

SRI SAI RAM ENGINEERING COLLEGE
DEPARTMENT OF MECHANICAL ENGINEERING

<p>Name: S. BALASUBRAMANI</p>	
<p>Designation:</p>	<p>Associate Professor</p>
<p>Qualification:</p>	<p>M.E,</p>
<p>Area of Specialization:</p>	<p>Manufacturing</p>
<p>Experience:</p>	<p>Teaching- 10.75 Years</p>
	<p>Industry: 13.5 Years</p>
<p>Number of Workshops/ Conferences/ FDP Attended:</p>	<p>Worshop- 13 FDP- 28 National/Int. Conference- 4</p>
<p>Publication:</p>	<p>Scopus/WoS Journal & Conferene Publication:</p> <ul style="list-style-type: none"> • Scopus Journal Publications: 4 • WoS Journal Publications: 2 • Scopus Conference Publication:
	<p>Book/Book Chapters:</p> <ul style="list-style-type: none"> • Book: NIL • Book Chapter: NIL
<p>General:</p>	<ul style="list-style-type: none"> ✓ 9 - NPTEL short term course completed. ✓ 8 –Online course completed in NITTTR ✓ 1 - Online courses completed in UDEMY. ✓ 7 - Online courses completed in COURSERA.

Staff Achievement	<ul style="list-style-type: none"> ✓ Best Mentor Appreciation Award Dec' 2021 ✓ ACHIEVED TOP 2 % in Nptel course on COMPUTER INTEGRATED MANUFACTURING ✓ Awarded 100 % results in the following subjects ✓ Computer Aided Design(DEC'2016), DEC'2017) ✓ Engineering Metrology and Measurements(MAY'2017), ✓ Automobile Engineering,(MAY'2017) ✓ Professional Ethics in Engg (DEC'2015) ✓ Received Best Productivity Award at 2001 from GABRIEL (I) Ltd, Hosur.
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PROFESSIONAL EXPERIENCE:

College/Organization	Designation	Period From - To	Total period	Nature of work
GOPAL RAMALINGAM MEMORIAL ENGINEERING COLLEGE, CHENNAI	ASSISTANT PROFES	11-09-2011 TO 15-05-2013	1.YEAR 8 MONTHS	TEACHING
PRATHYUSHA ENGINEERING COLLEGE (AUTONOMOUS), CHENNAI	ASSISTANT PROFES	05-06-2013 TO 16-04-2015	1 YR 10 MO	TEACHING
SRI SAI RAM INSTITUTE OF TECHNOLOGY (AUTONOMOUS), CHENNAI	ASSISTANT PROFES	05-06-2015 TO 27-08-2025	10 YRS	TEACHING
SRI SAIRAM ENGINEERING COLLEGE (AUTONOMOUS), CHENNAI	ASSOCIATE PROFES	28-08-2025 TO STILL	0.7 YRS	TEACHING

INDUSTRIAL EXPERIENCE

Name of the Organisation	Designation	Nature of Work	Joining Date	Relieving Date	Experience		
					Years	Months	Days
DYNAMICS TECHNOLOGIES LTD	GROUP LEADER	SHOP FLOOR INCHARGE	10-04-2007	22-05-2011	4	1	13
BONFIGIOLI TRANSMISSION PVT LTD	JUNIOR ENGINEER	SUPERVISOR	02-02-2001	01-04-2007	6	1	28
GABRIEL INDIA LTD	OPERATING ENGINEER	CELL COORDINATOR	01-01-1999	01-02-2001	2	1	1
Total					12	4	13

PATENTS:

Applicant / Inventor	Title	Patent Adoption	Filed/ Published/ Granted	Patent/Design Number
<p>G. ASHWIN PRABHU Dr.K.M. ARUNRAJA, DR.K.VELAVAN, S. BALASUBRAMANI, DR. T. GAVASKAR, AARSATH CRISPLE. B, ABDUL RAHMAN A.H, KARTHIKEYAN,S, P.RAGUNATH, JEYASURIYA.J / G. ASHWIN PRABHU</p>	<p>characterization and fabrication methods of curaua fiber reinforced green composites</p>	<p>2024-09-20</p>	<p>Published</p>	<p>202441070058</p>
<p>SATHISHKUMAR NATESAN, 2. S.BALA MOHAN, 3. DR. H.M ANIL KUMAR, 4. B. ARUL KUMAR, 5. DR.J.PAUL CHANDRA KUMAR, 6. S.BALASUBRAMANI,7. R. SANJEEVI, 8. S. KARUPPUSWAMY, 9. A. JAI AKASH LAL, 10. DR.K.BHAVANI,11 DR.T. GAVASKAR, 12. G.ASHWIN PRABHU SATHISHKUMAR NATESAN</p>	<p>DEVELOPMENT OF LOW COST OSMOSTIC POWER GENERATION</p>	<p>2024-03-15</p>	<p>Published</p>	<p>202441015768A</p>
<p>1.J.JAYAPRIYA, 2. D. MURUGANANDAM, 3. DR. K. VELAVAN, 4. DR.J.M.PRABHUDASS, 5. S.BALASUBRAMANI6. S.SENTHILBABU D. MURUGANANDAM</p>	<p>ARTIFICIAL INTELLIGENCE BASED ORGANIC WASTE COMPOSTER</p>	<p>12-09-2024</p>	<p>FILED</p>	<p>409676-001</p>

PAPERS PUBLISHED IN THE INTERNATIONAL CONFERENCES:NIL

INTERNATIONAL CONFERENCES ATTENDED: NIL

PAPERS PUBLISHED IN THE NATIONAL AND INTERNATIONAL JOURNALS:

1. **G. Shanmugasundar, R. Sivaramakrishnan, S. Balasubramani**, “Method of Trajectory Generation of a Generic Robot using Bresenham’s Circle Algorithm” Indian Journal of Science and Technology, Vol 9 (48) DOI: 10.17485/ijst/2016/v9i48/108476 December 2016. ISSN (print) 0974 – 6846, ISSN (online) 0974 – 5645.
2. **S. Balasubramani, N. Premkumar**, “ Friction factor, Load and Displacement studies of AA6063 in Forward Extrusion Process with Equal Channel Angular Pressing (ECAP) Preprocess, Material Today Proceedings, 2019, Volume 16, Part 2, pages 1333-1337, DOI –10.1016/j.matpr.2019.05.23
3. **G. Shanmugasundar, R. Sivaramakrishnan,S. Meganathan, S. Balasubramani** Structural Optimization of an Five Degrees of Freedom (T-3R-T) Robot Manipulator Using Finite Element Analysis,2019,Volume 16, pages 1325-1332 DOI: 10.1016/j.matpr.2019.05.231
4. **Priyadarshi Dutt, T. Babu, M. Murugan, P. Anbarasu, S. Balasubramani**, Design and Analysis of Composite Parabolic Leaf Spring Under Fatigue Load Condition, Advances in Manufacturing Technology, Springer Nature Singapore private, ltd, 2019, pages 527-532, DOI- doi.org/10.1007/978-981-13-6374-0_58.
5. **G Shanmugasundar, R Yokesh, S Yuvaranjith, R Barath, S. Balasubramani**, Design and Fabrication of Eco-Friendly Pedal Operated Lawn Mower for Agricultural Applications, International organization of Scientific Research 8 (6), 12-17.

6. **KP Ramamoorthy, S Balasubramani, S Dinesh, M Arul**, Intelligent hybrid optimization of WEDM for Ti-6Al-4V using Taguchi deep learning and ANOVA for enhanced surface integrity and prediction accuracy, 2025, *Materials and Technology* 59 (3), 443–450-443–450

7. **S Dinesh, S Balasubramani, AR Pradeepkumar, D Nandhakumar** , Development and performance evaluation of epoxy-based hybrid composites for sustainable personal protective equipment in automotive application , 2025, *Materials and Technology* 59 (2), 187–193-187–193.

SHORT TERM COURSE COMPLETED:

1. Successfully completed 12 weeks NPTEL course on topic “Introduction to Composites” held between Jul-Oct 2025
2. Successfully completed 12 weeks NPTEL course on topic “Automation in Manufacturing” held between Jul-Oct 2025
3. Successfully completed 12 weeks NPTEL course on topic “Introduction to Materials Science and Engineering” held between Jan-Apr 2025
4. Successfully completed 12 weeks NPTEL course on topic “Metal Additive Manufacturing” held between Jul-Oct 2024
5. Successfully completed 12 weeks NPTEL course on topic “Powder Metallurgy” held between Jul-Oct 2024.
6. Successfully completed 12 weeks NPTEL course on topic “Corrosion / Environmental Degradation / Surface Engineering” held between Jul-Oct 2023
7. Successfully completed 12 weeks NPTEL course on topic “Computer Integrated Manufacturing” held between, Jan-Apr 2023.
8. SUCCESSFULLY COMPLETING THE COURSE ON Social Emotional Education: Knowledge to Practice (SEEK) conducted by MGIEP in association with UNESCO.
9. Successfully Completing the Certificate Course on Panchayat Administration and Rural Development Schemes. Conducted By State Institute of Rural Development (SIRD)_ For 20 Days.
10. Attended and completed the Advantage Pro Certified AWS Course Training held at Advantage Pro through VILT From 19th June 2024 to 25th June 2024 by Vectra Technosoft private ltd.

WORKSHOPS ATTENDED:

1. Two days UGC sponsored workshop on “Advances in Lean Manufacturing and Applications (ALMA 2009)”, on 13th and 14th March 2009 at MIT campus Anna University Chennai, Chennai 600044.
2. Attended One day IE(I) sponsored seminar on “Electrical Safety & conservation”, on 17th June 2014 at Prathyusha Institute of Technology and Management Chennai-600025.
3. Two days AICTE sponsored National Level Seminar on “POWER ELECTRONICS FOR RENEWABLE ENERGY SYSTEMS” organized by Department of Electrical and Electronics Engineering at Prathyusha Institute of Technology and Management during 4th and 5th of December 2013.
4. Two days National level Workshop on “Revealing the Advances in Material Science”, Organised by Department of Physics, Sri Sai Ram Institute of Technology, from 19th July to 20th July 2016.
5. Attended Two weeks Technology based Entrepreneurship Development program (TEDP) on “CNC Machining Technology and Practices for Automobile Part Manufacturing” held at Advanced Training Institute, Guindy, sponsored by DST – NIMAT, EDI- INDIA, Government of India during 01.10.16 to 15.10.16.
6. Attended Webinar (6 Days) on Modern Materials and Industrial Automation conducted by Sri Sai Ram Institute of Technology Chennai-44 during 20th Jun to 25th June’2020.
7. 6 Days Weekend Webinar (16 hours) (Online Proficiency Improvement Program (OPIP), on Design & Analysis of ATV using ANSYS Software Organized by ARAI, Pune and ANSYS Software Private Ltd from 30th May 2020 to 20th June 2020.
8. Attended 1 Day Webinar (Online) on “Shape Memory Alloys for Mechatronics and soft Robotics systems organized by School of Mechanical Engineering, Satyabama Institute of Science and Technology, Chennai on 10th June2020.
9. 3 Days Online Workshop on “DOE- An Engineering Perspective organized by JAER from (22.04.20 to 24.04.20)
10. Webinar (Online) on “Engineering Simulation & Additive manufacturing for Aerospace and Defence Domains” organized by NAFEMS (ALTAIR) on 02.05.20.

11. E-Workshop on “Recent Trends in Automobile Engineering organized by SSN college of Engineering, Chennai.
12. Six days workshop on Tamil Technology from **20.03.2023 to 25.03.2023** at AU-TVS Auditorium, Anna University, Chennai - 600 025. Workshop timings 9.30 a.m. to 5 p.m

Workshops / Webinars / FDP Organised:

1. Five Days FDP on MMTC (Manufacturing, Machining and Testing of Composite Materials) Organised by Department of Mechanical Engineering, Sri Sai Ram Institute of Technology from 15.06.2020 to 16.06.2020.
2. Six Weeks (45 Days) Online Technology based Entrepreneurship Development Programme on “ Advanced Programming and Machining Skills in Computer Aided Machining Process (CAM) for Automation Industry organized by Department of Science and Technology, National Science and Technology Entrepreneurship Development Board, (DST- NSTEDB, Govt of India) and Sri Sai Ram Institute of Technology, Chennai-44 from 15-04-2021 to 27-05-2021.
3. one day Webinar (Online) on “New Trends on Vehicle Transmission System”, Organised by Department of Mechanical Engineering, Sri Sairam Institute of Technology, Chennai, on 20th November’ 2021.
4. One day Webinar (Online) on “ENERGY CONSERVATION and ENERGY EFFICIENCY” Organised by Department of Mechanical Engineering, Sri Sai Ram Institute of Technology in Association with Indian Society for Technical Education (ISTE) on 21.12.2021.

FACULTY DEVELOPEMNT PROGRAMS ATTENDED(FDP) Attended :

1. One week Faculty Development Training Programme on “**GE6253 Engineering Mechanics**” (from December 15 to 21, 2014) at Prathyusha Institute of Technology and Management, Chennai-600025.
2. One week Faculty Development Training Programme on “ **ME6401- Kinematics of Machinery**” organized by Department of Mechanical Engineering, Sri Sairam Institute of Technology, Chennai during 15th to 22nd December 2016.
3. Two days National Level Faculty Development Program on “ **Teaching Excellece in Engineering and Management Curriculum** ” organized by Department of Managemnet Studies, Sri Sairam Institute of Technology, Chennai. During the period of 20th & – 21st June 2016.
4. Two days Faculty Development program on “**Creative Thinking**” conducted by ICT Academy, held on Alpha college of Engineering , Chennai, on 8th and 9th May 2017.
5. Two days Faculty Development Programme on “ **Characterization of Materials**” organized by Department of Physics, Sri Sairam Institute of Technology, Chennai. During the period of 20th & – 21st July 2017.

6. Attended 3 days Faculty development program on “ **ME6501 Computer Aided Design** “ at Sri Sairam Engineering College (from 4th to 6th August’16).
7. Five Days FDP on “Autodesk Inventor”, conducted by ICT Academy from 04th June 2018 to 08th June 2018 held at Sri Sai Ram Institute of Technology, Chennai.
8. AICTE- ISTE sponsored Six Days Induction/ Refresher Programme on “Energy Conservation and Energy Audit” organized by Department of Mechanical Engineering, M. Kumarasamy College of Engineering, Karur, from 26.11.2018 to 01.12.2018.
9. Five Days National level FDP on “Engineering Teaching Pedagogy and Effective Learning Process” organized by Sri Sai Ram Institute of Management Studies-SSEC, and Department of Management studies- SSIT, from 03.12.2018 to 07.12.2018.
10. Five Days FDP (Online) on Advanced NDT Techniques & its Applications – NDT, Hyderabad, from 25.05.2020 to 29.05.2020.
11. Five Days FDP (Online) on Mechanical Behavior of Advanced Materials and Science, organized by SVCE, Sriperumbudur, Chennai, from 15.06.2020 to 14.06.2020.
12. Five Days FDP (Online) on Materials for Thermal and Renewable Energy Research, Organised by Department of Mechanical Engineering, organized by Sri Sai Ram Institute of Technology, Chennai, from 20.05.2020 to 24.05.2020.
13. Five Days FDP (Online) on “Novel Materials and its Industrial Applications, organized by Karpagam College of Engineering Coimbatore, from 13.05.2020 to 18.05.2020.
14. Five Days Online FDP on “ Introduction to FEA” organized by Department of Mechanical Engineering, Panimalar Institute of Technology, Chennai from 11.05.2020 to 15.05.2020.
15. Five Days FDP (Online) on “Introduction to Solidworks” conducted by ICT Academy, from 06.05.2020 to 12.05.2020.
16. Five Days FDP (Online) on CAD/CAM organized by NITTR Chandigarh, MHRD, from 27.04.2020 to 02.05.2020.

17. Six Days Short Term Training Programme (STTP) on FE Methods for Engineering Applications organized by Department of Mechanical Engineering, Sri Sai Ram Engineering College, Chennai, from 07.09.2020 to 12.09.2020
18. Six Days FDP on “Welding Technology “, organized by Department of Mechanical Engineering, Sri Sai Ram Engineering College, Chennai, from 06.01.2020 to 11.01.20.
19. AICTE Training and Learning Academy (ATAL) sponsored five days FDP (Online) on “Additive Manufacturing and Industrial Scopes and Applications” organized by Noida Institute of Engineering & technology (NIET) Greater Noida, from 09th Nov to 13th Nov 2020.
20. AICTE- ISTE (Online) Sponsored Five Days FDP on “Strategies in Teaching and Learning”, organized by Sri Sai Ram Institute of Technology, Chennai from 14.12.2020 to 19.12.2020.
21. 10 Days FDP (online) on Applications of AI in Digital Manufacturing” organized by Department of Mechanical Engineering, Sri Sairam Engineering College Chennai, from 21.02.2020 to 03.03.2020.
22. 5 Day Faculty Development Program on Product Design Engineering using Fusion 360 conducted by ICT Academy on 01 Aug 2022 to 05 Aug 2022 at Sri Sairam Engineering College, Chennai.
23. 12 weeks FDP ON NPTEL course on topic “Introduction to Composites” held between Jul-Oct 2025
24. 12 weeks FDP on NPTEL course on topic Automation in Manufacturing” held between Jul-Oct 2025
25. 12 weeks FDP on NPTEL course on topic “Metal Additive Manufacturing” held between Jul-Oct 2024
26. 12 weeks FDP ON NPTEL course on topic “Powder Metallurgy” held between Jul-Oct 2024.
27. 12 weeks FDP ON NPTEL course on topic “Corrosion / Environmental Degradation / Surface Engineering” held between Jul-Oct 2023
28. Participated in theF Professional Development Programme on 'Entrepreneurship Development and Startups ' conducted by this Institute from 27/05/2024 to 31/05/2024 from national institute of technical teachers training and research , chennai. 20 hrs in online mode,

CONFERENCES ATTENDED:

S.No.	Name of the Conference	Organizer	Month & Year
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1.	One day National Level Conference RAMS 2011 organised by Association of Mechanical Engineers, Departments of Mechanical Engineering	Madha Engineering College, Chennai	01.04.2011
2	International Conference Mechanical, Materials, and Manufacturing systems (ICMMMS'16)	Sri Sairam Engineering College on February 24 th and 25 th 2016.	February 24 th and 25 th 2016
3	2 Days National level Workshop on Revealing the Advances in Material science, Dept of Physics	Sri Sairam Institute of Technology, Chennai	27 th and 28 th Jan 2016
4	2 Days International Conference on Advances in Mechanical Engineering (ICAME'21)	Sri Sairam Engineering College Chennai	27 th and 28 th Jan'2021

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

1. Life member in “The Indian Society for Technical Education (ISTE)”.
2. Member in “Institute of Electrical and Electronics Engineers (IEEE)”.
3. 10 Years Member in “Society of Automotive Engineers (SAE)”.