



Srinivas University

(Private University established by Karnataka State Govt. Act no. 42 of 2013, Recognized by UGC, New Delhi, Member of Association of Indian Universities, New Delhi)

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MECHANICAL ENGINEERING

1. List of Guide:

- Dr.Suma Bhat
HOD, Department of Mechanical Engg.
SUCET

2. List of PhD Students (Srinivas University only)

- Ajay Kaushik Noronha

3. Publications of the whole college (Mechanical Department)

Sl. No	Authors	Title	Journal Name, Vol, Page No, Year ISBN No DOI	Impact Factor
1.	Udaya Bhat K, Nithin, Suma Bhat , Sudeendran	Heat Treatment of Friction Surfaced Steel – Aluminium Couple	Materials Science Forum 830-831, 2015, pp135-138.	
2.	KK Appukuttan, D Shikha, Suma Bhat	An algorithm for constraint pole assignment using output feedback for multivariable systems	International Journal of Frontiers in Technology 1 (1), 2014, pp1-3	
3.	Prashanth H., Suma Bhat and Udaya Bhat K	Hot dip aluminizing of Low carbon steel using Al-7Si-2Cu Alloy baths	Journal of Coatings, 2013, Article id:180740.	
4.	S Bhat , KK Appukuttan	An Alternate Method for Computation of Transfer Function Matrix	Journal of Control science and engineering 2010	
5.	H Suma , KK Appukuttan	An algorithm for design of a pid controller for a multivariable system using output feedback	International Journal of Engineering Science and Technology 2 (12), 2010, pp 7198 – 7202.	
6.	Suma Bhat and Udaya Bhat K	Cellular Materials	IIM Metal News, 12(2), April 2009, pp 8-12	
7.	Canute Sherwin, K. Raju, S N Ojha	Investigation on the Wear Properties of Primary Si Modified Al-20Si Alloy	Trans Indian Inst Met, Springer Publication, DOI 10.1007/s12666-012-0174-1, Received: 28 June 2012 / Accepted: 27 August 2012 _ Indian Institute of Metals 2012 Pg: 673-676	0.675
8.	Canute Sherwin	Investigation on the tensile and hardness properties of primary Si modified Al-20Si alloy	International Journal of Latest Trends in Engineering and Technology (IJLTET), Vol. 3 Issue 1 September 2013, Pg: 22-25	0.475
9.	Canute Sherwin, Dr. Suma Bhat, Dr Sudheendra P Hebbar	Brief Review on Electrodeposited Ni/Cr Coatings and Their Behaviour	http://www.ijettjournal.org , International Journal for engineering technology, ISSN: 2231-5381, 2016, Pg: 288-291	0.356

10.	Varadaraj S, Mohan Kumar, V.L.Neelakanth	Investigation of Mechanical Properties of Alfe Intermetallic Composite	International journal of Engineering research and technology, Intermetallic Composite ", ISSN: 2278-0181, Vol.4, Issue 12, December 2015.	
11.	Varadaraj S, Mohan Kumar, Dr. Neelakantha V L, Harold J D'Souza	A Comparative Study on Tensile Properties of Coconut Shell Powder Reinforced Epoxy Composite.	International journal of Engineering Researches and Management Studies. ISSN: 2394-7659, ICAMS: March 2017	2.789
12.	Mrs. Uma Shrikar Shenoy	" Design Optimization of Power manipulator Gripper for Maximum Grip Force"	IJERT, Volume 3, Issue. 08, August-2014	
13.	Raghavendra E H	"Retrofication of Mechanical Speed Governor with Electronic Speed Governor for Heavy Duty Diesel Engine"	IJRASET, Volume 3 Issue IX, September 2011	5.011
14	Srinath Pai, Abdul Sharief, Shiv Kumar	Combined Impact of High Injection Pressure and Injection Timing on the Performance and Combustion of Common Rail Direct Injection (CRDI) Engine Fueled with a Simarouba Biodiesel Blend	Indian Journal of Science and Technology DOI: 10.17485/ijst/2016/v9i45 2016.	1.63
15	Srinath Pai, Abdul Sharief, Shiva Kumar, Shree Prakash B	A Study on Increased Fuel Injection Pressure Role in Promoting Biodiesel Blends Usage in a Diesel Engine - A Review	International Conference on Recent Trends in Engineering & Technology 313-317, Elsevier proceedings	
16	NB Rithin, Srinath Pai, V Crasta, B Shreeprakash	Studies of the effect of nanoparticle dopants and blending of different polymers on Physical, Electrical, Optical and Micro structural properties of PVA- a Review	IEEE Xplore: 26 September 2013 DOI: 10.1109/ICANMEET.2013.66 09388 Publisher: IEEE	9.237
17	Srinath Pai, Abdul Sharief, Shiv Kumar	Effect of Compression Ratio on the Performance and Emission Characteristics of a Direct Injection CI engine fuelled with Pongamia biodiesel blends	www.ijettjournal.org page number 327-332.	2.88
18	Srinath Pai, Abdul Sharief, Shiv Kumar	Emission Analysis of a Diesel Engine Using ANN–A Review	International Journal of Engineering Trends and Technology 40, 123-129.	2.8
19	Srinath Pai, Abdul Sharief, Shiva Kumar, Shree Prakash B	High Injection Pressure Impact on a Direct Injection Diesel Engine	International Journal of Engineering Research & Technology (IJERT)Volume3 Issue 8, 1494 – 1498. DOI 10.18000/ijabeg.10122	

20	Srinath Pai, Abhishek Rao Sharief, B Shreeprakash	A Comparative Study of Injection Pressure Impact on Performance and Emission of a Diesel Engine Fueled with neat Diesel and Jathropa Biodiesel blends	www.ijettjournal.org, page no 333-339	2.88
21	Srinath Pai, A Shettigara, A Sharief, B Shreeprakash	Effect of Injection Timing on Performance and Emission of a Direct Injection Diesel Engine Fueled with Simarouba Biodiesel blend	International Journal of Engineering Trends and Technology , 312-317	2.88
22	S Pai, A Sharief, CG Ramachandra, B Sreeprakash	Study of fuel injection pressure and injection timing effect on a diesel engine performance and emission	International Journal of Research in Science And Technology 4 (3), 71-80	3.023
23	S Pai, HRA Tasneem, A Rao, N Shivaraju, B Sreeprakash	Study of impact of ethanol blends on SI engine performance and emission	IEEE Digital Library	9.32
24	S Pai, NS Kumar, N Madhwesh, A Sharif	Study of Performance of Petrol Engine with Variable Compression Ratio using Ethanol as a Blend	International Journal of Earth Sciences and Engineering, 81-85, ISSN 0974-5904	4.125
25	Srinath Pai, Amriya Tasneem H.R, Shivaraju N, Shree Prakash B	The Study of EGR Effect On Diesel Engine Performance And Emission - A Review	International Conference on Emerging Innovative Technologies for a Sustainable World, ICEITSW	
26	Srinath Pai, Abdul Sharief, Shreeprakash B	Study of the effect of Fuel Injection Pressure on Diesel Engine Performance and Emission - A Review	IEEE- International Conference on Research and Development Prospectus on Engineering and Technology Volume 1 Pages 221 – 22, IEEE explorer	
27	Srinath Pai	Effect of Ignition Timing on the Performance of Diesel-Methane Dual Fuel	Recent Trends in Emerging Technologies on 27-28th February 2009, at NMAMIT, Nitte	
28	Srinath Pai, Sateesh Kumar N, Srinivas Rao B.R	Effect of Ignition Timing on the Performance of Twin Plug Spark Ignition Engine With Gasoline as Fuel	National Conference On Mechanical Engineering Trends (COMET) at Ballari 19-20th February 2010	
29	Srinath Pai	Dual Plug Spark Ignition Engine – Developments And Future Prospects	5-6th March 2009 “Recent Developments in Mechanical Engineering” RDME – 2009 national level Conference at Sree Chitra Thirunal College of Engineering. Pappanamcode, Thiruvananthapuram	
30	Srinath Pai, Abdul Sharief, Shiva Kumar	Influence of Ultra Injection Pressure with Dynamic Injection Timing on the Common Rail Direct Injection (CRDI) Engine Performance and Emissions for Diesel and Simarouba Biodiesel Blends	(yet to publish with Id IJAME1711276) in IJAME journal	

31	Srinath Pai, Abdul Sharief, Shiva Kumar	Influence of Injection Pressure and Injection Timing on Emissions and Combustion Characteristics of a CRDI Engine Fueled with SOME Blends	(yet to publish with Id AEJ-D-17-01160) in Alexandria Elsevier Engineering Journal	
32	<u>Sudheendra P., A. O. Surendranathan, N. K. Udayashankar, and K. S. Choudhari,</u>	“Intermetallic titanium – aluminium thin films preparation by oblique angle unbalanced magnetron sputtering.”	Proceedings of 3 rd Asian Symposium on Materials and Processing 2012 (ASMP-2012).	
33	<u>Sudheendra P., A. O. Surendranathan, N. K. Udayashankar, and K. S. Choudhari,</u>	“Titanium – Aluminium intermetallic thinfilms preparation by DC sputtering and their characterization.”	Proceedings of International Conference on Advanced Materials – 2011 (ICAM – 2011 Macmillan Publishers India Ltd.)	
34	<u>Choudhari KS, Jidesh P, Sudheendra P., and Kulkarni S D,</u>	“Quantification and Morphology studies of alumina membranes: A new algorithm for digital image processing.”	Microscopy and Microanalysis Vol. 19, Issue 4, 1061-1072.	2.45
35	K. S. Choudhari, <u>Sudheendra P., and N. K. Udayashankar,</u>	“Fabrication and High-Temperature Structural Characterization Study of Porous Anodic Alumina Membranes.”	Journal of Porous Materials, Vol.19, Issue 6, December 2012.	2.11
36	<u>Sudheendra P., A. O. Surendranathan, and N. K. Udayashankar,</u>	“Titanium – Aluminium Thin Films Preparation by Oblique Angle Sputtering and Their Characterization.”	International Journal of Engineering Research & Technology, Vol. 1 Issue 8, 1 – 5 October, 2012.	0.67
37	<u>Sudheendra P., A. O. Surendranathan, N. K. Udayashankar and K. S. Choudhari,</u>	“Titanium – Aluminium Intermetallic Thinfilms Preparation by Dc Sputtering & Their Characterization.”	International Journal of Mechanical Engineering, Vol. 2 Issue 3, 12 – 17. March, 2012.	0.8
38	Anil Kumar H.C, N.K. Udayashankar, <u>Sudheendra P., and H.S. Hebbar,</u>	“Microstructural and Tribological Characterization of TiN Coated Aluminum Alloy (Al6061).”	International Journal of Mechanical Engineering, Vol. 1 Issue 1, 73 – 78. March, 2011.	0.8
39	Canute Sherwin, Dr. Suma Bhat, Dr Sudheendra	Brief Review on Electrodeposited Ni/Cr Coatings and Their Behaviour	http://www.ijettjournal.org , International Journal for engineering technology, ISSN: 2231-5381, 2016, Pg: 288-291	0.356

4. Conference Publications (Mechanical Department)

Sl. No	Authors	Title	Name of the Conference	Date, Venue of the Conference
1	Tarun Kumar Jugare, Jayalakshmi, Arun Augustin, Suma Bhat , Udaya Bhat K	Copper coatings on steel by friction surfacing	Intl Conf on 'Friction based materials, ICFP-2014',	IISc., Bangalore, Sept 3-5. 2014. p 17.
2	Appukuttan K.K. Suma H	Multivariable Pole assignment procedure to control military air crafts	Frontiers in Mechanical Engineering, FIME 2010'	NITK, Surathkal, during May 2010
3	Appukuttan K.K. Suma H and Radhika Inapaglla	Computation of transfer function using Leverrier and Danvinsky methods	Advances in Mechanical Science	Kumaraguru College of Technology, Coimbatore, held during Feb 2008
4	Appukuttan K.K. Suma H and Radhika Inapaglla	Computation of transfer function from stage space model	'Recent Advancements in Mechanical Engineering'	Mahendra Engineering College, Thirechengode, held during July 2008
5	Appukuttan K.K. Suma H	Multivariable control systems for military air crafts	'Advances in manufacturing Engineering, ICME-2007'	MIT, Manipal, held in 2007
6	Appukuttan K.K. and Suma H	A new pole assignment procedure for nuclear power plant using multivariable control theory	National conference on 'Mechanical Engineering'	Siddaganga Institute of Technology, Tumkur, Karnataka, held in 2006.
7	Appukuttan K.K. and Suma H	A new pole assignment procedure for full rank constant gain output feedback	National conference on 'Emerging trends in manufacturing engineering'	Verna, Goa, held in 2004
8	Canute Sherwin, Dr. Suma Bhat, Dr Sudheendra P Hebbar	Brief Review on Electrodeposited Ni/Cr Coatings and Their Behaviour	National Conference on Advances in Mechanical Engineering Science (NCAMES-2016)	April 19-20 2016, SIT, Valachil
9	Varadaraj S, K.V. Suresh	"Performance and Emission Characteristics of Compression Ignition Engine Fuelled with Blends of Ethyl Ester of CNSL"	NCIETEM-2013	Alva's Institute of Engineering & Technology, Moodabidri. 22 nd & 23 rd March 2013
10	Mr. Nagaraja M R & Mr. Jason Lobo	Effect of Age Hardening and Thermomechanical treatment on Aluminium 6061 Alloy Hybrid Composite.	NATIONAL JOINT CONFERENCE ON INNOVATIONS IN ENGINEERING AND TECHNOLOGY	CANARA COLLEGE MANGALORE
11.	Srinath Pai, Amriya Tasneem H.R, Shivaraju N, Shree Prakash B	The Study of EGR Effect On Diesel Engine Performance And Emission - A Review	International Conference on Emerging Innovative Technologies for a Sustainable World,	

			ICEITSW	
12.	Srinath Pai, Abdul Sharief, Shreeprakash B	Study of the effect of Fuel Injection Pressure on Diesel Engine Performance and Emission - A Review	IEEE- International Conference on Research and Development Prospectus on Engineering and Technology Volume 1 Pages 221 – 22, IEEE explorer	
13.	Srinath Pai	Effect of Ignition Timing on the Performance of Diesel-Methane Dual Fuel	Recent Trends in Emerging Technologies	27-28 th February 2009, at NMAMIT, Nitte
14	Srinath Pai, Sateesh Kumar N, Srinivas Rao B.R	Effect of Ignition Timing on the Performance of Twin Plug Spark Ignition Engine With Gasoline as Fuel	National Conference On Mechanical Engineering Trends	19-20 th February 2010 (COMET) at Ballari
15	Srinath Pai	Dual Plug Spark Ignition Engine – Developments And Future Prospects	“Recent Developments in Mechanical Engineering” RDME – 2009 national level Conference	5-6 th March 2009 at Sree Chitra Thirunal College of Engineering, Pappanamcode, Thiruvananthapuram
16	Canute Sherwin, Dr. Suma Bhat, <u>Sudheendra P Hebbar</u>	Brief Review on Electrodeposited Ni/Cr Coatings and Their Behaviour	National Conference on Advances in Mechanical Engineering Science (NCAMES-2016)	April 19-20 2016, SIT, Valachil
17	<u>Sudheendra P.,</u> A. O. Surendranathan, N. K. Udayashankar and K. S. Choudhari,	“Effect of Heat Treatment on the Sputter Deposited Titanium Aluminide Thinfilms.”	National Conference in Physics CAPSRAA, 29.	16 – 17 September, 2011. Govindadas College Surathkal.
18	<u>Sudheendra P.,</u> A. O. Surendranathan and N. K. Udayashankar	” Growth of Ti – Al on the surface of Porous Alumina by Magnetron Sputtering.”	National Conference on Recent Trends in Chemical and Biological Sciences NCRTCBS,	30-31 March, 2010. Kuvempu University Shivanmogga
19	Raja S Sawant, N.K. Udayashnkar, H. S. Hebbar, <u>Sudheendra P.,</u> Anil Kumar H.C,	Microstructural and Tribological Characterization of TiN coated Aluminium Alloy Al6061	National Conference on Multifunctional Nanomaterials and Nanocomposites (NCMNN)	4 – 5 February 2010. Anna University Coimbatore
20	<u>Sudheendra P.,</u> A. O. Surendranathan, and N. K. Udayashankar,	“Deposition of Ti – Al Intermetallic Composite by Reactive Thermal Evaporation.”	National Conference on Recent Advances in Materials Science,	Dr. Ambedkar College, Nagpur. 21-22 January 2006.
21	<u>Sudheendra P.,</u> A. O. Surendranathan, N. K. Udayashankar and K. S. Choudhari,	“Intermetallic titanium – aluminium thin films preparation by oblique angle unbalanced magnetron	3 rd Asian Symposium on Materials and Processing 2012 ASMP,	79 – 80. 30 – 31 August, 2012. IIT - Madras

		sputtering.”		
22	<u>Sudheendra P., A.</u> O. Surendranathan, N. K. Udayashankar and K. S. Choudhari,	“Titanium – Aluminium Intermetallic Thin Films Preparation by Dc Sputtering And Their Characterization.”	International Conference on Thin Films & Applications ICTFA,	15-17 March, 2012.
23	<u>Sudheendra P., A.</u> O. Surendranathan, N. K. Udayashankar and K. S. Choudhari	“Titanium – Aluminium intermetallic thinfilms preparation by DC sputtering and their characterization.”	International Conference on Advanced Materials ICAM,	12 – 16 December, 2011 PSG Coimbatore
24	<u>Sudheendra P., A.</u> O. Surendranathan, N. K. Udayashankar and K. S. Choudhari,	“Microstructural and Tribological Characterization of Ti-Al coating developed by Reactive DC Magnetron Sputtering.”	International Conference on Advancement of Nanoscience and Nanotechnology ICOANN,	1-3 March, 2010. Alagappa University Coibatore
25.	<u>Rakshith kumar P</u>	Combat hot corrosion and oxidation degradation on boiler tube application	Research conclave conference 2017	Reva University Bengaluru

5. Book /Chapter Publications (Mechanical Department): NIL

6. Syllabus copy for Course work Examinations (Department wise)

7. Sponsored Projects: 1

“Lean Implementation in service sector organization”

8. Collaborations

9. Dates & Brochure of 2 Conferences Planned

10. Atomic Research Centers & Faculty In-charge with Objective, Publications, Working Papers:

11. List of Working Papers (Mechanical Department): 1