

Name: Dr. VALIVETI SIVA RAMA KRISHNA  
Designation: ASST.PROFESSOR  
Department: MECHANICAL ENGINEERING  
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Experience (in years): 14      Teaching: 14      Research: 08      Others(if any, specify):

**1. Educational / Technical qualifications:**

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	B.TECH	2008	M.E.
2	M.TECH	2010	CAD/CAM
3	Ph.D.	2018	IC ENGINES

**2. Teaching and Learning:**

2.1. Teaching Interests: TE-I, TE-II, CAD/CAM, ED,R&AC

**2.2. Novel Teaching & Learning Techniques adopted:**

Black Board Teaching, Learning by doing, VNR LAB Protocol, POGIL, videos, WIT & WIL.

**2.3. Involvement in curriculum updating / Design:**

Designed the syllabus for R18 and R19 regulations.

**3. Co-curricular and Extra-Curricular Activities**

3.1. Interests and Hobbies: Reading Books, Sports

3.2. CCA/ECA Organized: Convergence

3.3. CCA/ECA participated: Games

3.4. Counselling and Mentoring Activity: IV Mechanical

3.5. Committees involved in:

Department level: Time table coordinator

Institute Level: ASME

**4. Conference / Workshop / Seminar / Guest Lectures :**

4.1 Conducted:

- One Week Technical Staff Programme on refrigeration and air conditioning equipment on 20th – 25th March 2023.
- webinar is conducted on Space education programme on 18th March 2023
- webinar is conducted on How to Master in your interview on 27th October 2022
- webinar is conducted on career guidance Q&A session (ASME) on 12th June 2020
- webinar is conducted on career guidance Q&A session (ASME) on 12th June 2020
- webinar is conducted on Alumni interaction series session (ASME) on 3rd July 2020
- One Week Online Faculty Development Programme on Tools for Effective Research in Thermal Engineering on 23th – 27th November 2020.

4.2 Attended:

- participated online awareness quiz on Research organised by journal of advanced research in technology and management sciences on 27/5/2020

- Participated in a Webinar on a "Emotional Well Being at Work: Psychology of Emotional Intelligence for Teaching Faculty" on 04/06/2020 organized by MLRIT.
- Participated in the Five Days FDP on "Refrigerants Progression-Environmental Concerns" organized by QIS College of Engineering and Technology from 01.06.2020 to 05.06.2020.
- Participated in the Five Days FDP on " Multi Objective Optimization for Mechanical Engineering Applications" organized by QIS College of Engineering and Technology from 08.06.2020 to 12.06.2020.
- Participated in a Webinar on a "Future Materials for Engineering Applications" on 02/06/2020 organized by VNR VJIET.
- Participated in a Webinar on a "Salient Features in Machine Component Design" on 05/06/2020 organized by VNR VJIET.
- Participated in a Webinar on a "Overview of Machine Learning" on 04/06/2020 organized by VNR VJIET.
- Participated in a Webinar on a " Overview of Entrepreneurship Development" on 03/06/2020 organized by VNR VJIET.
- Participated in a Webinar on a " Natural Composites for Sustainable Development" on 01/06/2020 organized by VNR VJIET.
- participated online awareness quiz on Engineering Graphics organized by Aurora's Technology and Research Institute on 20th June 2020
- participated National Level Quiz on Industrial Robotics and Applications organized by GEC on 17/06/2020.
- participated National Level Quiz on E-Learning organized by PVPP College of Engineering on 17/6/2020
- Participated in one week online FDP on "Advanced Research Challenges in Material Science" organized by Sri Vasavi Engineering College from 1st June to 6th June 2020.
- participated National Level Quiz on "Thermal Engineering" conducted by Geethanjali Institue of Science and Technology on 18/6/2020
- Participated in a Webinar on a "Research in Computational Materials Science" organized by Aurora Engineering College on 19th June 2020
- Participated in a Webinar on a "Industrial Applications of Robust Design" organized by Francis Xavier Engineering College on 19th June 2020
- Participated in a Webinar on a "Adventures of Particle Physicists" organized by Francis Xavier Engineering College on 20/6/2020
- Participated in 3 day online FDP on "E-Certificate of Participation" organized by Andhra Loyola Institute of Engineering and Technology from 18/6/2020 to 20/6/2020.
- Participated in a Webinar on a "Gas Turbine and Space Propulsion" organized by Francis Xavier Engineering College on 23/6/ 2020
- Participated in one week FDP on aspects of pneumatics, Hydraulics and Robotics during 15-20 December, 2017 at innovation Technologies center, JNT University Hyderabad, Telangana in association with Rexroth Bosch, Bengaluru.
- Participated in Five day Short Term Programme on Engineering Drawing Through AUTO CAD conducted by department Mechanical & Automobile Engineering During 11 – 15 December, 2017 at VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad

- Participated in one week work shop on Advanced Numerical Modeling Technologies for Mechanical Engineering held during 27 to 31 March 2017 at VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad.
- Participated in National conference on INNOVATIVE APPROACHES IN MECHANICAL ENGINEERING conducted by department Mechanical Engineering on 22 to 23 September, 2017, at St. Martins Engineering College, Hyderabad.
- Participated in one week Faculty Development Program on APPLICATIONS OF CFD IN THERMAL FLUIDS ENGINEERING during 29 February to 6 March 2016, at CMR Engineering College, Hyderabad.
- Participated in one week Faculty Development Program on HYPER WORKS & COMPUTATIONAL FLUID DYNAMICS conducted by department Mechanical Engineering during 5 to 10 December, 2016 St. Martins Engineering College, Hyderabad.
- Participated in Two day FDP on Finite Element Analysis on 20 & 21 Feb-2015 organized by department of Mechanical Engineering, MREC.
- Participated in Two day workshop on Engineering Drawing under TEQIP II S.C.-1.1 on 12<sup>th</sup> and 13<sup>th</sup> Sept-2014 organized by department of Mechanical Engineering, MREC.
- Participated in Two day National conference on Role of Civil and Mechanical Engineering in Development of Society, conducted by departments of Civil and Mechanical Engineering on 20 & 21 Sept 2013.
- Participated in Futuristic Trends of Nano Composites and Their Fabrication conducted by Mechanical Department, RVR & JC Engineering college, Guntur on 6 & 7 Sept 2013.
- Participated in One day National workshop on Advanced trends in IC engines and combustion on 28 Feb, 2013 organized by department of Mechanical Engineering, JNTUH, Hyderabad.
- Participated in FDP on Advancements in Engineering Design Process organized during 6 & 7 Dec-2012 at MLRIT, Hyderabad.
- Participated in a two week ISTE Workshop on Engineering Thermodynamics conducted by IIT Bombay from 11<sup>th</sup> to 21<sup>st</sup> Dec-2012
- Participated in a two day National level workshop under TEQIP II. On Recent Advance in CFD for industrial applications organized by department of Mechanical Engineering, MREC on 24 & 25 of March, 2012.
- A one week Training Programme on Engineering Drawing Sponsored by APSCHE in association with JNTUH organized at KG Reddy College of Engineering & Technology, Hyderabad from 13<sup>th</sup> to 18<sup>th</sup> Feb-2012.
- Three day Faculty Development Programme at KGR CET, 30th June to 2<sup>nd</sup> July 2011.
- Two Day National Seminar on Precision Engineering organized at JNTUH, Hyderabad on 10<sup>th</sup> and 11<sup>th</sup> July 2009.
- Attended Two day National level seminar on “MICRO MACHINING PROCESS” in RVR&JC, Guntur.

## **5. Academic Contribution and Research & Consultancy:**

5.1. Invited Lectures: malla reddy engineering college and management

5.2. Articles / Chapters published in Books: Yes

5.3. Books published as single author or as editor: Nil

5.4. Projects Guided :

a) UG :12 b) PG :2

5.5. Research Interests : IC Engines, Thermal Engineering, R&AC

5.6. Ph.D students : Nil

a) Enrolled :

b) Submitted :

c) Awarded :

5.7. Papers published in reviewed journals :

S.No.	Title with page nos.	Journal	ISSN/ISBN NO.	Whether Peer Reviewed. Impact Factor, if any	Impact Factor/ Citation Index
1	Influence of Biodiesel Blends on Compression Ignition Engine Performance, Emission and Combustion Characteristics	<b>European Chemical Bulletin</b>	ISSN 2063-5346	Yes, Scopus	0.40
2	Design of solar array with sun position tracking system employing refrigerant	Materials Today: Proceedings	ISSN: 2214 7853	Yes, Scopus	1.46
3	Ultrasonic dispersion of algae oil blends on diesel engine	ELSEVIER	ISBN: 978-0-323-91759-9	Yes, Scopus	
4	Experimental investigation to assess the suitability of jute biodiesel on diesel engine at varying injection pressure and exhaust gas recirculation	Materials Today: Proceedings	ISSN: 2214 7853	Yes, Scopus	1.46
5	Experimental evaluation of impact energy on oobleck material (non-Newtonian fluid)	Materials Today: Proceedings	ISSN: 2214 7853	Yes, Scopus	1.46

6	Analysis on impact of thermal barrier coating on piston head in CI engine using biodiesel	International Journal of Ambient Energy	ISSN:0143-0750(PRINT) 2162-8246(online)	Yes, web of science, Scopus	2.562
7	Influence of Tool Pin Profile and Tool Rotating Speed on Mechanical Properties of Al6082 Alloy	International Journal of Innovative Technology and Exploring Engineering	ISSN: 2278-3075, Volume-8 Issue-12, October, 2019	Yes, Scopus	
8	Experimental Investigations on CI engine with different Combustion Chamber Designs	International Journal of Recent Technology and Engineering (IJRTE)	ISSN: 2277-3878, Volume-7, Issue-6, March 2019	Yes, Scopus	6.04
9	Experimental Investigations on CI Engine Using Biodiesel With Fuel Additives	International Journal for Research in Engineering Application & Management	ISSN : 2454-9150 Vol-04, Issue-10, Jan 2019	Yes, Scopus	4
10	Experimental Investigations on LHR Diesel Engine Using Biodiesel with Nano Additive	International Journal of Latest Engineering and Management Research	ISSN: 2455-4847, Volume 03 - Issue 02, February 2018, PP. 89-95	Yes, Scopus	2.01
11	Analysis on Impact of Various Parameters for LHR Diesel Engine using Biodiesel and its Additives	International Journal of Emerging Technology and Advanced Engineering	ISSN 2250-2459, Volume 8, Issue 2, February 2018)	Yes, Scopus	4.027
12	Experimental Investigations of Performance and Emission Characteristics of CI Diesel Engine Using Plastic Oil Blends	International Journal of Latest Engineering and Management Research	ISSN: 2455-4847, Volume 02 - Issue 12, December 2017, PP. 43-50	Yes, Scopus	2.01

13	Design and Analysis of aof Innovative Automobile Chassis by using Composite Material E-Glass Epoxy	International Journal of Innovative Research in Science, Engineering and Technology	ISSN(Online): 2319-8753 ISSN (Print) : 2347-6710, Vol. 6, Issue 10, October 2017	Yes, Scopus	7.089
14	Investigations on Combustion Characteristics of Compression-Ignition Diesel Engine with Controlled Atomisation Using Bio-Diesel	International Journal of Innovative Research in Science, Engineering and Technology	ISSN(Online): 2319-8753 ISSN (Print) : 2347-6710, Vol. 6, Issue 1, January 2017	Yes, Scopus	7.089
15	Evaluation of Performance and Emission Characteristics of CI Diesel Engine using Biodiesel with Adiabatic Concept	International Journal of Innovative Research in Science, Engineering and Technology	ISSN(Online) : 2319-8753 ISSN (Print) : 2347-6710, Vol. 5, Issue 7, July 2016	Yes, Scopus	7.089
16	Compound Parabolic Serpentine Collector	International Journal & Magazine of Engineering Technology, Management and Research.	Vol No:3, Issue No:7, ISSN No:2348-4845, July-2016	Yes, Scopus	3.5540
17	Experimental Investigation Of Friction Stir Welding And Tig Welding For Al-6082	International Journal of Innovative Research in Science, Engineering and Technology	ISSN(Online): 2319-8753 ISSN (Print): 2347-6710, Vol. 4, Issue 7, July 2015	Yes, Scopus	7.089
18	Experimental Investigation of Rotary Friction Welding Parameters of Aluminum (H-30) and	International Journal of Innovative Research in Science, Engineering	ISSN(Online): 2319-8753	Yes, Scopus	7.089

	Mild Steel (Aisi-1040)	and Technology	ISSN (Print): 2347-6710, Vol. 4, Issue 5, May 2015		
19	Simulation of Flow over NACA 23012 Airofoil in incompressible and compressible subsonic regimes	International journal of Dynamics of fluids.	ISSN :0973-1784, Vol:11,2015.	Yes, Scopus	
20	Performance and emission characteristics of single cylinder diesel engine fuelled with biodiesel blends.	International Journal of emerging trends and technology.	ISSN :0973-1784, Vol:11,2015	Yes, Scopus	2.88
21	CFD analysis of Helically coiled tube for compact heat exchangers	National conference on emerging Trends in Science, Technology and Management,	ISBN:9789383038206	Yes, Scopus	
22	ADVANCED BRAKE ALERT SYSTEM	International Journal of Innovative Research in Science, Engineering and Technology	ISSN: 2319-8753, Vol. 2, Issue 12, December 2013	Yes, Scopus	7.089

5.8. Papers presented at National / International Journals :

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International
1	Effect of diphenylamine nano additive with pine oil biodiesel on performance and emission characteristics of CI engine	AIP Conference Proceedings	International

2	Experimental investigation of performance and emission characteristics of diesel engine using pine oil blends	AIP Conference Proceedings	International
3	Experimental Investigations into performance of powder mixed electric discharge machining for high carbon high chromium (HCHCr) steel and EN-31 steel	International conference on emerging technologies in mechanical sciences	International
4	Optimization of Delamination Damage of GFRP composite during End Milling using Taguchi Method,S/N ratio and ANOVA	Proceedings of 4th National Conference on Advances in Mechanical Engineering.	National
5	Performance and emission characterizes of Low Heat Rejection (LHR) engine at different injection timing using diesel and biodiesel fuels	National conference on emerging Trends in Science, Technology and Management,	National
6	Educating the next generation of Entrepreneurial Engineering in the development of Indian Industry: Some recommendations	International conference on Next Generation Education for Entrepreneurial Engineers	International

#### 5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed
	NIL				

#### 5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed
	NIL				

#### 6. Awards / Honors received: Ph.D. completed

#### 7. Motto: