


## Profile

<b>Name of the Faculty</b>	Rikka Sudarshan	
<b>Designation</b>	Assoc. Professor	
<b>Department</b>	Mechanical Engineering	
<b>Area of Interest</b>	Production Engineering, Ceramic coatings	
<b>Subjects Taught</b>	ED, PT -II, FEM, IEM, PLMH, etc	
<b>JNTUH Registration Id</b>	5980-150416-122448	
<b>College Staff Code</b>	R1	
<b>Official Mail</b>	Rsudarshan.me@gcet.edu.in	

### Educational Qualifications:

S. No.	Degree	Specialization	University/College	Year
1	(Ph.D) Thesis Submitted	Mech. Engg.	Osmania University	January 2022
2	M. Tech	Prod. Engg.	JNTUH	2002
3	B. Tech	Mech. Engg.	Nagarjuna University	1994

### Paper Publications:

S. No.	Publication details
1	<b>“Microstructural Investigation with Process Variants in SPPS method of YSZ Coatings on SS304”</b> International Conference on Innovative Practices in Technology and Management (ICIPTM) at Amity University Greater Noida Campus, Uttar Pradesh India. (February 23 <sup>rd</sup> - 25 <sup>th</sup> , 2022)
2	<b>“Study of Structural Properties of Dissimilar Metals of Monel 400 and SS321 by using Gas Tungsten Arc Welding (GTAW) Process”</b> International Journal of Design

	Engineering, ISSN:0011-9342, Issue 9, Pages 7541 - 7547, (2021), Scopus Indexed, Impact Factor 1.41, SJR 0.1, H index 7
3	<b>“Experimental Analysis of Plasma Spray Technique with Zirconium Oxide Mixture on SS304 Material as Thermal Barrier Coating”</b> International Journal of Solid State Technology, ISSN 0038111X, Volume 63, Issue 6, 19067 - 19077 (Dec. 2020), Scopus Indexed, Impact Factor 0.11, H index 25, SJR Indicator 0.101, SNIP 0.492, Cite Score 0.3
4	<b>“Thermal Barrier Coatings for Gas-Turbine Engine Applications – A Review”</b> PalArch’s Journal of Archaeology of Egypt/Egyptology, ISSN: 1567-214X, Volume 17 (6), 15487 - 15500 (2020), Scopus Indexed, SJR 0.11, H Index 1, Cite Score 0.4
5	<b>“Mechanical Properties of Similar and Dissimilar Metals of Monel 400 and SS 321 by Using Gas Tungsten Arc Welding (GTAW) Process”</b> SAE Technical paper 2019-28-0141, (October 2019), doi:10.4271/2019-28-0141, Scopus Indexed, Impact factor 0.51, H index 97, SJR Indicator 0.32, RG Journal impact 0.69, ISSN 01487191,
6	<b>“Plasma current effects on the microstructure of solution precursor plasma spray YSZ coatings”</b> IOP Conf. Series: Journal of Physics: Conf. Series 1172 (March 2019) 012021 doi:10.1088/1742-6596/1172/1/012021, Scopus Indexed, Impact factor 0.54, Citescore 0.51, H index 65, SNIP 0.454, SJR Indicator 0.221,
7	<b>“Preparation, Deposition and Characterization of Solution Precursor”</b> IOP Conf. Series: Journal of Physics: Conf. Series 1172 (March 2019) 012022 doi:10.1088/1742-6596/1172/1/012022, Scopus Indexed, Impact factor 0.54, Citescore 0.51, H index 65, SNIP 0.454, SJR Indicator 0.221,
8	<b>“The influence of H2 Gas in the formation of Porosity and Crack In Solution Precursor Plasma Spray Method”</b> International Journal for Innovative Engineering and Management Research, ISSN 2456 – 5083, Vol 08 Issue 01, 354 - 363, Jan 2019, Elsevier Indexed, Impact Factor : 7.812,
9	<b>“Effect of Process Parameters in MIG Welding on Mild Steel IS 2062”</b> International Journal of Applied Engineering Research ISSN 0973-4562, volume 13, Number 4 (Feb, 2018) pp, 2046-2054, Scopus Indexed, Impact Factor 0.51, H index 25, SJR Indicator 0.122, <a href="https://www.ripublication.com/ijaer18/ijaerv13n4_34.pdf">https://www.ripublication.com/ijaer18/ijaerv13n4_34.pdf</a>
10	<b>“Optimization of process parameters in Arc Welding on Material Mild Steel”</b> International Conference on Research contribution in the new era of Arts, Science, Engineering, Management and Pharmacy on 6 <sup>th</sup> August 2017
11	<b>“Evolution of Optimal Design Configuration of Leaf Spring for Automotive Application”</b> Global Colloquium in Recent Advancement and Effectual Researches in Engineering, Science and Technology (RAEREST 2016), <b>Science Direct, Procedia Technology 00 (2015) 000-000, Published by Elsevier Ltd.</b>
12	<b>“Effect of process parameters on the microstructure of solution precursor plasma spray YSZ coatings”</b> International conference on Technological Innovations in Mechanical Engineering (TIME 2016) at CBIT, Gandipet, Hyderabad, Telangana, India. (February 10 <sup>th</sup> & 11 <sup>th</sup> - 2016).
13	<b>“Comparison of Delamination Factor Models after Drilling of GFRP Composite Laminate using a Core Drill”</b> National conference at Geethanjali College of Engineering & Technology, Keesara, Hyderabad, Telangana, India. (January 30 <sup>th</sup> & 31 <sup>st</sup> - 2015).

14	<b>“Design and Analysis of Back up Roll Model”</b> National conference at Geethanjali College of Engineering & Technology, Keesara, Hyderabad, Telangana, India. (January 30 <sup>th</sup> & 31 <sup>st</sup> - 2015).
15	<b>“Influence of Cutting Parameters on Thrust Force, Torque and Temperature in Milling of E - Glass and Polyester Composites”</b> The International Journal of Science & Technology. Impact factor 0.981 IIFS, ISSN 252-919X, Volume 11, Issue VI, June, 2014
16	<b>“Thermal barrier coating for gas - turbine engine application” - review</b> , National conference at St. Joseph’s College of Engineering & Technology, Palai, Kerala, India. (Jun. 2013).
17	<b>“Finite Element Analysis of A Component Formed by Hydro – Forming Using FEA”</b> National Journal of Engineering and Management. Volume 5 No. 2 (2012), pp. 17 – 20.
18	<b>“Dynamic Analysis Of An Articulated Robot Manipulator Made Of Composite Materials Using FEA”</b> International Conference on Mechanical Engineering Technology (i CoMET’12) at St. Joseph’s College of Engineering & Technology, Palai, Kerala, India. (20, 21 Jan. 2012).
19	<b>“Experimental and Finite Element analysis of Impact Testing of Advanced Ceramic Composites”</b> International Journal of Engineering Research and Technology. ISSN 0974-3154 Volume 4, Number 4 (2011), pp. 381-390
20	<b>“Design and Analysis of Two Wheeler Suspension System”</b> National Journal of Engineering and Management. Volume 5 Number 1 ( July-Dec. 2011), pp. 52-56
21	<b>“Static Analysis of an Articulated Robot Manipulator Made of Composite Materials using FEA”</b> International Journal of Engineering Research and Technology. ISSN 0974-3154 Volume 4, Number 4 (2011), pp. 373-380

### **Books/Book Chapters Published:**

<b>S. No.</b>	<b>Publication details</b>

### **Experience:**

<b>Teaching</b>	25 Years
<b>Industry</b>	1 Year
<b>Research</b>	-
<b>Total Experience</b>	26 Years