Name: Dr. Sivasankara Raju R

Employee ID: A5MEC00T57

PAN Card No: AUGPR0586A

PF No: 100287490311 (UAN)

Designation: Associate Professor

Department: Mechanical Engineering

Date of Birth: 05-07-1985

Father Name: Sri Brahma Raju Rallabandi

Mother Name: Smt. Lakshmi Rallabandi (Late)

SC	ST	BC- A/B/C/D/E	OC

Reservation Category if Any _**BC-D**_
Address: D.No:1-49, Beside Grama Panchayithi office, Gandi Gunta, Krishna-521165.

Mobile Number: 8093469774

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Date of Joining in the Institution: 03-06-2018

Academic Excellence:

QUALIFICATION	BOARD / UNIVERSITY	DIVISION	YEAR
Ph. D (Mech. Eng.)	Acharya Nagarjuna University		2019
M. Tech., (CAD/CAM)	Acharya Nagarjuna University	Distinction	2011
B.E. (Mech. Eng.)	JNTU Hyderabad	First Class	2007

Total Years of Experience (Teaching/Industry): 11 Years

Period		Organization/Institution	Designation
July 2019	Till date	AITAM, Tekkali	Associate Professor
Dec 2018	July 2019	AITAM, Tekkali	Assistant Professor
Oct 2011	Nov 2018	GIET, Gunupur, Odisha	Assistant Professor
Nov-10	Oct-11	Universal College of Engineering & Technology, Dokiparru	Lecturer
April-2008	Aug-2009	Megha engineering &Infra structures LTD	Site Engineer
April -2007	March 2008	Sree Vertex Enterprisers, Kakinada	Trainee Engineer

MEMBERSHIP WITH PROFESSIONAL BODIES

1. Professional Affiliations: life member of IEI-AM1584726.
2. IAENG membership number is 190143.
3. Indian Society For Technical Education (ISTE) Life member
4. Institute for Engineering Research and Publication (IFERP): 17268510, PMIN75083196
5. Institute for Engineering Research and Publication (IFERP): PMIN75083196
6. International Society for Research and Development (ISRD): SM3140905735
7. National Institute For Technical Training & Skill Development (NITTSD): 08466

REVIEW MEMBER

Name of the Journal	Publisher	Reviewed Manuscript No.
Tribology In Industry	Serbian Tribology Society	TI-ID 920
Metals and Materials International (MAMI)	Springer	MAMI-D-20-00003
Tribology International	Elsevier	TRIBINT-D-20-00413
Tribology International	Elsevier	TRIBINT-D-20-00926
International Journal of Engineering and Technology	ESN Publishers	ESN ESNJA307
Cogent Engineering	Taylor & Frances	COGENTENG-2019-0516
Metallurgical and Materials Transactions A	Springer	E-TP-19-1090-A
Journal of Modern Chemical Science	Herald Scholarly Open Accesses, USA	HMCS-19-004
International Journal of Mechanical Engineering	InSc	InSc-2020-8351
Tribology In Industry	Serbian Tribology Society	TI-ID 522
2nd International Conference on Metal Material Processes and Manufacturing	(2nd ICMMPM2019), South Korea	ICMMPM2019-40

PROJECTS DONE DURING MY CAREER

1. **B.E PROJECT:** Failure reorganization and Improve thermal Efficiency of Hot tube boiler

2. **M.Tech PROJECTS**

(i) Mini Project: Design and Analysis of Snap Fit Joint using Finite Element Analysis

(ii) Main Project: Application of FEM in the Analysis of Centrifugal Blower Assembly

3. **PhD WORK:** Fabrication, Characterization and Tribological Performance of Aluminium Coconut Shell Ash Particulate Composites

4. **MSME PROJECT Applied:**

- A project **Interlocking Plastic Bricks** has been shortlisted by Odisha state MSME committee and final presentation in progress with a grant of 4.95 Lac.
- A project **PORTABLE MECHALTI KIT** has been shortlisted by Odisha state MSME committee and final presentation in progress with a grant of 4.03 Lac.

PROJECTS GUIDED/GUIDING

1. **B.Tech Projects:** Guided – 21, Guiding - 02
2. **M.Tech PROJECTS:** Guided – 09 Guiding - 01
3. **PhD WORK:** Nil

PAPERS PUBLISHED

INTERNATIONAL JOURNALS

Sl.no	Name of Co-Authors	Title of the paper	Name of the Journal	Date of Published	Vol.no	Issue No.	Page no.	Doi	ISBN/ISSN no.	Scopus/SCI/UGC
1.	Siva Sankara Raju, and S.B.Venkata Siva	Fabrication and Tribological Studies of Al-CSA Composite Using RSM	International Journal of Materials Engineering Innovation (IJMATEI).	Jun-21	12	2	83-102	10.17485/ijst/2017/v10i15/113826		Scopus
2.	C J Rao,Sivasankara Raju R,Sreeramulu D,Sagar Yanda	Fabrication and Evaluation of Optimized Parametric Condition during EDM Machining of Al-CSA Composite Using Taguchi Orthogonal Array",	Advances in Design and Thermal Systems: Lecture Notes in Mechanical Engineering	May-21			411-420	10.1007/978-981-33-6428-8		**Scopus**
3.	Siva S Raju, Gunji B murali, and Prabina K Patnaik	Ranking OF Al-CSA Composite by MCDM Approach Using AHP-TOPSIS and MOORA Method	Journal of Reinforced Plastics and Composites	Jun-20	39	19-20	732, 2020	DOI: 10.1177/0731684420924833		SCI
4.	Siva Sankara Raju, C J Rao, Sreeramulu D, Prasad K	Evaluation of Optimization Parametric condition during Machining for Al-CSA composite using Response Surface Methodology	Innovative Product Design and Intelligent Manufacturing Systems: Lecture Notes in Mechanical Engineering	May-20			469-476,	https://doi.org/10.1007/978-981-15-2696-1_46		Scopus

5.	Vikash Kumar K, Siva Sankara raju R,	Statistical Modeling and Optimization of Al-MMCs Reinforced with Coconut Shell Ash Particulates	Innovative Product Design and Intelligent Manufacturing Systems: Lecture Notes in Mechanical Engineering	May -20			703-712	https://doi.org/10.1007/978-981-15-2696-1_67		Scopus
6.	Siva Sankara Raju R, Venkata Siva B, Srinivasa Rao G	Quantitative Analysis of Tribological Performance on Al–CSA Composite Using Orthogonal Array	Advances in Applied Mechanical Engineering (Lecture Notes in Mechanical Engineering)	Jan-20			381-389	https://doi.org/10.1007/978-981-15-1201-8	ISSN 2195-4356 ISSN 2195-4364 (electronic)	**Scopus**
7.	P.Thimothy, Siva Sankara Raju and Ch. Ratnam	Development and Accretion of Tribological Performance on AlCSA Composites using Orthogonal Array	Materials Today: Proceedings	Nov-19	18	*7*	5332 – 5339	https://doi.org/10.1016/j.matpr.2019.07.558	*2214-7853*	**Scopus**
8.	Siva Sankara Raju, K.Pawan Sai Kumar,G.Manoj Kumar,I.Kiran Kumar, Deepak Singh	SIMULATION OF ROLLING OPERATION ON AL- CSA COMPOSITES BY USING DEFORM 3D	JETIR	Apr-19	6	4	459-464		2349-5162	**UGC**
9.	Siva Sankara Raju, G.Srinivasa Rao, Chitrasen Samantra	Wear Behavioral Assessment of Al-CSAp-MMCs using Grey-fuzzy Approach	Measurement	Apr-19	140		254-268	https://doi.org/10.1016/j.measurement.2019.04.004		**SCI**
10.	Raju, Siva Sankar; Rao, G Srinivasa;	Assessment of tribological performance of Al-Coconut shell ash particulate—MMCs using grey-fuzzy approach	Journal of The Institution of Engineers (India): Series C	Feb-19	100	1	13-22	https://doi.org/10.1007/s40032-017-0388-4	2250-0545	**Scopus**
11.	RSS Raju, MK Panigrahi, RI Ganguly, GS Rao	Tribological behaviour of al-1100-coconut shell ash (CSA) composite at elevated temperature	Tribology International	Jan-19	129		55-66	https://doi.org/10.1016/j.triboint.2018.08.011		**SCI**

12.	Thimothy, P; Ratnam, Ch; Raju, Siva Sankar;	ASSESSMENT OF TRIBOLOGICAL PERFORMANCE OF AL/CSA COMPOSITESUSING RSM	International Journal of Mechanical Engineering and Technology (IJMET)	Dec-18	9	13	442–451	Article ID: IJMET_09_13_046	ISSN Print: 0976-6340 and ISSN Online: 0976-6359	**Scopus**
13.	Raju, Siva Sankar; Rao, G Srinivasa; Siva, B Venkata;	Experimental studies of mechanical properties and tribological behaviour of aluminium composite reinforced with coconut shell ash particulates	International Journal of Materials Engineering Innovation	Aug-18	9	2	140-157	https://doi.org/10.1504/IJMATEI.2018.093812	Print ISSN: 1757-2754 Online ISSN: 1757-2762	**Scopus**
14.	Raju, Siva Sankar; Thimothy, P; Ratnam, Ch;	Estimation of physical, mechanical and machinability properties of Al-MMCs reinforced with coconut shell ash particulates	Ceramic Sciences and Engineering	Aug-18	1	2	001-009	DOI: http://dx.doi.org/10.24294/cse.v0i0.703	ISSN: 2578-1626 (Online)	**UGC**
15.	Raju, R Siva Sankara; Panigrahi, MK; Ganguly, RI; Rao, G Srinivasa;	Optimization of tribological behaviour on Al-coconut shell ash composite at elevated temperature	IOP Conference Series: Materials Science and Engineering	Aug-18	314	1	12009		ISSN. 1757-8981	**SCI**
16.	R. Siva Sankara Raju, M. K. Panigrahi, R. I. Ganguly, G. Srinivasa Rao	Investigation of Tribological Behaviour of a Novel Hybrid Composite Prepared With Al-Coconut Shell Ash Mixed With Graphite	Metallurgical and Materials Transactions A	Jul-17	48	8	3892 – 3903	10.1007/s11661-017-4139-1		**SCI**
17.	Siva Sankara Raju, G.Srinivasa Rao	Assessment of Tribological performance of Coconut Shell Ash Particle Reinforced Al-Si-Fe Composites using Grey-Fuzzy Approach	Tribology in industry	Oct-17	39	3	364-377	: 10.24874/ti.2017.39.03.12		**Scopus**
18.	Siva Sankara Raju , G.Srinivasa Rao	Estimation of Tribological Performance Of Al-CSA Composites Using RSM-GRG Approach	VSRD International Journal of Mechanical, Civil, Automobile and Production Engineering	Oct-17	VII	X	267-274			

19.	Siva Sankara Raju, Ajit.Ku.Senapathi, Gunji Srinivas Rao	Estimation of tribological performance of Al-MMC reinforced with a Novel In-Situ ternary mixture	Indian Journal of Science and Technology	Apr-17	10	15	001-009	10.17485/ijst/2017/v10i15/113825		**Web of Science**
20.	K.Senapathi, Siva Sankara Raju, Gunji Srinivas Rao	Tribological Performance of Al-MMC Reinforced with Treated Fly Ash Using Response Surface Methodology	Indian Journal of Science and Technology	Apr-17	10	15	001-009	10.17485/ijst/2017/v10i15/113824		**Web of Science**
21.	Siva Sankara Raju, Gunji Srinivas Rao	Assessments of Desirability Wear Behaviour on Al-Coconut Shell Ash –Metal Matrix Composite Using Grey – Fuzzy Reasoning Grade	Indian Journal of Science and Technology	Apr-17	10	15	001-011	10.17485/ijst/2017/v10i15/113826		**Web of Science**
22.	Himansu Mohanty, Subhankar Chowdhury, Bikash Kumar Rout, Suraj Kumar Panda,Swarup Sampad Biswal, Siva Sankar Raju R	Study on Mechanical and Machinability Properties of Aluminium Coconut shell ash by Taguchi Approach	International Journal of Innovative Research in Technology	Apr-17	3	11	68-74			**UGC**
23.	Trilochan Mahanta,Priyabrat Samal,Sashi bhushan Harichandan, Manish Kumar Singh,Nalini nirodha Pradhan and Siva Sankara Raju	Study On Mechanical And Machinability Properties Of Al-Al2O3 Composites	International Journal of Innovative Research in Technology	Feb-17	3	11	112-117			**UGC**
24.	Biswajit Panda, Amit Kumar Mahato, Challarapu Varun & Siva Sankara Raju R	Wear behavior of aluminum based composite reinforced with coconut shell ash	IJIR	Mar-16	Vol - 2	issue - 5	188-192			
25.	Ankesh Kumar, Kanhaiya Kumar, Suman Saurav &Siva Sankar Raju R	Study of physical, mechanical and machinability properties of aluminium metal matrix composite reinforced with coconut shell ash	IJIR	April, 2016	VOL - 2	ISSUE - 5	151-157			

		particulates								
26.	Sunil Kr. Rajbanshi , Raghuna Nandan kumar giri, Suraj Gurung & S.S.Raju	Mach inability study on aluminum metal matrix composite using finite element analysis	IJIR	April , 2016	Volu me-2,	ISSUE - 5	1070-1074			
27.	M.M.I.Zakir Hussain, Nadi Bidyadhara, Nimish Kumar Panda, Siva Sankar Raju	Optimization of spot welding parameter to improve weld charadteristics for similar metals using taguchi approach	IJEMR	Feb-16	Vol - 6	issue - 2	233-239			
28.	Abhishek Prakash, Raj Kumar Bag, Papin Ohdar, Siva Sankar Raju	Parameteric optimization of metal inert gas welding by using taguchi approach	IJRET	Feb-16	Vol - 5,	issue - 2	176-182			**UGC**
29.	Siva Sankara Raju R, G. Srinivasa Rao, M.Muralidhar Rao	Optimization of Machinability Properties on Aluminium Metal Matrix Composite Prepared By In-Situ Ceramic Mixture Taguchi ApproachUsing Coconut Shell Ash -	International Journal of Conceptions on Mechanical and Civil Engineering	August - 2015	3	2	17-21			
30.	Siva Sankara Raju R, Karun Kumar Y, Pragathi Kumar G	Design and Analysis of Rocket Motor Casing by Using Fem Technique “Siva Sankara Raju R in	International Journal of Engineering and Advanced Technology (IJEAT)	Feb-13	Volu me-2	Issue-3	70-74			**UGC**
31.	Siva Sankara Raju R, D.Ashok, Thimothy Pandi	Determination of Stress and Deformations Analysis on LPG Steel Cylinder	International Journal of Engineering Research and Applications (IJERA)	January - February 2013	Vol. 3	Issue 1	733-737.			**UGC**
32.	Narayan Parida, Siva Sankara Raju R, K. C. Rath	Load Calculation & Selection of Bearing for Low Pressure Compressor (Lpc) For Al -31fp Engine	International Journal of Engineering Research & Technology (IJERT)	Dec-13	Vol. 2	Issue 12	322-335.			**UGC**

INTERNATIONAL CONFERENCES

1. C J Rao,**Sivasankara Raju R**,Sreeramulu D,Sagar Yanda, Fabrication and Evaluation of Optimized Parametric Condition during EDM Machining of Al-CSA Composite Using Taguchi Orthogonal Array, International Conference on Emerging Trends in Design, Manufacturing, Materials and Thermal Sciences, B.S. Abdur Rahman Crescent Institute of Science& Technology during 24&25thSep 2020.
2. Srihari Palli , **Siva Sankara Raju.R**, Varaprasad.V, and Dinesh.P, Simulation of Dynamic Response of Automotive Vehicle Suspension Using MATLAB and Simulink, Virtual Conference on "Mechatronics, Automation and Cyber Physical Systems" (MAC 2020), VIT, Chenni, TN, 26 & 27 June 2020.
3. Sreeramulu D, **Sivasankara Raju R**, C J Rao, Raghuveer D, "Design of Automated Braking System Depending On Vehicle over Speed Using PLC Ladder Method and WPL Soft Software", Virtual Conference on "Mechatronics, Automation and Cyber Physical Systems" (MAC 2020), VIT, Chenni, TN, 26 & 27 June 2020.
4. Sagar Yanda, Gunji Bala Murali , **Siva Sankara Raju**, Bill Jason Duckworth , Chandra Sen, Sidakdeep Singh Chadha "Design Optimization of Universal Joints for All-Terrain Vehicles", International Conference on Design, Automation and Control 2020 (ICDAC 2020) January 6 - 8, 2020, Vellore, India.

5. Sagar Yanda, Gunji Bala Murali , **Siva Sankara Raju**, Bill Jason Duckworth , Chandra Sen, Sidakdeep Singh Chadha, "Design Optimization of Universal Joints for All-Terrain Vehicles", International Conference on Design, Automation and Control 2020 (ICDAC 2020) January 6 - 8, 2020, Vellore, India.

6. **Siva Sankara Raju**, C J Rao, Sreeramulu D, Prasad K, "Evaluation of Optimization Parametric condition during Machining for Al-CSA composite using Response Surface Methodology", Innovative Product Design and Intelligent Manufacturing Systems: Select Proceedings of ICIPDIMS 2019, 17-18 May 2019, NIT Rourkela, Paper Id: 03

7. Vikash Kumar K, **Siva Sankara raju R**, "Statistical Modeling and Optimization of Al-MMCs Reinforced With Coconut Shell Ash Particulates ", Innovative Product Design and Intelligent Manufacturing Systems: Select Proceedings of ICIPDIMS 2019, 17-18 May 2019, NIT Rourkela, Paper Id: 30

8. **Siva Sankara Raju R**, Venkata Siva B, Srinivasa Rao G, "Quantitative analysis of Tribological Performance on Al-CSA Composite using Orthogonal Array", 02-04th May 2019, Applied Mechanical Engineering Research (ICAMER2019), NIT Waranga, Paper code: ICD-016.

9. P. Thimothy, **Siva Sankar Raju**, Ch. Ratnam, "Development and Accretion of Tribological Performance on Al-CSA Composites using Orthogonal Array ", International Conference on Materials Processing and Characterization, 08-09th March 2019, GRIET, Hyderabad, paper code 1446, page No:148.

10. P. Thimothy, **Siva Sankar Raju,** Ch. Ratnam, "Optimization of Tribological Behaviour on Al-CSA-MMC Using Response Surface Methodology", International Conference on Latest Innovations in Materials Engineering and Technology, 15th and 16th June 2018, Lendi Institute of engineering and technology, Vizianagaram.

11. **R Siva Sankara Raju,** M K Panigrahi, R I Ganguly, G Srinivasa Rao, "Optimization of tribological behaviour on Al- coconut shell ash composite at elevated temperature", International Conference on Advances in Metallurgy, Materials and Manufacturing March 6-8,

2017, Government College of Engineering, Salem In Association With Indian Institute Of Metals, Salem Chapter.

12. Sarath Babu, **Siva Sankar Raju R**, D,Venkateswara Rao "Noise-Reduced Rail Freight Transport due to Composite Brake Blocks-Review", on International conference of Advanced Engineering Functional Materials (ICAEFM-2017), 21– 23rd September 2017, G.I.T.A, Bhubaneswar, page no: A16.

13. **Siva Sankara Raju**, Ajit.Ku.Senapathi, Gunji Srinivas Rao, "Estimation of tribological performance of Al-MMC reinforced with a Novel In-Situ ternary mixture", international conference on recent innovation in engineering and technology (ICRIET), 5th- 6th, November 2016, GIET, Gunupur, Odisha. Page no: 19-26.
14. A.K.Senapathi, **Siva Sankara Raju**, Gunji Srinivas Rao, "Tribological Performance of Al-MMC Reinforced with Treated Fly Ash Using Response Surface Methodology", international conference on recent innovation in engineering and technology (ICRIET), 5th- 6th, November 2016, GIET, Gunupur, Odisha. Page no: 12-18.
15. **Siva Sankara Raju**, Gunji Srinivas Rao, "Assessments of Desirability Wear Behaviour on Al-Coconut Shell Ash –Metal Matrix Composite Using Grey – Fuzzy Reasoning Grade", international conference on recent innovation in engineering and technology (ICRIET), 5th- 6th, November 2016, GIET, Gunupur, Odisha. Page no: 65-73.

16. **Siva Sankara Raju R**, G. Srinivasa Rao, M.Muralidhar Rao, "Optimization of Machinability Properties on Aluminium Metal Matrix Composites Prepared By In-Situ Ceramic Mixture Using Coconut Shell Ash - Taguchi Approach", International Academic Multi Disciplinary Conference (IAMDC), 20-22, August' 2015, Colombo, Sri Lanka. Page no: 17-21.

17. **Siva Sankara Raju**, Santosh Kumar Vonna, Karun Kumar Y, "Evaluation of Plastic/Elastic Deformation for a Rectangular Plate by Using Finite Element Analysis" International conference on communication control & instrumentation (ICCCI), 25th, 26th &27th October 2013, GIET, Gunupur, Page no: 57 -63.

18. Lakshmi Srinivas, **Siva Sankara Raju,** S.Vijay, K.Srinivasa Rao, "Application of FEM in the Analysis of Centrifugal Blower Assembly- A Case Study" International Conference on Recent Innovations in Technology (ICRIT 2012), RIT, Kottayam, Kerala. January 12-14, 2012, pp164-168.

NATIONAL CONFERENCES

1. G.Srinivasa Rao, **Siva Sankar Raju R**, K. Vikash Kumar, "Parametric Optimization of Aluminum Metal Matrix Composite (AMC) with Reinforcement of Coconut Shell Ash", on National Conference on Advanced Materials, Manufacturing and Metrology (NCAMMM-2018) on 16-17 February, 2018 at CSIR – CMERI, Durgapur, page no:322-327.

2. **Siva Sankar Raju R**, G.Srinivasa Rao, "Development of a novel in-situ ceramic mixture of aluminium based metal matrix composite reinforced with coconut shell ash", on National conference on advanced engineering materials, 23-24th July 2016, G.I.E.T, Gunupur page no: TECH 25.

3. Sarath babu Devara, M.Venkateswara rao, **S.S.Raju**, *"*Noise-Reduced Rail Freight Transport due to Composite Brake Blocks-Review*",* on National conference on Advances in Composite Materials (NCACM-2015), 21-22nd Feb 2015, G.I.E.T, Gunupur page no: 9.

4. **Siva Sankara Raju**, Anupama Francy K, *"*Modeling and Analysis of Thrust& Radial Forces on Rocket Nozzle by Fem*"*, Advances In Mechanical and materials Science (AMMS-2015), 28 Nov 2015, VIT, Bhimavarm, Andhra Pradesh, page no: 75-81.

5. **Siva Sankar Raju R**, G.Srinivasa Rao, "Modeling and Optimization of Al/CSAp MMC Machining Using Taguchi Approach" , on National conference on Advances in Composite Materials (NCACM-2015), 21-22nd Feb 2015, G.I.E.T, Gunupur page no: 5.

6. **Siva Sankara Raju**, Karun kumar Y, Pradeep M, "Design and Analysis Process of Diesel Engine Exhaust Value", "National conference on green engineering &technology, 16th and 17th March 2013 Centurion University, Odisha .page no.87-94.

7. Lakshmi Srinivas, **Siva Sankara Raju,** B. Iftekhar Hussain, "Reverse Engineering and Basic Process of Rapid Prototyping" National Conference on "Modern Trends in Mechanical Engineering", 18-19th Feb *2012,* G.I.E.T, Gunupur page no: 121-126.

8. **Siva Sankara Raju R**, Sree Ramulu D, "Contact Analysis of Spur Gear by Using Finite Element Method" National Conference on "Modern Trends in Mechanical Engineering", 18-19th Feb *2012,* G.I.E.T, Gunupur page no: 276-283.

9. Santosh Sai Ch, Anupama Francy K, **Siva Sankara Raju,** "Disc Brake Rotor Modeling by Using FEA" National Conference on "Modern Trends in Mechanical Engineering", 18-19th Feb *2012,* G.I.E.T, Gunupur page no: 204-208.

10. Anupama Francy K, **Siva Sankara Raju,** Venkata Siva S.B., "Design and Analysis of Multilayer High-Pressure Vessels" National Conference on "Modern Trends in Mechanical Engineering", 18-19th Feb *2012,* G.I.E.T, Gunupur page no: 263-269

BOOK SECTION

1. C J Rao,**Sivasankara Raju R**,Sreeramulu D,Sagar Yanda, "Fabrication and Evaluation of Optimized Parametric Condition during EDM Machining of Al-CSA Composite Using Taguchi Orthogonal Array", Advances in Design and Thermal Systems: Lecture Notes in Mechanical Engineering, 411-420, DOI:10.1007/978-981-33-6428-8 eBook ISBN:978-981-336-428-8.

2. Siva Sankara Raju, C J Rao, Sreeramulu D, Prasad K, "Evaluation of Optimization Parametric condition during Machining for Al-CSA composite using Response Surface Methodology", Innovative Product Design and Intelligent Manufacturing Systems: Lecture Notes in Mechanical Engineering ,469-476, 2020, ISSN 2195-4356, ISSN 2195-4364 (electronic) ISBN 978-981-15-2695-4 ISBN 978-981-15-2696-1 (eBook) https://doi.org/10.1007/978-981-15-2696-1_46 (Indexed: Scopus)

3. Vikash Kumar K, **Siva Sankara raju R**, "Statistical Modeling and Optimization of Al-MMCs Reinforced With Coconut Shell Ash Particulates ", Innovative Product Design and Intelligent Manufacturing Systems: Lecture Notes in Mechanical Engineering, 703-712, 2020, ISSN 2195-4356, ISSN 2195-4364 (electronic) ISBN 978-981-15-2695-4 ISBN 978-981-15-2696-1 (eBook), https://doi.org/10.1007/978-981-15-2696-1_67 (**Indexed**: Scopus)

4. **Siva Sankara Raju R**, Venkata Siva B, Srinivasa Rao G, "Quantitative analysis of Tribological Performance on Al-CSA Composite using Orthogonal Array", Advances in Applied Mechanical

Engineering, Lecture Notes in Mechanical Engineering, 381-388, 2020, ISSN 2195-4356, ISBN 978-981-15-1200-1, ISBN 978-981-15-1201-8 (eBook), https://doi.org/10.1007/978-981-15-1201-8_43

5. **R. S. S. Raju**, M. K. Panigrahi, R. I. Ganguly, G. S. Rao, "Investigation of tribological performance of hybrid aluminium metal matrix composites", 31st Indian engineering congress, theme: SMART Technologies for natural resources conservation and sustainable development, 15th-18th December 2016, Kolkata. Page no: 241-245. Allied Publishers Pvt. Ltd. ISBN 978-93-85926-15-0

CONFERENCES/WORKSHOPS/FDPS/SEMINARS ORGANISED

1. Organized as a Coordinator for a six days work shop on "**Automobile Engineering**" during **18th - 23rd October 2011** at GIET – Gunupur.
2. Co-coordinator for a two days Faculty Development Program on "**Optimization and Simulation Modeling"** during **22nd -23rd July 2011** at GIET – Gunupur.

CONFERENCES, SEMINARS AND SHORT TERM TRAINING PROGRAMS ATTENDED

Si.No	Workshops / Webinars / FDP'S / Quiz	Topic	organized by	Dates	Certificate No
1.	workshop	Thesis documentation skills for Researchers using MS word, Excel and LaTex editor	Ananthalakshmi Institute Of Technology And Sciences Anantapur	17/06/2021 to 19/06/2021	W6R3KS-CE000010
2.	Webinar	Research Journal finding and reference management through web of scince and scopus – research management	NSRIT, vishakapatnam	05 Jnue 2021	
3.	FDP	Recent Advances In Materials And Challenges In Manufacturing Techniques	JNTUK	22nd March-3rd April 2021	
4.	FDP	Frontier of 3D Printing Technology and Its Industrial Applications (Phase-II)	LBRCE	25/01/2021 to 06/02/2021.	Two Week AICTE sponsored
5.	FDP	Research methodology, design of experiments for engineers & researchers	RVR&JC	07/12/2020 to 19/12/2020	Two Week AICTE sponsored
6.	STTP	Design, Simulation, Development and Characterization of Composites with Advanced Techniques	GIET UNIVERSITY	16/11/2020 to 21/11/2020	AICTE/STTP/ME/GIETU-P007/20
7.	Webinar	Digital Transformation : A Progressive Approach	Shri Kalyan Teacher Training College Niwai, Tonk, Rajasthan	23th June 2020	2020/SKTT/«189
8.	Webinar	A Journey of an Entrepreneur	Sri Eshwar College of Engineering, Coimbatore	28th Aug2020	

9.	STTP	Recent Advances in Materials and Manufacturing: Part I (RAMM2020:1)	Gayatri Vidya Parishad College of Engineering (Autonomous), Visakhapatnam	3rd - 8th August, 2020.	
10.	FDP	Recent Advances in Mechanical Engineering (RAME)	Godavari Institute of Engineering and Technology (A), Rajamahendravaram	4th - 8th August, 2020.	R041
11.	Webinar	Preparation of Quality Journal Papers and Book Chapters	AITAM, Tekkali	Aug 9, 2020	TDZ7PC-CE000083
12.	STTP	Cryogenics and Composites: Theory and Applications (CCTA 2020)	Dr. B R Ambedkar National Institute of Technology Jalandhar	3rd - 7th August, 2020.	
13.	STTP	Nanotechnology and Functional Materials (NTFM)	S V College of Engineering, Tirupati, Andhra Pradesh	27-07-2020 to 01-08-2020	RB03KM-CE000108
14.	FDP	Advanced Reserach Traits in Materials & Design of Mechancial Systems (ARTMDMS -2020)	Vignan's Foundation for Science, Technology & Research (Deemed to be University)	22-27 July 2020	
15.	FDP	Frontiers Of Research In Mechanical Engineering-FORME2020	Satya Institute of Technology and management - GVP,Vizianagaram -535002	22nd July to 26th July 2020	
16.	FDP	“Recent research developments in Materials Engineering and Mechanical Design”,	VISHNU INSTITUTE OF TECHNOLOGY, Bhimavaram, AP	21st - 25th of July 2020.	2IYUVC-CE000068
17.	FDP	Metal 3D Printing	RAGHU ENGINEERING COLLEGE (A), Visakhapatnam, AP.	22nd July 2020	2UDAJQ-CE000075
18.	Webinar	W2: Webinar on "Evolving and aligning teaching-learning process for implementing engineering curriculum	NITTTR Bhopal	09-Jul-20	
19.	Webinar	W5 - Prepare Course & Programme Articulation Matrices	NITTTR Bhopal	Jul 23, 2020	
20.	Webinar	W6- Development and use of Rubric for effective assessment	NITTTR Bhopal	Jul 28, 2020	
21.	Webinar	W4: Assessment of COs, POs and PSOs	NITTTR Bhopal	Jul 21, 2020	
22.	FDP	Recent Trends in Hybrid and Electric Vehicle Technologies” (RTHEVT-2020)	MVGR COLLEGE OF ENGINEERING,	6 - 11th, July 2020	

			Vizianagaram		
23.	FDP	Research Innovations in Mechanical Engineering – RIME – 2K20	Sasi Institute of Technology and Engineering	13-17 July 2020	KYEB2A-CE000528
24.	Webinar	Processing of Light Metal Alloys and Characterization	Raghu Institute of Technology college	3rd July 2020	RITMEW0063
25.	FDP	Advanced automation in metal industry	Raghu engineering college	21-23rd July 2020	2UDAJQ-CE000075
26.	FDP	Nanomaterial Synthesis, Process, Characterization and its Functional Applications	Hindusthan College Of Engineering And Technology, Coimbatore	6th – 11th July 2020	
27.	FDP	Quality Sustainability and Quality Enhancement Strategy	IQAC, KKR &KSR Institute of Technology and Science, Guntur	02-04 July 2020	
28.	FDP	Multi-physics Focused Computational Fluid Dynamics Using MSC Software	APSSDC association with Hexagon MSC Software	24-26 June 2020	MSC/CFD/004
29.	FDP	Outcome Based Education NBA Accreditation	RGPV, association with Oriental Institute of Science and Technology, Bhopal.	15-17 June 2020	
30.	Workshop	ICT & LMS TOOLS	Odd-Partikles and INQUIRE HUB	27-28 June 2020	
31.	FDP	Role of online teaching pedagogy and ICT tools in Out Come based education	Team vmedulife & KiTS, Guntur	25.06.2020	CFEZ1O-CE000316
32.	Quiz	Knowlde on Patents	LNcTS, Bhopal	25.06.2020	ZZHKFY-CE000005
33.	webinar	Public Health and water Quality through Biominarlization of waste water	AMPRI, Bhopal	16-Jun-20	
34.	FDP	Waste Management	NITTTR, Chandigarh	08/06/2020 to 12/06/2020	ICT-15922/20
35.	webinar	Integrating CAD/CAE Design Technology For Engineering Design Applications	AWH engineering college, kuttikattoor, kozhikode-8,kerala	17-Jun-20	MEAWH0620027
36.	FDP	Research trends in Mechanical Engineering	Gudlavalleru Engineering College, Gudlavalleru	15 – 20th June 2020	

37.	Quiz	Mechanical Engineering	Arulminu Meenashi Amman College of Engineering	17/06/2020	
38.	Webinar	Renewable Energy Sources and Utilization	Lakshmi Narain College of Technology and Science Bhopal (MP)	June 19, 2020	
39.	FDP	Mechanical Behaviour of bio & Composite Materials	Andhra Loyola Institiute of Engineering and Technology	11- 13 June 2020	
40.	Webinar	Insight on the welding of Titanium Alloy	CMRIT Bengaluru	17-Jun-20	
41.	STTP	Recent Advances In Mechanical Engineering (RAME)	S V College of Engineering, Tirupati	12th & 13th June 2020	
42.	FDP	Simulating Conventional and Additive manufacturing process	APSSDC association with Pythagoras Engineering	03.06.2020 to 05.06.2020	MSC-08
43.	workshop	Plastic Waste Management	Rajiv Gandhi proudyagiki Viswavidhalaya University of technology, Bhopal	8th June – 9th June 2020	
44.	webinar	Roles marketing in time of pandemic	McGraw Hill by Dr. Rajan Saxena, Ex.vice chaceller NMIMS University	11.06.2020	
45.	FDP	Fluid & Structural Simulation using CRADLE	Lakireddy Bali Reddy College of Engineering, Mylavaram	8-10 June, 2020	Y7CTYK-CE000063
46.	FDP	finite element analysis approach for industrial applications using ANSYS	APSSDC association with Pythagoras Engineering	03.06.2020 to 05.06.2020	FEA-055
47.	webinar	Al getting used in impact of COVID-19	IFERP	14.06.2020	
48.	webinar	Research article writing and publishing in good impact journal	IFERP	13.06.2020	
49.	webinar	Virtual Interactive Classroom For Teachers And The Challenging Technologies in post Covid-19 era	IFERP	05.06.2020	
50.	FDP	Advanced Manufacturing Enterprise in Digital Era	AITAM, Tekkali	01st to 05th June 2020	

51.	FDP	Refrigerants progressions – Environmental concerns	QIS College of Engineering and Technology, Ongole	01st to 05th June 2020.	
52.	FDP	AUTOCAD	APSSDC	18.05.2020 to 30.05.2020	FDP/ ACAD/ CC/ 029
53.	webinar	Knowlde shearing on A to Z journal publications (Survey to citations)	IFERP	30.05.2020	
54.	Quiz	AUTOMATION AND ROBOTICS	Holy Mary Institute Of Technology And Science	06-05-2020	IUYPRE-CE000471
55.	webinar	welding of weathering steel	SME Technical Webinar Series 2020 CMRIT Bengaluru	10-Jun-20	
56.	FDP	Fluid & Structural Simulation using CRADLE	Lakireddy Bali Reddy College of Engineering, Mylavaram	8-10 June, 2020	Y7CTYK-CE000063
57.	webinar	Introduction to Composites	MeRITS, Nellore, Andhra Pradesh	03.06.2020	VKVATO-CE000042
58.	Webinar	ADVANCED MATERIAL PROCESSING	Narasaraopeta Engineering College, Andhra Pradesh	04.06. 2020	BQ4HHQ-CE000019
59.	workshop	ICT BASED TEACHING-LEARNING TOOLS	INQUIRE HUB	31.05.2020	
60.	FDP	Recent Advances in Material Characterization	NITTTR, Chandigarh and GRIT , Hyderabad	23/05/2020 to 28/05/2020	ICT-8653/20
61.	FDP	Design for Manufacturing and Assembly (DfMA)	APSSDC, in association with Dessault systems	21.05.2020 to 23.05.2020	
62.	Quiz	Online National Level Quiz On Mechanical Engineering''	Holy Mary Institute of Technology & Science, Hyderabad	29.05.2020	ZLT4RI-CE000209
63.	FDP	Outcome Based Education System – A road map to teaching, Learning, Evaluation and Accreditation	Lendi Institute of Engineering & Technology, Jonnada, Vizianagaram	21st – 23rd May 2020	
64.	Quiz	Test your knowledge on NBA Criteria's	MLR institute of technology, Hyderabad	27.05.2020	

65.	Quiz	Basics of Mechanical Engineering	Ramachandra college of Engineering, Eluru,	27th May to 31st May 2020	GVNLCY-CE000108
66.	webinar	Welding of Shape Memory Alloys	K.Ramakrishan College of Technology, TN	27.05.2020	
67.	Quiz	Finite Element Analysis	AISSMS College of Engineering, Pune.		
68.	webinar	Fundamental of CFD	SKILL-LYNC	09.05.2020	13ndj9lhmt
69.	workshop	Modern methods for teaching – learning Practices	Krishna University , Machilipatnam, Andhra Pradesh	12th – 13th of May 2020	
70.	FDP	Research Challenges and Innovations in Renewable Energy Systems	Centre for Renewable Energy Technology-AVIT	11-05-2020 to 16-05-2020	AVIFDP0851
71.	Quiz	APTITUDE TEST FOR FACULTY ON OBTL	Usha Rama College of Engineering and Technology, Telaprolu, Andhra Pradesh	23rd May 2020	
72.	FDP	Noval Materials and it's industrial Applications	Karpagam College of Engineering, Coimbatore	13.05.2020 to 18.05.2020	KCEFDP0594
73.	Webinar	EVOLUTION OF CONNECTED INDUSTRIES	Narasaraopeta Engineering College, Andhra Pradesh	23rd May 2020	AGZYEW-CE000022
74.	Webinar	Needs of IOT in modern Engineer	SCAD College of Engineering and Technology	21.05.2020	CATVLS-CE000252
75.	Webinar	Research Trust Areas in Composites	Arasu Engineering College, Kumbakonam, TN	20-05-2020	IWHCPY-CE000203
76.	Quiz	NAAC Awareness Quiz - 2020	AISSMS institute of information Technology	19-05-2020	*IQAC/0N9DR8-CE002476*
77.	webinar	AI & Machine Learning	Sri Eshwar College of Engineering, Coimbatore	14.05.2020	2WPAOK-CE000572
78.	webinar	Leadership in Time of Crisis	McGraw Hill by Dr. Himanshu Rai, Director – IIM Indore	24.04.2020	

79.	Quiz	3D printing & Robotics	Narasaraopeta Engineering College, Narasaraopeta, Andhra Pradesh	18/05/2020 to 23/05/2020	MD36X0-CE000058
80.	Webinar	Drafting a Patent Application & Procedure for Filing an Indian Patent	Vignan Pharmacy College, Vadlamudi, Guntur (Dt)	10th May, 2020.	
81.	Webinar	3D Printing for Design and Advanced Development - Applications for Automotive Sector, Medical Devices, Missiles, Customized Gifts, Drones and Robots	NAFEMS in association with Rajarambapu Institute of Technology, Islampur, Maharashtra and Siddaganga Institute of Technology, Tumkuru, Karnataka	6 to 9 May, 2020	
82.	FDP	Automotive structure design using CATIA	APSSDC, in association with Dessault systems	30.04.2020 to 02.05.2020	
83.	FDP	Recent Advaned in Composite Materials and Analysis of Composite Structures	AICTE - ATAL program , JNTU Kakinada ,	29.07.19 to 03.08.19	
84.	FDP	Recent Funding Opportunities and Outcome based education	AITAM, Tekkali	30-11-19 & 01-12-19.	
85.	Workshop	Outcome based education	AITAM, Tekkali	13-14th July 2019.	
86.	STTP	Induction Training	NITTR, Bhubaneswar	4th to 8th June 2018	
87.	FDP	Exploring Deep Machine Learning for Image and Signal Processing with Matlab	GIET, Gunupur	21st to 27th May 2018	
88.	STTP	Optimization Process with Design of Experiments	GIET, Gunupur	5th to 7th May 2018	
89.	workshop	6 Days Certificate Course on Automobile Engineering	GIET, Gunupur	03.10.2012 to 09.10.2012	
90.	workshop	Rapid Prototyping	NIT, Warangal	23.01.12 to 27.01.12	
91.	STTP	Essential Techniques for Research Problems in Materials and Manufacturing (ETRPMM)"	NIT, Warangal	14th to 18th April 2014	
92.	STTP	ANSYS & ITS APPLICATIONS	GIET, Gunupur	10^{th} to 12^{th} March 2015.	

PATENT

1. M.K. Panigraphi, **R. Sivasankara Raju**, R.I.Ganguly, R.R.Dash, filed a patent on "Al-1100 Alloy-Coconut Shell Ash Composites Products with High Specific Strength and Wear-Resistance at Ambient and High Temperature" having application number **2018310H932A (**TEMP/ E-1/ 12578/ 2018-KOL**)**.

2. Dr. K. Durga Syam Prasad ,Mr.Manas Ranjan Sahoo, Mr.CH Mohammad Akram, **Dr.Sivasankara Raju R**, Dr.Mahesh Mallampati, Mr.Nagaraj A Shet , Mr.J.Sathees Babu, Mr.S.Duraithilagar , Dr.S.Arunkumar, Mr.V.M.Jothiprakash, published patent on "System And Method For Forced Heat Transfer Water Cooling In Thermoelectric Generator", Application No. 202041052806 A, Publication Date : 11/12/2020.

ONLINE COURSES: NPTEL-AICTE /COURSERA

Si No	Course Name	Certificate Provided by	Period and Verified link
1.	Gear Train Design	Skyfi Labs & Roboversity	Verify at www.skyfilabs.com/verify-certificate/60070138
2.	Accreditation and Outcome based Learning	IITK / NPTEL-AICTE	Jul-Oct 2019 NPTEL19GE18S62190037
3.	Experimentation for Improvement	McMaster University and offered through Coursera	Verify at coursera.org/verify/ AG35ZNV2FKSQ
4.	Protecting Business Innovations via Patent	The Hong Kong University of Science and Technology and offered through Coursera	Verify at coursera.org/verify/ VF8R75M4NSCJ
5.	Intro to Digital Manufacturing with Autodesk Fusion 360	Autodesk and offered through Coursera	Verify at coursera.org/verify/ MMP3Y32B59TE
6.	Materials Science: 10 Things Every Engineer Should Know	University of California, Davis and offered through Coursera	Verify at coursera.org/verify/ 9LQQU7KRWF9J
7.	3D Printing Applications	University of Illinois at Urbana-Champaign and offered through Coursera	Verify at coursera.org/verify/ 5U4TVR4JDMMT
8.	Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360	Autodesk and offered through Coursera	Verify at coursera.org/verify/ XDF9GDA8JBQK
9.	The 3D Printing Revolution	University of Illinois at Urbana-Champaign and offered through Coursera	Verify at coursera.org/verify/ 38TEYKK5LAKW
10.	Grammar and Punctuation	University of California, Irvine and offered through Coursera	Verify at coursera.org/verify/ 6S762RWGCMJH
11.	Material Processing	Georgia Institute of Technology and offered through Coursera	Verify at coursera.org/verify/ 6CDZWGKYMXYD
12.	Digital Manufacturing & Design	University at Buffalo and The State University of New York and offered through Coursera	Verify at coursera.org/verify/ CJC5YQML764Y
13.	Nanotechnology and Nanosensors, Part1	Technion - Israel Institute of Technology and offered through Coursera	Verify at coursera.org/verify/ TSJYY8FNKQ92

PUBLICATION OF MANUALS/PROCEEDINGS

A) **MANUALS**

1. A&IC Lab. Manual, 2018 for B.Tech Students
2. DOM Lab. Manual, 2018 for B.Tech Students

LABORATORIES DEVELOPED

- **At AITAM-Tekkali:** I was Involved in developing laboratories like Research and Development, Mechanics of Solids and Dynamics of Machine. These labs are in the curriculum of both under graduate and post graduate students.
- **At GIET-Gunpur:** I was Involved in developing DOM lab at GIET – Gunpur. This lab is in curriculum of B.Tech students.

EDITORIAL BOARD / REVIEW MEMBER

1. Acts as an Editorial Board member in the journal of innovation (Knowledge Publishing Group).
2. Acts as an Editorial Board member in the Journal of Frontiers of Mechatronical Engineering（FME)
3. Acts as an Editorial Board member in the journal of Ceramic Sciences and Engineering (Publisher: EN Press)
4. Acts as an Editorial Board member in the Journal of Information Engineering and Applied Computing (Publisher: WHIOCE publishing Pvt. Ltd)
5. Acts as an Review member in International journal of Mechanical Engineering (Publisher: InSc)
6. Acts as an Review member in the Metals and Materials International (MAMI) (Publisher: Springer)
7. Acts as an Review member in Metallurgical and Materials Transactions A (Publisher: Springer)
8. Acts as an Review member in the Tribology In Industry (Publisher: Serbian Tribology Society)
9. Acts as an Review member in 2nd International Conference on Metal Material Processes and Manufacturing (2nd ICMMPM2019), South Korea.

ACHIEVEMENTS

- Awarded as Athletic champion in the year of 2005 at Narasaraopeta engineering college, Narasaraopeta.
- An active member of science & Tech expo 2013 as coordinator for megastructures
- Nominee for best Teacher in 2013 at GIET, Gunupur, Odisha.
- An active member of science & Tech expo 2014 as coordinator for megastructures
- Acts as a member in central examination section from June 2013-July 2015.
- Actively participated in NBA & NAAC team visit Dec -2014 & Feb 2015 respectively
- An active member of science & Tech expo 2015 as coordinator for megastructures.
- Awarded with a best paper presented in ICRIET-2016, at GIET, Gunupur.
- Awarded with young researcher in ICRIET-2016, 5th -6th November at GIET, Gunupur.
- Actively participated in NBA visit March -2018.
- Actively participated in NAAC visit March-2019 at AITAM, Tekkali.

REFERENCE

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Place: **Tekkali** **Dr. Sivasankara Raju**