


SRI SAI RAM ENGINEERING COLLEGE
DEPARTMENT OF MECHANICAL ENGINEERING

Name: T. BABU	
Designation:	Assistant Professor
Qualification:	B.E., M.Tech.
Area of Specialization:	CAD
Experience:	Teaching - 10 Years 10 Months
	Industry – Nil
Number of Workshops/ Conferences/ FDP Attended:	<p>WORKSHOP- 5</p> <p>FDP : 17</p> <p>International Seminar : 1</p>
Publication:	<p>Journal:</p> <p>National: Nil</p> <p>International : 14</p>
	<p>Conference:</p> <p>National: Nil</p> <p>International: 6</p>
General:	
Staff Achievement	<p>Produced 100% result in</p> <p>Mechatronics</p> <p>Automobile Engineering</p> <p>Metrology and Measurements</p>

	Process Planning and Cost Estimation Advanced I.C Engines
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Academic Background:

Course	Institution	Year of Passing	Board / University	Percentage of marks (%)
M.Tech (CAD)	SRM University	2013	SRM University	6.97
B.E (Mechanical Engineering)	Sri Ramanujar Engineering College	2009	Anna	74
Diploma in Mechanical Engineering	Arulmigu Palaniyandavar Polytechnic College	2006	DOTTE	73
SSLC	ITO higher Secondary School	2003	State	84.6

Professional Experience:

Sl. No	College/Organization	Designation	Period From To	Total period	Nature of work
1.	Sri Sai Ram Engineering College	Assistant Professor	01.06.2015 to Till Date	6 Years 8 Months	Teaching
2.	Rrase College of Engineering	Assistant Professor	05.12.2014 to 26.05.2015	5 Months 22 Days	Teaching
3.	Sri Ramanujar Engineering College	Assistant Professor	28.05.2014 to 03.12.2014	6 Months 7 Days	Teaching
4.	Jaya Engineering College	Assistant Professor	16.12.2013 to 16.05.2014	5 Months	Teaching
5.	Sri Balaji Polytechnic College	Lecturer	14.07.2009 to 14.11.2013	4 Years 4 Months	Teaching

International Conferences Attended: 6

Papers published in the international conferences : 6

Short Term Course (Refresher courses) Attended: 12

Faculty/Staff Development /Training Program (Orientation programmes) Attended:

- One day **international seminar** on “Recent Advances in Composite Materials” held on 26th April 2014 organized by Sri Ramanujar Engineering College, Chennai.

- Two days Faculty Development Program on “Teaching Excellence in Engineering & Management Curriculum” on 20th & 21st June, 2016 at Sri Sai Ram Engineering College, Chennai.
- Three days **Faculty Development Program** on Computer Aided Design and Manufacturing” on 4th to 6th August, 2016 at Sri SaiRam Engineering College.
- Three days **Faculty development programme** on “Computer Aided Design and Usage of Software” from 4th August to 6th August 2016 at Sri Sairam Engineering College.
- Five days **Faculty Development Program on** “Autodesk Inventor” on 4th June 2018 to 8th June 2018 Conducted by ICT Academy at Sri Sai Ram Institute of Technology, Chennai.
- Five days **Faculty Development Programme** on “Engineering Teaching Pedagogy and Teaching Learning Process” from 03.12.2018 to 07.12.2018 at Sri Sairam Engineering College.
- Six days **Faculty Development Programme** on “Robotics” from 13th may 2019 to 18th may 2019 at Sri Sairam Engineering College.
- Six days **Faculty development programme** on “Working Culture for Professionals” from 11th November 2019 to 16th November 2019.
- Two weeks refresher course of “Advancements in Mechanical, Production & Civil Engineering and ICT in Teaching – Learning Process” Organized by Sri Sai Ram Engineering College from 13th May to 26th May.
- One day **Faculty Development Program** on “CFD simulation of Thermal Management of Batteries and Power Convertors” organized by Vel Tech High Tech Dr. Rangarajan Dr. Sakuntala Engineering College on 28.05.2020.
- 5 days online **Faculty development program** on “Emerging Trends in Mechanical Engineering” organized by department of Mechanical engineering, St. Peters Engineering college, Hyderabad from 02.06.2020 to 06.06.2020
- TEQIP-III sponsored one week online **Faculty Development Programme** on “RECENT ADVANCES IN MECHANICAL ENGINEERING” organized by Shri G. S. Institute of Technology and Science from June 8th to June 13th 2020.

- AICTE Sponsored Six days Virtual **Short Term Training Program** on “Finite Element Method for Engineering Applications” organized by Sri Sai Ram Engineering College from 05.10.2020 to 10.10.2020.
- AICTE sponsored One Week Online STTP on “RESEARCH ASPECTS OF POWDER METALLURGY BASED DIRECT DIGITAL MANUFACTURING” organized by Mepco Schlenk Engineering College, Sivakasi from 12.10.2020 to 17.10.2020.
- AICTE Training and Learning (ATAL) Academy online **FDP** on “3D Printing & Design” from 19.10.2020 to 23.10.2020 organized by Dr. N. G. P. Institute of Technology.
- AICTE Training and Learning (ATAL) Academy online **FDP** on “Waste Management” from 26.10.2020 to 30.10.2020 organized by Dr. M. G. R. Educational and Research Institute.
- AICTE Sponsored one week **Short Term Training Program** on “Multidisciplinary Competency Training for Mechanical Engineers” organized by Sri Krishna College of Engineering and Technology, Coimbatore from 02.11.2020 to 07.11.2020.
- AICTE Training and Learning (ATAL) Academy online **FDP** on “Electric Vehicles” from 30.11.2020 to 04.12.2020 organized by IFET College of Engineering.

Resource person In FDP:

Workshops Attended:

- One day workshop on “Value Engineering using ANSYS” held on 19th August 2016 at Sri SaiRam Engineering College.
- Three days workshop on “Creo Parametric D Modelling Software and its Applications” at Sri Sairam Engineering College from 13th to 15th June 2018.
- One day workshop on IPR Arena – Patent Filing Procedure on 21st June 2018 at Sri Sairam Engineering College.
- One day workshop on Research Scopes in Mechanical Science conducted by Chennai Institute of Technology on 07.05.2020.

Events organized:

- Three days Faculty Development Program on Computational Fluid Dynamics and Engineering Simulations from 05.06.2020 to 07.06.2020
- AICTE Sponsored Six Days Short Term Training Program on “Finite Element Method for Engineering Applications” Slot – II from 07.09.2020 to 12.09.2020.
- Three days Training Program on “3D Modelling Using Fusion 360” from 15.10.2020 to 17.10.2020.
- ISTE Sponsored three days workshop on Research and Development Activities from 28.12.2020 to 30.12.2020

Funded Projects:**List of publications in international journals:**

1. **T. Babu**, D. Prabu, P. Vijayarajan, M. Murugan, J. Jeykrishnan, “Design and Analysis of composite leaf spring under fatigue load condition”, International Journal of Engineering Technology Research & Management, Volume 1, Issue 02, 2017, 1-4.
2. D. Prabu, **T. Babu**, K. Pradeep, S. Sanjay Arun, “A review on mechanical properties of Intra – Layer palm fiber (Palmyra Spout) –Flax – S Glass fiber reinforced composite. International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Vol. 8, Issue 3, June 2018, 489-498.
3. Krishnan. R, Mahalingam. P. P, Samuel Rathina Kumar. P. S, **Babu. T**, “Design and Fabrication of an economical coconut Dehusking machine”, International Journal of Engineering and Technology, 7 (2.8), 2018, 588-591.
4. Dutt. P, **Babu. T**, Murugan. M, Anbarasu. P, Subramani. B “**Design and analysis of Composite Parabolic Leaf Spring Under Fatigue Load Condition**”, Advances in Manufacturing Technology. Lecture Notes in Mechanical Engineering. Springer, Singapore, April 2019, pp: 113 – 118.
https://doi.org/10.1007/978-981-13-6374-0_58
5. **Babu T.**, Ashwin S., Naidu M., Muthukumaaran C., Ravi Raghavan C. (2019) “**Sleep Detection and Alert System for Automobiles**”. Advances in Manufacturing Technology. Lecture Notes in Mechanical Engineering. Springer, Singapore, April 2019, pp: 527-532

http://doi.org/10.1007/978-981-13-6374-0_14

6. **Babu T.**, Sudharshan R., Suhail M., Pradeep K., Sanjay Arun S. (2019) **“Framework Execution and Schematic of Jounce Bumper in Two-Wheeler Fork”**. Advances in Manufacturing Technology. Lecture Notes in Mechanical Engineering. Springer, Singapore, April 2019, pp: 503-509.
https://doi.org/10.1007/978-981-13-6374-0_56
7. **T. Babu**, R. Sudharshan, R. Akil, S. Chiranjeev, **“Analysis and Shape Optimization of disc Brake with Alternate Material”**, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-1S2, May 2019, pp: 187-192.
8. **T. Babu**, R.V. Aswin, P. Aravind, V. Prasanna, **“Design and Transient Thermo-Structural Analysis of Wind Turbine Disc Brake”**, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-1S2, May 2019, pp: 51-56.
9. Suresh. M, **Babu. T**, Ravinthiran. A, A. Dhanalakshmi, S. Ganapathy, **“Effect of Sea Water Environment Exposure on Glass Fiber Reinforced Polymer Composites”**, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-1, November, 2019, pp: 670 – 674.
10. P. Vijaya Rajan, **T. Babu**, G.KarthikPandiyan, D. Venkatragavan, R. Shanmugam, **“Auxillary Safety Locking System of Vehicle Doors using Arduino”**, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-1, November 2019, pp: 277-281.
11. **T. Babu**, A. Ravinthiran, S. Rohit Krishnan, P. Muthu Ananda, and V. Pavitharan **“A modern low-cost furrow cutting machine”** *AIP Conference Proceedings*, Volume 2283, Issue 1, 020001 (October 2020).
<https://doi.org/10.1063/5.0025075>
Indexed in: Scopus, Google Scholar
12. A. Ravinthiran, **T. Babu**, G. Thilak Raj, P. Yaswanth Siddaarth, and K. Selva Kamatchi **“Flow variations and comparisons of heat exchanger headers with different cross sections”** *AIP Conference Proceedings*, Volume 2283, Issue 1, 020002 (October 2020).
<https://doi.org/10.1063/5.0029256>
Indexed in: Scopus, Google Scholar

13. A Ravinthiran, M Suresh, **T Babu**, R Mani and M Arul Prakash, “**Design, Analysis and Development of Epoxy Resin made Omnidirectional Wind Turbine**”, *IOP Conf. Series: Materials Science and Engineering*, Volume 988, 2020, 012044.

doi:10.1088/1757-899X/988/1/012044

Indexed in: Scopus, Google Scholar

14. **T. Babu***, A. Ravinthiran, M.S. Yogeswaran, S. Subash, R. Venkatesh, G. Saibharath, “**Teaser Glove for Women Safety**”, *IOP Conf. Series: Materials Science and Engineering*, Volume 988 (2020) 012038.

doi:10.1088/1757-899X/988/1/012038

Indexed in: Scopus, Google Scholar

International Conference Proceedings:

1. **Babu. T**, Ashwin. S, Mukul Naidu, Muthukumaaran. C, Ravi Raghavan. C, “Sleep detection and alert system for automobiles”, Proceedings of the 3rd International Conference on Advances in Manufacturing Technology – ICAMT 2018, Department of Mechanical Engineering, Chennai Institute of Technology, Kandrathur, Chennai – 69, Proc. Pp. 21.
2. **Babu. T**, Sudharshan. R, Mohammed Suhail, Pradeep. K, Sanjay Arun. S, “Framework Execution and Schematic of Jounce bumper in two wheeler fork”, Proceedings of the 3rd International Conference on Advances in Manufacturing Technology – ICAMT 2018, Department of Mechanical Engineering, Chennai Institute of Technology, Kandrathur, Chennai – 69, Proc. Pp. 21.
3. Priyadarshi Dutt, **Babu. T**, Murugan. M, Anbarasu. P, Bala Subramani, “Design and analysis of composite parabolic leaf spring under fatigue load condition”, Proceedings of the 3rd International Conference on Advances in Manufacturing Technology – ICAMT 2018, Department of Mechanical Engineering, Chennai Institute of Technology, Kandrathur, Chennai – 69, Proc. Pp. 21.
4. International conference on Recent Trends in Advanced Material Processing – ICRTAMP – 2019, on 20th & 21st March 2019 at Chennai Institute of Technology. - “**Design and Transient Thermo-Structural Analysis of Wind Turbine Disc Brake**”,
5. International Conference on Recent Trends in Mechanical & Materials Engineering on 12th & 13th December 2019 at Chennai Institute of Technology. “**A Modern Low Cost Furrow Cutting Machine**”

6. International Conference on Recent Trends in Mechanical & Materials Engineering on 12th & 13th December 2019 at Chennai Institute of Technology. **"Flow Analysis and Comparison of Heat Exchanger Headers of Varying Cross Sections."**
7. International Conference on Recent Developments in Material Science and Applications on 25th & 26th September 2020 at Chennai Institute of Technology. **"Teaser Glove for Women Safety"**
8. International Conference on Recent Developments in Material Science and Applications on 25th & 26th September 2020 at Chennai Institute of Technology. **"Design, Analysis and Development of Epoxy Resin Made Omnidirectional Wind Turbine"**
9. International Conference on Emerging Approaches in Mechanical & Automobile Engineering (ICEAMME'21) Organized by Department of Mechanical Engineering Arasu Engineering College, Kumbakonam on 17.03.2021 & 18.03.2021. **"Effect of Glass Fibre Reinforced Polymer Composites under Hot and Cold Temperature"**

Online Courses Attended

NPTEL Courses:

1. 12 Week course on **"Engineering Metrology"** – July – Oct – 2018
2. 4 Week course on **"Inspection and Quality Control in Manufacturing"** – Feb – March - 2021 (**Topper 5%**)

Coursera:

1. Advanced Manufacturing Process Analysis
2. AI For Everyone
3. Air Pollution – a Global Threat to our Health
4. COVID-19: What You Need to Know (CME Eligible)
5. Create Customer Support Data with Google Sheets
6. Create Informative Presentations with Google Slides
7. Digital Manufacturing & Design
8. Getting Started with Google Sheets
9. Improve Business Performance with Google Forms
10. Introduction to Google Docs
11. Spreadsheets for Beginners using Google Sheets

12. The Sustainable Development Goals – A global, transdisciplinary vision for the future