

Name of Faculty Mrs. Venkata Sushma Chinta  
 Designation Assistant Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 20–01–2014  
 E-mail Venkatasushmachinta\_mech@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Mechanical)	Pursuing
PG	M. E. (CAD/CAM)	First
UG	B. Tech. (Mechanical)	First

**Work Experience**

Teaching 15 Years  
 Research --  
 Industry --  
 Others --

Area of Specialization CAD/CAM, Composites, Fracture Mechanics, FEA

Professional Memberships Lifetime member: "The Indian Society for Technical Education". (LM134039)

Responsibilities held at Institution Level Co-Coordinator for "Home Coming 2017", CBIT ALUMNI MEET from Mechanical Department on 25th December 2017.

Responsibilities held at Department Level

1. Program Content committee member of Alumni, MED, CBIT
2. Coordinator for Industrial visit of V sem Mechanical and Production students to Steel Plant, Hindustan Shipyard LTD, Visakhapatnam from 25th to 29th September 2019.
3. Coordinator for Conducting Solid works Associate-CSWA exam for VII sem mechanical and production students on 18/09/2019
4. Member, Informatics Group, MED, CBIT.
5. Member, Anti-Ragging Committee

Research Guidance --

Awards Received

1. MATSCICON-2023 has invited me to speak at their conference, which will be held in Rome, Italy on 27th to 29th March 2023.
2. 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.
3. Silver Medal for the best academic performance during the year 2010-11 from CBIT, Hyderabad.
4. Silver Medal for the best academic performance during the year 2011-12 from CBIT, Hyderabad.
5. Received 1st prize in talent search conducted by MEDHA SOFTWARE SYSTEM INC. on 22 May 2001.

Courses Handled at Under Graduate / Post Graduate Level. Mechanics of Materials, CAD/CAM, CAD and FEM, Programming and program solving, object-oriented programming language using C++, Engineering Graphics and Design

No. of Papers Published National Journals –NIL International Journals – 13  
 National Conference – 01 International Conference – 04

Projects Carried out --

Patents --

Invited Speaker	Resource person for the “Finite Element Applications in Mechanical and Civil Engineering (FEAMCE-2017)” under TEQIP-II during 23rd-28th January, 2017 at CBIT.
No. of Books/Chapter Published with details	Proceedings on “Emerging Trends in Composite Materials and Industrial Applications”, Vrinda Publishing House, ISBN 978-93-85518-09-6.
Details of Short-Term Training Programs / Faculty Development Programs / Seminars / Workshops. Other Trainings (Attended and/or Organized).	<ol style="list-style-type: none"> <li>1. Venkata Sushma Chinta has participated in 5 day National level Online FDP on “Polymer Composites for Industry 4.0” organized by the department of Mechanical Engineering, VNR Vignana Jyothi Institute of Engineering of Technology, Hyderabad during 13th to 17th June 2022.</li> <li>2. Venkata Sushma Chinta, Assistant Professor of Chaitanya Bharathi Institute of Technology participated &amp; completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Recent Trends in Renewable Energy" from 31/01/2022 to 04/02/2022 at GOVERNMENT ENGINEERING COLLEGE.</li> <li>3. Venkata Sushma Chinta has completed One Week Short Term Training Programme through ICT Mode on Vibration Analysis using MATLAB organized by this Institute from 4th October to 8th October, 2021 successfully.</li> <li>4. Venkata Sushma Chinta has completed One Week Short Term Training Programme through ICT Mode on CAD/CAM organized by this Institute from 6th September to 10th September, 2021 successfully.</li> <li>5. Venkata Sushma Chinta has successfully completed ISTE approved Online/SF-STTP/FDP Programme on “Polymer Composite” held during 03.01.2022 to 07.01.2022 organized by St. Francis Institute of Technology, Mumbai, Maharashtra.</li> <li>6. Venkata Sushma Chinta has completed One week National level Intercollegiate Online Faculty Development Program on Outcome Based Education &amp; Bloom’s Taxonomy organized by the Internal Quality Assurance Cell of Ramakrishna Mission Vivekananda Centenary College, Kolkata in association with ipsr solutions limited 08 November 2021 to 15 November 2021.</li> <li>7. Venkata Sushma Chinta presented the research paper entitled “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” in the 2021 at Third International Conference on Recent Advances in Materials and Manufacturing (ICRAMM 2021) held at the Department of Mechanical Engineering, D Y Patil College of Engineering and Technology, Kolhapur, Maharashtra, India.</li> <li>8. Venkata Sushma Chinta presented the research paper entitled “Experimental Investigation of High cycle fatigue life of Jute Fibre Reinforced Hybrid Composite Material for Axial Flow Fan Blades” in the 2021 Third International Conference on Recent Advances in Materials and Manufacturing (ICRAMM 2021) held at the Department of Mechanical Engineering, D Y Patil College of Engineering and Technology, Kolhapur, Maharashtra, India.</li> <li>9. Organized a One Week Online Faculty Development Program as a coordinator on “Emerging Trends in Composite Materials and Industrial Applications”, during 28-06-20 to 02-07-2020.</li> <li>10. Coordinator for the Alumni talk by Mrs. M. Lakshmi Prasanna, DGM(IMM), BDL, Kanchan Bagh (Alumni Knowledge Partner) on 19th February 2020 on “supply chain management”.</li> <li>11. Successfully completed one-week faculty development program on “Industry 4.0- A Vision of Design &amp; Manufacturing”, organized by CBIT, Hyderabad during 16/06/2020 to 20/06/2020.</li> <li>12. Successfully completed ATAL Faculty development program</li> </ol>

- on “3D printing & Design” by NITW during 15/06/2020 to 19/06/2020.
13. Successfully completed Two-day online FDP “Effective technical report writing using Latex organized by MGIT, Hyderabad during 08/06/2020 to 09/06/2020.
  14. Successfully completed one-week faculty development program on “OBE & NBA Accreditation” organized by CBIT, Hyderabad during 28/05/2020 to 01/06/2020.
  15. Successfully participated in the “IIC Online Sessions conducted by Institution's Innovation Council” of MHRD's Innovation Cell, New Delhi from 28<sup>th</sup> April to 22<sup>nd</sup> May 2020 during COVID-19 nationwide lockdown.
  16. Successfully completed A 3-day workshop on “Effective and Efficient Online Teaching in the Age of Corona, A Hands-on workshop” on 17<sup>th</sup> May 2020 (during 16-24) involving three days of video lectures and hands-on-work by IIT Bombay Bodhi Tree Platform.
  17. Successfully completed an online 5 weeks non-credit course “Mechanics of Materials I: Fundamentals of Stress & Strain and Axial Loading” authorized by Georgia Tech and offered through Coursera on 06/05/2020.
  18. Successfully Completed “Materials Science: 10 Things Every Engineer Should Know” authorized by University of California, Davis and offered through Coursera on 29/04/2020.
  19. Successfully completed one-week AICTE recognized faculty development program on “CAD/CAM” from 27/04/2020 to 01/05/2020 by NITTTR, Chandigarh.
  20. Successfully completed one-week AICTE recognized faculty development program on “Climate Change, Disaster and Pandemic Management: Technological Interventions for Sustainable Development” from 20/04/2020 to 24/04/2020 by NITTTR, Chandigarh.
  21. Successfully Completed “Digital Manufacturing and Design” an online non-credit course offered by university of buffalo the state university of New York through Coursera on 20/04/2020.
  22. Successfully completed one-week faculty development program on Finite Element Methods for beginners from 20/04/2020 to 24/04/2020 by CHITKARA University, Punjab.
  23. Successfully completed one-week AICTE recognized faculty development program on “cloud, Fog and Edge computing” from 14/04/2020 to 18/04/2020 by NITTTR, Chandigarh.
  24. Successfully completed one-week AICTE recognized faculty development program on “Internet of Things” from 10/04/2020 to 14/04/2020 by NITTTR, Chandigarh.
  25. Successfully completed one-week faculty development program on “Manufacturing of Composites” by NPTEL (Aug- Oct2019).
  26. Successfully completed one-week faculty development program on “Essential Computational Techniques for Research” organized by Malla Reddy Engineering College from July 1<sup>st</sup>- 6<sup>th</sup>, 2019.

#### **International/National Journals from the Year 2017**

1. Chinta, V. S., Reddy, P. R., Prasad, K. E., “Investigation of Shear Properties of Axial Flow Fan Blades with Partial Woven Jute Reinforcement”, *Gis Science Journal*, Volume- 9, No. 5, pp. 1349-1365, 2022.
2. 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.
3. 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.
4. 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.
5. 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.

6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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/ijmperdec 201827.
16. 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.
17. 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.

#### **International /National Conferences from the Year 2017**

1. Venkata Sushma Chinta, "Investigation of Fracture parameters of Jute/Glass reinforced Hybrid composite and Analysis by using FEA", 1st International conference on emerging trends in mechanical Engineering, ICETME-2018, SRIT, Anantapuram, 20th -22nd Dec2018, ISBN:968-81-939258-8-4.
2. Venkata Sushma Chinta, "Experimental and Finite Element Analysis of Fracture parameters of Glass-Epoxy Composite", 4th -5th Jan2019, 2nd International conference on innovations in mechanical Engineering, ICIME-2019, Gurunanak Group of Institutes, Hyderabad, ISBN:978-81-939248-8-4.