



MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY
Kalitheerthalkuppam, Madagadipet, Puducherry-605107
Department of Mechanical Engineering
ACTIVITY REPORT (2015-2016)

MAJOR PROGRAMS CONDUCTED (STUDENTS DEVELOPMENT/FACULTY DEVELOPMENT ACTIVITIES): (9 NoS)

1. A guest lecture was organized on 14th July 2015 for the students on the topic **“Final year project and its relevance to future career for engineers”** by Dr K Ragukanthan Professor , Manufacturing Engg, Annamalai University , Chidambaram
2. An interactive social awareness session on the topic, **Suggestions for traffic control in Pondicherry**, was conducted on 3rd September, 2015, by Mr C Maran, Inspector of police- Traffic, Pondicherry
3. A One day Workshop on **“5-S AND KAIZEN PRACTICES”** was conducted on 09th September 2015.
4. A guest lecture was organized on the topic **“Importance of Mechanical, Electrical & Plumbing co-ordination in Construction Industry”** on 11th September 2015, by Mr S Virapan, cluster projet manager , L&T Ltd , Kolkotta
5. A 5 days Faculty development program was organized by ICTACT on the topic **“Autodesk AutoCAD 2015”** on 12th December 2015.
6. A guest lecture A One day Workshop on **“Lean Manufacturing”** was conducted for Mechanical Engineering Students on 05th March 2016.
7. A one day symposium was organized on 08th March 2016 on the topic **“Application of statistics in industry”** by MINITAB , Bangalore
8. A guest lecture was organized on 10th March 2016 on the topic **“Application on 3D Printing”**, by STRATYSYS –DESIGN TECH, Bangalore
9. A guest lecture was organized on 24th Feb 2016 on the topic **“CAD & CAE Techniques in Product Development”** by Detroit engg products

PROGRAMS CONDUCTED FOR INSTITUTIONAL GROWTH : (3 NoS)

1. On account of **World Environment Day, a Mass Rally** was organized by Manakula Vinayagar Institute of Technology, Puducherry in association with The Institution of Engineers (India) and Puducherry State Center on Monday, the **22nd June 2015**.
2. A **Science Mission Project Expo Program** was organized on **30th Jan 2016** by Manakula Vinayagar Institute of Technology, Madagadipet, Puducherry in association with JCI

Pondicherry. A mega talent competition for school students was conducted for 6th std to 12th std students for bringing out their creativity and innovative ideas.

- Electricity conservation awareness rally** in association with Electricity dept, Puducherry was conducted in Thirubuvanai Village of Puducherry by Manakula Vinayagar Institute of Technology on 16-03-2016

PARTICIPATION OF FACULTY IN FDPS / SEMINAR / WORKSHOP: (35 Nos)

No.	Name of the Staff	Event Name	Hosting College	DATE
1	S.Ganesh Kumar	Advanced Teaching Techniques	ICT Training Academy	10th -12th June, 2015
2	R.Karthikeyan	Advanced Teaching Techniques	ICT Training Academy	10th -12th June, 2015
3	K.Selvam	Advanced Teaching Techniques	ICT Training Academy	10th -12th June, 2015
4	G.Radhaboy	Advanced Teaching Techniques	ICT Training Academy	
5	K.Barathiraja	Advanced Teaching Techniques	ICT Training Academy	
6	R.Muraliraja	Advanced Teaching Techniques	ICT Training Academy	
7	K.Manikandan	Advanced Teaching Techniques	ICT Training Academy	
8	B.Vasanth	Advance Manufacturing Technologies for Engineering Sector	Confederation of Indian Industry (CII)	26th June, 2015
9	K.Selvam	Material for Automotive Industries	Sri Manakula vinayagar Engineering College	12th September, 2015
10	S.Ganesh Kumar	Material for Automotive Industries	Sri Manakula vinayagar Engineering College	12th September, 2015
11	K.Barathiraja	Towards Sustainable Municipal Solid Waste Management in Puducherry Region.	Confederation of Indian Industry (CII)	12th Oct, 2015
12	K.Manikandan	Towards Sustainable Municipal Solid Waste Management in Puducherry Region.	Confederation of Indian Industry (CII)	12th Oct, 2015
13	K.Selvam	Brake Friction Material: Past, Present and Future	NIT-Trichy	5th & 6th Nov, 2015
14	S.Ganesh Kumar	Digital Prototyping using AutoDesk Inventor	St Xavier Catholic College of	23rd – 27th Nov 2015

			Engineering - Nagercoil	
15	R.Karthikeyan	Digital Prototyping using AutoDesk Inventor	St Xavier Catholic College of Engineering - Nagercoil	23rd – 27th Nov 2015
16	R.Muraliraja	AutoDesk AutoCADD 2015	Manakula Vinayagar Institute of Technology	8th -12th Dec 2015
17	K.Selvam	AutoDesk AutoCADD 2015	Manakula Vinayagar Institute of Technology	8th -12th Dec 2015
18	R.Karthikeyan	AutoDesk AutoCADD 2015	Manakula Vinayagar Institute of Technology	8th -12th Dec 2015
19	B.Vasanth	AutoDesk AutoCADD 2015	Manakula Vinayagar Institute of Technology	8th -12th Dec 2015
20	K.Manikandan	AutoDesk AutoCADD 2015	Manakula Vinayagar Institute of Technology	8th -12th Dec 2015
21	K.Barathiraja	AutoDesk AutoCADD 2015	Manakula Vinayagar Institute of Technology	8th -12th Dec 2015
22	S.Ganesh Kumar	AutoDesk AutoCADD 2015	Manakula Vinayagar Institute of Technology	8th -12th Dec 2015
23	A.Thiagarajan	Bioenergy Conversion Systems- Modelling and Simulation	Pondicherry Engineering College	14th -18th Dec 2015
24	S.Sheena	Bioenergy Conversion Systems- Modelling and Simulation	Pondicherry Engineering College	14th -18th Dec 2015
25	G.Radhaboy	Bioenergy Conversion Systems- Modelling and Simulation	Pondicherry Engineering College	14th -18th Dec 2015
26	K.Karthigayan	Workshop on DFMA software	Anna University- Chennai	1st -2nd April 2016
27	S.Ganesh Kumar	“Applications of Modeling and Simulation Techniques in Mechanical Engineering”	Pondicherry Engineering College	25th – 29th April 2016
28	A.Thiagarajan	“Applications of Modeling and Simulation Techniques in Mechanical Engineering”	Pondicherry Engineering College	25th – 29th April 2016
29	S.Sheena	“Applications of Modeling and Simulation Techniques in	Pondicherry Engineering College	25th – 29th April 2016

		Mechanical Engineering”		
30	R.Karthikeyan	“Applications of Modeling and Simulation Techniques in Mechanical Engineering”	Pondicherry Engineering College	25th – 29th April 2016
31	Dr.P.Shivashankaran	“World IP Awareness day on patents”	Confederation of Indian Industry (CII)	26th April 2016
32	K.Manikandan	Recent Trends in Power Generation	Pondicherry Engineering College	2nd-6thMay 2016
33	K.Karthigayan	Recent Trends in Power Generation	Pondicherry Engineering College	2nd-6thMay 2016
34	B.vasanth	Recent Trends in Power Generation	Pondicherry Engineering College	2nd-6thMay 2016
35	B.vasanth	“Future of making things and Autodesk Fusion 360”	Autodesk & ICTACT, chennai	3rd May 2016

PARTICIPATION OF FACULTY IN CONFERENCE:

Sl. No	Name of the Conference Year of publication/ Hosting College	Title of the paper	Presented/ published	Name of Staff
1.	Session on waste management, held on 12 october 2015 by chemin C&I Pvt. Ltd., Pudhucherry	Session on waste management	Participated	K. Manikandan & K. Bharathiraja
2.	Conference on future automotive design held on 9 October 2015, Chennai	Conference on future automotive design	Participated	Dr. B. Radjaram
3.	CII Conference on Automotive R&D Trends, t on 7th March 2016 Chennai.	“Strategizing R&D: Meeting the Regulatory Challenges”	Participated	Dr. B. Radjaram
4..	National conference on Advances in Mechanical Sciences (AIMS – 2016). Kumaraguru college of Technology, Coimbatore.	“Improving the efficiency of solar panel by water cooling “	Published	Dr. B. Radjaram
5.	International Conference on Hybrid Energy (ICHESS – 2016), Saveetha Engineering College, Chennai.	Enhancing the efficiency of solar panel by water cooling	Published	Dr. B. Radjaram
6.	National conference on Pure Emphatic Research Innovations In Science and Engineering (PERISE -16), PERI Institute of	“Design and fabrication of pneumatic jack for automobiles”,	Published	Dr. B. Radjaram

	Technology, Chennai.			
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LIST OF PROJECTS APPLIED FOR PATENT RIGHTS

S. NO	Project title	Resource person	Type of patent registration	Patent organization
1	Water pumping systems using river force	Mr.K.selvam	Provisional	IP india,Chennai
2	Fabrication of hydraulics tail stock	Mr.K.Selvam	Provisional	IP india,Chennai
3	Design and fabrication of four wheeler using propeller	Mr.R.Karthikeyan	Provisional	IP india,Chennai
4	Design and fabrication of pneumatic jack using automobile	Dr.B.Radjaram	Provisional	IP india,Chennai
5	Modeling and fabrication of hydraulic mono cylinder shock absorber	Mr.S.Ganesh kumar	Provisional	IP india,Chennai

NO OF INDUSTRIAL VISITS ARRANGED : 8 Nos

RESULTS PRODUCED TILL DATE IN THE DEPARTMENT

No	Semester	Batch I (2012-16)	Batch II (2013-17)	Batch III (2014-18)
1	III	50	27.5 (EEE)	21.5 (EEE)
2	IV	36.44 (EEE)	55	
3	V	68	62.32	
4	VI	84.44 (highest in our group colleges)		
5	VII	82.61		
	VII	91.3		

SIGNIFICANT ACHIEVEMENT BY STUDENTS:

STUDENTS - PROJECT COMPETITIONS : 6 Nos

Sl. No	Name of the Student	Branch/Class	Name of the Project event	organizing Institution	Date	Participation /Prize
1.	S.Santhosh	Mech/II year	Mega Project Expo	SVCET	21/1/16 – 23/1/16	3rd prize Amt Rs.1000
2.	Samuel vijayakumar	Mech/II year	Mega Project Expo	SVCET	21/1/16 – 23/1/16	

3.	Gokulnath.B	Mech/II year	Mega Project Expo	SVCET	21/1/16 – 23/1/16	
4.	S.Santhosh	Mech/II year	AUTIMEET 16	Madras Institute of Technology, chennai	26th & 27th Feb 2016	Winner Amt Rs.5000
5.	B.Gokulnath	Mech/II year	AUTIMEET 16	Madras Institute of Technology, chennai	26th & 27th Feb 2016	
6.	Samuel vijayakumar	Mech/II year	AUTIMEET 16	Madras Institute of Technology, chennai	26th & 27th Feb 2016	

STUDENTS -TECHNICAL EVENTS : 14 Nos

Sl. No	Name of the Student	Branch/ Class	Name of the event	Organizing Institution	Date	Participation /Prize
1.	Aravindan.P	Mech/II year	Robosoccer	Madras Institute of Technology, chennai	12th & 13th Feb 2016	3 rd prize Amt Rs.1000
2.	V.V.Rajan	Mech/II year	Robosoccer	Madras Institute of Technology, chennai	12th & 13th Feb 2016	
3.	Aravindan.P	Mech/II year	Robo Soccer	PSG college of Technology, coimbatore	12th ,13th & 14th Feb 2016	2 nd prize Amt Rs.1200
4.	V.V.Rajan	Mech/II year	Robo Soccer	PSG college of Technology, coimbatore	12th ,13th & 14th Feb 2016	
5.	Aravindan.P	Mech/II year	Robo sumo	PSG college of Technology, coimbatore	12th ,13th & 14th Feb 2016	1 st prize Amt Rs.10000
6.	V.V.Rajan	Mech/II year	Robosumo	PSG college of Technology, coimbatore	12th ,13th & 14th Feb 2016	3 rd prize Amt Rs.300
7.	V.V.Rajan	Mech/II year	Acceleration	Siddaganga Institute of Technology, Tumkur	27th Feb 2016	1 st prize Amt Rs.2500
8.	P.Aravindan	Mech/II year	Acceleration	Siddaganga Institute of Technology, Tumkur	27th Feb 2016	
9.	V.V.Rajan	Mech/II year	Goal	Siddaganga Institute of Technology, Tumkur	27th Feb 2016	1 st prize Amt Rs.3000
10.	P.Aravindan	Mech/II year	Goal	Siddaganga Institute of Technology, Tumkur	27th Feb 2016	
11.	V.V.Rajan	Mech/II year	Mahayudm	Siddaganga Institute of Technology, Tumkur	27th Feb 2016	1 st prize Amt Rs.3000
12.	P.Aravindan	Mech/II year	Mahayudm	Siddaganga Institute of Technology, Tumkur	27th Feb 2016	
13.	V.V.Rajan	Mech/II	Robowars	NITTE Meenakshi	3rd, 4th & 5th	Second prize

		year		Institute of Technology	March 2016	Amt Rs.10000
14.	P.Aravindan	Mech/II year	Robowars	NITTE Meenakshi Institute of Technology	3rd, 4th & 5th March 2016	

ACHIEVEMENT BY STUDENTS IN SPORTS: 10 Nos

S. No	Name of the Student	Year/sem	Name of the sports event	Date of sports event / extracurricular activity	Hosting Institution	Position/ Prize, if any received
1.	M.Jayakumar	III/VI	South Indian Inter Engineering Collegiate T-20	4/01/16 to 12/01/16	SR Engineering college	Winner Amt Rs.20,000
2.	V.Karthikeyan	IV/VII I	South Indian Inter Engineering Collegiate T-20	4/01/16 to 12/01/16	SR Engineering college	
3.	M.Jayakumar	III/VI	National level sports - cricket	10/2/16-14/2/16	Sastra University	Runner Amt Rs.8000
4.	V.Karthikeyan	IV/VII I	National level sports - cricket	10/2/16-14/2/16	Sastra University	
5.	J.Dhamodaran	IV/VII I	Volley ball	4/2/16-7/2/16	VIT	Winner Amt Rs 16,000
6.	T.Ananda Rajann	II/IV	Volley ball	4/2/16-7/2/16	VIT	
7.	T. Amerdha Rajann	II/IV	Volley ball	4/2/16-7/2/16	VIT	
8.	J.Dhamodaran	IV/VII I	Volley ball	26/2/16-27/2/16	VNR VJIET, Hyderabad	Winner Amt Rs 15,000
9.	T.Ananda Rajann	II/IV	Volley ball	26/2/16-27/2/16	VNR VJIET, Hyderabad	
10.	T. Amerdha Rajann	II/IV	Volley ball	26/2/16-27/2/16	VNR VJIET, Hyderabad	

Mr Anand P (2012-16 batch) was shortlisted for the semifinalist round in **Gogreen global contest** by **Schneider Electric Germany** for his project titled “Improving The Efficiency Of Solar Photovoltaic Panel By Using Air And Water A Comparative Study” as one among 136 projects selected worldwide

