Name of Faculty

Designation

Nature of Job/Appointment

Date of Joining

E-mail

Education Qualifications

Ph. D

PG

UG

Work Experience

Teaching

Research

Industry

Others

Area of Specialization

Professional Memberships

Responsibilities held at Institution Level

Responsibilities held at Department Level

Research Guidance

Awards Received

Courses Handled at Under Graduate / Post Graduate Level.

Dr. Venkata Sushma Chinta

Assistant Professor

Regular

20-01-2014

venkatasushmachinta mech@cbit.ac.in

Name of the Degree

Doctor of Philosophy (Mechanical)

JNTU, Hyderabad.

M.E. (CAD/CAM)

B. Tech. (Mechanical)

Class

Awarded

First with Distinction

First with Distinction

16 Years

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CAD/CAM, Composites, Fracture Mechanics, FEA, Machine Learning, Data Science, Deep Learning, Robotics.

ISTE LM134039

- 1. Mechanical Engineering department ARIIA coordinator
- 2. Co-Coordinator for "Home Coming 2017", CBIT ALUMNI MEET from Mechanical Department on 25th December 2017.
- 1. Robotics and Drones lab In charge
- PAQIC member

OF TECHNOLOGY

- Received best paper award for the paper titled "Investigation of Mechanical properties of bidirectional carbon / glass reinforced Epoxy hybrid composites, TJPRC Pvt Ltd., International journal of Mechanical and production Engineering Research and Development.
- Silver Medal for the best academic performance during the year 2010-11 from CBIT, Hyderabad.
- 3. Silver Medal for the best academic performance during the year 2011-12 from CBIT, Hyderabad.
- 4. Received 1st prize in talent search conducted by MEDHA SOFTWARE SYSTEM INC. on 22 May 2001.

UG Level: Mechanics of Materials, CAD/CAM, CAD and FEM, Programming and program solving using C, object-oriented programming language using C++, Engineering Graphics and Design, Problem solving and programming using python, Robotics and Drones lab, Digital fabrication lab, CAD&D.

PG level: Product design and process planning, CAE lab

No. of Papers Published		National Journals - nil		International Journals – 22	
		Nationa	al Conference – 01	International Conference – 8	
Projects Carried out			, , , , , , , , , , , , , , , , , , , ,		
Patents		20 2. Me str PL 3. Ro 20 02 4. De	ocessing and qualifications and applications and system for descriptions and system for descriptions are successful and system for properties and system for properties and system for properties are successful and systems are successful a	etection of delamination in a layered 441067170A Filing Dt: 22-11-2022, 2022). ick and place applications (Appl No: Dt: 24-11-2022, PUBLICATION Dt: delivery drone an unmanned aerial	
Technology Transfer		ve	ExcelR Robotics	223144, Filing Dt: 20.04.2022)	
Invited Speaker	CHAITTAN	1. 2. 3. 4. 5.	Bhopal University. Delivered Guest lectured Guest	cture in 'GrassRoots Innovation edicated 4 month initiative focused d nurturing innovation and	
	of <mark>Books/C</mark> hapter with details			mposite Materials and Industrial House, ISBN 978-93-85518-09-6.	
Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Training (Attended and/or Organized).		1. 2. 3. 3. 4. 5.	Coordinator of on "HARDWARE INTEGENT OF SIMULINK" on 13-10 Coordinator of webin 07-2023 Co- Coordinator for and Sensor design for Coordinator for Or 'Python, Opency and	the One-week ATAL FDP on 'IoT or Industry 5.0' ne-month summer internship on innovative projects' ne-month winter internship on	
		/ '		. ,	

Details of Journal Publications/ Conferences (National and International)

International Journals:

- 1. Venkata Sushma Chinta, Sowmya Kethi Reddi , Nagini Yarramsetty , Optimal feature selection on Serial Cascaded deep learning for predictive maintenance system in automotive industry with fused optimization algorithm, Advanced engineering Informatics, 57, August 2023, 102105.
- 2. Venkata Sushma Chinta, Kiran Kumar Amireddy, Ravinder Reddy Pinninti and Koorapati Eshwar Prasad, "Fracture Parameters of Woven Jute Fibre Reinforced Axial Flow Fan Blade Material: An Experimental Investigation and FEA Analysis", Engineering Research Express, 6(1), (2023).
- 3. Nigamananda., J, Reddy, K. P., Chinta, V. S., "Pioneering factors driving divergence tyre technology from conventional tyres to non-pneumatic tyres", International Journal of Mechanical and Production Engineering Research and Development, Volume- 11, No. 6, pp. 747–755, 2022.

- 4. Raj, S. S., Chinta, V. S., Afridi, Z., "Bend twist coupling effect on the Performance of the Wing of an Unmanned Aerial Vehicle", International Research Journal of Engineering and Technology, Volume- 9, No. 6, pp. 3140–3147, 2022.
- 5. Raj, S. S., Chinta, V. S., Afridi, Z., "Experimental Characterization Of Hybrid Composite Materials for tension bending and impact behaviour", International Research Journal of Engineering and Technology, Volume- 9, No. 6, pp. 3148–3160, 2022.
- Sandhya. V., Nagini, Y., Chinta, V. S., Reddy, J. V., Jyothirmayi, N., "Numerical Analysis of Engine Hood", Journal of Xi'an University of Architecture & Technology", Volume- 13, pp. 729-736, 2021.
- 7. Raj, S. S., Chinta, V. S., Afridi, Z., "Numerical Analysis of an Aircraft Wing", Turkish Journal of Computer and Mathematics Education, Volume- 12, No.11, pp. 3760- 3766, 2021.
- Raj, S. S., Chinta, V. S., Afridi, Z., "Modal Analysis of carbon/epoxy plate by varying fibre orientation", Turkish Journal of Computer and Mathematics Education, Volume- 12, No.10, pp. 7580-7586, 2021.
- Chinta, V. S., Raj, S. S., Reddy, P. R., Vincent, E., "Numerical and Experimental Investigation of Effect of Stacking Sequence on the Fracture Parameters of Composite Materials", Journal of Xi'an University of Architecture & Technology, Volume- 13, No.2, pp. 76-86, 2021.
- 10. Chinta, V. S., Prasad, R. P., "Investigation of damage detections on glass/jute-epoxy, glass-epoxy and jute-epoxy composite beams with an edge crack using modal analysis", International Journal of Mechanical and Production Engineering Research and Development, Volume- 10, No. 3, pp. 401-408, 2020.
- Chinta, V. S., Reddy, P. R., Prasad, K. E., "Experimental and FE Analysis of Tensile and Bending Properties of Glass/Jute Epoxy Hybrid Composite," International Journal of New Innovations in Engineering and Technology, Volume- 15, No- 4, pp. 31-39, 2021.
 Chinta, V. S., Reddy, P. R., Prasad, K. E., Vadapally, K. S., Anand, S., Sai Kiran, B. V.,
- 12. Chinta, V. S., Reddy, P. R., Prasad, K. E., Vadapally, K. S., Anand, S., Sai Kiran, B. V., "Characterization of Glass/Jute Hybrid Fibre Reinforced Epoxy Composite for Axial Flow Fan Blade", J. Polym. Compos., Volume-7, No- 3, pp. 32–43, 2019, doi: 10.37591/jopc.v7i3.3427.
- Chinta, V. S., Reddy, P. R., Prasad, K. E., "Analysis of Axial Flow Frp Fan Blade Material with Jute Fiber Reinforcements And Investigation of Mechanical Properties," International Journal of Mechanical and Production Engineering, Volume- 7, No- 6, pp. 86–89, 2019.
- 14. Chinta, V. S., Reddy, P. R., Prasad, K. E., Anand, S., "Investigation of Fracture Toughness of Bidirectional Jute / Epoxy Composite and Analysis by using FEA", Int. J. Mech. Prod. Eng. Res. Dev., TJPRC, Volume- 8, No- 6, pp. 227–238, 2018, doi: 10.24247/ jjmperddec 201827.
- Chinta, V. S., Nagini, Y., Sandhya, V., Hima Nandini, E., Shaheen., Suteja, J., "Investigation of Mechanical properties of bidirectional carbon / glass reinforced Epoxy hybrid composites", International journal of Mechanical and production Engineering Research and Development, Volume- 8, pp. 449-456, 2018.
- Chinta, V. S., Monika, K., "Augmentation of Heat Transfer In Forced Convection Using Twisted Tape Inserts", International Journal of Creative Research Thoughts, Volume- 6, No. 1, pp. 955-965,2018.
- Gopinah, D., Chinta, V. S., "Design and Optimization of Four Wheeler Connecting Rod Using Finite Element Analysis", Materials Today: Proceedings, Volume- 2, No. 4–5, pp. 2291-2299, 2015.
- Ramayee, L., Chinta, V. S., Reddy, P. R., Reddy, P. S., "Design And Analysis of a Mechanical Bus Seat Recliner", International Journal On Mechanical Engineering And Robotics, Issn:2321-5747
- 19. Chinta, V. S., Reddy, P. R., Reddy, P. S., Ramayee, L., "Thermal And Structural Analysis of Disc Brake With Square/ Circular Groove For Two-Wheeler", International Advanced Research Journal In Science, Engineering And Technology, Volume- 2, No. 7, pp. 74-79, 2015.
- Sankar, A. J. G., Reddy, P. R., Reddy, V. N. K., Chinta, V. S., "Buckling Analysis of Thin Carbon/ Epoxy Plate with Circular Cut-Outs Under Biaxial Compression by Using FEA", International Journal of Research in Engineering and Technology, Volume - 2, No.10, pp. 296-301, 2013.
- 21. Sankar, A. J. G., Reddy, P. R., Chinta, V. S., "Buckling Analysis of Thin Carbon/Epoxy Plate by Using FEA", International Journal of Engineering Research and Technology, Page no: 515-523 Volume- 2, No. 9, 2013.
- 22. Chinta, V. S., Reddy, P. R., Ramalakshmi, P., "Investigation of fracture parameters of compact tension specimen by FEA", International Journal of Engineering Research and Technology, Volume 2, No. 6, pp. 1587-1591, 2013.

International /National Conferences

- Presented paper entitled 'Smart Phone Controlled Robot Manipulator for Pick and Place Applications', 2nd congress on control, Robotics and Mechtronics (CRM-2024), SR university, Warangal, feb 03-04, 2024.
- Presented paper entitled Investigation of flexural Properties of Jute Fibre Reinforced Hybrid Composite Material for Axial Flow Fan Blades, in the Second International Conference on Modern Materials for Engineering and Research (ICMMER 2023). ICMMER 2023 during 26 - 27, October 2023.

- 3. Kiran Kumar Amireddy, S. Solomon Raj, Sushma Chinta and G. Laxmaiah, "Ultrasonic Evaluation of Paint Canisters", E3S Web of Conferences, 2023.
- 4. Chinta, V. S., Reddy, P. R., Prasad, K. E., Investigation of shear properties of axial flow fan blade material with partial woven jute reinforcements, 2023. https://doi.org/10.1016/j.matpr.2023.02.426
- 5. Chinta, V. S., Reddy, P. R., Prasad, K. E., "Experimental investigation of high cycle fatigue life of jute fibre reinforced hybrid composite material for axial flow fan blades", Mater. Today Proc., Volume- 59, pp. 357–367, 2022, doi: 10.1016/j.matpr.2021.11.317.
- 6. Chinta, V. S., Reddy, P. R., Prasad, K. E., "The effect of stacking sequence on the tensile properties of jute fibre reinforced hybrid composite material for axial flow fan blades: An experimental and finite element investigation", Mater. Today Proc., Volume- 59, pp. 295–302, 2022.
- 7. Chinta, V. S., Reddy, P. R., Prasad, K. E., Sai Kiran, B. V., "Experimental and Finite Element Analysis of Fracture Parameters of woven Glass/Epoxy Composite", Recent Trends in Mechanical Engineering, Eds. Singapore: Springer Singapore, pp. 649–660, 2020, Doi: 10.1007/978-981-15-1124-0 56.
- Chinta, V. S., Reddy, P. R., Prasad, K. E., Vadapally, K. S., "Investigation of Fracture Parameters of Jute/Glass Reinforced Hybrid Composite and Analysis by Using FEA," in Emerging Trends in Mechanical Engineering, Eds. Singapore: Springer Singapore, pp. 215–228, 2020, Doi: 10.1007/978-981-32-9931-3_22.

