



## ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTU Kakinada)


Accredited by NAAC & An ISO 9001:2015 Certified Institution

ITI Road, ALC Campus, VIJAYAWADA - 520 008 :: Website : [www.aliet.ac.in](http://www.aliet.ac.in) :: Ph : 0866 - 2476161

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### FACULTY PROFILE

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Name of the Faculty	Dr. Geeta Rani Madireddy		
Designation	Associate Professor & HOD		
Department	Mechanical Engineering		
Date of Joining the Institution	02.07.2015		
Qualification with Class/Grade	<ul style="list-style-type: none"> <li>Ph.D. from K L University, Feb.2020.</li> <li>PG: M.Tech, CAD/CAM ,1<sup>st</sup> Class with Distinction from Acharya Nagarjuna University , 2009</li> <li>UG: B.Tech – Mechanical Engineering with First class from JNTU, Hyderabad, , 2002</li> </ul>		
	<b>Doctorate - Manufacturing Technology</b> <b>Title – Development and Characterization of Al 6061 / MoS<sub>2</sub> MMC and Optimization of Process Parameters for Machining with WEDM</b>		
Employee ID	ALIET-15-33		
E-Mail	geetarani305@aliet.ac.in		
Total Experience in Years	<b>Teaching:</b> 18 years	<b>Industry: 00</b>	<b>Research: 00</b>
Papers Published	<b>National: 02</b>	<b>International: 05</b>	
Papers presented in Conferences	<b>National: 02</b>	<b>International: 01</b>	
PhD Guide? Give field & University	<b>Field: ---</b>		<b>University: ----</b>
PhDs / Projects Guided	<b>PhDs: 00</b>	<b>Projects at Masters Level: 00</b>	
		<b>Projects at UG Level: 12</b>	
Books Published/IPRs/Patents - 01	<b>“Development of Al-MoS<sub>2</sub> MMC and modeling of Machining parameters with WEDM” - Lambert Academic Publishers</b> ISBN 978-620-2-52483-4		
Professional Memberships	Life member of Indian Society For Technical Education (ISTE)	--	
Consultancy Activities	---		

Awards		---
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Grants fetched		---
Whether Ratified by University (Yes/No)		<b>JNTUK-Yes</b>

<p>Conferences/ Seminars / Workshops / FDP Organized @ ALIET</p>	<ul style="list-style-type: none"> <li>● A Five day FDP on <b>“SIEMENS NX CAM MILLING”</b> from 11<sup>th</sup> to 15<sup>th</sup> November, 2019 organized by Department of Mechanical Engineering, Andhra Loyola Institute of Engineering &amp; Technology, Vijayawada in Association with APSSDC, SIEMENS &amp; DesignTech.</li> <li>● A Three day FDP on <b>“Mechanical Behaviour of Bio &amp; Composite Materials”</b> from 11<sup>th</sup> to 13<sup>th</sup> June, 2020 organized by Department of Mechanical Engineering, Andhra Loyola Institute of Engineering &amp; Technology.</li> <li>● A Three – Day International Virtual Conference on <b>“Women Education and Women’s Right”</b> from 21-23 January 2021, organized by <b>Cape Comorin Trust, India &amp; Lavender Literary Club , India</b>, in Collaboration with Women’s Cell , Andhra Loyola Institute of Engineering &amp; Technology, AP, India.</li> <li>● Alumni Meet <b>“SAMMILITHA”</b> conducted on 29<sup>th</sup> September 2018 organized by Department of Mechanical Engineering, Andhra Loyola Institute of Engineering &amp; Technology.</li> <li>● One week FDP on <b>“FEA using ANSYS”</b> from 26<sup>th</sup> to 30<sup>th</sup> September 2022 , acted as a local coordinator organized by NITTTR, Chandigarh .</li> </ul>
<p>Other Responsibilities</p>	<ul style="list-style-type: none"> <li>● Head of the Department</li> </ul>

<b>Faculty Development Programmes attended:</b>	
<ol style="list-style-type: none"><li>1. A Three day FDP Programme on <b>“ANSYS (Structural, Thermal and CFD)”</b> from 25<sup>th</sup> to 27<sup>th</sup> February, 2016 at Andhra Loyola Institute of Engineering &amp; Technology, Vijayawada.</li><li>2. A One day <b>“NBA Orientation Programme”</b> on 06<sup>th</sup> June, 2016 at Andhra Loyola Institute of Engineering &amp; Technology, Vijayawada.</li><li>3. A One day workshop <b>“NPTEL AWARENESS”</b> on 25<sup>th</sup> June, 2016 PVPSIT, Vijayawada, in Association with IIT Madras.</li><li>4. A Three day workshop on <b>“Application of NDT in Various Industries”</b> from 23<sup>rd</sup> to 25<sup>th</sup> February 2017 at Andhra Loyola Institute of Engineering &amp; Technology, Vijayawada.</li><li>5. A Six day FDP on <b>“CATIA V5”</b> from 10<sup>th</sup> to 15<sup>th</sup> April, 2017 at N.B.K.R. Institute of Science &amp; Technology Nellore, in Association with APSSDC.</li></ol>	

6. A Five day FDP on **“Advances in Materials & Composites”** from 6<sup>th</sup> to 10<sup>th</sup> November, 2017 at Andhra Loyola Institute of Engineering & Technology, Vijayawada.
7. A Five day FDP on **“Computational Fluid Dynamics using Ansys, Matlab & C Programming”** from 6<sup>th</sup> to 10<sup>th</sup> June, 2018 organized by Department of Mechanical Engineering, Andhra Loyola Institute of Engineering & Technology, Vijayawada.
8. A Five day FDP on **“Operation and Maintenance Aspects of Thermal Power Plants”** from 12<sup>th</sup> to 16<sup>th</sup> November, 2018 at Andhra Loyola Institute of Engineering & Technology, Vijayawada in association with Synergem Energy Training Center, Vijayawada.
9. A Five day FDP on **“SIEMENS NX CAM MILLING”** from 11<sup>th</sup> to 15<sup>th</sup> November, 2019 organized by Department of Mechanical Engineering, Andhra Loyola Institute of Engineering & Technology, Vijayawada in Association with APSSDC, SIEMENS & DesignTech.
10. One week online FDP on **“Practical aspects of finite analysis using ABAQUS”** during 18-4-2020 to 24-4-2020 conducted by APSSDC
11. Participated in online faculty development program on **“Automotive structures design using CATIA”** during 30-4-2020 to 2-5-2020 conducted by APSSDC
12. A Three day FDP on **“Mechanical Behaviour of Bio & Composite Materials”** from 11<sup>th</sup> to 13<sup>th</sup> June, 2020 organized by Department of Mechanical Engineering, Andhra Loyola Institute of Engineering & Technology.
13. A Five day FDP on **“Refrigerants Progression-Environmental Concern”** from 1<sup>st</sup> to 6<sup>th</sup> June, 2020, organized by Department of Mechanical Engineering, QIS College of Engineering & Technology, Ongole.
14. One week FDP on **“Frontiers in Mechanical Engineering”** from 8<sup>th</sup> to 12<sup>th</sup> June 2020, organized by KKR & KSR Institute of Technology and Sciences ,Guntur.
15. Two week FDP on **“Professional Morals, Work Ethics & Accountability for Teachers in Technical Education”** from 19<sup>th</sup> October to 31<sup>st</sup> October 2020 organized by Department of CSE, V R Siddhartha Engineering College
16. Two week FDP on **“Recent Advances in Materials and Challenges in Manufacturing Techniques”** from 22<sup>nd</sup> March to 3<sup>rd</sup> April 2021 , organized by Department of Mechanical Engineering, JNTU Kakinada (Sponsored by AICTE).
17. Two week FDP on **“ Recent Advances in Materials and Challenges in Manufacturing Techniques”** from 7<sup>th</sup> Feb 2022 to 19<sup>th</sup> Feb 2022 , organized by Department of Mechanical Engineering, JNTU Kakinada.
18. A Five day FDP on **“Enhancing Research Eco – System in the Campus”** from 22<sup>nd</sup> to 26<sup>th</sup> August 2022 , organized by Mallareddy Engineering College, Telangana .

19. One week FDP on “VLSI Devices and Circuits for AI Applications” from 19<sup>th</sup> to 23<sup>rd</sup> September 2022 , organized by NITTTR, Chandigarh.
20. One week FDP on “FEA using ANSYS” from 26<sup>th</sup> to 30<sup>th</sup> September 2022 , organized by NITTTR, Chandigarh.
21. A Five Day National Level Virtual FDP on “Skills Reengineering in Business Management” from 23<sup>rd</sup> May to 27<sup>th</sup> May 2023 organized by the Department of Master of Business Administration Andhra Loyola Institute of Engineering and Technology
22. One week FDP on “Role of 3D Printing in Digital Manufacturing” from 3<sup>rd</sup> July to 7<sup>th</sup> July, organized by Dept of Mechanical Engineering , Anurag University in collaboration with Osmania University.

#### List of Publications in Journals

1. M. Geeta Rani , Ch.V.S.Pameswara Rao , K .Rama Kotaiah “STUDIES ON CHARACTERIZATION OF AL 6061/ MOS2 METAL MATRIX COMPOSITE”, International Journal of Mechanical Engineering and Technology (IJMET) Volume 8, Issue 8, August 2017, pp. 998–1003, Article ID: IJMET\_08\_08\_108
2. M. Geeta Rani , Ch.V.S.Pameswara Rao , K .Rama Kotaiah “ Experimental Investigation on Optimization of the Controlling Factors for Machining Al 6061/MoS2 Metal Matrix Composites with Wire EDM”, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 22 (2017) pp. 12023-12028
3. M. Geeta Rani , Ch.V.S.Pameswara Rao , K.Rama Kotaiah , “Prediction and Optimization of Machining Parameters for Cutting Al6061/MoS2 MMC Material by WEDM Process” JOURNAL OF ENGINEERING AND APPLIED SCIENCES, Volume 20, Year 2018, Pages 8483-8488
4. M.Geeta Rani, “Biodiesel generation from rice bran oil using transesterification process and experimental investigation on a 4- stroke single water cooled diesel engine” JETIR, Volume 6, Year 2015, Pages 372-378
5. M.GeeraRani, “STUDY ON PARALLEL ROBOTS AND ITS APPLICATIONS” JOURNAL OF MULTIDISCIPLINARY RESEARCH AND ADVANCES IN ENGINEERING, Volume 4, NO.II Year 2012, pg;75-84
6. M. Geeta Rani , Ch.V.S.Pameswara Rao , K .Rama Kotaiah, “OPTIMIZATION AND INFLUENCE OF CONTROLLING FACTORS FOR MACHINING AL 6061/MOS2 MMC WITH WEDM”, International Journal of Research and Analytical Reviews | JRAR | E-ISSN 2348-1269, P- ISSN 2349-5138, September 2020, Volume 7, Issue 3, pg:580-586

7. M. Geeta Rani , “DESIGN AND STRUCTURAL ANALYSIS OF HIP-JOINT IMPLANT”,  
International Journal of Scientific Research in Engineering and Management (IJSREM) ,  
Volume 7, Issue 3, ISSN: 2582-3930 March 2023

**Conferences Attended:**

1. M. Geeta Rani, “DESIGN AND FABRICATION OF A SOLENOID ENGINE” , 2<sup>nd</sup> National Conference on Current Trends in Advanced Manufacturing and Energy Systems (CTAMES-2020), on 20<sup>th</sup> to 21<sup>st</sup> March 2020 organized by Department of Mechanical Engineering, KKR &KSRIT, Guntur.
2. M. Geeta Rani, “DESIGN AND FABRICATION OF TREADMILL BICYCLE” , 2<sup>nd</sup> National Conference on Current Trends in Advanced Manufacturing and Energy Systems (CTAMES-2020), on 20<sup>th</sup> to 21<sup>st</sup> March 2020 organized by Department of Mechanical Engineering, KKR &KSRIT, Guntur
3. M.Geeta Rani, “ Experimental Investigation of Inconel 718 superalloy machinability during high speed dry machining , International Conference on “ Contemporary Innovations in Mechanical Engineering (CIME-2022), on 22<sup>nd</sup> -23<sup>rd</sup> April 2022 organized by Department of Mechanical Engineering, RGM College of Engineering & Technology, Nandyal, AP, India