




Sriram Engineering College

Department of Mechanical Engineering

Name & Photo :		Dr. G.SUGANYA 
Designation:		Assistant Professor
Qualification :	UG(Specialization)	B.E.(Production Engineering)
	PG(Specialization)	M.E.(Computer Integrated Manufacturing)
	Ph.D	Experimental Investigation and Analysis of Compact PCM Filled Thin Tube Latent Heat Solar Water Heater
Area of Specialization :		Mechanical Engineering
Experience :	Teaching	17Yrs.
Paper Presentation in Seminar/Conference /Workshop (Specify only numbers)	National/International	30/10
Participation in (Specify only numbers)	Seminar/Conference /Workshop	30
	SDPs/FDPs	10
	Training Programs	04

Subjects Handled	Mechatronics Design of transmission system Design of machine elements Process planning and cost estimation Basic civil & mechanical Engineering Engineering metrology & Measurements CAD/ CAM Advanced I.C. Engines Production planning & control Computer integrated manufacturing Hydraulics & Pneumatics Engineering graphics Engineering metrology and measurements Principle of Management Professional Ethics
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Experience Details: (Teaching & Industrial)

<i>Name of the Institution</i>	<i>Designation</i>	<i>Total No. of Yrs. / Mons.</i>
Sriram Polytechnic College, Perumalpattu.	Lecturer	02 Yrs.
Sriram Engineering College, Perumalpattu.	Assistant Professor	15yrs

Paper Presentation in Conferences/FDP/Workshop/Seminar/Guest Lecture:

<i>S.No.</i>	<i>Date</i>	<i>Venue</i>	<i>Event</i>	<i>Title</i>
1.	14.03.2006	Sathyabama University, Kelambakkam.	International Conference	Value Analysis of Waste Management
2.	28.10.2009 to 30.10.2009	Sriram Engineering College, Perumalpattu.	Conference	Current Trends in Telematics.
3.	23.07.2010	Sriram Engineering College, Perumalpattu.	Conference	Reduction of Emission in Boiler.
4.	22.04.2010 & 23.04.2010	Sriram Engineering College, Perumalpattu.	Conference	Alternate Energy Resources and Application.
5.	28.04.2010 & 29.04.2010	Sriram Engineering College, Perumalpattu.	Work Shop	Composite Materials in Research and Industrial Applications.
6.	28.07.2010 & 29.07.2010	Sriram Engineering College, Perumalpattu.	Work Shop	Innovative Techniques in Road Safety Managements
7.	29.09.2010	Sathyabama University, Kelambakkam.	Work Shop	New Materials and Application
8.	29.10.2010	Sriram Engineering College, Perumalpattu.	Work Shop	Quantitative Research Techniques for Engineers Researchers.
9.	25.08.2011 & 26.08.2011	Sriram Engineering College, Perumalpattu.	Conference	Synthesis and characterization of Nano Carbon composite Material.
10.	18.11.2011	Vellammal Engineering College, Surapet.	Work shop	Patenting Systems in India
11.	01.03.2011	Sriram Engineering College, Perumalpattu.	Seminar	Recent Trends in Mechatronics
12.	10.04.2013	Gojan School of Business & Technology, Nallur.	Conference	Analysis of Gas Turbine blade using Finite Element Method
13.	09.04.2013	Gojan School of Business & Technology, Nallur.	Conference	Analyzing and Increasing the Efficiency of Tool life using TiC Coating
14.	14.04.2013	Mtab	Workshop	CNC training
15.	20.04.2013	Sastha Engineering college	Seminar	Composite materials
16.	30.04.2014	Vel muti tech College of engineering	Seminar	CAD

17.	28.7.2014-	Sathyabama University	International	Energy Materials
18.	30 .9.2014	Chennai Institute Of Technology	Workshop	Robotics And Automation
19	15.3.2017	Rmk collge of engineering	Conference	Design and Fabrication of Heat Enhanced Solar Water Heater
20	27.2.2017	Rmk collge of engineering	Conference	Study and Investigation of Phase Water Heating System
21	26.8.2017	karpaga vinayaga college of engineering and technology	Conference	Fabrication of electronic fuel Injection In SI ENGINE
22	11.02.2019	RMKcollge of engineering	Conference	Performance of compact phase change material filled thin tube latent heat solar water heater
23	24.03.2018	Sriram Engineering College	Conference	Analysis and Investigation on Mechanical Behaviour of PCM during Phase Transformation
24	22.03.2018	Sriram Engineering College	Conference	Review on Experimental Investigation of Heat Transfer Enhancement in Thermal Energy Storage
25	27.03.2018	Sriram Engineering College	Conference	Design and Development of Solar Latent Heat Storage of Phase Change Materials
26	22.03.2018	Sriram Engineering College	Conference	Study of PCM using Solar System
27	28.02.2019	Sriram Engineering College	Conference	Fabrication of automatic seed sower and fertilizer sprayer
28	01.02.2021 to 05.02.2021	AICTE Training And Learning(ATAL) Academy at Gandhi Institute of Technology and Management	Online FDP	Energy Storage
29	18.01.2020 to 22.01.2020	ATAL at K. Ramakrishnan College of Engineering	Online FDP	"Robotics and Industrial Automation"
30	24-08-2020 to 28-08-2020.	AICTE ATAL at CIT	Online FDP	Robotics
31	09.06.2020 to 13.06.2020	Pragati Engineering College-	Online FDP	Contemporary Developments In Manufacturing Processes, Sustainable Manufacturing and Industrial Technologies.
32	10.06.2020 To 14.06.2020	Sri Venkateswara College of Engineering-	Online FDP	Mechanical Behaviour Of A dvanced Materials and Its Scope for Engineering Applications

33	30/06/2020 - 04/07/2020	NBN Sinhgad School of Engineering, Ambegaon (BK), Pune, Maharashtra One Week National Level	Online Faculty Development Program	Recent Trends in Mechatronics & Automation
34	15.02.2021 to 20.02.2021	AICTE – CIT	STTP	Sustainable Industrial Development through Industry 4.0
35	15.03.2021 to 20.03.2021	AICTE – CIT	STTP	Sustainable Industrial Development through Industry 4.0
36	26.02.2021- 27.02.2021	Jagannath Institute of Technology	ONLINE WEBINAR	Research paper writing and breast cancer
37	13.03.2021	AI & ROBOTICS Technology Park (ARTPARK),	ONLINE WEBINAR	Industry 4.0 - Bringing Connectivity and Modularity to Automation with Robotics"

Journals

1. **G. Suganya, B.R. Ramesh Bapu** Investigative Research of Compact PCM Filled Thin Tube Latent Heat Solar Water Heater International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.71 (2015).
2. **G. Suganya, B.R. Ramesh Bapu** ‘Experimental Studies on Performance of Latent Heat Thermal Energy Storage Unit Integrated with Solar Water Heater’ ‘International Journal of Chemical Sciences. 14(2), 2016, 1165-1171 ISSN 0972-768X.
3. **G. Suganya, B.R. Ramesh Bapu** “Investigation on Mechanical Behaviour of PCM during Phase Transformation Integrated with Solar Water Heater” International Conference on Current Research in Engineering Science and Technology (ICCREST-2016) pp. 142–146, 2016.
4. **Suganya, G. and B.R. Ramesh Bapu**, “Investigation and Analysis of Compact PCM Filled Thin Tube Latent Heat Solar Water Heater”, International Journal of Taga, Vol.14, pp. 2934-2944, ISSN:1748-0345 (Online) 2018.

Conferences

1. **G. Suganya, B.R. Ramesh Bapu** Performance of compact phase change material filled thin tube latent heat solar water heater national conference on Fascinating advancements in mechanical engineering (FAME 2019).
2. **G. Suganya, B.R. Ramesh Bapu** Analysis of phase change material using CFD National conference on power and energy systems (NCPES-2K19).
3. **G. Suganya, B.R. Ramesh Bapu** Study of PCM using solar water system National conference on power and energy systems (NCPES-2K18).

4. **G. Suganya, B.R. Ramesh Bapu** Analysis and investigation on mechanical behaviour of PCM during phase transformation on national conference on applications of chemical graph, fluid dynamics and queuing theory and technology.
5. **G. Suganya, B.R. Ramesh Bapu** design and development of solar latent heat storage of phase change material national conference on (RTCEE-2018).
6. **G. Suganya, B.R. Ramesh Bapu** Review on experimental investigation of heat transfer enhancement in thermal energy storage system national conference on power and energy systems 2018.
7. **G. Suganya, B.R. Ramesh Bapu** Design and Fabrication of Heat Enhanced Solar Water Heater National Conference on Advances in Mechanical Engineering (AME 2017), p. 61, 2017.
8. **G. Suganya, B.R. Ramesh Bapu** Experimental Investigation of Solar Water Heating System Using Phase Change Material (PCM)-Review International Conference on Recent Trends in Science, Engineering and Management(ICRTSEM-2017), pp. 140, 2017.
9. **G. Suganya, B.R. Ramesh Bapu** Study and Investigation of Phase Change Material Using Solar Water Heating System National Conference on Fascinating Advancements in Mechanical Engineering (FAME2017).
10. **G. Suganya, B.R. Ramesh Bapu** fabrication of electronic fuel injection in spark ignition engine on National Conference on Fascinating Advancements in Mechanical Engineering (FAME2017).
11. **G. Suganya, B.R. Ramesh Bapu** Advances in phase change material using solar water heating system national conference on recent advances in Nano science and Nano technology(RAN2017).
12. **G. Suganya, B.R. Ramesh Bapu** experimental investigation of compact PCM using solar system National Conference on Advances in Mechanical Engineering (AME 2017).
13. **G. Suganya, B.R. Ramesh Bapu** Review on thermal energy storage with phase change material on national conference on Recent Innovations in Applied Chemistry and Advanced Materials (NCRIACAM17).
14. **G. Suganya, B.R. Ramesh Bapu** Thermal response in thermal energy storage material using copper tubes national conference on NCETME2017.

- 15.G. Suganya** Enhancement of Thermal Energy Storage Performance Using Paraffin of a Conventional Solar Water-Heating System National Conference on Fascinating Advancements in Mechanical Engineering (FAME 2016) pp. 47–50, 2016.
- 16. G. Suganya, B.R. Ramesh Bapu** literature review and objective of latent heat thermal energy storage system with solar water heater national conference on CIAMI-2016
- 17.G. Suganya, B.R. Ramesh Bapu** “Investigation on Mechanical Behaviour of PCM during Phase Transformation Integrated with Solar Water Heater” International Conference on Current Research in Engineering Science and Technology (ICCREST-2016) pp. 142–146, 2016
- 18. G. Suganya** Experimental studies on performance of latent heat thermal energy storage system International conference on recent advances in applied sciences(**ICRAAS2016**).
- 19. G. Suganya, B.R. Ramesh Bapu** Enhancement of thermal energy storage performance using paraffin of a solar water heating system national conference on FAME2016.
- 20. G. Suganya, B.R. Ramesh Bapu** Investigation on mechanical behaviour of pcm during phase transformation national conference on DAME2016.
- 21. G. Suganya, B.R. Ramesh Bapu** Study of thermal energy storage in solar system using phase change material national conference on DAME2016.
- 22. G. Suganya** Investigation of Compact PCM Filled Thin Tube Latent Heat Solar Water Heater National Conference on Fascinating Advancements in Mechanical Engineering (FAME2015) p. 1, 2015.
- 23. G. Suganya, B.R. Ramesh Bapu** Experimental investigation of compact pcm filled tube solar water heater on international conference on ICEM2014

Awards and Achievements:

1. 100% Results produced in CAD/CAM, Mechatronics in Manufacturing Engineering
2. More than 95% results in Design of Transmission Systems and Mechatronics
3. More than 95% results in Basic Civil and Mechanical Engineering
4. “Certificate of MERIT” is awarded by SREC for achieving Gold medal in the Anna university April 2006 Examination.
5. To Achieve the Best faculty award in the year of 2017-2018.

Research Projects obtained:

Rs 25,000/- DRDO Grant Received for 2010-11.

Any other worth mentioning:

Women Empowerment cell convener

ISO Co-convener

Department ISO coordinator

Alumni coordinator