department is permitted to conduct the program with the approval of the concerned statutory body.
- M.E. in Advanced Manufacturing Technology course is conducted to improve the performance of the manufacturing industry through the innovation in manufacturing processes and systems. This course provides the students who have strong science & technology with

additional knowledge in design to address this important local and national need.

- Thermal engineers can get job opportunities in both private and public sectors focus on the design and analyses of different components operating under thermal control, in their work differs by industry and function. Defense, Thermal Plants and railways require thermal engineers to assist in maintenance and design of their machinery. Hence M.E., Thermal Engineering was started.
- Due to non-availability of specialized engineers and lot of opportunity in manufacturing and thermal fields, the course was started. This is also one of the highly remunerative and challenging fields.

43. Does the department obtain feedback from

a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes, as per IQAC we are getting feedback from the faculty on curriculum and as well as teaching learning evaluation, and it is discussed in the HOD meeting. Curriculum and syllabus formulation is carried out by the faculty members of the department collectively. The faculty members also do have representation in the Board of Studies which formally approves the syllabus. The faculty member handling a particular course shall modify certain part of the syllabus based on the need subject to the approval by the Chairman. Minor revisions on the syllabus are carried out when required and major revisions once in every four years based primarily on faculty feedback

b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

The students are given the feedback proforma regarding the course content as well as teacher evaluation. The feedback obtained is analyzed by the department and IQAC.

b) Alumni and employers on the programmes offered and how does the department utilize the feedback?

The suggestions given by the alumni are used for the curriculum development and introduction of new courses and improving placement of students.

43. List the distinguished alumni of the department (maximum 10)

S. No	Name of the Alumini	Batch	Company / Institution	Position
1	Chandra Shekar Choudry	2010-2014	Revolve Valves & Bearings	Assistant Manager
2	Godwin Singh. K	2010-2014	Cenlob industries ltd	Junior Engineer
3	Sharath	2010-2014	Automation Industries Chennai	Service Consultant
4	Balbindar Nayak	2010-2014	Logomilito Pvt Ltd	Senior Manager
5	Marshal Anand	2010-2014	Logomillito Pvt ltd	Service Manager
6	Raj kumar	2010-2014	Deepak industries	Assistant Marketing Head
7.	R.Sakthivel	2011-2015	University of Windsor	Student
8	Ramachandran.R	2011-2015	Steel strips India pvt ltd	Section Engineer
9.	Navin Yuvi	2011-2015	Lanson Toyoto	Admin Manager
10	Hariharan	2011-2015	Vetri Pressings Pvt Ltd	Quality Inspector

44. Give details of student enrichment programmes (special lectures / workshops / seminar) including external experts.

S. No	Event Name	Event Date	External Experts
SPECIAL LECTURES ORGANIZED FROM 2010-2015			
1	Advances in Hydraulic & Pneumatic Systems	07.02.12	Mr.D.Ragaveadar Enrich Pneumatic Systems, Chennai
2	Industries Needs Today	15.03.12	S.Malarvannan GM Plastic Industries, Chennai
3	Non Renewable Energy Sources	22.08.12	Dr.K. Purushothaman Prof. & Head/Mech SPECT
4	Total Quality Management & Applications	14.03.13	K . Senthilkumar CEO, Dukes enterprises Chennai

5	Advanced Development in Machine Tools	24.07.13	Dr.S.Prabu Assistant Manager/ Wheels India Pvt Ltd
6	Simulation and Scheduling	16.07.14	Dr.P.V.Senthil HOD/Mech
7	Advanced Manufacturing Process	21.08.14	Dr.P.Periyasamy Prof./Mech
8	Innovations in Manufacturing Engg	18.09.14	Mr.V.Thiyagarajan AP/Mech
9	Advances in IC engines	22.01.15	Dr.K. Balagurunathan Senior Prof. /Advisor
10	Power plant Engineering	19.02.15	Dr.L. Mahesh Kumar Director Academic
11	Design Against Fatigue	24.03.15	Dr.D.S.Ramachandra Murthy VC, St.Peter's University
12	CFD & its applications on drying of food product	08.07.15	Dr. V.P.Chandra Mohan AP NIT, Warangal
WORKSHOPS ORGANIZED FROM 2010-2015			
1	Management training programme	08.07.10 to 10.07.10	TBI
2	One day workshop on Design & development training programme	15.09.10	TBI
3	One day workshop on Advances in CADD & its Applications	03.09.13	Ranjith Kumar,CADD School, Avadi, Chennai
4	Entrepreneurship Awareness Camp (EAC)	17.3.14 to 19.3. 14	TBI
5	Two days Workshop on Robotics	04.09.14 & 05.09.14	K.Lokesh Wity solutions Chennai
6	Entrepreneurship Awareness Camp (EAC)	4.3.15 to 6.3.15	TBI
SEMINARS ORGANIZED FROM 2010-2015			
1	Seminar Protecting your Ideas - IPR way Programme	23.7.11	TBI
2	Seminar on Mobile Application Development in Android	28.08.12	TBI
3	One Day Seminar on Importance of CADD In Engineering Applications	29.09.14	Vandhana CADD centre, Chennai
PLACEMENT TRAINING ORGANIZED FROM 2010-2015			

1	CNC Training Programme	15.09.10	TBI
2	CNC Milling Machine	24.09.10	TBI
3	Live Life Curriculum	24.02.11	Ms.Jennifer, Smart Training Resources Pvt. Ltd
4	CNC Programming	08.08.11	TBI
5	Live Life Curriculum for 1 st , 2 nd and 3 rd year students	2012-2013	Dr. Kannan Girish Psychiatrist, Ms.Jennifer
6	Training on Analytical and communication skills for final year students	2012-2013	Smart Training Resources Pvt. Ltd, Chennai
7	CATIA V6	05.08.13 to 07.09.13	TBI
8	CNC Programming	07.10.13	TBI
9	CNC Programming	17.09.13 to 24.10.13	TBI
10	CATIA V6	23.09.13 to 25.10.13	TBI
11	CNC Programming	07.01.14 to 31.01.14	TBI
12	Live Life Curriculum for 1 st year students	2013-2014	Dr. Kannan Girish Psychiatrist, Ms.Jennifer
13	Training on Analytical and communication skills for final year students	2013-2014	Smart Training Resources Pvt. Ltd, Chennai
14	CATIA V6	11.08.14 to 17.09.14	TBI
15	CNC Programming	15.09.14 to 28.10.14	TBI
16	Training on Analytical and communication skills for final year students	2014-2015	Smart Training Resources Pvt. Ltd, Chennai
17	CNC Programming	22.07.15 to 05.08.15	TBI

18	Training on Analytical and communication skills for final year students	2015-2016	Smart Training Resources Pvt. Ltd, Chennai
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45. List the teaching methodology adopted by the faculty for different programmes

- Chalk and talk method
- Discussion on Challenging Topics
- NPTEL Lectures
- Our faculty uses some of the modern teaching methodologies to improve the quality of the students. They include the use of LCD projector. Using PPT's the technical concepts were explained clearly.
- To enhance comprehension animated and simulation, videos are shown to the students, so that they can easily understand the concepts.

46. How does the department ensure that programmes objective are Constantly met and learning outcomes are monitored?

- The programme objectives are met through assessment tools which include four continuous assessment tests, assignment and one end semester examination.
- The progress report has been sent to parents for every unit test and model exam.
- Class committee meeting is conducted for improving students performance.
- Getting feedback from students and parents.

47. Highlight the participation of students and faculty in extension activities.

- Students are encouraged to participate in various extension activities by joining University level NSS programme, paper presentation, Sports and extracurricular activities.
- Dr. P. Periyasamy is the Programme Officer in our University, to take part in Social Service Activities through NSS.

Students participated in extension activities like events conducted in symposium and workshops

S. No	Student Name & Class	Activity	Organized by	Period	Award Received
1	Abdul Mohamed Saleem. A 2 nd Year B.E.	Seminar	St.Peter's University	16.04.13	Participated
2	Abdul Mohamed Saleem. A 3 rd Year B.E.	EDC	St.Peter's University	04.03.14 to 05.03.14	II prize
3	Abdul Mohamed Saleem. A 2 nd Year B.E.	Debate	St.Peter's University	16.04.13	I prize
4	Abdul Mohamed Saleem. A 2 nd Year B.E.	Quiz	St.Peter's University	16.04.13	II prize
5	Abdul Mohamed Saleem. A 3 rd Year B.E.	EDC-E-week	St.Peter's University	09.03.15 to 13.03.15	II prize
6	Abdul Mohamed Saleem. A 3 rd Year B.E.	Workshop	Zeal universal motor pvt.ltd	25.01.15 to 26.01.15	Participated
7	Abdul Mohamed Saleem. A 3 rd Year B.E.	Workshop	SSN College of Eng.	10.10.14	Participated
8	Abdul Mohamed Saleem. A 3 rd Year B.E.	Training	SAE india/anna university	26.9.14 to 27.9.14	Participated
9	Abdul Mohamed Saleem. A 3 rd Year B.E.	Workshop	Loyola/icam college of Engg. & Tech.	11.09.14 to 12.09.14	Participated
10	Abdul Mohamed Saleem. A 3 rd Year B.E.	EAC	St.Peter's University	04.03.15 to 06.03.15	Participated
11	Abdul Mohamed Saleem. A 2 nd Year B.E.	Workshop	Revert technology pvt.ltd	17.10.14 to 18.10.14	Participated
12	S.Sasi Kumar 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
13	Arun Kumar 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
14	K.Elaiyaraja 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
15	K.Prabhu 2 nd Year M.E.	Conference	Sri Venkateswara College of Engg	03.03.15	Presented
16	K.Prem Kumar 2 nd Year M.E.	Conference	Vandavasi College of Engg & Tech,	23.02.15	Presented
17	Raj Kumar	Conference	St.Peter's	27.03.15	Presented

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	2 nd Year M.E.		University		
18	P.K.Anbarasan 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
19	Ramakrishnan 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
20	Thamilarasan.R, 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
21	Rajesh.M 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
22	D.Devakumar , 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
23	K.J. Jayakumar 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
24	K.Prabhu 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
25	Sathish Kumar.D 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
26	Ravi Varman. M 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
27	Vadivel V 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
28	Mani Vannan 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
29	Sangameswaran .U 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
30	Parthasarathy .M 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
31	P. Shanmugam 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
32	R.Poiyamozi 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
33	J.Sofia 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
34	Kirpa Shankar 2 nd Year M.E.	Conference	St.Peter's University	27.03.15	Presented
35	S.T.Karthikeyan 2 nd Year M.E.	Conference	P.T.L.C.N College of Engg. &Tech.	14.03.14	Presented
36	K.Sundaresan 2 nd Year M.E.	Conference	P.T.L.C.N College of Engg. &Tech.	14.03.14	Presented
37	S.Pachamuthu 2 nd Year M.E.	Conference	P.T.L.C.N College of Engg. &Tech.	14.03.14	Presented
38	G.Karthikeyan 2 nd Year M.E.	Conference	Magna College of Engineering	06.09.13	Presented
39	C.K.Prasath 2 nd Year M.E.	Conference	Magna College of Engineering	06.09.13	Presented

Students Participated in Sports and NSS activities:

S. No	Student Name & Class	Event	Period	Position
1	V.Reguseelan IV year Mech	Kabbadi	2014-2015	Runner
2	Lokesh IV year ` Mech	Volleyball	2014-2015	Winner
3	Lokesh IV year Mech	Kabbadi	2014-2015	Runner
4	Lokesh IV year ` Mech	Football	2014-2015	Winner
5.	Ram kumar IV year Mech	Football	2014-2015	Runner
6.	M.Karthick IV year Mech	Volleyball	2014-2015	Winner
7.	R.Yuvaraj IV year Mech	Volley ball	2014-2015	Winner
8.	C.Vignesh IV year Mech	Volley ball	2014-2015	Winner
9.	C.P.Rathna kumar IV year Mech	Kabbadi	2014-2015	Runner
10.	A.Mohammed Yunies IV year Mech	Volley ball	2014-2015	Winner
11	Manu M 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Student Coordinator
12	Hariharan M 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
13	Gunasekar V 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
14	Manoj Kumar S 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
15	Beemana Vamsi 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
16	Dinesh Kumar G 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
17	Jayaprakash K 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
18	Lokesh K 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
19	Mariyan T 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
20	Tajamul Sheeraz S 3 rd Yr Mech	NSS camp	21.03.15 to	Volunteer

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			27.03.15	
21	Mohideen Batcha T 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
22	Ram Kumar S 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
23	Siva K 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
24	Samy Ranjith M 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
25	Reguseelan V 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
26	Maria Leenoos Dhas 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
27	Vignesh S 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
28	Sharan Uday .V 3 rd Yr Mech	NSS camp	21.03.15 to 7.03.15	Volunteer
29	Subhu Rakesh C 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
30	Prasanth K 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
31	Kripashankar Kumar 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
32	Reshaf S 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
33	Tamilmani K A 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
34	Pavithran D 3 rd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
35	Saravanan V 2 nd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
36	Fedrick 2 nd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer

37	Srinath 2 nd Yr Mech	NSS camp	21.03.15 to 27.3.15	Volunteer
38	Shriraam R 2 nd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
39	Vignesh R 2 nd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
40	Arun Kumar 2 nd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
41	Kiran Raj 2 nd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer
42	Vinoth Kumar 2 nd Yr Mech	NSS camp	21.03.15 to 27.03.15	Volunteer

48. Give details of “beyond syllabus scholarly activities” of the Department

- The University has Anna University Edu Sat link through which students and faculty have access to the classes which are conducted once a week by senior Professors on selected subjects.
- Conducts periodic guest lectures on cutting edge technologies by inviting Academicians and industry experts.
- Conducts Workshops both for faculty and students to help in acquiring the necessary skills for using modern tools and techniques.
- Conducts Conferences for faculty and students to help in acquiring the necessary skills for using modern tools and techniques.

SYMPOSIUM

S. No	Symposium Name	Date	Chief Guest
1	Antikythera 2k11	12.09.2011	Mr.N.Ragurajan/CEM/GM Industries
2	Equinox 2K13	10.10.2013	Mr J.A. Porselvan, Wing Commander, IAF, Tambaram
3	Hephaestus 2K14	14.10.2014	Mr.Prem Anand Achuthan Senior Managing Consultant-Industrial Supply Chain Sector, IBM india pvt ltd

INPLANT TRAINING/INTERNSHIP

S. No	Student Name	Company Name	Period
1	Sameer prakesh 3 rd Year B.E.	Tata Motors Limited	09.05.15 to 06.05.15
2	R.Karthikeyan 3 rd Year B.E.	Metropolitan Transport Corporation Ltd	01.06.15 to 15.06.15
3	H.Fazil 3 rd Year B.E.	Sung woo hitech india ltd	09.06.15 to 22.06.15
4	Joshua G Rohan 3 rd Year B.E.	KCP ltd	11.05.15 to 16.05.15
5	G, Thinesh Kumar 3 rd Year B.E.	Sungwoo hitech india Ltd	09.06.15 to 22.06.15
6	Abdul Mohamed Saleem. A 2 nd Year B.E.	Experts hub	20.12.14 to 27.12.14
7	Abdul Mohamed Saleem .A 2 nd Year B.E.	Integral Coach Factory	15.05.14 to 22.05.14
8	G,Jothi 2 nd Year B.E.	Integral Coach Factory	26.05.14 to 02.06.14
9	G,Jothi 2 nd Year B.E.	Chennai Port Trust	09.06.14 to 13.06.14
10	V.Gunasekar 2 nd Year B.E.	Chennai Port Trust	15.05.14 to 22.05.14
11	Sameer Prakesh 2 nd Year B.E.	Human resource development centre	19.05.14 to 02.06.14
12	A.Venkatesh 2 nd Year B.E.	Integral Coach Factory	10.06.13 to 17.06.13
13	A.Venkatesh 2 nd Year B.E.	Ashok Leyland	04.06.13 to 08.06.13
14	A.Venkatesh 2 nd Year B.E.	Visteon automotive system India ltd	28.06.13 to 04.07.13
15	Hariharan 2 nd Year B.E.	TVS (Vijai motors)	25.05.13 to 01.06.13
16	Mohan Prasad K 2 nd Year B.E.	Indus Motor co. Pvt.ltd	14.05.13 to 13.06.13

INDUSTRIAL VISIT FOR B.E. STUDENTS

S. No	Year/ Sem	Date	Company Name
1	III year/V	21.07.15	ICF, Chennai
2	II year/III	21.07.15	ICF, Chennai
3	II year//III	03.09.14	Brakes India Ltd, Chennai
4	IV-B Sec/VII	11.07.14	ICF, Chennai
5	IV-B Sec/VII	08.07.14	ICF, Chennai
6	II year/IV	10.01.14	ICF, Chennai
7	IV year A& B Sec/VII	08.10.13	KCP Limited, Chennai
8	II 'B' Sec/IV	04.02.13	ICF, Perambur, Chennai
9	II 'A' Sec/IV	10.01.13	ICF, Perambur, Chennai
10	III 'B' Sec/V	29.10.12	North Chennai Thermal Power Station(NCTPS), Chennai
11	III 'A' & 'B' Sections/V	26.10.12	Chennai Port Trust, Chennai
12	III 'A' Sec/V	24.10.12	TVS, Chennai
13	II 'A' & 'B' Sections	17.10.12	North Chennai Thermal Power Station(NCTPS), Chennai
14	II 'A' Sec/III	18.09.12	Sridhar Casting Centre, Mugappair, Chennai
15	II'B' Sec/V	17.08.11	Auto Tech Pvt Ltd, Chennai
16	II 'B' Sec/IV	19.03.11	Bajaj Group of Industries
17	II 'A' Sec/IV	19.02.10	Bajaj Group of Industries

49. State whether the programme / department is accredited / graded by other agencies?. If yes, give details

The Certification Body of TUV SUD South Asia Private Limited certifies that St. Peter's University has established and applies a Quality Management System and fulfilled the ISO 9001: 2008 standards.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied

- Departments give more thrust on imparting practical knowledge to students
- Encourages the students to share their views about new areas in core Engineering through seminars, mini/ term projects, etc.

- Encourage the students to join with the faculty in their research programmes.
- The syllabus is framed by the Department to provide students with a theoretical as well as practical understanding of the subjects.
- Conferences are conducted to enrich their knowledge.
- Special lectures are organized for the benefit of the students.
- Research scholars are encouraged to publish papers in peer reviewed journals
- Workshops and Training programmes are arranged for students
- PG students are motivated for journal publications.
- The UG students are also motivated to participate in events organized by SAE, BAJA events.

51. Detail five major strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strength

- Location advantage of being in the heart of the city and near many industries.
- Excellent faculty with industry exposure and good academic background
- Faculty published more research papers, in last five years in standard refereed journals, National and International Conferences.
- We are encouraging our students to actively involve in organizing seminars, conference and competitive events which empower them team work and organizing capacity.

Weakness

- Lack of funded research projects.
- Lack of consultancy assignments with industry
- Lack of Communication skills of students

Opportunities

- Scope for more funded projects and funding.
- Scope for more international tie-ups
- More research and consulting projects with industries
- Interdisciplinary research with departments both within and outside the University.
- Involvement of industry in curriculum development and training the faculty and students.

Challenges

- Publishing papers in journals with high impact factor
- To increase our visibility to prospective students across the country
- Academy-Industry interaction, Placement, Consultancy
- Attracting more diverse students with work experience.

52. Future plans of the department

- To strengthen the collaborative research
- To cultivate an interdisciplinary approach among students.
- To introduce certificate course like CREO, solid modeling, 2D and 3D printing, etc.
- To introduce new P.G course like Industrial Design and Computer Integrated Manufacturing.

PHOTO GALLERY



Workshop on Robotics on 04 & 05.09.14



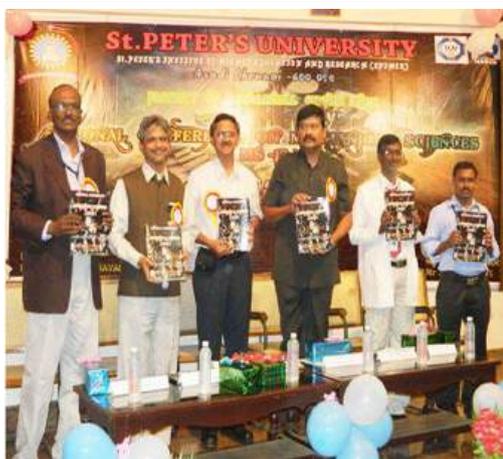
Participation of students and faculty in extension activities March '2k15



Student Participation in SAE, BAJA Project



National Conference on Recent Advances in Mechanical Sciences (NCRAMS' 15)



National Conference on Mechanical Sciences (MS' 13)



Interacting with students during guest lectures



Sports Activities



Industrial Visit in ICF



Laboratories