

**MURUGAPPA POLYTECHNIC COLLEGE, Sathyamurthy Nagar, Chennai -62.**  
**Consolidated List of Publications and**  
**Papers presented in Conferences, Seminars, Workshops, Symposia.**

S.No	Department	From the year 2012 to 2021	
		No .of papers published in Journals	No of papers presented in Conferences
1	General Engineering	02	01
2	Civil Engineering	17	-
3	Computer Engineering	02	02
4	Electrical Engineering	17	--
5	Electronics Engineering	02	02
6	Electronics (Robotics)	08	05
7	Mechanical Engineering	24	21
8	TDM Engineering	16	07
9	Physical Education	11	--
	<b>Total</b>	<b>89</b>	<b>38</b>

**Dept: GENERAL ENGINEERING/ CHEMISTRY****Mrs.K.Rajalakshmi, Lecturer/ Chemistry**

## 1. Publications

S. No.	Title of paper	Name of the journal Month and year of acceptance	Publication details Vol. No., Pg. No, Month, Year	ISSN/ ISBN Number
01	Assessment of Groundwater quality in Vellore district, Tamilnadu, India.	Academy of Agriculture journal, AAJ ,April 2016	Journal1;2 April 2016 (31-34)	
02	A Study on Hydrogechemical Characteristics of Agaram Aru wastershed, Vellore District of Tamilnadu,India	International Journal of applied and Pure Science and Agriculture ,IJAPSA, August 2016	IJAPSA VOL 02,ISSUE 08,AUGUST 20126	e- ISSN2394-5532  p-ISSN 2394-823X

## 2. Papers presented in Conferences, Seminars, Workshops, Symposia

Year	S. No .	Title of the paper presented	Title of Conference/Seminar	Date(s) of the event	Organized by	Whether International/ National/State/Regional/University or College Level
2012	1.	Assessment of Groundwater quality in Vellore district, Tamilnadu, India.	34 <sup>th</sup> IIG National conference on 'Natural Resource Management and Decentralised Planning" at centre for Earth Science studies, Tiruvananthapuram,Kerala.	13.12.2012	IIG	National conference

Head of Dept / Dept. In-Charge

**Dept: Civil Engineering**

**Faculty: A.A.Dhanraj, HOD/Civil**

1. Publications

S. No.	Title of paper	Name of the journal Month and year of acceptance	Publication details Vol. No., Pg. No, Month, Year	ISSN/ ISBN Number
01	An Experimental Study on Partial Replacement of Fine Aggregate With E-Waste Material (Fr-4) In M30 Grade of Concrete	International Journal of Applied Engineering Research	Research India Publications. Volume 10, Number 9 (2015)pp. 22835-22842	ISSN 0973-4562
02	A Comparative Study on Thermal Insulation Properties of Partial Replacement of Fine Aggregate by E-Waste Material (FR-4) In M30Grade with Conventional Concrete	Key Engineering Materials	Trans Tech Publications, Switzerland. Vol.692, pp 104-109.doi:10.4028/www.scientific.net/ KEM.692.1 04 © 2016	ISSN: 1662-9795,
03	An Experiment Investigation On Concrete By Using E-Waste As Fine Aggregate And Enhanced The Thermal Insulation And Ultrasonic Properties	International Journal of Civil Engineering and Technology (IJCIET)	IAEME Publication Volume 8, Issue 12, December 2017, pp. 392–399, Article ID: IJCIET_08_12_045	ISSN Print: 0976-6308 and ISSN Online: 0976-6316
04	An Experimental Study to Analyze the Strength and Thermal Insulation Properties of E-Waste (FR-4) Concrete with Partial Replacement of Fine Aggregate	International Journal of Innovative Research in Science, Engineering and Technology	Vol. 6, Issues 1, January 2017	ISSN (Online): 2319-8753 ISSN (Print) : 2347-6710
05	Performance Studies on Strength, Thermal and Acoustic Properties on Concrete Panels with	GEINTEC	Vol. 11 No.3 (2021)	ISSN: 2237-

	E-Waste (FR4) as Partial Replacement of Fine Aggregate			0722
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2. Papers presented in Conferences, Seminars, Workshops, Symposia

Year	S. No	Title of the paper presented	Title of Conference/Seminar	Date(s) of the event	Organized by	Whether International/ National/State /Regional/University or College Level
NIL						

**Faculty:K.N.Janardhanan/Lecturer,Civil Engg.**

1. Publications

S. No.	Title of paper	Name of the journal Month and year of acceptance	Publication details Vol. No., Pg. No, Month, Year	ISSN/ ISBN Number
1	Effect of size of coarse aggregate on concrete	International Journal of Advanced Research in Innovative Discoveries in Engineering and Applications (IJARIDEA)	Volume-1, Issue 1, Page No.34 to 37 , October 2016	ISSN: 2456-8805
2	Experimental investigation on improving the strength of pervious concrete using Rice Husk ash and silica fume as admixtures.	International Journal on Engineering Technology and Sciences (IJETS)	Volume-3, Issue 10, Page No.64 to 68 , October 2016	ISSN (O): 2349-3976, ISSN (P): 2349-3968
3	Performance of concrete by partial replacement of copper slag as fine aggregate	International Journal of Advanced Research in Management, Architecture, Technology and Engineering (IJARMATE)	Volume-2, Issue 11, Page No.29 to 32 , November 2016	ISSN (O): 2454-9762, ISSN (P): 2454-9762
4	Experimental study on compressive strength of concrete by partial	International Journal of Advanced Research in Innovative Discoveries in Engineering and Applications	Volume-2, Issue 4, Page No.9 to 12 , August 2017	ISSN: 2456-8805

	replacement of waste rubber as fine aggregate	(IJARIDEA)		
5	Light weight concrete using Foam	International Journal of Advanced Research in Innovative Discoveries in Engineering and Applications (IJARIDEA)	Volume-2, Issue 5, Page No.28 to 32 , October 2017	ISSN: 2456-8805
6	Experimental study on compressive strength of concrete by partial replacement of waste asbestos sheet.	International Journal on Engineering Technology and Sciences (IJETS)	Volume-4, Issue 10, Page No.1 to 4 , October 2017	ISSN (O): 2349-3976, ISSN (P): 2349-3968
7	Behaviour of concrete in compression by partial replacement of e- waste	International Journal of Innovative Research in Technology (IJIRT)	Volume 5 Issue 1 Page No 617 , June 2018	ISSN: 2349-6002
8	Experimental study on cement concrete with PVC powder and quarry dust as partial replacement to fine aggregate	International Research Journal of Engineering and Technology (IRJET)	Volume 5 Issue 6 Page 1397 , June 2018	ISSN: 2395-0056
9	Experimental study on compressive strength of concrete by partial replacement of waste foundry sand	International Journal for Scientific Research & Development (IJSRD)	Volume 6 Issue 04, Page 778 , June 2018	ISSN: 2321-0613
10	Compressive strength of concrete by Partial replacement of coconut shell as fine aggregate	International Journal on Engineering Technology and Sciences (IJETS)	Volume-5, Issue 7, Page No.7 to 9 , October July 2018	ISSN (O): 2349-3976, ISSN (P): 2349-3968
11	Compressive strength of concrete using coconut fibre	International Journal of Advanced Research in Management, Architecture, Technology and Engineering (IJARMATE)	Volume-4, Issue 8, Page No.162 to 167 , August 2018	ISSN (O): 2454-9762, ISSN (P): 2454-9762
12	Experimental investigation on cement block with	International Journal of Advanced Research in Management, Architecture, Technology and Engineering	Volume-4, Issue 9, Page No.39 to 43 , September 2018	ISSN (O): 2454-9762, ISSN

soil in-filled plastic bottles.	(IJARMATE)		(P): 2454-9762
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2. Papers presented in Conferences, Seminars, Workshops, Symposia

Year	S. No	Title of the paper presented	Title of Conference/Seminar	Date(s) of the event	Organized by	Whether International/ National/State/Regional/University or College Level
NIL						

Head of Dept./Civil

**Dept: Computer Engineering**

**1. Publications**

S. No.	Title of paper	Name of the journal Month and year of acceptance	Publication details Vol. No., Pg. No, Month, Year	ISSN/ ISBN Number
01	IOV-A Novel mechanism for initiating Secure vehicle data transmission using PSO with Two Phase Authentication	SpringerLink 2 <sup>nd</sup> March 2021	Journal of Ambient Intelligence and Humanized Computing  Crossref DOI link: <a href="https://doi.org/10.1007/S12652-021-03079-Y">https://doi.org/10.1007/S12652-021-03079-Y</a>  15 <sup>th</sup> March 2021	Electronic ISSN: 1868-5145  Print ISSN: 1868-5137
02	Efficient Privacy Preserving Authentication for Vehicular Adhoc Networks	ARPJ Journal of Engineering and Applied Sciences	Vol.10, No.20, November 2015  Page No.9233-9240	ISSN: 1819-6608

**2. Papers presented in Conferences, Seminars, Workshops, Symposia**

Year	S. No	Title of the paper presented	Title of Conference/Seminar	Date(s) of the event	Organized by	Whether International/ National/State/Regional/University or College Level
2019		Vehicles Communications	AISGSC 2019	4 <sup>th</sup> & 5 <sup>th</sup> January	PSG College of Technology,	National

		using different algorithms in Vehicular Adhoc networks		2019	Coimbatore	
2018		A Novel Two phase authentication Mechanism for integrated messaging Intelligent Transport System	ICCCA 2018	14 <sup>th</sup> & 15 <sup>th</sup> December 2018	Galgotias University, Greater Noida, UP.	International

HOD/Computer Engg.

**Dept: Electrical and Electronics Engineering**

Mrs.P.S.Sanathi. Lecturer (Sel.Gr)

S. No.	Title of paper	Name of the journal Month and year of acceptance	Publication details Vol. No., Pg. No, Month, Year	ISSN/ ISBN Number
01	Monitoring of Ocean by Acoustic Waves	IJETS, February - 2013	Special Volume II, Issue II,1-3, February - 2013	2349-3968
02	Blood Flow Acoustic Analysis	IJETS, August – 2013	Special Volume II, Issue VIII,1-3, August – 2013	2349-3968
03	I-Medical App	IJETS, February 2014	Special Volume III, Issue II,1-4, February – 2014	2349-3968
04	Smart Kitchen System	IJETS , August 2014	Vol.1, Issue IV, 419 – 421,August 2014	2349-3968

S.No.	Title	Journal with Vol. Year & Page No.	ISSN/ ISBN No.
1	Efficient Utilization of Regenerative Power using super capacitor in Electric Vehicles	International Journal on Engineering Technology and Sciences -IJETS, Vol. II , Issue II , 84 -86, February 2015	2349 - 3968

2015-16	2	Power Theft indication of Energy Meter GSM Technology	International Journal of Advanced Research in Management, Architecture, Technology and Engineering, IJARMATE, Vol. I, Issue I, August 2015, pg. 33-35	2454-9762
	3	Wearable Antenna for Premature Baby	International Journal of Advanced Research in Management, Architecture, Technology and Engineering (IJARMATE), Vol. 2, Issue 2, February 2016, pg. 74-77	2454-9762
	4	Speech Signal Processing with wavelet transform	International Journal of Advanced Research in Management, Architecture, Technology and Engineering, IJARMATE, Vol. 2, Issue 8, August 2016, pg. 112-115	2454-9762
2016-17	1	Smartcard and GPS Based Automatic Bus Ticketing System for Travelled Distance	International Journal of Advanced Research in Management, Architecture, Technology and Engineering (IJARMATE), Vol. III, Issue VI, June 2017, pg. 40-45	2454-9762
	2	Wifi Based Wireless Heart Rate Monitoring and Alerting System	International Journal of Advanced Research in Management, Architecture, Technology and Engineering (IJARMATE), Vol. III, Issue VII, July 2017, pg. 23-27	2454-9762
	3	Accident Preventer in Roadways	International Journal of Advanced Research in Innovative Discoveries in Engineering and Applications [IJARIDEA] Vol 2., Issue 4, August 2017, pg. 9-13	2456-8805
2017-18	1	Load Control System Using DTMF in Agriculture	International Journal of Advanced Research in Management, Architecture, Technology and Engineering (IJARMATE), Vol. IV, Issue VI, June 2018, pg. 32-36	2454-9762
	2	Voice Controlled Wheel Chair for Physically Disabled Person	International Journal of Advanced Research in Management, Architecture, Technology and Engineering (IJARMATE), Vol. IV, Issue VII, July 2018, pg. 90-93	2454-9762
	3	Temperature, Light Monitoring and Controlling System	International Journal of Advanced Research in Innovative Discoveries in Engineering and Applications [IJARIDEA] Vol 3., Issue 4, August 2018, pg. 19-22	2456-8805
2018-19	1	Gesture control of wheel chair using accelerometer Sensor	International Journal of Advanced Research in Innovative Discoveries in Engineering and Applications [IJARIDEA] Vol. 4, Issue 1, February 2019, pg. 29-33	2456-8805
	2	Efficient H6 Inverter	International Journal of Advanced Research in Management, Architecture, Technology and Engineering (IJARMATE), Vol. 5, Issue 2, February 2019, pg. 17-24	2454-9762
	3	Automatic Switchgear System for avoiding voltage fluctuations in power plant	International Journal on Engineering Technology and Sciences -IJETS, Vol. VI, Issue II, February 2019, pg. 37-40	2349-3968



**Dept: Electronics and Communication Engineering****1.Publications**

<b>S. No.</b>	<b>Name of the Faculty</b>	<b>Title of paper</b>	<b>Name of the Journal Month and year of acceptance</b>	<b>Publication details Vol. No., Pg. No, Month, Year</b>	<b>ISSN/ ISBN Number</b>
01	Mr.E.Senthil Velmurugan, DIC / ECE	Accident preventing Smart Helmet using Atmel Controller	International Journal of Engineering Technology,	International Journal of IT, Engineering and Technology, Volume 4, issue 3, 2018	ISSN 2395-1303

<b>S. No.</b>	<b>Name of the Faculty</b>	<b>Title of paper</b>	<b>Name of the Journal Month and year of acceptance</b>	<b>Publication details Vol. No., Pg. No, Month, Year</b>	<b>ISSN/ ISBN Number</b>
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02	Mrs.B.Sharmila, Lect / ECE	Coverage Area based Routing in MANETS	International Journal of IT, Engineering and applied Sciences Research (IJIEASR), Feb 2014	International Journal of IT, Engineering and applied Sciences Research (IJIEASR), Volume 3, No. 2, Pg. No. 41, Feb 2014	ISSN 2319- 4413
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## 2. Papers presented in Conferences, Seminars, Workshops, Symposia

Year	S.No	Author	Title of the paper presented	Title of Conference/ Seminar	Date(s) of the event	Organized by	Whether International/ National/State/R egional/Universit y or College Level
2022	1	1. Mrs.B.Sharmila, Lect / ECE	Wireless EMG Controlled Prosthetic Hand	International Conference on Advancement in Nano Electronics and Communicatio n Technologies (ICANCT – 2022)	24th- 26th Feb 2022	Department of ECE, Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur (India) and Institute of Engineers (India), Rajasthan State Centre, Jaipur in association with CSIR – IMMT: in	International Conference
		2. Mr.E.Senthil Velmurugan, DIC / ECE					
		3. G.Gayathri, Lect / ECE					
2022	2	1. G.Gayathri, Lect / ECE	Smart Chess Board	International Conference on Signal Processing & Machine Learning Applications	11th – 12 <sup>th</sup> March 2022	Department of ECE, Vasavi College of Enggineering (Autonomous) Hyderabad, Telangana State, India.	International Conference
		2. Mr.E.Senthil Velmurugan, DIC / ECE					
		3. Mrs.B.Sharmila, Lect / ECE					

Dept. In-Charge/ECE

**Dept: Electronics (Robotics)**

1. Publications

S. No.	Title of paper	Name of the journal Month and year of acceptance	Publication details Vol. No., Pg. No, Month, Year	ISSN/ ISBN Number
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01	Effect of acetylene addition on performance emission and combustion characteristics of neem biodiesel and corn biodiesel-fueled CI engine. <b>(Dr.K.Balasubramanian)</b>	Journal of Thermal Analysis and Calorimetry <b>Springer</b> International Publishing (Web of science) <b>15/04/2019</b>	Volume 138 No 2, P .No 1405-1414 Published on 26th <b>April 2019</b>	<b>ISSN</b> 1388-6150 <a href="https://doi.org/10.1007/s10973-019-08269-7">https://doi.org/10.1007/s10973-019-08269-7</a>
02	Effect Of Acetylene addition In Safflower Biodiesel Fueled CI Engine-An Experimental Study <b>(Dr.K.Balasubramanian)</b>	Energy Sources, Part A: Recovery, Utilization, And Environmental Effects <b>Taylor&amp; Francis</b> (web of science) <b>21/09/2019</b>	Published on 17 <sup>th</sup> <b>October 2019.</b>	<b>ISSN</b> 1556-7036 (Print) 1556-7230 <a href="https://doi.org/10.1080/15567036.2019.1678700">https://doi.org/10.1080/15567036.2019.1678700</a>
03	Performance, emission and combustion Characteristics of safflower biodiesel, Neem biodiesel and corn Biodiesel- fuelled in a CI engine <b>(Dr.K.Balasubramanian)</b>	Nature Environment and pollution Technology <b>(NEPT)</b> <b>(Scopus Indexed journal)</b> <b>21/06/2019</b>	Vol. 18,No.4, <b>Dec 2019</b>	p-ISSN: 0972-6268 e-ISSN: 2395-3454
04	An experimental investigation of metal matrix composites of aluminium (Lm6),boron carbide and fly ash <b>(Dr.K.Balasubramanian)</b>	Australian journal of basic and applied sciences. <b>(Scopus Indexed journal)</b>	10(1) January 2016, Pages: 137-144	ISSN:1991-8178 EISSN: 2309-8414
05	Reduction of HC/CO Emission From SI Engine By Using Transition Metal Oxide Catalyst <b>(Dr.K.Balasubramanian)</b>	International journal of applied Engineering research. <b>(Scopus Indexed journal)</b>	Volume 10, Issue 4 (2015)  Page No 11385-11392	ISSN 0973-4562
06	Real time traffic light control using fuzzy logic	International Journal of Applied Engineering	Vol. 10 No.55 (2015)	ISSN 0973-4562

	<b>(Mrs.C.Jayalakshmi)</b>	Research (IJAER)	Pg no 327 to 330 & 2015	
07	Design of high speed arithmetic circuits using 64-bit parallel prefix adder <b>(Mrs.C.Jayalakshmi)</b>	International Journal of Applied Engineering Research (IJAER)	Volume 10, Number 17 (2015) Pg no 12972 to 12975 & 2015	ISSN 0973-4562
08	Analysis of Brain Tumor Using Intelligent Techniques <b>(Mrs.C.Jayalakshmi)</b>	International Conference on Advanced Communication Control and Computing Technologies (ICACCCT) & May 2016	Pg no 48 to 52, May 2016	ISBN No.978-1-4673-9544-1

## 2. Papers presented in Conferences, Seminars, Workshops, Symposia

S.No	Year	Title of the paper presented	Title of Conference/ Seminar	Date(s) of the event	Organized by	Whether International/ National/State /Regional/University or College Level
1	2019	Transesterification and Properties assessment Of Neem, Safflower And Corn Oil For CI Engine Applications. <b>(Dr.K.Balasubramanian)</b>	International conference on Biomass, Fuel and chemicals, <b>Bifuchemi19,</b>	From (12/09/2019) to (13/09/2019)	Annamalai University	International Level
2	2019	Experimental Investigation On CI Engine Fuelled With Acetylene Gas And Safflower Oil <b>(Dr.K.Balasubramanian)</b>	National Conference on Emerging Trends in Mechanical Engineering and its applications <b>NCETMEA 19”.</b>	02/04/2019	SRMISTE Chennai.	National Level

3.	2015	Coin based mobile charger <b>(Mrs.C.Jayalakshmi)</b>	8 <sup>th</sup> National Conference	25/03/2015	Department of EEE & ECE, S.A.Engineering College	National Level
4.	2015	Traffic light control using Image Processing <b>(Mrs.C.Jayalakshmi)</b>	NS2 Workshop	30/07/ 2015	Department of Electrical and Electronics Engineering,SA Engineering College	College Level
5.	2015	Neural Network Based Brain Tumor Detection by Using Near Infrared Imaging Technology <b>(Mrs.C.Jayalakshmi)</b>	Symposia,EX URO 2K15	08/09/2015	Department of Electrical and Electronics Engineering, SA Engineering College,	College Level

**Head of Dept./E(R)**

**Dept: Mechanical Engineering**

1 .Publications

S. No.	Title of paper	Name of the journal Month and year of acceptance	Publication details Vol. No., Pg. No, Month, Year	ISSN/ ISBN Number
<b>Dr.K.S.Sekar</b>				

01	Microstructural Studies on Cryogenically treated High Carbon High Chromium D3 Cold work tool steel used in hole piercing operation on Chain component	Journal of Advances in Chemistry. February 2017	Volume 13, Number 6, Page. 6266-6272, February 2017	ISSN: 2321-807X
02	Finite Element Simulation of Punch Shear during Hole Piercing in Auto Chain Components	International Journal of Vehicle Structures & Systems, October 2016	Volume 9, No. 3, Page 177-181, September 2017	ISSN: 0975-3060 (Print), 0975-3540 (Online)
03	Enhancement of Wear Resistance of D-3 Piercing Punches by Applying Cryogenic Treatment: Field and laboratory Investigations	Transactions of FAMENA, March 2018	Volume 42, No. 3, pp. 71-86 October 2018	ISSN: 1333-1124 (Print) 1849-1391 (Online)
04	Study of Machining on High Carbon High Chromium Die Steel using Wire Cut EDM under various conditions	International Journal of Trend in Scientific Research and Development, June 2018	Volume 2, Issue – 4, Page 2135 – 2140, May-June 2018	ISSN: 2456-6470
05	Experimental Investigation of B4C/AL Metal Matrix Composite for enhanced Mechanical Properties.	International Journal for Scientific Research & Development, June 2018	Volume 6, Issue – 4, Page 801 – 806, June 2018	ISSN: 2321-0613 (Online)
06	Experimental Study of Process Parameters and Optimization of MRAF Process	International Journal of Innovative Research in Technology, June 2018	Volume 5, Issue – 1, Page 691 – 696, June 2018	ISSN: 2349-6002 (Online)

07	Effects of varying punch-die clearances during hole piercing in chain components – a simulated experimental study	Journal of Manufacturing Engineering,	Vol. 14, Issue. 4, pp 148-153, December 2019	ISSN 0973-6867
08	An approach to the development of Arduino based multi-purpose compact low-cost CNC laser wood engraving and paper cutting machine	International Journal of Research Publication and Reviews	Vol 3, no 5, pp 2430-2438, May 2022	ISSN 2582-7421
<b>Mr. K.Rajan</b>				
01	Design and Fabrication of Bluetooth Controlled Automatic Two Axis Drilling Machine	International Journal of Advance Research in Management, Architecture, technology & Engineering	Volume 2, Issue – 1, Page 41-45 January 2016	ISSN :2454-9762 (Online)
02	Design and Fabrication of Smart Mobile Dustbin	International Journal of Engineering technology and Sciences	Volume 3, Issue – 1, Page 37-40 January 2016	ISSN : 2454-3976 (Online)
03	Design and Fabrication of air pressure maintaining system on vehicle tyre	International Journal of Advance Research in Management, Architecture, technology & Engineering	Volume 2, Issue – 1, Page 37-40 January 2016	ISSN : 2454-9762 (Online)
04	Hybrid power generation Using solar and wind energy	International journal of mechanical engineering research and development	Volume 1 Issue – 1, Page 74-81 January 2016	ISSN : 2248-9355 (Online)
05	Design and Fabrication of pneumatic control mechanical Arm	International journal of mechanical engineering research and development	Volume 6 Issue – 1, Page 84-92 January 2016	ISSN : 2248-9355 (Online)
06	Design and Fabrication of Automatic sewage cleaning system	International journal of mechanical engineering research and development	Volume 6 Issue – 1, Page 74 - 83 January 2017	ISSN : 2248-9355 (Online)
07	Design and fabrication of auto charging grinding machine using solar power	International journal of innovative research in Technology(IJIRT) June 2018	Volume 5, issue 1, June 2018 Pg. No. 502 to 508	Paper Id-146667 ISSN: 2349-6002



08	Multipurpose Agricultural Machine	International journal for scientific research and development (IJSRD)June 2018	Volume 6, Issue 4, June 2018 Pg. No.506 to 508	No-357670 ISSN: 2321-0613
09	An approach for twist drill wear study using image processing	International journal of innovative research in Technology(IJIRT) June 2018	Volume 5, issue 1, June 2018 Pg. No. 541 to 547	Paper Id-146703 ISSN: 2349-6002
10	Design and fabrication of mini CNC plotter	International journal of innovative research in Technology(IJIRT) June 2018	Volume 5, issue 1, June 2018 Pg. No. 450 to 453	Paper Id-146666 ISSN: 2349-6002
11	Design and fabrication of 360-degree flexible drilling machine	International journal for scientific research and development (IJSRD)June 2018	Volume 6, Issue 4, June 2018 Pg.No.501 to 505	No-357669 ISSN: 2321-0613
12	Finite element analysis of bicycle wheel	International Research Journal Of Engg & Tech(IRJET)June 2018	Volume 5 Issue 6 June 2018 Pg.No.949 to 956 Impact Factor – 6.17	e-ISSN 2395-0056 p-ISSN 2395-0072
<b>Mr. M.Kumar</b>				
01	An approach for twist drill wear study using image processing	International journal of innovative research in Technology(IJIRT) June 2018	Volume 5, issue 1, June 2018 Pg. No. 541 to 547	Paper Id-146703 ISSN: 2349-6002
02	Design and fabrication of mini CNC plotter	International journal of innovative research in Technology(IJIRT) June 2018	Volume 5, issue 1, June 2018 Pg. No. 450 to 453	Paper Id-146666 ISSN: 2349-6002
03	Design and fabrication of 360 degree flexible drilling machine	International journal for scientific research and development (IJSRD)June 2018	Volume 6, Issue 4, June 2018 Pg.No.501 to 505	No-357669 ISSN: 2321-0613

04	Finite element analysis of bicycle wheel	International Research Journal Of Engg & Tech(IRJET)June 2018	Volume 5 Issue 6 June 2018 Pg.No.949 to 956 Impact Factor – 6.17	e-ISSN 2395-0056 p-ISSN 2395-0072
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## 2. Papers presented in Conferences, Seminars, Workshops, Symposia

Year	Sl.No	Title of the paper presented	Title of Conference/Seminar	Date(s) of the event	Organized by	Whether International / National/State/Regional/University or College Level
<b>Dr.K.S.Sekar</b>						
2004	01	Need for Industrial Internship in Engineering Curriculum	National level Seminar VIBRANZ' 04 on "Managing Technical Education for Global Competitiveness"	10-01-2004	Schlenk Engineering College, Sivakasi	National seminar
2004	02	The Impact of Globalization on Engineering and Technical Education	7 <sup>th</sup> ISTE Annual Convention & National seminar on "Recent Advances, Growth & Achievements in Modern Engineering towards 2020", November 2004	26-11-2004 & 27-11-2004	Sri Manakula Vinayagar Engineering College, Puducherry	National seminar
2005	03	The Need, The Problems and Curriculum Development model involving Interaction with Industrial Attachment Programme	8 <sup>th</sup> ISTE Annual Convention on "Innovations in Engineering Education – Trends and Focus", October 2005	28-10-2005 & 29-10-2005	PSNA College of Engineering and Technology, Dindigul	National Conference National Conference
2006	04	The Need,	9 <sup>th</sup> ISTE Annual	04-11-	RMK	National

		Problems & Curriculum Development Model Involving Industry-Institute Interaction	Convention and AICTE Sponsored National Seminar, November 2006	2006	Engineering College	seminar
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2007	05	World class manufacturing of tooling parts by 4 axis CNC wire cut EDM machine.	National Conference on “Emerging Trends in Mechanical Engineering (ETME)”, June 2007	04-06-2007 & 05-06-2007 pp. 71	Sardar Vallabh bhai National Institute of Technology, Surat	National Conference
2007	06	Empowering Learning and Teaching –Role of IT in Education	37th ISTE Annual Convention and National Seminar on “Excellence in Technical Education through Innovation”, December 2007	17-12-2007 to 19-12-2007	MANIPAL INSTITUTE OF TECHNOLOGY, MANIPAL	National Seminar
2008	07	Applying Knowledge Management Practices in Technical Institutions and Universities	11 <sup>th</sup> ISTE Annual convention on “Autonomous Technical Institutions and Universities in the Context of Higher level Knowledge Creation”, September 2008	27-09-2008	MEPCO SCHLENK Engineering College, Sivakasi	National Conference
2008	08	e-Learning & Teaching – Role of IT in Education	11 <sup>th</sup> ISTE Annual convention on “Autonomous Technical Institutions and Universities in the Context of Higher level Knowledge Creation”, September 2008	27-09-2008	MEPCO SCHLENK Engineering College, Sivakasi	National Conference
2008	09	Industry – Institute Interaction: The Need, Problems and Curriculum Development model involving Industry – Institute Interaction	11 <sup>th</sup> ISTE Annual convention on “Autonomous Technical Institutions and Universities in the Context of Higher level Knowledge Creation”, September 2008	27-09-2008	MEPCO SCHLENK Engineering College, Sivakasi	National Conference

2008	10	Industry Relevant Engineering Education	11 <sup>th</sup> ISTE Annual convention on “Autonomous Technical Institutions and Universities in the Context of Higher level Knowledge Creation”, September 2008	27-09-2008	MEPC O SCHLE NK Engineering College , Sivakas i	National Conference
2009	11	Building Techno-Preneurs: The need of the hour	39 <sup>th</sup> ISTE Annual Convention & National Conference on “Managing Technical Education for Leveraging Innovation and Entrepreneurship”, December 2009	18-12-2009 to 20-12-2009, pp. 97 - 102	NITK, Surathk al, Mangal ore	National Conference
2010	12	Polytechnic Education in the context of Foreign Universities	40 <sup>th</sup> ISTE Annual Convention on “Foreign Universities in India: Challenges and Opportunities”, December 2010	02-12-2010 to 04-12-2010	Mepco Schlenk Enginee ring College , Sivakas i, Tamiln adu	National Conference
2014	13	Simulation of Hole Piercing Operation in Auto Chain Component	ISTE Regional Conference on “Innovations in Engineering Education and Research”, November 2014	14-11-2014 & 15-11-2014 pp. 81	Rajalak shmi Instituti ons, Chenna i	National Conference ISBN-978-81-929777-1-3
2015	14	Role of Polytechnic Colleges on Rural Development	1 <sup>st</sup> ISTE Polytechnic College faculty convention and National Seminar on “Employment trends and Challenges in 21st Century”, January 2015	23-01-2015 pp. 79 to 83	PSG Polytec hnic College , Coimba tore	National Seminar
2015	15	IT Enabled Learning and Teaching	1 <sup>st</sup> ISTE Polytechnic College faculty convention and National Seminar on “Employment trends and Challenges in 21st Century”,	23-01-2015 pp. 84 to 86	PSG Polytec hnic College , Coimba tore	National Seminar

			January 2015			
2016	16	Finite Element Simulation Experiments on the effects of Punch Shear methods during Hole Piercing in Auto Chain Component	“International Conference on Mechanical, Manufacturing and Process Plant Engineering (ICMMPPE 2016)”, November 2016	23-11-2016 & 24-11-2016 pp. 34	Sigma Research and Consulting Sdn. Bhd., Malaysia	International Conference
2018	17	Finite element simulation Experiments on the effects of varying punch-die clearances during hole piercing in Chain Components	TEQIP-III Sponsored 1 <sup>st</sup> National Conference on “Recent Advances in Mechanical Sciences and Technology (RAMSAT), November 2018	29-11-2018 & 30-11-2018	Government college of engineering, Bargur	National Conference
2019	18	Design and fabrication of semi-automatic garbage collection and disposal cycle cart	2 <sup>nd</sup> National conference on “Recent developments in Mechanical engineering and Modern techniquesNCRDME MT’19”	08-03-2019 pp. 150	P.T.Lee Chengalvaraya Naicker Polytechnic College, Chennai – 600 007	National Conference ISBN : 978-93-81208-97-7
2020	19	Design and Fabrication of Self Charged Electrical Vehicle	3 <sup>rd</sup> National conference on “Recent developments in Mechanical engineering and Modern techniquesNCRDME MT’20”	06-03-2020 pp. 99	P.T.Lee Chengalvaraya Naicker Polytechnic College, Chennai – 600 007	National Conference ISBN : 978-81-943033-6-7
2020	20	Design and Fabrication of Tricycle using steering propulsion for the physically challenged	3 <sup>rd</sup> National conference on “Recent developments in Mechanical engineering and Modern techniquesNCRDME	06-03-2020 pp. 100	P.T.Lee Chengalvaraya Naicker Polytechnic College, Chennai	National Conference ISBN : 978-81-943033-6-7

			MT'20"		i – 600 007	
2021	21	Trends, Skilling Challenges and innovative teaching in new normal – An overview	8th ISTE TN annual polytechnic faculty convention on Education technology in new normal-challenges & opportunities in digital learning	27 February 2021	Thiagarajar polytechnic college	National Conference

**Mr. J.CHANDRU**

2016	1	Investigations on mechanical properties of micro particulars (al <sub>2</sub> o <sub>3</sub> ) reinforced Aluminium 7075 matrix composites	Mechanical, material, manufacturing system	February 24 & 25th 2016	Sairam engineering college	international conference
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**Mr. P. VISHNU SUDARSAN**

2022	1	Design and Fabrication of Remote Controlled Solar Powered Agricultural Spraying Machine	2nd National Conference on “Futuristic Trends in Engineering and Technology (NCFTEET-2022”	31.03.2022	Rajagopal Polytechnic College , Gudiyattam, Tamil Nadu.	National Level
2016	2	Investigation of Mechanical Properties on Al-7075 Metal Matrix	5th National Conference on Design, Materials and Constructions	29 <sup>th</sup> & 30 <sup>th</sup> April 2016	Vel Tech University,	National Level

		Composites Reinforced with Nano-Particulate SiC and B4C	(NCDMC'16)		Chennai	
2013	3	Study of Bee Colony Optimization Algorithm in the Selection of Cutting Parameters for the Single Pass Turning Process	2nd International Conference on Advanced Manufacturing and Automation (INCAMA-2013)	28th to 30th March 2013	Kalasalingam University, Krishnankovil, Rajapalayam, Tamilnadu.	International Level
<b>Mr. V.VIGNESH</b>						
2019	1	Design and optimization of connecting rod using finite element analysis	National conference on Emerging research and advances in mechanical sciences(ERAMS)	20 march 2019	Velammal engineering college, Chennai	National Level

**Dept. In-Charge/Mech.**



**Dept: Tool and Die Making**

**1. PUBLICATIONS**

<b>Dr.S.Selvaraj, PhD., DIC/TDM</b>				
<b>S. No.</b>	<b>Title of paper</b>	<b>Name of the journal Month and year of acceptance</b>	<b>Publication details Vol. No., Pg. No, Month, Year</b>	<b>ISSN/ ISBN Number</b>
1.	Production of Nylon-6 FR Lever using An Injection Moulding Tool and Identification of Optimum Process Parameter	Inter J of Mechanical Engg and Tech	Volume 3, Issue 3, 2013,	ISBN No. 0976 –6359
2.	Measurement of warpage of injection moulded plastic components using image processing	International Journal of Innovative Research in Science, Engineering and Technology	Vol.2, Issue 12, December 2013	ISBN: 2319-8753
3.	Design and fabrication of an Injection Moulding Tool for Cam Bush with Baffle Cooling Channel and Submarine Gate	Procedia Engineering, Elsevier Publications	Vol.64,2013	ISSN: 1877-7058

4.	Optimization of Process Parameters in Injection Moulding of FR Lever using GRA and DFA and Validated by ANN	Research Journal of Applied Sciences, Engineering and Technology, Dec'2015 (Scopus indexed)	Vol.11, Issue VII November2015	ISSN:2040-7459 E ISSN:2040-7467
5.	Design and Fabricate A Tender Coconut Cutting Machine	International Journal of Advanced Research in Management, Architecture, Technology and Engineering	Volume – VI, Issue VIII, August - 2020	ISSN: 2454-9762

<b>Mr.G.Nallaiya M.E, Lecturer Tool &amp; Die Making</b>				
1.	Study of Machining on High Carbon High Chromium Die Steel using Wire Cut EDM under Various Conditions	International Journal of Trend in Scientific Research and Development	VOL-2 issue – 4 page 2135-2140 May - June-2018	ISSN 2456-6470
2.	Experimental Study of Process Parameters and Optimization of MRAF Process	International Journal of Innovative Research in Technology	VOL 5 Issue – 4 page 691 - 696 June - -2018	ISSN: 2349-6002
3.	Experimental Investigation of B4C/AL Metal Matrix Composite for Enhanced Mechanical Properties	International Journal of Innovative Research in Technology	VOL 6 Issue 4 page 801 - 806 JUNE 2018	ISSN: 2321-0613
4.	Design and Fabricate Liquid silicon rubber Moulding tool for Tea cups, Bolt and Nuts and Ganapathi statue	International Journal of Advanced Research in Management, Architecture, Technology and Engineering	VOL 6 Issue 7 July-2020	ISSN: 2454-9762
5.	Design and fabrication of progressive tool for electrical wire connecting leg pin	International Journal of Advanced Research in Management, Architecture, Technology and Engineering	VOL 6 Issue 12 December 2020	ISSN: 2454-9762
6.	Injection Moulding Tool for Laptop Mouse	International Journal of Advanced Research in Innovative Discoveries in Engineering and Applications	VOL 6 Issue 2 April 2021	ISSN: 2456-8805
7.	Design fabrication of injection Moulding tool for solenoid wire connecter	International Journal of Advanced Research in Management, Architecture, Technology and Engineering	VOL 7 Issue 2 Feburary-2022	ISSN: 2454-9762
8.	The Effect of Fiber Length on Mechanical Properties of Unsaturated Polyester Composites Reinforced by the Fibers of Sisal	International Journal of Scientific Research in Science, Engineering and Technology	VOL 9 Issue 3 May - June-2022	ISSN: 2395-1990

<b>Mr.K.Kamesh M.E, Lecturer Tool &amp; Die Making</b>				
01	Design and Fabricate a thermoforming Tool for making Leaf cups	International Journal of Advanced Research in Management, Architecture, Technology and Engineering	Published in IJARMATE, Volume V Issue VII, July 2019	ISSN 24549762
02	Biocompatible Polymer Microneedle for Transdermal Drug Delivery: Classification, Recent Trends and Application	International Journal of Drug Delivery Technology. March 2022	Published in International Journal of Drug Delivery Technology, Volume 12 Issue 1, March 2022	ISSN 09754415
<b>Mr.T.Udhayakumar B.E, Lecturer Tool &amp; Die Making</b>				
1.	“Multi Drill Holder”	International Journal of Advanced Research in Management, Architecture, Technology and Engineering. July 2019	Published in IJARMATE, Volume-V Issue VIII, August 2019	ISSN 24549762

**2.Papers presented in Conferences, Seminars, Workshops, Symposia**

<b>Dr.S.Selvaraj PhD., DIC/TDM</b>						
S.NO	Year	Title of the paper presented	Title of Conference/ Seminar	Date(s) of the event	Organized by	Whether International/ National/State/Regional/ University or College Level
1.	2013	“Design and fabrication of an Injection Moulding Tool for Cam Bush with Baffle Cooling Channel and Submarine Gate”	International Conference on Design and Manufacturing (IConDM2013)	18.07.2013 to 20.07.2013	Indian Institute of Information Technology Design and Manufacturing Kancheepuram, Tamil Nadu	International Level
<b>Mr.G.Nallaiya M.E, Lecturer Tool &amp; Die Making</b>						
1.	2008	Industry-institution interaction: The need, problems and curriculum development model involving industry institution	Proceeding of the 11th ISTE Annual convention September 2008	27.9.2008	MEPCO SCHLENK Engineering college sivakasi	College Level

		interaction				
2.	2010	Polytechnic Education is the context of foreign universities	Proceedings of the 40 <sup>th</sup> ISTE Annual Convention on “Foreign universities in India Challenges and opportunities”	02.12.2010 to 04.12.2010	MEPCO SCHLENK Engineering college Sivakasi	College Level
3.	2015	Role of Polytechnic Colleges on Rural Development	Proceedings of 1 <sup>st</sup> Annual Polytechnic Faculty Convention ISTE TN & Pondicherry Section	23.01.2015	PSG Polytechnic College, Peelamedu, Coimbatore 641004	College Level
4.	2013	“Design and fabrication of an Injection Moulding Tool for Cam Bush with Baffle Cooling Channel and Submarine Gate”	International Conference on Design and Manufacturing (IConDM2013)		Indian Institute of Information Technology Design and Manufacturing, Kancheepuram, Tamil Nadu	International Level
5.	2020	Transparent Duster with Magnet	Third National Conference on recent development in mechanical engineering and modern technics NCRDMENT-2020	06.03.2020	P.T. Lee Chengalvaraya Naicker Polytechnic College	National Level
6.	2020	Water Leakage Arrester	Third National Conference on recent development in mechanical engineering and modern technics NCRDMENT-2020	06.03.2020	P.T. Lee Chengalvaraya Naicker Polytechnic College	National Level

**Department–in charge / TDM**

H.SUDHAR - PHYSICAL DIRECTOR OF MURUGAPPA POLYTECHNIC COLLEGE

JOURNALS PUBLISHED DETAILS

Sl.no	JOURNAL SUBJECT	Date & month of the JOURNAL SUBJECT	WEB SITE AND ISSN NO
1.	MASSAGE THERAPY ON SPORTS INJURIES	JANUARY 2015	JETIR Volume 2 issue1 ISSN: 2349-5162
2.	IMPACT OF YOGIC TRAINING ON FLEXIBILITY	AUGUST 2015	IJRSS Volume 5 issue3 ISSN: 2249-2496
3.	SPORTS INJURIES AND ITS REHABILITATION	OCTOBER 2015	JETIR Volume 2 issue10 ISSN: 2349-5162
4.	IMPACT OF RECREATIONAL ACTIVITY AND AEROBIC DANCE ON AGGRESSION AMONG POLYTECHNIC COLLEGE PLAYERS	JANUARY 2016	IJRAR Volume 3 issue1 E-ISSN: 2348-1269 P-ISSN:2349-5138
5.	EFFECT OF YOGIC TRAINING AND CIRCUIT TRAINING ON RESPIRATORY ENDURANCE AMONG COLLEGE PLAYERS	MARCH 2016	JETIR Volume 3 issue3 ISSN: 2349-5162
6.	SPORTS AND HEALTH MANAGEMENT	JUNE 2016	IJRAR Volume 3 issue2 E-ISSN: 2348-1269 P-ISSN:2349-5138
7.	IMPACT OF AEROBIC DANCE ON STRESS MANAGEMENT	DECEMBER 2016	RR Volume 6 issue3 ISSN: 2249-894X
8.	EFFECT OF FLEXIBILITY TRAINING AND YOGIC TRAINING ON FLEXIBILITY	JANUARY 2017	JETIR Volume 4 issue 1 ISSN: 2349-5162
9.	EFFECT OF CIRCUIT TRAINING AND YOGIC TRAINING ON RESPIRATORY RATE.	FEBRUARY 2017	IJRAR Volume 4 issue1 E-ISSN: 2348-1269 P-ISSN:2349-5138
10.	IMPACT OF RESISTANCE TRAINING AND YOGIC TRAINING ON SPORTS COMPETITION ANXIETY.	MAY 2017	JETIR Volume 4 issue 5 ISSN: 2349-5162
11.	Yogic PRACTICES AND PLYOMETRIC TRAINING ON AGILITY COLLEGE MEN PLAYERS.	JULY 2017	IESRJ Volume 3 issue7 ISSN: 2455-295X