


SRI SAI RAM ENGINEERING COLLEGE
DEPARTMENT OF MECHANICAL ENGINEERING

Name : Dr. S.ARUNPRASAD	
Designation:	Associate Professor
Qualification :	M.E., Ph.D.
Area of Specialization :	Manufacturing, IC Engines, Alternative Fuel
Experience :	Teaching : UG: 20 years 09 months PG : 01 year
	Industry : 1 year 8 months
No. of workshop / Conferences / FDP attended :	National Conference: 5 FDP / Workshop : 50
No. of workshop/ Conferences/ FDP/Webinar organised:	12
Funded Projects:	Applied 02 Sanctioned : -
Publication :	Journal National 1 International 17
	Conference National 1 International 8
Patents	Granted : -- Published : 02

Membership Details

1. Life member in ISTE
2. Member in IEEE
3. Member in Robotics and automation society
4. Member in IAENG
5. Associate Member in IEOM
6. Member in IFERP

Staff Achievements:

1. Anna University (GCT, Coimbatore) Rank holder in M.E
2. Published book titled 'Computer Integrated Manufacturing' for Anna University syllabus.
3. Mentor and Winner in Smart India Hackathon 2019 (Pune) event organized by MHRD,
July 8-12, 2019
4. Mentor and Winner in Smart India Hackathon 2020 event organized by MHRD,
5. Got Most Consistent and Active Mentor award in ATAL Tinkerpreneur 2021.
6. Got Appreciation award (2021-2022) for Skillrack performance of my mentees.

Educational Qualifications

Course	Institution	Year of Passing	Board/University	Percentage of marks (%)
Ph.D Alternate Fuels	GCE, Salem, Anna University	2021	Anna University	-
M.E (Manufacturing Engineering)	GCT, Coimbatore	2006	Anna University	8.52
B.E (Mechanical Engineering)	Govt. Engineering College, Erode(IRT T)	1997	Bharathiar University	69.72
H.S.C	Govt. Hr.Sec.School	1992	State Board	84.83
S.S.L.C	Govt. Boys Hr.Sec.School	1990	State Board	78.8

Experience : (Details)

S.No	Institution	Designation	Experience	
			Years	Months
1.	Sri Sai Ram Engineering College	Associate Professor	15	8
2.	PGP COLLEGE OF ENGINEERING & TECH.	Lecturer	5	1
		Total	20	9

S.No	Industry	Designation	Experience	
			Years	Months
1.	Tamil Nadu State Transport Corporation	Apprenticeship	1	-
2.	Ommi Forge Pvt. Ltd.,	Supervisor	-	8
		Total	1	8

Workshop/ FDP attended: (List)

S.No	Program Details	Program Venue	Date
1	AICTE Training and Learning (ATAL) Academy online FDP on "Trends & Challenges in Electric Vehicles"	Sri Eshwar College of Engineering, Coimbatore	20/09/2021 to 24/09/2021
2	AICTE Training and Learning (ATAL) Academy online FDP on "Basics of Electric Vehicles"	Thapar Institute of Engineering & Technology.	10/09/2021 to 14/09/2021
3	Two-day Awareness Workshop on Improving Research & Performance Outcomes	Researcher Academy On Campus, Elsevier	31.08.21 & 01.09.21
4	One day Workshop on Innovation	Periyar maniammai institute of Science and Technology, tanjavur	18.08.21
5	AICTE-Online Orientation Training programme for mentors	NITTT, Chennai	26.07.21-30.07.21
6	AICTE organised 5 days FDP on "Inculcating Universal Human Values in Technical Education"	AICTE-ONLINE	12.07.2021-16.07.2021
7	Five days online FDP on Design of Experiments	Bharath Institute of higher education and Research, Chennai	28.06.2021-02.07.2021
8	Workshop on 'academic research: multiple perspectives'	VIT, Chennai	30.06.2021
9	One Week National Level Online Faculty Development Program on "	Department of Mechanical engineering, Vemu Institute of	21.06.2021-25.06.2021

	Innovations in Materials and Manufacturing Processes (IMMP-2021)”	technology, P.Kothakota, AP.	
10	Five days online FDP on Advance thermal Energy systems	Bharath Institute of higher education and Research, Chennai	21.06.2021-25.06.2021
11	AICTE – ISTE Sponsored 7 days INDUCTION / REFRESHER PROGRAM (Online) on “Advanced Training Program on Teaching (Phase –I)”	Department of Computer Science and Engineering, Malla Reddy Engineering College (Autonomous) , Hyderabad, Telangana	09.02.2021-15.02.2021
12	Workshop on Grant Writing under Physical Sciences domain	STARS, IISc, Bangalore	07.12.2020
13	Two Week AICTE sponsored onlineFDP on “Frontier of 3D Printing Technology and Its Industrial Applications”	Department of Mechanical EngineeringCollege of Engineering, LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING Mylavaram,Krishna (Dt.),AP.	07.12.2020-19.12.2020
14	ISTE sponsored Three days workshop on “ Research and development activities”	Sri Sairam Engineering College,chennai	28.12.2020-30.12.2020
15	AICTE sponsored six days virtual short term training programme on “Finite Element Method for Engineering Applications”	Sri Sairam Engineering College,chennai	05.10.2020-10.10.2020
16	AICTE sponsored six days short termtraining programme on “Cyber physical Manufacturing systems for future industries (CPMS)”	IFET college of Engineering,Villupuram	07.09.2020-12.09.2020
17	AICTE Training and Learning (ATAL) Academy online FDP on “Alternative Fuels”	Government Engineering CollegeBikaner.	01.09.2020-05.09.2020
18	AICTE sponsored six days virtual short term training programme on “Finite Element Method for Engineering Applications”	Sri Sairam Engineering College,Chennai.	03.08.2020-08.08.2020
19	AICTE sponsored 6 days STTP on Electronic Vehicles-An opportunity for India	RMK college of Engineering and Technology, Chennai	13.07.20 to 18.07.20
20	Six days Faculty Development Programme on “RECENT INNOVATIONS AND FUTURISTIC SCOPE FOR RESEARCH IN INTERNAL	St. Joseph’s College of Engineering, Chennai	29.06.20 to 04.07.20

	COMBUSTION ENGINES”		
21	One week online FDP on Recent Trends in Mechanical Engineering	Narsimha Reddy Engineering College,Telungana	22.06.20 to 26.06.20
22	Two weeks online FDP on Advancements in Biotechnology and Chemical Engineering	Vel Tech High Tech,Chennai	08.06.20 to 19.06.20
23	AICTE Training And Learning (ATAL) Academy Online FDP on "Artificial Intelligence".	FEDERATION OF INDIAN CHAMBERS OF COMMERCE AND INDUSTRY (FICCI).	15-06-2020 to 19-06-2020
24	One Week Online Faculty Development Programme on “ <i>Applications of Finite Element Analysis (FEA) and Computational Dynamics (CFD) using ANSYS</i> ” Sponsored by Technical Education Quality Improved Programme (TEQIP-III)	Government College of Engineering, Karad & Rajikiya Engineering College, Azamgarh	June 13- 17, 2020
25	One week online Faculty Development Program on “APPLICATION OF CAD TOOLS IN DRAWING COURSES”	Department of Mechanical Engineering, Geethanjali College Of Engineering & Technology (Autonomous) Cheeryal (V), Keesara (M), R.R. Dist. 501301	09-06-2020 to 13-06-2020.
26	Five day Online Faculty Development Program on “Mechanical Behaviour of Advanced Materials and Its Scope for Engineering Applications.	Department of Mechanical Engineering, Sri Venkateswara College of Engineering, Pennalur , Sriperumbudur Tk, 602117	10th to 14th June, 2020.
27	5 days International Faculty Development Program on Emerging Research Areas in Engineering ”	Department of Mechanical Engineering in Association with The Institution of Engineers (India), SRM Institute of Science and Technology, Ramapuram Campus, Chennai-600089, from	5th June to 9th June 2020
28	Five days Online Faculty Development Program on "Advanced Energy Conversion Technologies"	Thermal Division, Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur campus, Chennai	27th – 31st May, 2020.
29	Five days Faculty Development Programme (Online Mode) on	Department of Mechanical Engineering,	11.5.2020 to 15.5.2020.

	“Introduction to Finite Element Analysis.	Panimalar Institute of Technology, Varadharajapuram, Poonamallee, Chennai – 600 123.	
30	AICTE sponsored 15 days FDP on Opinion Mining: An insight in to social media for customer services	SIMS, Sri Sai Ram Engineering College, Chennai	05.12.2019-20.12.2019
31	ISTE sponsored Six Days FDP on Robotics	Department of Mechanical Engineering, Sri Sai Ram Engineering College, Chennai	13 th May-18 th May 2019
32	FDP on Outcome Based Education	IQAC ,Sri Sairam Engineering College	5 th and 6 th April 2019
33	Two Day Workshop on "Finite Element Analysis and its Industrial Applications"	Department of Production Engineering, Sri Sai Ram Engineering College, Chennai	6th & 7th August, 2018
34	Faculty Development Training Programme on "AUTOMOBILE ENGINEERING"	Department of Mechanical Engineering, Sri Sai Ram Engineering College, Chennai	29 th November to 5 th December 2017
35	Faculty Development Programme on GLIMPSES OF ENGINEERING METALLURGY	C.K College of Engineering and Technology, Cuddalore	17 th December, 2016.
36	Two day National level workshop on “DESIGN OF EXPERIMENTS”	Sri Sai Ram Institute of Technology, Chennai	24 & 25 th July, 2015
37	One day workshop on “Role of Lean Manufacturing on Organization Competitiveness”	Sri Sai Ram Engineering College, Chennai	August 28, 2014
38	Industrial – Institution Event on “ENVIRONMENTAL MANAGEMENT IN INDIAN SECTORS - STATUS AND NEEDS”	Sri Sai Ram Engineering College, Chennai	24 – 25 th July, 2014
39	AICTE SPONSORED FDP on “Advancements In Materials, Manufacturing Processes And Management Systems”	Sri Sai Ram Engineering College, Chennai	4 – 16 th November, 2013
40	Faculty Development Program on “Advanced I.C Engines”	Anna University, Chennai	10-17 th December , 2012
41	National Level Seminar on “Trends, Elements And Applications Of Mechatronics”	G.K.M College of Engineering and Technology	April 21 st , 2012
42	One day Workshop “Art of Journal and Thesis Writing”	Sri Sai Ram Engineering College, Chennai	19 th January, 2012

43	Two days National Level Workshop on “Smart Sensors For Industrial Applications”	Sri Sai Ram Engineering College, Chennai	1 st & 2 nd December 2011
44	SDP ON “Recent Developments in Manufacturing & Management”	Mechanical Engineering, SEC, Chennai	July 25-30, 2011
45	National Level Workshop on “Virtual Instrumentation In Industrial Automation”	Sri Sai Ram Engineering College, Chennai with TRIDENT TECHLABS.	June 24-25, 2011
46	UNDERGONE TRAINING ON “CNC LATHE TRAINING”	Lakshmi machine works, Coimbatore.	December 6-10, 2010
47	FDP-Hydraulic systems and its Recent Trends	Sri Sai Ram Polytechnic College, Chennai	13.07.09 - 26.07.09
48	AICTE Sponsored Staff Development Programme on Instructional Design & Delivery	Sri Sai Ram Engineering College, Chennai.	
49	Pneumatic Training Program	Janatics India Private Ltd, Coimbatore	18.12.2006-20.12.06
50	International Conference on e-learning	P.G.P.College of Engg and Tech, Namakkal	March 6 & 7, 2004

Workshop/Conferences/FDP/ Symposium organized: (List)

1. Organized FDP On Mechatronics Engineering sponsored by Anna university Chennai (11.06.2007-23.06.2007) at SSEC, Chennai
2. Organized 1st **National level Technical symposium “SAIPRODUXIO”** presents **PROBEO** on **March 2, 2012** under the Banner of **Society of Production Engineers.**
3. Organized one day workshop on “**Industrial Applications of Jigs, Fixtures and Press Tools**” on 19th March , 2018.
4. Organized 3 days “**Entrepreneurship Awareness Camp**” from 11.02.2019-13.02.2019 sponsored by IEDC cell, MHRD.
5. Organized **1st National level Design Contest “SAIPRODUXIO”** presents **D.O.P.E FEST 19** on 4th September 2019 under the Banner of Society of Production Engineers.

6. Organized Webinar “ INDUSTRY 4.0” on 20.05.2020 under the Banner of Society of Production Engineers.
7. Organized Webinar on “Coding Training in C Programming & Python” from 19.10.2020 to 21.10.2020 for Skill Development Club under the banner of Society of production engineers
8. Organized Webinar on “Coding Training in Python” from 04.02.2021 to 09.02.2021 for Skill Development Club under the banner of Society of production engineers.
9. Organized “Hands on Training on AutoCAD software for Engineering application” for Automobile Club on 26.03.2021
10. Organized NAAC sponsored Two days National level seminar on “Revised Accreditation Framework for Quality Enhancement in Higher Educational Institutes” on 14.07.2021 & 15.07.2021 under the banner of IQAC.
11. Organized workshop on Auto CAD from 25.10.2021 to 01.11.2021 for Skill Development Club under the banner of Society of production engineers, Department of Production Engineering.
12. Organized Webinar on “Awareness program on SIH2022” on 16.02.2022 for Skill Development Club under the banner of Society of production engineers, Department of Production Engineering.

Patents:

1. Published patent titled” FABRICATION OF AXIAL FAN BLADE WITH GLASS FIBER AND HUMAN HAIR COMPOSITE” on 23.04.2021.
2. Published patent titled” CRATUS-THE BAG OF FUTURE” on 11.06.2021.

Resource person in FDP/ Conference: 02

Funded projects (List) – 2 (TANSEED, TNSCST)

Publication:(Details)

- Mr.S.Arunprasad, Published a paper on “**Optimization of Injection Pressure on Performance and Emission Characteristics of Diesel Engine Using Waste Cooking Oil**”, Journal of Physics: Conference Series, **SCOPUS** Indexed Journal , 2054 (2021) 012015, doi:10.1088/1742-6596/2054/1/012015
- Mr.S.Arunprasad, Published a paper on “ **Numerical and experimental evaluation on the pooled effect of waste cooking oil biodiesel/diesel blends and exhaust gas recirculation in a twin-cylinder diesel engine**”, Fuel, **SCI**, **Web of Science** indexed Journal , 287 (2021) 119815, <https://doi.org/10.1016/j.fuel.2020.119815>, March 2021.
- Mr.S.Arunprasad, Published a paper on “**Multi response Optimization of Welding Parameters in Dissimilar Plasma Arc Welded Joints Using RSM Based GRA Coupled with PCA**”, IOP Conference Series: Materials Science and Engineering, **SCOPUS** Indexed Journal , 954(2020) 012034, doi:10.1088/1757-899X/954/1/012034, October 2020.
- Mr.S.Arunprasad, Published a paper on “**Performance and Emission Characteristics of C.I Engine using Jatropha and Pongamia Mixed Biodiesel**”, IOP Conference Series: Materials Science and Engineering, **SCOPUS** Indexed Journal , 954(2020) 012029, doi:10.1088/1757-899X/954/1/012029, October 2020.
- **Mr.S.Arunprasad**, Published a paper on “Analysis And Implementation Of Productivity Improvement In Cylinder Head Rough Machining”, Ilkogretim Online - Elementary Education Online, 2020; Vol 19 (Issue 4): pp. 6896-6906, doi: 10.17051/ilkonline.2020.04.765095

- **Mr.S.Arunprasad**, Published a paper on “Evaluation Of Mechanical Properties Of Magnesium [AZ91] Reinforced With Carbon Nanotubes And Sic/Al₂O₃”, Ilkogretim Online - Elementary Education Online, 2020; Vol 19 (Issue 4): pp. 6907-6914, doi: 10.17051/ilkonline.2020.04.765096

- **Mr.S.Arunprasad**, Published a paper on “Experimental Study On The Performance, Emission Characteristics Of C.I Engine Using Waste Cooking Oil”, Ilkogretim Online - Elementary Education Online, 2020; Vol 19 (Issue 2): pp. 1863-1868, doi: 10.17051/ilkonline.2020.02.696770

- **Mr.S.Arunprasad**, Published a paper on “Design And Development Of Braces For Flat Foot Ankle Injury Using Solid Works”, Ilkogretim Online - Elementary Education Online, Online, 2021; Vol 20 (Issue 1): pp. 5115-5124, doi: 10.17051/ilkonline.2021.01.546

- **Mr.S.Arunprasad**, Published a paper on “Mechanical Property Of Glass Fiber With Coir Fiber For Automobile Mudguard”, Ilkogretim Online - Elementary Education Online, 2020; Vol 19 (Issue 3): pp. 4618-4625, doi: 10.17051/ilkonline.2020.03.735615

- **Mr.S.Arunprasad**, Published a paper on “**Mechanical Properties of Kevlar Fibre Reinforced With Banana Fibre and Aluminium Mesh using Epoxy Resin**”, International Journal of Recent Technology and Engineering (IJRTE), SCOPUS Indexed Journal , Volume-8 Issue-5, pp 447-450,January 2020.

- **Mr.S.Arunprasad**, Published a paper on “**Productivity improvement in gravity die casting flywheel housings through implementation of regenerative circuited hydraulic power pack**”, **Journal of Emerging Technologies and Innovative Research (JETIR)**, UGC Approved Journal ,Vol 6 ,Issue 6,Pages 303-306, **June 2019**.

- **Mr.S.Arunprasad**, Published a paper on “**Analysis and Reduction of surface defects in cars**”, **International Journal of Engineering Research in Computer Science and Engineering (IJERCSE)**, UGC Approved Journal ,vol 5 Issue 3, Pages 953-955, March 2018.

- **Mr.S.Arunprasad**, Published a paper on “**Experimental investigation on the performance and emission characteristics of a diesel engine by varying the injection pressure and injection timing using mixed biodiesel**”, **International Journal of Green Energy**, Taylor & Francis, Web of Science Indexed, Pages 376-384, <https://doi.org/10.1080/15435075.2018.1464923>, April 2018.

- **Mr.S.Arunprasad**, Published a paper on “**Influence of Addition of Silicon on Mechanical Properties of Aluminum – Zinc alloy**”, **International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) - SCOPUS INDEXED**, ISSN(Print) : 2249-6890, ISSN(Online) : 2249-8001, Vol. 8, pp. 113 - 120, April 2018.

- **Mr.S.Arunprasad**, “**Optimization Of Performance Parameters of a C.I Engine Fueled With Neem Bio Diesel Using Taguchi Technique**”, **Advanced Materials Research (AMR)**, Vols. 984-985, pp. 867 - 872, July 2014.

- **Mr.S.Arunprasad**, “**Performance and Emission Characteristics of a Mixed Biodiesel Fueled C.I Engine**”, **Applied Mechanics and Materials (AMM)**, Vols.766-767, pp. 557 - 561, February 2015.

- **Mr.S.Arunprasad**, “**Influence of Compression ratio on C.I engine performance &Emission characteristics fueled by mixed biofuel**”, **International Journal of Applied Engineering Research**, ISSN 0973-4562, Vols.10 No.50, 2015.

- **Mr.S.Arunprasad, “ An Experimental Investigation on NO_x reduction in a Bio-fuel single cylinder C.I.Engine by EGR Technigue”, SSEC Tech journal, 2008.**

Conference :(list)

- **Mr.S.Arunprasad, Presented a paper on “Applications of Wonder Material – A Review on modern application of Graphene”, in Third International Conference on Innovative & Emerging Trends in Engineering and Technology (ICIETET’18) organized by Panimalar Institute of Technology, in association with CSI, IETE, IEEE, ISTE, ICTACT, IET and SAEINDIA on March 9, 2018.**
- **Mr.S.Arunprasad, Presented a paper on “Reducing the manufacturing lead time by modifying the welding process”, in International conference on “Mechanical, Materials and Manufacturing systems”(ICMMMS'16), Sri Sai Ram Engineering College, Chennai on February 24 & 25, 2016.**
- **Mr.S.Arunprasad, Presented a paper on “Performance and emission characteristics of a mixed biodiesel fueled C.I engine”, in International Conference on “Advances in Material and Manufacturing Engineering” (ICAMME’14), Sri Sairam Engineering College, Chennai on December 19 & 20, 2014.**
- **Mr.S.Arunprasad, Presented a paper on “Optimization of Performance Parameters of A C.I Engine Fueled With Neem Bio Diesel Using Taguchi Technique”, in International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments (ICRAMID-2014), Ponjesly College of Engineering, Nagercoil on March 7 & 8, 2014.**

- **Mr.S.Arunprasad**, Presented a paper on **“Weight Distribution In Carousel Storage System Using Programmable Controller”**, in International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments (ICRAMID-2014), Ponjesly College of Engineering, Nagercoil on March 7 & 8, 2014.
- **Mr.S.Arunprasad**, Presented a paper on **“Optimization of Engine parameters of four stroke single cylinder C.I Engine using biodiesel using taguchi method”**, Tagore Engineering College, Chennai on May 23-24, 2013.
- **Mr.S.Arunprasad**, Presented a paper on **“Design and Manufacture of a Tilttable Welding Positioner”**, G.K.M College of Engg & Technology, Chennai on March 16, 2011.
- **Mr.S.Arunprasad**, Presented a paper on **"A simple approach to formulate project planning and cost management for Entrepreneurs"**, Sri Sai Ram Engineering College, Chennai on April 17, 2008.
- **Mr.S.Arunprasad**, Presented a paper on **"Optimization of riser diameter for Al-alloy casting using ANSYS Software"**, Sri Sai Ram Engineering College, Chennai on April 17, 2008.
- **Mr.S.Arunprasad**, Presented a paper on **"An Experimental Investigation on NOx reduction by EGR in a Bio-fuel single cylinder C.I.Engine"**, Sri Jayachamarajendra College of Engineering on November 17 - 18, 2006.
- **Mr.S.Arunprasad**, Presented a paper on **“An evaluation of cylindrical riser design with insulating material for Al-alloy casting using ANSYS”**, VIT, Vellore on July 19 - 22, 2006.

Online Course:

- **Mr.S.Arunprasad**, completed NPTEL online certification program on “**THEORY AND PRACTICE OF NON DESTRUCTIVE TESTING**” and received **ELITE CERTIFICATE** for the Successfully Completion.
- **Mr.S.Arunprasad**, completed NPTEL online certification program on “**FUZZY LOGIC AND NEURAL NETWORKS**”
- └ **Mr.S.Arunprasad**, completed online certification program on “**The complete Data Science and Machine Learning using Python**”
- └ **Mr.S.Arunprasad**, completed 50 online certificate Courses in Coursera.
- └ **Mr.S.Arunprasad**, completed 3 online certificate Courses in Future Skills