

Detailed Bio-Data

Dr. Pappula LAXMINARAYANA

Senior Professor, Dept. of Mechanical Engineering
University College of Engineering
Osmania University, Hyderabad - 500 007
Phone No: 040-27682317, 27097346



Mobile No : +91 - 9346917018

Email : laxp@osmania.ac.in; laxp@rediffmail.com;
plaxou@yahoo.com

Date of Birth : 30-08-1966
Social Back ground : Scheduled Caste
Place of Birth : (Village): Siripuram, (Mandal): Lingala Ghanpur,
(Dist): Jangaon - 506201, Telangana State, India

Professor in the Department : Mechanical Engineering, Osmania University
Present Designation : **Senior Professor**

Total Teaching Experience : 34

Teaching Experience:

S. No	Organization	Designation	Period		
			From	To	Years
1	Osmania University	Senior Professor	01-01-2016	Till Date	9
2	Osmania University	Professor	30-07-2005	31-12-2015	11
3	Osmania University	Associate Professor	30-07-1997	29-07-2005	8
4	Osmania University	Lecturer	18-09-1991	29-07-1997	6

Total Length of service as Professor : 20 Years

Total left over service for retirement : 6 Years

Areas of Interests : Production Engineering,
Experimental Techniques & Data Analysis,
Flexible Manufacturing System,
Industry-4.0 Principles & Technologies

Total Research Publications in reputed Journals: 102

[Citations: 512, h-index: 10, i10-index: 11]

- **International Journals** : 77
- **Conference Papers Published** : 25

Research Experience:

1. No. of Ph.Ds guided : 24 -Awarded, 02-Submitted, (01-Ongoing)
2. No. of M.E / M.Tech. guided : 56 (1- Ongoing)
3. No. of Research projects completed : Nil

Number of reputed Awards : Nil

No. of Seminars attended : 24

- **National** : 19
- **International** : 05

Membership in the Reputed Academic Bodies

1. TMS(USA): Member No : 432728
2. ISTE : Life Member No : LM 16084
3. ISME : Life Member No : L 427
4. IEI : Fellow Member : F-117840-3
5. IACIS : Life Member No : 10115
6. OGA : Life Member No : L 37
7. OUAA : Life Member
8. OUCE : Life Member

Administrative Posts Held:

1. **Registrar**, Osmania University, Hyderabad (2021 to 2024)
2. **Dean**, Faculty of Engineering, Osmania University, Hyderabad (2017 to 2019)
3. **Dean**, Students Affairs, Osmania University, Hyderabad (2015 to 2018)
4. **Special Officer**, Alumni Association of Osmania University, OU. (2010 to present)
5. **Governing body Executive Member**, OUAA, Osmania University (2009 to till date)
6. **Head**, Department of Mech. Engg., Univ. College of Engineering, O.U. (2011 to 2013)
7. **Chairman**, Boards of studies in Mechanical Engineering, Osmania University (2014 to 2016)
8. **Vice-Principal**, University College of Technology, Osmania University (2009-2010)
9. **Additional Chief Warden**, Engineering College Hostel & Messes , O.U. (2002-2007)
10. **Mess Warden**, Engineering College Hostel, Osmania University (1995-2002)

Ph.D Supervised (Awarded)

S.No	Name of the Student	Title of the Thesis	University	Awarded (Mention Year)/ Submitted/ On Goining of Ph.D
1	Mr. Karrolla Buschaiah	Analysis of Stochastic and inconsistent Results and Related Noise Factors in EDM	Osmania University	31-12-2013
2	Mr. A. Parshuramulu	Effect of electrode polarity on erosion characteristics in EDM	Osmania University	08-07-2015
3	Mr. Rajkumar Vaij Nathrao Patil	Analysis of Buckling behavior of Helical Compression springs over the different ranges of Parameters	Osmania University	06-07-2016
4	Mr. Syed Ferhathulla Hussainy	Study of shrinkage characteristics of Aluminum-Silicon alloy Using Modeling Analysis	Osmania University	24-01-2017
5	Mr. Md. Aleem Pasha	Experimental and Numerical Investigation on Friction Stir Welding of Aluminium and Magnesium Alloys	Osmania University	14-12-2017
6	Mr. Syed Azeem Pasha	Electric Discharge Machining Characteristics of FSP Fabricated Metal Matrix Surface Composites	Osmania University	16-03-2019
7	Mr. D. Devaiah	Optimization of processes parameters in Friction stir welding of Aluminum Alloys	Osmania University	27-05-2019
8	Mr. S.V. Prasad	Distortion Reduction in Monolithic Machining	Osmania University	21-08-2019
9	Mr. Pandu Ramavath	Micro Structural Development and Mechanical Property Evaluation of Ceramic Systems Processed under Hot Isostatic Pressing	Osmania University	21-08-2019
10	Mr. Damasani Raji Reddy	Experimental Investigations	Osmania	24-02-2020

		On Process Parameters of Pre-Heat Treated Friction Welded 15CDV6 Alloy Steel	University	
11	Mr. U. Ashok Kumar	Experimental Investigation of Micro Hole Machining Using Die Sinker EDM with Taguchi Approach	Osmania University	25-09-2021
12	Mr. G. Chandramouli	Experimental and numerical studies on launch dynamics for a canisterized surface to air launched flight vehicle	Osmania University	04-10-2021
13	Mr. Jalagari Narsaiah	Experimental Analysis and Numerical Simulation on Measurement of Temperature Distribution During Oscillating Combustion in a Crucible Furnace	Osmania University	28-12-2021
14	Mr. N. Chandra Sekhar	Development of Part Families for Medium Scale Industries	Osmania University	07-04-2022
15	Mr. Chinta Shakar	Optimization of Process Parameters of CNC EDM for Inconel 718	Osmania University	26-11-2022
16	Mr. Mekala Swamy	Studies on Dissimilar Metal Weld Joints of Cast Nickel Base Super Alloy and 9-12CR Steel for High Temperature Applications	Osmania University	28-08-2023
17	Mr. V. Venkatesgwarlu	Computer Aided Design and Development of Actuator Housing Using DFMA Principles	Osmania University	07-06-2924
18	Mr. S. Ramesh Kumar	Additive Manufacturing and Welding Studies of Maraging Steel for Critical Applications	Osmania University	12-11-2024
19	Mr. M. Prakash	Experimental Investigation on Meso Holes by Electrical Discharge Drilling on EN-31 Steel	Osmania University	28-11-2024
20	Mr. Sardar Jaspal Singh	Experimental Investigation on Micro Structural and Mechanical Properties of Friction Surfacing on Low Carbon Steel using Stainless	Osmania University	09-12-2024

		Steel Grades		
21	Mr. Sayyad Shaik	Experimental investigation of intermetallic compounds on mechanical properties of friction welded copper and brass bimetallic joints	Osmania University	22-01-2025
22	Ms. Udayani Kotagiri	Experimental Investigations on Al6063 Metal Matrix Alloys: Machinability, FE and Reliability Analysis	Osmania University	23-07-2025
23	Ms. M. Sirisha	Investigation on the Use of Green Dielectric in Electric Discharge Machining of Superni 909 Using a Hybrid Electrode	Osmania University	07-08-2025
24	Mr. Ahmed Abdul Muneem	Experimental Investigation of Weld Quality of Alloy Steel Pipes Joined Using Rotating Arc Welding Technique and its Comparison with other Processes	Osmania University	10-09-2025

Any Other Information:

Corporate Contribution

1. **Technical Expert Member**, Telangana State Council for Higher Education, Govt. of T.S. (2014 to 2017)
2. **Special Officer**, Alumni Association of Osmania University, OU. (2010 to 2024)
3. **Governing body Executive Member**, OUAA, Osmania University (2009 to till date)
4. **Member**, UCE, SVU, Tirupati, Board of Studies in Mechanical Engg., (2025 to 2027)
5. **Member**, NSS adviser committee, Osmania University. (2012 to 2021)
6. **Member**, Conducting Entrance examination for ECET (FDH) - 2015
7. **Member**, JNTU Hyderabad, Purchase Committee, (2012 to 2017)
8. **Member**, JNTU Hyderabad, Board of Studies, (2012 to 2016)
9. **Member**, JNTU Kakinada, Board of Studies, (2019 to 2021)
10. **University Nominee** on the Governing Body of CBIT, Hyderabad, (2016 to 2020)
11. **Member**, Assessment of DRDO, India employs as a External Expert (2014)
12. **Member**, Anti Ragging Committee, Univ. College of Engineering, O.U. (2003-2007)

13. **Member**, Committee to Look in to the Backlog Vacancies for Teaching and Non-teaching Posts under SCs/STs Category, Osmania University (2004-2005).
14. **Head**, Department of Mechanical & Electrical Engineering, UCT, O.U. (2003-2010)
15. **Coordinator, Janmabhoomi**, University College of Engineering, O.U. (1996-1997)
16. **NSS Programme Officer**, University College of Engineering (A), O.U. (1996-1997)
17. **Convener**, ME/M. Tech. (Mech.) Admissions, Univ. College of Engg. O.U. (1995-1996)
18. Member, Maintenance Committee, UCE (A), O.U.(1995- 1997)
19. Member, Mechanical Engineering Departmental Committee, OU. (1993-1997)
20. Member, Confidential Team **EAMCET - 1996**
21. Member, Confidential Team **ECET (FDH) - 1992 & 1993**
22. Member, Admissions of **ECET (FDH) - 1992 & 93**

Industrial Experience:

Organization	Designation	Period	
		From	To
District Industries Centre, Warangal, Govt. of A.P.	Technical Assistant	1990	1991

Academic Record

Degree	Institute/University	Specialization	Year of Pass
Ph.D.	Osmania University	Mechanical Engineering	2003
M.E.	Osmania University	Production Engineering	1995
B.E.	Osmania University	Mechanical Engineering	1989
Intermediate	Govt. Junior College Jangaon, (Dist): Jangaon	Mathematics Physics Chemistry	1983
High School	ZPSS Jangaon, (Dist): Jangaon	Composite Mathematics	1981
Upper Primary School	UPS Kallem (M): LingalaGhanpur Dist: Jangaon	5 th to 7 th Class	1978
Primary School	PS Siripuram (M):LingalaGhanpur (Dist): Jangaon	1 st to 4 th Class	1975

Seminars, Conferences and Workshops Organized

S. No	Course Name	Duration	Year	Organizer/s
1	Workshop on Engineering Research Methodology	3 days	2012	Dept. of Mechanical Engineering Univ. College of Engineering Osmania University, Hyderabad
2	National Conference on Recent Advances in Mechanical Engineering.	2 days	2012	Dept. of Mechanical Engineering Univ. College of Engineering Osmania University, Hyderabad
3	Workshop on Geometric Modelling & Analysis Software.	2 days	2012	Dept. of Mechanical Engineering Univ. College of Engineering Osmania University, Hyderabad
4	One day workshop on Training on CNC Machining - Tool and techniques.	One day	2013	Dept. of Mechanical Engineering Univ. College of Engineering Osmania University, Hyderabad
5	Workshop on Engineering Research Methodology	5 days	2019	Dept. of Mechanical Engineering Univ. College of Engineering Osmania University, Hyderabad

Seminars, Conferences and Workshops Attended

(A) National:

S. No.	Course Name	Year	Organizer/s
1	A "Production drawing practice"	1993	(ISTE) Dept. of Mech. Engg., O.U.
2	A Seminar on "Energy Conservation"	1993	(N.P.C.) Dept. of Mech. Engg., O.U.
3	National Seminar on "New Energy Technologies & Clean Environment"	1993	(DST, CSIR, BHEL, A.P. State Council) Dept. of Mech. Engg., O.U.
4	National workshop on "Industrial Pollution & Control"	1994	(AICTE) Dept. of Mech. Engg., O.U. (BHEL, National Society for FMFP)
5	21st National Conference of "Fluid Mechanics & Fluid Power"	1994	Dept. of Mech. Engg., O.U. (AICTE) Dept. of Mech. Engg., O.U.
6	National Seminar on "Power Plant Fly Ash Utilisation & Waste Heat Recovery systems"	1995	College of Engineering, O.U.
7	One day workshop on "Entrepreneurship"	1996	Nizam College & College of Technology, Osmania University
	XI National Conference of Sports Psychology	1998	
8	National Conference on "World Class	2000	Bundelkhand Institute of Engineering

9	Manufacturing Systems – 2000” 19 th All India Manufacturing Technology, Design and Research Conference (AIMTDR)	2000	& Technology, Jhansi (U.P.) I.I.T. Madras, Chennai
10	Design and Analysis of experiments	2001	Univ. College Technology, O.U., Hyd.
11	Symposium on Manufacturing Excellence (SYMAX)	2002	I.I.T. Madras, Chennai
12	20 th All India Manufacturing Technology, Design and Research Conference (AIMTDR)	2002	B.I.T., Mesra, Ranchi, Jharkhand
13	National Conference on Advanced Materials and Manufacturing Techniques(AMMT- 2004)	2004	College Engineering, JNTU, Hyderabad
14	National Conference on Computational Methods in Mechanical Engineering (COMPUTIME)	2004	University College of Engineering (A) Osmania University, Hyderabad
15	Workshop on Advances in Computational Structural Mechanics and fluid flows (COSMECFLOWS)	2005	University College of Engineering (A) Osmania University, Hyderabad
16	Two day Workshop on “NBA Accreditation Process and Parameters”	2011	Kalinga Institute of Industrial Technology
17	One day Workshop on “Outcome Based Accreditation Process and Parameters”	2012	KIIT University,Bhubaneswar, Orissa, University College of Engineering (A)
18	Programme on Managing Excellence in Academic Institutions for Heads of Institution/ Department of TEQIP Institutions	2013	Osmania University, Hyderabad Administrative Staff College of India, Bella Vista, Hyderabad
19	TEQIP Conclave on “Enhancing Quality of Technical Education and Research”	2014	Dept. of Mechanical Engineering IIT Hyderabad, Telangana State

(B) International:

S. No.	Course Name	Year	Organizer/s
1	TMS 132 nd Annual Meeting Symposium on	2003	TMS, San Diego Conventional Centre,
2	Surface Engineering in Materials Science- II International Congress on Renewable Energy (ICORE)- 2006	2006	San Diego , California, USA SESI, Hyderabad International Conventional Centre, Hyderabad, India
3	Materials Science & Technology (MS&T’06) International Conference & Exhibition	2006	Duke Energy Center (Formerly Cinergy Center), Cincinnati, Ohio, USA
4	Materials Science & Technology (MS&T’07) International Conference & Exhibition	2007	COBO Center , Detroit, Michigan, USA.
5	Society for the Advancement of Material and Process Engineering (SAMPE)-2010	2010	Washington State Convention Center, Seattle, WA, USA

	Conference.		
--	-------------	--	--

Refresher Courses / Training Programmes Attended

(A) National:

S. No	Course Name	Duration	Year	Organizer/s
1	Advances in Manufacturing & Quality Assurance	2 weeks	1994	(ISTE) I.I.T. Madras
2	Total Quality Management	2 weeks	1995	(ISTE) R.E.C. Warangal
3	Numerical Methods & Computer Applications in Engineering & Science	2 weeks	1996	(ISTE) C.B.I.T. Hyderabad
4	Orientation / Refresher Training Programme for NSS Programme Officers	2 weeks	1996	Training and Orientation Centre, O.U. Hyderabad
5	Solar Energy Engineering and Instrumentation	2 weeks	1997	I.I.Sc. Bangalore
6	Induction Training Programme - I (In Unix & 'C' Programming)	4 weeks	1998	Academic Staff College Osmania University, Hyderabad
7	Advanced Manufacturing Technology	2 weeks	1998	I.I.T. Delhi, New Delhi
8	Neurofuzzy and Expert System Applications	2 weeks	2000	AICTE /ISTE, U.C.E., Osmania University, Hyderabad
9	Energy and Human Resource Management	3 weeks	2002-03	I.P.E., O.U. Campus, Hyderabad.
10	Nanotechnology and its Applications	2 weeks	2004	College of Engineering JNTU, Hyderabad
11	Internal Revenue Generation and Utilization in Engineering Institutions	1 week	2008	National Institute of Technical Teachers Training & Research Chennai

(B) International:

S. No	Course Name	Duration	Year	Organizer/s
1	New and Innovative Methods of Manufacturing	2 weeks	2009	Dept. of Mechanical Engineering University of Washington Seattle, WA-98195, USA

Accomplishments as Administrator (1995 to till date)

Academics:

1. Played a key role as **Dean, Faculty of Engineering** in introducing **AICTE Model curriculum** and revised scheme of instruction & Syllabus in the Faculty Engineering for UG & PG courses in the Osmania University.

2. As **Dean, Faculty of Engineering**, Successfully completed Ph.D. admissions under the Category-I, Category-II and QIP candidates for the academic years 2013-14, 2014-15, 2015-16, 2016-17, 2017-18, 2018-19 in the Osmania University.
3. **Instrumental in introduced the CBCS curriculum** and revised syllabus in Mechanical Engineering for UG & PG in OU College of Engineering.
4. Introduced Alumni scholarships to the poor and rural background students in the university by the Alumni of OU.
5. Successfully maintained fixed academic calendar, enforced fixed schedule for examinations, valuation, and publication of results and issue of certificates at UCT, OU.
6. Introduced New PG course in Mechanical Engineering Department with collaboration of CITD
7. Revised Syllabus in Mechanical Engineering for UG & PG in OU, JNTU, CBIT, CVSR and CMR College of Engineering.
8. Delivered Guest Lecturers at IPE, CBIT, Githam University and Osmania University.
9. Introduced Kinnera Hostel Reminiscences for the final year Hostel Boarders, Osmania University.
10. Introduced Technology Reminiscences for the final year Hostel Boarders, Osmania University.

Research:

1. Organized 5-day Workshop on Engineering Research Methodology to promote research activities in the faculty of Engineering.
2. Organized 3day Workshop on Induction training programme for the Engineering College Faculty to promote counseling activities to the Engineering College students.
3. Developed a Dr. Aziz Jamaluddin Computer Centre for the research scholars of Arts and Social science students in the Arts College with help of Dr. Aziz Jamaluddin, Alumni of 1966 batch OU (settled in USA)
4. Organized a 3-day Workshop on Engineering Research Methodology by TEQIP to promote research activities
5. Organized two day National Conference on Recent Advances in Mechanical Engineering by TEQIP to promote research activities
6. Organized two day Workshop on Geometric Modelling & Analysis Software for the benefit of the students.
7. One day workshop on Training on CNC Machining - Tool and Techniques by TEQIP-II for the benefit of the Non- teaching staff.
8. One day workshop on Industry – Institute and Defence Labs Interaction by DRDO & TEQIP-II to promote research activities
9. Two day National Conference on Emerging Trends in Mechanical Engineering by TEQIP to promote research activities

10. Motivated and guided the Mechanical Engineering Graduate Students to participate in the Society of Automobile Engineering (SAE) BAJA Competition organized at Madhya Pradesh, India, the students bagged the Best Design prize in the year 2012.

Administration:

1. As the Registrar of Osmania University, Hyderabad, successfully conducted interviews for the promotions of teaching faculty and non-teaching staff to drive academic improvements, Encouraged students to excel in academics and co-curricular activities for the benefit of student communities, Administered and oversaw all academic activities of affiliated institutions. Maintained regular interactions with Osmania University alumni to foster academic development initiatives, Secured funding for Osmania University's development activities from the Government of Telangana and Government of India, and approached various organizations to mobilize additional funds under Corporate Social Responsibility (CSR) initiatives.
2. As Dean, Students Affairs, Osmania University, actively participated for successfully organized the OU Centenary Celebration by counseling of the Students.
3. As Special Officer, Alumni Association of Osmania University successfully organized the OU Centenary Celebration Alumni meet.
4. Introduced the Hostel maintenance committees by Boarder in the Engineering College Hostels & Messes for maintain the cleanliness in Hostels & reducing the wastage of food in the Messes and maintained the hygienic conditions in the Hostels.
5. Introduced the anti ragging Squads in the Engineering College Hostels. Introduced internet facilities to all the Hostels. Facilities for students to lodge complaints through SMS and E-mail introduced.
6. Introduced the idea of having a position of Vice-Principal Hostels & Messes in place of Additional Chief Warden, Hostels & Messes in the University Colleges for smooth functioning of Hostels as convener of the Committee.

Infrastructure Development:

1. Initiated to construct a New Administrative Building for Osmania University.
2. Steps initiated to construct a New Hostel for the Boys for the ECH-I, University College of Engineering, Osmania University.
3. Steps initiated to construct a New Hostel for the Boys, University College of Arts and Social Science, Osmania University.
4. Secured funds to construct a New Hostel for the Girls for Osmania University.
5. Provided Hostel facilities for girls at all the OU constituent Colleges.
6. Developed a Smt. Ramabai Ambedkar Digital conference Hall at PTNRCFRD, OU under the CSR funds.

7. Steps initiated to bring the Drinking water pipeline to the Mechanical Engineering Department and also entire Engineering College & Hostels, OU with water storage and pumping facilities.
8. Took lead to construct First Floor on Mechanical Engineering Department, University College of Engineering.
9. Steps initiated to construct New Girls Hostel for Engineering and Technology students in the University campus with good facilities.
10. Greenery and Landscaping work taken up and executed at University College of Technology, Osmania University.
11. Steps initiated to construct a New Dining Hall for the ECH-I, University College of Engineering, Osmania University.
12. Carried out renovation work of Engineering Students Hostels, University College of Engineering, Osmania University and also provided internet facilities to the entire hostel.
13. Steps initiated and executed to construct boundary wall between the Hostel and Department and also carried out renovation work of Mechanical Engineering Department Labs.
14. Steps initiated and executed the Greening and Landscaping work at the Mechanical Engineering Department, Osmania University.

Community Services:

1. As part of the Green Campus initiative, participated and motivated the students for active participation of plantation of trees in the OU Campus.
2. Blood donation camps were organized in the University.
3. As part of the clean Campus initiative, participated and motivated the students for active participation of cleaning the OU near Basthies.
4. Regular visits to the Schools and interacted and motivated the school student to reduce the pollution in the cities.
5. Workshops are conducted to the school students to create awareness to avoid the plastic usage.
6. Orientation and counseling programme, in order to minimize failure rates and to promote employability among the Engineering students.
7. Interactive meetings to students, in order to overcome the stress and to improve their confidence levels.
8. Arranged the tri-wheeler motor bike to the physically challenged students of OU from the Rajiv Gandhi Foundation, New Delhi.
9. Involved to motivate and mentor the Engineering & Technology students to support the victims during the national calamities

Books & Book Chapters:

1. Ashok Kumar Uppari, **Dr.Laxminarayana Pappula** “*Optimization of Wire-EDM Process Parameters on Ti-6AL-4V*”, LAP Lambert Academic Publishing, ISBN: 978-620-0-22551-1.
2. Md. Aleem Pasha, P. Ravinder Reddy, **P. Laxminarayana**, Ishtiaq Ahmed Khan: *SiC and Al₂O₃ Reinforced Friction Stir Welded Joint of Aluminium Alloy 6061*. Strengthening and Joining by Plastic Deformation, 01/2019: pages 163-182; , ISBN: 978-981-13-0377-7, DOI:10.1007/978-981-13-0378-4_7
3. Sardar Jaspal Singh, M. Prakash, **P. Laxminarayana**: *Experimental and Characterization of Aluminium Over Mild Steel by Friction Surface Processing*. Proceedings of the International Conference on Research and Innovations in Mechanical Engineering, 01/2014: pages 375-381; , ISBN: 978-81-322-1858-6, DOI:10.1007/978-81-322-1859-3_35
4. **P. Laxminarayana**, VSR Murti: *Machinability Studies of PM Metal Matrix Composites on EDM*. Ultrafine Grained Materials II, 10/2013: pages 381-388; DOI:10.1002/9781118804537.ch44

Total Research Publication Highlights: 102

Journal Publications : 77

Conference Papers Published : 25

TITLE

1. **Parametric optimization in micro-EDM drilling of Ti–46.5 Al–5Nb–2Mo–0.3 B alloy using teaching-learning-based optimization algorithm**
P Ravindrannair, K Kishore, P Laxminarayana, S Kumar, A Equbal
Frontiers in Engineering and Built Environment, 1-17
2. **WEAR, CORROSION AND MICROSTRUCTURAL ANALYSIS ON SIC–GNP-REINFORCED AL319 COMPOSITE FABRICATED THROUGH ELECTROMAGNETIC STIR CASTING**
B Sandeep, K Kishore, P Laxminarayana
Surface Review and Letters
3. **Optimization of electrical discharge drilling parameters for precision micro-holes in**

TITLE

SuperNi 276

N Saidulu, P Laxminarayana, K Buschaiah
Journal of Alloys and Metallurgical Systems 9, 100171

4. **Microstructure & Tribological Behavior of Hybrid Al 319 Metal Matrix Composite Reinforced with SIC & Graphe Nano Powder**
B Sandeep, P Laxminarayana, K Kishore
Journal of Bio-and Tribo-Corrosion 11 (1), 14
5. **Green forming of superni 718 by hydraulic impact sheet metal deformation**
E Hazya, S Gajanana, P Laxminarayana, B Ravikumar, BSK Reddy
Manufacturing Technology Today 22 (11-12), 20-29
6. **Investigation of micro structural and mechanical properties of friction surfacing on low carbon steel by using stainless steel grades**
SJ Singh, K Kishore, P Laxminarayana, A Parshuramulu
Materials Today: Proceedings
7. **Tribological characterization of stir-cast hybrid magnesium composite reinforced with Zirconium, Garnet and graphite particulates**
R Syeda, P Laxminarayana, T Nagaveni, N Ahmed
AIP conference proceedings 2648 (1), 030019
8. **Study of Rotating Arc Welding Process for Joining of Pipes: An In-Depth Review**
AA Muneem, P Laxminarayana, M Viqar Mohiuddin
Recent Advances in Materials Processing and Characterization: Select ...
9. **Enriched algorithmic approach for classification and recognition of part families for medium scale industries**
NC Sekhar, P Laxminarayana
AIP Conference Proceedings 2358 (1), 100016
10. **Reference based dimensions prediction (RDP) system for identifying materials of part families**
NC Sekhar, P Laxminarayana
Materials Today: Proceedings 46, 831-837
11. **Design and development of face shield by 3D printing for the COVID-19 epidemics**
AK Singh, UA Kumar, P Laxminarayana
International Journal for Research in Applied Science and Engineering ...
12. **Machining of Micro Holes on Stainless Steel 316 by Die Sinking Electrical Discharge Machine**
UA Kumar, P Laxminarayana
Solid State Technology 63 (5), 889-898
13. **Optimization of process parameters on EDM for Inconel 718**

TITLE

- C Shekar, UA Kumar, K Kishore, P Laxminarayana
Recent Trends in Mechanical Engineering: Select Proceedings of ICIME 2019 ...
14. [Energy Improvement in Natural Gas Furnace using Oscillating Combustion Technology with Variation of Amplitudes](#)
J Narsaiah, P Laxminarayana, J Govardhan
International Research Journal of Engineering and Technology 7 (10), 2000-8
 15. [EXPERIMENTAL STUDIES ON LAUNCH DYNAMICS OF SLANT LAUNCHED SURFACE TO AIR FLIGHT VEHICLE](#)
G Chandramouli, PR Reddy, P Laxminarayana, M Borthakur
Technology 11 (5), 22-33
 16. [Influence of abrasive water jet cutting on glass fibre reinforced polymer \(GFRP\) composites](#)
UA Kumar, SM Alam, P Laxminarayana
Materials Today: Proceedings 27, 1651-1654
 17. [Optimization of surface roughness and kerf width by wire cut-electrical discharge machining on inconel 625](#)
A Kumar, UA Kumar, P Laxminarayana
Materials Today: Proceedings 27, 1460-1465
 18. [Material removal rate and surface roughness on machining of Inconel 718 by electrical discharge machine using Taguchi technique](#)
C Shekar, K Kishore, P Laxminarayana
Materials Today: Proceedings 27, 1024-1029
 19. [Experimental study on non-ferrous metals coating over mild steel using friction surfacing](#)
SJ Singh, UA Kumar, P Laxminarayana, K Kishore
AIP Conference Proceedings 2200 (1), 020057
 20. [Optimization of Friction Surfacing Process Parameters on Low Carbon Steel Using Taguchi Approach](#)
UA Kumar, B Kasi, P Laxminarayana
Materials Science Forum 969, 691-696
 21. [Experimental optimization of process parameters with Wire-EDM on Inconel 625](#)
A Kumar, UA Kumar, P Laxminarayana
Int J Res Appl Sci Eng Technol (IJRASET) 45 (98), 430-437
 22. [Optimization of Process Parameters on Kerf Width & Taper Angle on En-8 Carbon Steel by Abrasive Water Jet Machining](#)
S Kumar, P Laxminarayana, U Ashok Kumar
Proceedings of the 3rd National Conference on Recent Trends & Innovations in ...
 23. [Pixel-Based SAR Image Classification Using Random Forest Algorithm](#)

TITLE

- B Balnarsaiah, T Prasad, P Laxminarayana
International Journal of Innovative Technology and Exploring Engineering 8 ...
24. **Design and development of mechanical vibrating filter for reclaiming coolant from aluminium sludge**
AV Kumar, BV Reddic, G SreeRam, P Laxminarayana
Materials Today: Proceedings 19, 895-901
25. **Optimization of kerf width & kerf taper angle on Glass fiber reinforced polymer by abrasive water jet machining using Taguchi approach**
UA Kumar, SM Alam, P Laxminarayana
Int J Res Appl Sci Eng Technol 7 (10), 445e50
26. **Effect of Material Removal Rate on Micro Hole Machining Using Die Sinker EDM**
UA Kumar, M Prakash, P Laxminarayana
ЭЛЕКТРОФИЗИЧЕСКИЕ МЕТОДЫ ОБРАБОТКИ В СОВРЕМЕННОЙ ПРОМЫШЛЕННОСТИ, 30-36
27. **SiC and Al₂O₃ Reinforced Friction Stir Welded Joint of Aluminium Alloy 6061**
M Aleem Pasha, P Ravinder Reddy, P Laxminarayana, IA Khan
Strengthening and Joining by Plastic Deformation: Select Papers from AIMTDR ...
28. **The breakup of Thermal Boundary Layer over a Cylinder (Crucible) in a Gas Fired Furnace by using Oscillating Combustion Technology**
J Narsaiah, P Laxminarayana, J Govardhan
Int. J. Sci. Res. in Multidisciplinary Studies Vol 4, 3
29. **Evaluation of Thermal Characteristics by Oscillating Combustion in a Gas Fired Furnace**
J Narsaiah, P Laxminarayana, J Govardhan
Journal of Innovation in Mechanical Engineering 1 (1), 45-48
30. **Microstructural characterization and mechanical properties of sand cast and investment cast alloy 625 for HP/IP casing applications for advanced fossil fired power plants**
M Swamy, P Laxminarayana, AHV Pavan, MCA Harison, G Jayaraman, ...
Materials Today: Proceedings 5 (13), 27118-27122
31. **Multi response optimisation of EDM parameters for micro channels machining of SS 316 with Taguchi–GRA**
N Aravindan, UA Kumar, P Laxminarayana
Materials Today: Proceedings 5 (13), 27028-27035
32. **Optimal FSW process parameters for dissimilar aluminium alloys (AA5083 and AA6061) Using Taguchi Technique**
D Devaiah, K Kishore, P Laxminarayana
Materials Today: Proceedings 5 (2), 4607-4614
33. **Optimization of electrode tool wear in micro holes machining by die sinker EDM using Taguchi approach**

TITLE

- P Laxminarayana
Materials today: proceedings 5 (1), 1824-1831
34. [Study of microstructural characteristics and mechanical properties of friction stir welded three titanium alloys](#)
M Ramulu, K Gangwar, A Cantrell, P Laxminarayana
Materials Today: Proceedings 5 (1), 1082-1092
35. [Study of tool wear optimization in micro holes machining of SS316 by die sinker electrical discharge machining](#)
UA Kumar, P Laxminarayana
International Journal of Scientific Research in Multidisciplinary Studies 3 ...
36. [Experimental investigation to produce thin-walled sand casting using combination of casting simulation and additive manufacturing techniques](#)
MV Mohiuddin, SF Hussainy, A Krishnaiah, P Laxminarayana
The International Journal of Advanced Manufacturing Technology 90 (9), 3147-3157
37. [Effect of welding speed on mechanical properties of dissimilar friction stir welded AA5083-H321 and AA6061-T6 aluminum alloys](#)
D Devaiah, K Kishore, P Laxminarayana
International Journal of Advanced Engineering Research and Science 4 (3), 237069
38. [Optimization of process parameters of Material Removal Rate in Micro hole Machining by Die sinker EDM](#)
U Ashok Kumar, P Laxminarayana
IOSR J Eng (IOSRJEN) 7 (7), 61-65
39. [International Journal of Current Advanced Research](#)
S Viswanaath, J Hayavadana, P Laxminarayana, A Kavitha, K Sreenu
40. [Parametric optimization of friction stir welding parameters using Taguchi technique for dissimilar aluminum alloys \(AA5083 and AA6061\)](#)
D Devaiah, K Kishore, P Laxminarayana
IOSR J. Eng 7 (09), 44-49
41. [Study of surface morphology on micro machined surfaces of AISI 316 by Die Sinker EDM](#)
P Laxminarayana, N Aravindan
Materials Today: Proceedings 4 (2), 1285-1292
42. [Electric discharge machining characteristics of AA7075/MWCNT surface MMCs fabricated through Friction Stir Processing](#)
SA Pasha, P Ravinder Reddy, P Laxminarayana
6th International AIMTDR-2016, 16-18
43. [Process parameters influence on impact toughness and microstructure of pre-heat treated friction welded 15CDV6 alloy steel](#)

TITLE

DR Reddy, P Laxminarayana, GCM Reddy, GMS Reddy
IJ Engineering and Manufacturing

44. [Analysis of shrinkage characteristics of aluminium silicon alloy](#)
SF Hussainy, MV Mohiuddin, P Laxminarayana, S Sundarajan, ...
Journal for Manufacturing Science and Production 16 (3), 163-171
45. [Optimization of process parameters in friction stir welding of dissimilar aluminium alloys \(AA5083 and AA6061\) using Taguchi technique](#)
D Devaiah, K Kishore, P Laxminarayana
Innovative Research in Science, Engineering and Technology (IJIRSET) 5 (8 ...
46. [Aluminium oxide particulate reinforced friction stir welded joint of Aluminium alloy 6061](#)
MA Pasha, PR Reddy, P Laxminarayana, IA Khan
International journal of engineering science 5827
47. [Mechanical behavior of silicon carbide reinforced friction stir welded joint of aluminium alloy 6061](#)
MA Pasha, PR Reddy, P Laxminarayana, IA Khan
International Journal of Engineering Research 5 (05)
48. [Study the process parametric influence on impact strength of friction stir welding of dissimilar aluminum alloys \(AA5083 and AA6061\) using Taguchi technique](#)
D Devaiah, K Kishore, P Laxminarayana
Inte. Adv. Res. J. Sci. Eng. Technol 3, 91-98
49. [Comfort Characteristics of Cotton Fabrics Finished with Fluoro-Carbon Base Lotus Finish: Use of Computerized Evaluation](#)
S Viswanaath, P Lakshminarayana, J Hayavadana
Materials Today: Proceedings 3 (2), 640-645
50. [Effect of Material Location and Tool Rotational Speed on the Mechanical Properties of Dissimilar Friction Stir Welded Aluminum Alloys \(5083-H321 to 6061-T6\)](#)
D Devaiah, K Kishore, P Laxminarayana
Bonfring Int J Ind Eng Manag Sci 6, 186-190
51. [Influence of process parameters on quality of Al7SiMg alloy casting using statistical techniques](#)
MV Mohiuddin, A Krishnaiah, SF Hussainy, P Laxminarayana
Materials Today: Proceedings 3 (10), 3726-3733
52. [Solidification Simulation of Aluminum Alloy Casting - A Theoretical and Experimental Approach](#)
SS S. Ferhathullah Hussainy, M. Viqar Mohiuddin, P. Laxminarayana
International Journal of Modern Engineering Research (IJMER) 5 (2), 1-10

TITLE

53. **DESIGN AND ANALYSIS OF WELDED JOINTS OF PRESSURE VESSEL**
KH Mukhirmesh, P Laxminarayana
54. **Establishment of buckling equation for conical spring and its experimental verification**
RV Patil, PR Reddy, P Laxminarayana
Journal of Automotive Applied Mechanics 3 (1)
55. **Compaction Curves: A Tool for Qualitative Evaluation of Quasi-static Compaction Behavior of Ceramic Powders**
P Ramavath, P Biswas, PS Babu, P Laxminarayana, R Johnson
Journal of The Australian Ceramic Society 51 (2), 130-136
56. **Development of buckling equation for conical spring and its experimental verification**
RV Patil, PR Reddy, P Laxminarayana
American Journal of Engineering and Technology Research 15 (1), 67-81
57. **Effect of reinforced particulates (sic and al2o3) on friction stir welded joint of magnesium alloy AZ91**
MA Pasha, PR Reddy, P Laxminarayana, IA Khan
International Journal of Scientific and Engineering Research 6, 5
58. **Solidification simulation of aluminum alloy casting—a theoretical and experimental approach**
SF Hussainy, MV Mohiuddin, P Laxminarayana, S Sundarrajan
Int. J. Modern Eng. Res 5, 28-30
59. **A practical approach to eliminate defects in gravity die cast al-alloy casting using simulation software**
SF Hussainy, MV Mohiuddin, P Laxminarayana, A Krishnaiah, ...
International Journal of Research in Engineering and Technology 4 (1), 114-123
60. **Comparison of cylindrical and conical helical springs for their buckling load and deflection**
RV Patil, PR Reddy, P Laxminarayana
International Journal of Advanced Science and Technology 73, 33-50
61. **Hot isostatic pressing of ZnS powder and CVD ZnS ceramics: comparative evaluation of physico-chemical, microstructural and transmission properties**
P Ramavath, P Biswas, R Johnson, GJ Reddy, P Laxminarayana
Transactions of the Indian Ceramic Society 73 (4), 299-302
62. **Experimental and Characterization of Aluminium Over Mild Steel by Friction Surface Processing**
SJ Singh, M Prakash, P Laxminarayana
Proceedings of the International Conference on Research and Innovations in ...
63. **Influence of process and tool parameters on friction stir welding—over view**
A Pasha, RP Reddy, P Laxminarayana, IA Khan

TITLE

Int. J. Appl. Eng. Technol 4, 54-69

64. [Experimental study of sand mold process parameters on Al-alloy sand castings using DoE](#)
MV Mohiuddin, SF Hussainy, A Krishnaiah, P Laxminarayana, ...
IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) 11 (6), 01-06
65. [Processing of Ceramics and Metal Matrix Composites with Electro Discharge Machining](#)
NS Shanker, A Parashuramulu, K Buschaiah, P Laxminarayana
Advanced Materials Research 699, 864-868
66. [Buckling Analysis of Straight Helical Compression Springs Made Of ASTM229 Gr-II, ASTM A 313 Materials \(Type 304 & 316\)](#)
RV Patil, DPR Reddy, DP Laxminarayana
International journal of engineering research & technology (IJERT) 2 (6)
67. [INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN ENGINEERING AND TECHNOLOGY \(IJARET\)](#)
A Parshuramulu, K Buschaiah, P Laxminarayana
Journal Impact Factor 4 (3), 158-162
68. [Cutting Characteristics of Titanium Graphite Composite by Wire Electrical Discharge Machining](#)
M Ramulu, M Spaulding, P Laxminarayana
Advanced Materials Research 630, 114-120
69. [Optimization of process parameters for milling using taguchi methods](#)
J Pratyusha, U Ashok Kumar, P Laxminarayana
International Journal of advanced Trends in computer science and Engineering ...
70. [Prediction of thrust force and torque in drilling on aluminum 6061-T6 alloy](#)
KP Kumar, K Kishore, P Laxminarayana
International Journal of Engineering Research & Technology 2 (3)
71. [Thermal design and analysis of cold plate with various proportions of ethyl glycol water solutions](#)
UR Maddipati, P Rajendran, P Laxminarayana
International Journal of Advanced Trends in Computer Science and Engineering ...
72. [A study on influence of polarity on the machining characteristics of sinker EDM](#)
A Parshuramulu, K Buschaiah, P Laxminarayana
International Journal of Advanced Research in Engineering & Technology ...
73. [AWJ Cutting and EDM Edge Finishing on Surface Morphology of Fiber-Metal Composite Laminates](#)
M Ramulu, V Isvilanonda, P Laxminarayana
Proc. 21st Int. Conf. Water Jet., Ottawa, Canada: BHR, 47-56

TITLE

74. [An Investigation for the Significant Parameters in TIG Welding of Al-65032 alloy Using ANOVA](#)
P Laxminarayana
International Conference on Mechanical and Industrial Engineering,RELC ...
75. [Some anomalies in the experimental results of EDM](#)
K Buschaiah, P Laxminarayana, VSR Murti
International journal of manufacturing technology and management 24 (1-4), 57-70
76. [Effect of die sinker EDM and AWJ machining processes on flexural properties of hybrid titanium laminates](#)
V Isvilanonda, M Ramulu, P Laxminarayana, T Briggs
Proceedings of the 55th International SAMPE Symposium, Seattle, WA, USA 17
77. [Rotary Ultrasonic Drilling of Al₂O₃ Ceramic Material](#)
BNP. Rao, P.Laxminarayana, M Ramulu
TMS 2010 Annual Meeting & Exhibition,Washington State Convention Center ...
78. [EDM and AWJ Edge Finishing on Surface Morphology of Hybrid Composite Laminates](#)
L Pappula
Minerals, Metals and Materials Society/AIME, 420 Commonwealth Dr., P. O. Box ...
79. [EDM and AWJ edge finishing on surface morphology of hybrid composite laminates](#)
P Laxminarayana, V Isvilanonda, M Ramulu, BNP Rao
TMS 2010-139th Annual Meeting and Exhibition
80. [Quantification of Delta Ferrite in Austenitic Stainless Steel Cast in Investments Shell Moulds](#)
P Laxminarayana, AC Reddy
6th National Conference on Materials and Manufacturing Processes, Hyderabad ...
81. [Integrated Machining and Surface Modification of Steel Components](#)
MAA Sadiq, P Laxminarayana, VSR Murti
MATERIALS SCIENCE AND TECHNOLOGY-ASSOCIATION FOR IRON AND STEEL TECHNOLOGY ...
82. [Microhole Machining by a Modified Electrical Discharge Machine](#)
P Laxminarayana, K Sudhakar, MAA Sadiq, VSR Murti
MATERIALS SCIENCE AND TECHNOLOGY-ASSOCIATION FOR IRON AND STEEL TECHNOLOGY ...
83. [A.: Design of top risers using parabolic metal flow concept during solidification](#)
P Laxminarayana, C Reddy
National Conference on Advanced Materials and Manufacturing Techniques 456
84. [Nonlinear finite element modeling of machining process to minimize distortion in forged turbine disk](#)
P Laxminarayana, AC Reddy
National Conference on Computer integrated Design and Manufacturing ...

TITLE

85. [Effect of Particle Spatial Distribution and Clustering on Tensile Behavior of Titanium Oxide/AA5050 Alloy Particle Reinforced Composites](#)
P Laxminarayana, AC Reddy
4th International Conference on Composite Materials and Characterization ...
86. [Numerical Investigation of the Effect of Particle Clustering on the Micromechanical Properties of Titanium Nitride/AA4015 Alloy Particle-Reinforced Metal Matrix Composites](#)
P Laxminarayana, AC Reddy
4th International Conference on Composite Materials and Characterization ...
87. [41. Analysis of Characteristics Features of EDM Surfaces](#)
VSR Murti, P Laxminarayana, GVR Reddy
IT Based Manufacturing, 265
88. [A hybrid parameter for the characterization and specification of surface texture.](#)
P Laxminarayana, VSR Murti
Surface Engineering: in Materials Science II as held at the 2003 TMS Annual ...
89. [“Morphology of Resultant Surfaces from Electro discharge machining and Electro discharge Sawing”,](#)
VSRM P.Laxminarayana
The 133rd The Minerals, Metals & Materials Society (TMS) Annual Meeting ...
90. [Machinability Studies of PM Metal Matrix Composites on EDM](#)
P Laxminarayana, VSR Murti
Ultrafine Grained Materials II, 381-388
91. [A signal processing approach for the analysis of mechanism of surface generation in EDM](#)
VSR Murti, P Laxminarayana, MK Reddy
ICCN 2001: International Conference on Computational Nanoscience, Hilton ...
92. [Tribological Study on Sic+ Graphene Reinforced Al319 Composite and Optimization of Stir Casting Parameters](#)
B Sandeep, P Laxminarayana, K Kishore
Available at SSRN 4901608
93. [Multi Optimization of Friction Stir Welding of Aluminium AA 6061 Alloy using Grey based Taguchi Method](#)
P Ravindrannair, K Kishore, P Laxminarayana, UA Kumar, FH Khan
94. [A Signal Processing Approach for the Analysis of Mechanism of](#)
VSR Murti, P Laxminarayana, MK Reddy
95. [SOME STUDIES ON DESIGN, ANALYSIS AND MANUFACTURING ASPECTS OF SURFACE TO AIR ARTICLE LAUNCHING CANISTER](#)
G CHANDRAMOULI, PR REDDY, P LAXMINARAYANA, P SHIVDAS

TITLE

96. [Evaluation of Fabric Comfort Quality by Novel Test Methods and Grading & Ranking Techniques](#)
S Viswanaath, P Lakshminarayana, J Hayavadana, T Ramachandran
97. [The Effects of Process Variables on the Dimensional Variation of intermediate Spacer Castings Used in the Cement Mills](#)
Indian Foundry Journal,
98. [AN INVESTIGATION FOR THE SIGNIFICANT PARAMETERS IN TIG WELDING OF AL-65032 ALLOY USING ANOVA](#)
N NAGARI, G HARAGOPAL, P LAXMINARAYANA
99. [Impact of Cutting Fluids on distortion of 2014A T6 Aluminum alloy during machining](#)
SV PRASAD, PL NARAYANA, PR REDDY
100. [INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY EVALUATION OF MACHINING INDUCED RESIDUAL STRESSES IN 2014 A T6 ALUMINUM ALLOY USING INDENTATION METHOD AND ...](#)
MSV Prasad, P LaxmiNarayana, PR Reddy
101. [Residual Stresses in Machining: A Review](#)
SV Prasad, P LaxmiNarayana, PR Reddy
102. [Surface Generation in EDM'](#)
VSR Murti, P Laxminarayana, MK Reddy

(Dr. P. LAXMINARAYANA)