

SRI SAI RAM ENGINEERING COLLEGE
DEPARTMENT OF MECHANICAL ENGINEERING

Name: E.BALAKRISHNAN	
Designation:	Associate Professor
Qualification:	M.E, P.hD.,
Area of Specialization:	Thermal Engineering, IC ENGINES.
Experience:	Teaching- 14.6 Years
	Industry: 8.6 Years
Number of Workshops/ Conferences/ FDP Attended:	Worshop- 15 FDP- 18 National/Int. Conference- 03
Publication:	Scopus/WoS Journal & Conferene Publication: <ul style="list-style-type: none"> • Scopus Journal Publications: 10 • WoS Journal Publications: 02
Patent :	Patent : 02 1.“COMPOSITE LPG CYLINDER USING GFRP WITH AL ALLOY MATRIX” 2.Advanced Modular Framework System for Internal Combustion Engines , Application
General:	<ul style="list-style-type: none"> ✓ 8 - NPTEL short term courses completed. ✓ NPTEL Domain Schalor – Energy systems ✓ 8 –Online Modules completed in NITTTR ✓ 2 - Online courses completed in UDEMY.

	✓ 8 - Online courses completed in COURSERA.
Staff Achievement	<ul style="list-style-type: none"> ✓ AUTODESK CERTIFIED PROFESSIONAL ✓ PTC CERTIFIED PROFESSIONAL ✓ Completed Introduction to thermodynamics Certified Course – COURSERA ✓ Completed AutoCAD for Design & Drafting – COURSERA

EDUCATIONAL QUALIFICATION:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks/ Grades obtained	Class obtained
UG	B.E	MECH	2000	PSNA	MADURAJ KAMARAJ UNIVERSITY	6.59	FIRST
PG	M.E	THERMAL ENGG	2013	TCE	ANNA UNIVERSITY	7.2	FIRST
PhD	PURSUI NG	PURSUING	-	-	ANNA UNIVERSITY	-	-

PROFESSIONAL EXPERIENCE:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
CADD CENTER PVT LTD	DESIGN ENGG	05-06-2000	28-10-2003	3	4	24
DIAGONAL CADD PVT LTD	TECHNICAL HEAD	03-11-2003	04-06-2008	4	7	02
JEI MATHAAJEE COLLEGE OF ENGINEERING	SENIOR LECTURER	05-06-2008	30-06-2011	3	0	26
JEI MATHAAJEE COLLEGE OF ENGINEERING	ASSISTANT PROFESSOR	06-05-2013	05-11-2014	1	5	31
SRI SAI RAM INSTITUTE OF TECHNOLOGY (AUTONOMOUS)	ASSOCIATE PROFESSOR	05-06-2015	27-08-2025	10	02	23
	ASSOCIATE PROFESSOR	28-08-2026	28-02-2026	00	06	0
				23	03	16

PAPERS PUBLISHED IN THE INTERNATIONAL JOURNALS:

1. Elemental analysis of brake pad using natural fibers, E Balakrishnan, S Meganathan, M Balachander, A Ponshanmugakumar. *Materials today: proceedings*, 2019. <https://doi.org/10.1016/j.matpr.2019.05.197>
2. Statistical analysis of electrodeposited nickel coating to S275JR grade mild steel. S Govindan, M Boopathi, AP Venkatesh, T Maridurai, T Sathish, E Balakrishnan. *Materials Today: Proceedings*, 2021. <https://doi.org/10.1016/j.matpr.2021.02.678>.
3. Investigation of fin geometries impact on thermal efficiency of solar dryer. T Maridurai, G Ramesh, V Manivelmuralidaran, A Backiyaraj, T Sathish, E Balakrishnan. <https://doi.org/10.1016/j.matpr.2021.03.044>.
4. Prediction of human diseases using optimized clustering techniques. Vamsidhar Enireddy, R Anitha, Sugumari Vallinayagam, T Maridurai, T Sathish, E Balakrishnan. *Materials Today: Proceedings*, 2021. <https://doi.org/10.1016/j.matpr.2021.03.068>.
5. Finite element analysis of a human foot. V Balaji, D Rajesh, N Murugu Nachippan, T Maridurai, T Sathish, E Balakrishnan. *Materials Today: Proceedings*, 2021. <https://doi.org/10.1016/j.matpr.2021.03.069>.
6. Experimental investigation on effects of ethanol fumigation in dual fuel reactivity controlled compression ignition engine. E Balakrishnan, R Prakash. *Materials Today: Proceedings*, 2023. <https://doi.org/10.1016/j.matpr.2023.04.552>.
7. Balakrishnan, E., Yuvaraj, G., Keerthipalli, T. et al. Effect of Interfacial Adhesion Enhancement on SS316 Foil/Prestressed Areca Fiber–Nanosilica Fiber Metal Laminate Composites. *Silicon* 18, 457–469 (2026). <https://doi.org/10.1007/s12633-025-03563-6>
8. Arduino Based Smart Trash Can- A Solution for Efficient Waste Management, Rahul V, Balakrishnan E, Pradeep Raj S, Jawahar Vignesh E, Tamilarasan B, Sornalakshmi M, 2024 IEEE International Conference on Blockchain and Distributed Systems Security (ICBDS). <https://doi.org/10.1109/ICBDS61829.2024.10837441>.
9. Effect of Interfacial Adhesion Enhancement on SS316 Foil/Prestressed Areca Fiber–Nanosilica Fiber Metal Laminate Composites. E Balakrishnan, G Yuvaraj, Trinath Keerthipalli, Raghuram Pradhan, SK Karthikeyan, Srinivas Tadepalli. Volume 18, pages 457–469, (2026) *Silicon-2025*, Springer Netherlands.
10. Microcontroller-Based Auto Lock Ignition System for Vehicle Overload Prevention. J Jeswin Arputhabalan, M Balachandar, T Asaithambi, E Balakrishnan, A Ponshanmugakumar, B Gunaseelan. 2024 International Conference on Communication, Computing and Internet of Things (IC3IoT). <https://doi.org/10.1109/IC3IoT60841.2024.10550355>.
11. Electrical Energy-Powered Grass Cutter with Autonomous Operation and Pollution Mitigation. Arunkumar R, Arunkumar S, Asaithambi T, Balakrishnan E, Ponshanmugakumar A, Sundaravalli S M. 2023 *Intelligent Computing and Control for*

REVIEWER FOR INTERNATIONAL JOURNALS:

1. Materials Today Proceedings – ELSEVIER
2. Renewable Energy - ELSEVIER

SHORT TERM COURSE COMPLETED:

1. Successfully completed 8 weeks NPTEL course on topic “Waste to Energy Conversion” held between February – March 2018.
2. Successfully completed 3 Months Training on “ 3D –Printing and Additive Manufacturing” at PETC – TIEMA .
3. Successfully completed online certification course “Introduction to thermodynamics” - CORSERA.
4. Successfully completed 7 Days Internship on Fuel Injection system at Delphi – TVS Chennai.
5. Successfully completed 3 months Training on “PANCHAYAT ADMINISTRATION & RURAL DEVELOPMENT SCHEME” at STATE INSTITUTE OF RURAL DEVELOPMENT AND PANCHAYAT RAJ – Marimalai Nagar , Chennai- 603209.

FACULTY DEVELOPEMNT PROGRAMS ATTENDED:

WEBINARS ATTENDED:

1. Attended one day webinar on “Effective Virtual Classroom Teaching for Teachers” on 19th June, 2020 conducted by Sri Sairam Engineering College, Chennai.
2. Attended one day webinar on “Role of Mechanical Engineering in Space Technology Development” on 2nd June, 2020 conducted by Vel Tech High Tech Dr. RR Dr. SR Engineering College.
3. Attended one day webinar on “Manufacturing Process and ESPRIT CAD/CAM software” on 21st May, 2020 conducted by R. N. G. Patel Institute of Technology, Bradoli.
4. Attended one day webinar on “META-HEURISTIC OPTIMIZATION ALGORITHMS” on 26th May, 2020 conducted by SRM Institute of Science and Technology, Chennai.
5. Attended one day webinar on “How to get Published in Scientific Journal: From Research to Publication” on 27th May, 2020 conducted by Sri Sai Ram Institute of Technology, Chennai.
6. Attended one day webinar on “Nox and PM Emissions - Formation and Control” on 28th May, 2020 conducted by Rajalakshmi Engineering College, Chennai.
7. Attended one day webinar on “Insight to INDUSTRY 4.0” on 29th, May 2020 conducted by S.A Engineering College.

8. Attended one day webinar on “Air Conditioning in Automobiles” on 30th May, 2020 conducted by KCG College of Technology, Chennai.

WORKSHOPS ATTENDED:

S.No.	Name of the Workshop	Organizers	Mode of Program	Month &Year
1	Opportunities and Challenges in Energy storage systems for Buildings	Institute of Energy studies , Anna University- Chennai.	Offline	Mar-2017
2	Numerical computation , Optimization & Differential Equ using Matlab	Hindustan Institute of Technology & Science	Offline	July-2016
3	Recent Trends in Manufacturing Process	National Council for Science & Technology Communication	Offline	AUG- 2012
4	CFD Computational Fluid Dynamics	Skill LYNC	Virtual	June 2020
5	Outcome Based Education & NBA	SHREE L. R. TIWARI COLLEGE OF ENGINEERIN- Thane	Virtual	July -2020
6	CFD & its Applications in Power plant Industries	Sathyabama institute of Sci & Technology	Virtual	May-2020
7	Design & Analysis of ATV using ANSYS Software	The Automotive Research Association of India (ARAI), Pune & ANSYS Software Pvt Ltd	Virtual	June - 2020

FDP Attended :

S.No	Name of the FDP	Organized by (Institution Name)	Mode of Program	Month &Year
1	Kinematic of Machinery	Anna University		Dec -2016
2	Automobile Engineering	Centre for Faculty Development , Anna University		Dec-2018
3	CFD using Open source	IITDM - Kanchipuram		Apr-2016
4	Noval Materials & It's Industrial Applications	Sri Sairam Engg College	Virtual	May-2020

5	RECENT INNOVATIONS AND FUTURISTIC SCOPE FOR RESEARCH IN INTERNAL COMBUSTION ENGINES	St. Joseph's College of Engineering	Virtual	June-2020
6	Emerging Research Area in Engineering	SRM- Institute of Sci & Tech	Virtual	June -2020
7	CFD & it's Engineering Applications	Sri Sairam Engg College	Virtual	June-2020
8	Hands on Training in ROBO-DK , Robotic simulation Tools	Anna University – CEG Campus		Aug -2022
9	Heat Transfer NPTEL	IIT - NPTEL	Virtual	Mar-2024
10	Non conventional Energy Resources	IIT - NPTEL	Virtual	Mar-2024
11	Waste to Energy Conversion	IIT - NPTEL	Virtual	May-2024
12	Advanced simulations in Ansys	VIT	virtual	Aug- 2025

Conferences Attended:

S.No	Name of the Conference	Organizer	Month & Year
1	5 th National Conference on Embedded system & Robotics	GTJEC	Mar-2013
2	2nd National Conference FAME- 2013	RMK college of Engg & Tech	March-2013
3	2 nd International Conference on Materials Manufacturing & Applied Science	Sri Sai Ram Institute of Technology	Aug-2016
4	3 rd International Conference on Materials Manufacturing Mechanical for sustainable Development.	Sri Sai Ram Institute of Technology	AUG-2020

Programs Organized:

S.No.	Name of the Program	Responsibility Held	Month & Year
1	6 Days STTP on Modern Materials & Industrial Automation	Coordinator	June-2020
2	7 Days FDP on Heat Transfer and Computational Fluid Dynamics towards Industrial Applications	Coordinator	June-2020
3	6 Days FDP on Thermal Energy Storage and Renewable Energy Sources.	Coordinator	July - 2020

4	TECH UP -2020 Project Competition	Coordinator	Oct-2020
5	4 Days Hands On Training in AUTOCAD	Coordinator	Dec-2020
6			

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

- ✓ Life member in “The Indian Society for Technical Education (ISTE)”.
- ✓ Member in “Institute of Electrical and Electronics Engineers (IEEE)”.
- ✓ 10 Years Member in “Society of Automotive Engineers (SAE)”.