

Name of Faculty Mrs. V. SANDHYA  
 Designation Assistant Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 29-10-2008  
 E-mail vsandhya\_mech@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Registered	Pursuing
PG	M. Tech. (Production Engineering)	First
UG	B. Tech. (Mechanical Engineering)	First

**Work Experience**

Teaching	15 Years
Research	04 years
Industry	--
Others	--

Area of Specialization Production Engineering

Professional Memberships ---

Responsibilities held at Institution Level  
 1. Convener, Entrepreneurship Development Cell  
 2. Incharge staff for Student Bus- 64

Responsibilities held at Department Level  
 1. Member, Course Expert Group  
 2. Incharge, Machine Tools Lab

Research Guidance --

Awards Received --

Courses Handled at Under Graduate / Post Graduate Level.  
 Metal Cutting & Machine Tools, Operations Research, Metal Casting and welding, Optimization Techniques, Intellectual Property Rights, Prime Movers & Pumps, Product Design and Process Planning, Entrepreneurship

No. of Papers Published  
 National Journals – International Journals – 07  
 National Conference – International Conference – 02

Projects Carried out --  
 Patents --  
 Technology Transfer --  
 Invited Speaker --  
 No. of Books/Chapter Published with details --

**List of Programs Attended**

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops/Other Trainings (Attended and/or Organized).

1. One-month online internship in RESEARCH TRAINING from 05.07.2021 to 05.08.2021 organised by MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)
2. The India's First Leadership Talk with Shri Shashi Shekhar (CEO- Prasar Bharti) by MHRD's Innovation Cell held on 11<sup>th</sup> July, 2020.
3. Leadership talk with Mr. Dipendra Manocha, Motivational Speaker broadcasted by MHRDs Innovation Cell on 27<sup>th</sup> June, 2020.
4. Leadership talk with Mr. Shridhar Venkat, CEO, Akshay Patra Foundation broadcasted by MHRDs Innovation Cell on 20<sup>th</sup> June, 2020

5. Leadership talk with Mr. R. Subrahmanyam, IAS, Secretary, Ministry of Social Justice & Empowerment broadcasted by MHRDs Innovation Cell on 13<sup>th</sup> June, 2020
6. Leadership talk with Ms. Ashwini Deshpande, Co- Founder & Director Elephant Design broadcasted by MHRDs Innovation Cell on 6<sup>th</sup> June, 2020
7. Leadership talk with Dr. Nilesh N Oak Expert in Indian Civilization and History broadcasted by MHRDs Innovation Cell on 30<sup>th</sup> May, 2020
8. Leadership talk with Mr Mahesh Babu CEO Mahindra Electric Mobility Ltd. broadcasted by MHRDs Innovation Cell on 23<sup>th</sup> May, 2020
9. IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs from 28<sup>th</sup> April to 22<sup>nd</sup> May 2020 during COVID-19 nationwide lockdown
10. webinar on "Machining studies on Aluminium Composites" Organised by Mechanical Engineering Department, CMR University, Bangalore on May 21, 2020
11. Leadership talk with Dr. Pramod Chaudhari, Founder, Chairman, Praj Industries Limited broadcasted by MHRDs Innovation Cell on 16<sup>th</sup> May, 2020
12. India leadership talk webinar with Mr. D.P. Singh, Chairman UGC broadcasted by MHRDs Innovation Cell on 9<sup>th</sup> May, 2020
13. India First leadership talk webinar broadcasted by MHRDs Innovation Cell on 2<sup>nd</sup> May, 2020
14. Completed an online 5 weeks non-credit course "Materials Science: 10 Things Every Engineer Should Know" authorized by University of California, Davis and offered through Coursera.2020
15. A National level two day workshop on "Interface of Statistical Analysis using R" CBIT, Hyderabad. 9<sup>th</sup> and 10<sup>th</sup> February, 2018
16. A Two day National level Workshop on "Applied Numerical Methods, Optimization Techniques & Learning" (ANMOL-2018) MVSREC, Hyderabad. 19<sup>th</sup>- 20<sup>th</sup> JANUARY, 2018.
17. Advances in Research & Innovations in Mechanical Engineering MJCET, Hyderabad 30 Jan – 01 Feb, 2017
18. NEN Entrepreneurship Educator Program Aurora's Business School, Hyderabad, 14-16 July, 2016
19. Completed 8.01x: Physics I (Classical Mechanics) a course of study offered by MITx, an online learning initiative of The Massachusetts Institute of Technology through edX. 2014
20. Advanced Materials and Machining, NIT, Warangal 31 Oct – 2 Nov 2013
21. Completed 8.MReVx: Mechanics Review a course of study offered by MITx, an online learning initiative of The Massachusetts Institute of Technology through edX. 2013
22. Nano Technology and its applications CBIT, Hyderabad. 27-28 Feb, 2012

#### **FDP**

1. Participated in the AICTE Recognized Faculty Development Programme on Smart Materials Processing and Applications Conducted by NITTTR, Chandigarh from 25/07/2022 to 29/07/2022
2. ATAL FDP on "Advancement in Manufacturing Technology" from 17/01/2022 to 21/01/2022 at School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur
3. One week Faculty Development Programme on "Materials Processing and Optimization" organized by NITTR, Chandigarh from 06-07-2020 to 10-07-2020
4. One week Online FDP on "Industry 4.0- A Vision of Design & Manufacturing", organized by CBIT(A), Hyderabad during 16-06-2020 to 20-06-2020
5. One week Online FDP on "Data Science using R programming" organized by Mahaveer Institute of Science

and Technology in association with Webtek labs from 12<sup>th</sup> to 17<sup>th</sup> June, 2020.

6. One week Faculty Development Programme on “Outcome based education and NBA accreditation process-UG” organized by CBIT from 28-05-2020 to 01-06-2020
7. One week Faculty Development Programme on “Recent Advances in Material Characterization” organized by NITTR, Chandigarh from 23-05-2020 to 28-05-2020
8. "One week FDP on ""Outcome Based Education: A Step Towards Excellence"" conducted by Govt.Engineering college, Karad, Maharashtra from 11-05-2020 to 15-05-2020.
9. A Two Week FDP on “Contemporary Advances in Materials & Manufacturing Engineering (CAMME-+017)” Sponsored by AICTE. 30th October to 10th November, 2017. JNTU KAKINADA
10. Refresher Course in Engineering Management, UGC-Academic Staff College, JNTU, Hyderabad
11. UGC sponsored “20<sup>th</sup> Orientation course” organized by UGC-Academic Staff College, JNTU, Hyderabad from 25<sup>th</sup> April to 21<sup>th</sup> May, 2011

#### Organized

1. Organized ECON-2022, Entrepreneurship and Business Conclave on March 31st, 2022, and April 1st, 2022
2. Organized Faculty Development Programme on Establishment and Management of Business Incubators 10<sup>th</sup> March 2022 to 12<sup>th</sup> March 2022
3. Organised a Speaker session on Financial independence and Bootstrapping on 15th July, 2021
4. Organized IMPRESARIO-2020“ The Entrepreneurial Diversity”, Tech-Entrepreneurship fest during 6<sup>th</sup> -7<sup>th</sup> March,2020
5. Organized a one day workshop titled ‘Nurturing Holistic Lifestyle Among Professionals’ on 12<sup>th</sup> February,2020
6. Organized a two day workshop on “Augmented Reality” in collaboration with T-Hub start-up, Hyderabad during 25<sup>th</sup> -26<sup>th</sup> October, 2019
7. Organized IMPRESARIO-“ The Entrepreneurial Culture”, Tech-Entrepreneurship fest during 18<sup>th</sup> -19<sup>th</sup> February,2019
8. Organized a seminar / discussion session for study abroad aspirants on 01-03-2019 in collaboration with Gyandhan, Sri Jainesh Sinha was the guest speaker
9. organized a student information session for III Sem students on “Technology Enterpreneursip programme (TEP) 2.0” by Ekta Chowdary, ISB, Hyderabad and Mallesh Tallapally, TASK, Hyderabad on 13-08-2018.
10. EDC Organised a Boot Camp on “E Summit 2.0” on 19-07-2018
11. EDC organized a seminar on “ Manufacturing, supply chains-Trends and research scope” and “scope of graduate studies and research studies at Binghamton University” by Prof Nagendra Nagarur, Industrial Engineering, Binghamton University on 09-01-2018
12. Organized a one day workshop on “Jobs Vs Higher Studies Vs Entrepreneurship” on 17.01.2018
13. Conducted a Pep talk on ‘The key role & Importance of entrepreneurship for a successful career in the present era’ by Dr. Nikhil Chadwani on 26.07.2017.
14. Organized an awareness programme on ‘National Entrepreneurship Network’ on 17.08.2017
15. Organized IMPRESARIO tech-entrepreneurship fest conducted by E-Cell CBIT in February,2017 20-02-2017 to 22-02-2017
16. Coordinator for A Two day workshop on “Recent Trends in Manufacturing(RTM-2013)”, organized by the Department of Mechanical Engineering , (under TEQIP-II) held on 29-07-2013 & 30-07-2013.

Details of Journal Publications/  
Conferences **(National and  
International)**

**International Journal**

1. Dr. P. Prabhakar Reddy, Dr. P.V.R. Ravindra Reddy, N. Jyothirmayi, V. Sandhya, V. Jaipal Reddy, "Conceptual Frame Work for Synergetic Academic System Intertwined With Entrepreneurial Practices in Higher Educational Institutions", GRADIVA Review Journal, Volume 8, Issue 6 , 2022, PAGE NO: 814-820, ISSN – 0363-8057.
2. Dr. P. Prabhakar Reddy, Dr. P.V.R. Ravindra Reddy, V. Sandhya, N Jyothirmayi, V. Jaipal Reddy, "Nurturing Entrepreneurial approach among young minds in Higher Technical Educational Institutions", GRADIVA Review Journal, Volume 8, Issue 6 , 2022, PAGE NO: 130-134, ISSN – 0363-8057.
3. Varimadugu Sandhya, M.Naga Phani Sastry, K.HemaChandra Reddy, Influence of Welding Speed, Voltage, and Beam current on the microstructure and mechanical properties of Electron Beam-Welded Titanium radial joints, Materials Today: Proceedings, Volume 64, Part 1, 2022, Pages 442-447
4. V.Sandhya, Almas Sadaf, B.Pooja Reddy, K.Sai Priyanka, Experimental investigations on effect of weld parameters in TIG welding of Aluminium, International journal of mechanical and production engineering research and development. vol. 11, issue 5, Oct 2021, 215-220
5. Dr. L Suresh Kumar, V Sandhya, V Jaipal Reddy, Efficient Activated Metal Inert Gas Welding Procedures by Various Fluxes for Welding Process, Journal of Shanghai Jiaotong University, Volume 17, Issue 6, June - 2021
6. Mr V. Jaipal Reddy, Ms V.Sandhya, Dr L Suresh Kumar, Mr G.Sreenivasulu Reddy, Experiments on the thermo-mechanical behavior of Al 319 strengthened with recycled glass, Journal of Xian University of Architecture and Technology Volume XIII, Issue 6, 2021
7. Ms Varimadugu Sandhya, Ms Yarramsetty Nagini, Ms Venkata Sushma chinta, Mr V.Jaipal Reddy, Ms Jyothirmayi Narne, Numerical Analysis of Engine Hood, Journal of Xian University of Architecture and Technology Volume XIII, Issue 6, 2021
8. Dr K. Hema Latha, Smt. Varimadugu Sandhya, Smt. Jyothirmayi Narne, Dr. Praveen.T, An Effective Examination of compressible Magnetorheological Shock Absorber with Temperature Fluctuations, YMER Digital, Vol 20 : Issue 8 - 2021
9. Dr K. Hema Latha, Smt. Varimadugu Sandhya, Smt. Jyothirmayi Narne, An Extensive Investigation of Difficulties of Preparing Magneto-rheological Fluids, PAIDEUMA JOURNAL, Vol XIII Issue 10 2020
10. Dr K. Hema Latha, Smt. Varimadugu Sandhya, Optimization of process parameters in machining of Aluminium, International journal of mechanical and production engineering research and development. vol. 10, issue 3, Jun 2020, 16547-16558
11. Varimadugu Sandhya, Jyothirmayi narne, Manufacturing and testing of composite rod for replacement of mild steel for construction purpose, International journal of mechanical and production engineering research and development. vol. 10, issue 3, Jun 2020, 2853-2864
12. V. Sandhya, M. Vamsi krishna, S. Sai kiran & Ch. Satish, The multi objective optimization of mechanical properties and bead geometry in MIG welding. International journal of mechanical and production engineering research and development. vol. 9, issue 3, Jun 2019, 1785-1792
13. Venkata Sushma Chinta, Y.Nagini, V.Sandhya, E.Hima Nandini, Shaheen, J.Suteja (June 2018). Investigation of Mechanical Properties of Bidirectional Carbon/ Glass Reinforced Epoxy Hybrid Composites, International Journal of Mechanical and Production Engineering Research and Development, ISSN(P):2249-6890, ISSN(E):2249-8001, Scopus Indexed, pages 449-456, Vol 8., Issue 3
14. Jyothirmayi Narne, Varimadugu Sandhya, Nagini Yarramsetty, V.Jaipal Reddy (2018). Experimental and Numerical Investigations on Crack Propagation in Titanium Alloys, International Journal of Current Engineering and Technology, ISSN(P):2347-5161, ISSN(E):2277-4106, pages 922-927, Vol 8., Issue 4
15. Gopal, Dr L.Suresh Kumar, V.Jaipal Reddy, V.Sandhya (2016). CFD Analysis of a pelton wheel, International Journal of Engineering Trends and Technology, ISSN: 2231-5381, Page no-130-135, Volume 31, No-3, Impact Factor-1.656
16. G. Gopal, Dr L.Suresh Kumar, V.Jaipal Reddy, V.Sandhya (2016). Analysis of a hypoid gear [Static And Dynamic Analysis], International Journal on Mechanical Engineering and Robotics, ISSN (Print) : 2321-5747, Page no-21 -29, Volume-4, Issue-5-6, Impact Factor-1.95
17. K. Hema Latha, G. Bhasker, V. Sandhya, H. Krishna Murthy Dora (2016), Design, Analysis and Optimization of Vibration Interface for an Avionic Equipment, International Journal on Mechanical Engineering and Robotics, ISSN (Print) : 2321-5747, Page no- 22-28, Volume-4, Issue-3, Impact Factor-1.9

**International/National Conferences**

1. K.Hema Latha, G.Bhasker, V.Sandhya, H.Krishna Murthy Dora, (2016), "Design, Analysis and Optimization of Vibration Interface for an Avionic Equipment", International Conference on Technological Innovations in Mechanical Engineering, 10-11 Feb, 2016 ISBN:978-93-81692-07-1, Page No:140-146

2. Gopal, Dr L.Suresh Kumar, V.Jaipal Reddy, V.Sandhya,” Analysis of Hypoid Gear (Static and Dynamic Analysis)”, International Conference on Technological Innovations in Mechanical Engineering, 10-11 Feb,2016ISBN:978-93-81692-07-1, Page No:170-176

