Name of Faculty	Dr. Inturi Vamsi	
Designation	Assistant Professor	
Nature of Job/Appointment	Regular	
Date of Joining	27-01-2021	
E-mail	inturivamsi_mech@cbit.ac.in	

Education Qualifications	Name of the Degree	Class
Post-Doc	Post-doctoral research scholar at Trinity College Dublin, Ireland	Completed
Ph.D	Doctor of Philosophy (Mechanical Engg.) at BITS Pilani	Awarded
PG	M. Tech (Machine Design)	First class with distinction
UG	B. Tech (Mechanical)	First class with distinction

Work Experience

Teaching	04 Years
Research	04 years
Industry	--
Others	---
Area of Specialization	Machine Design, Vibration signal analysis, Acoustic signal analysis, Condition monitoring, Fault diagnosis, Signal processing, Image Processing, Mathematical modeling
Professional Memberships	Life Member ISTE Associate Member IE India (AM181789-5)
Responsibilities held at Institution Level	-Nil-
Responsibilities held at Department Level	-Nil-
Research Guidance	-Nil-
Awards Received	-Nil-
Courses Handled at Under Graduate / Post Graduate Level.	Engineering Graphics, Mechanics of Solids, Fluid Mechanics, Mechanical Vibrations, Kinematics and Dynamics of Machines, Vehicle Dynamics

No. of Papers Published	National Journals – 00	International Journals – 23 (SCI & Scopus)
	National Conference – 01	International Conference – 01

Projects Carried out	-Nil-
Patents	-Nil-
Technology Transfer	-Nil-
Invited Speaker	1. Speaker of eminence for five-day online FDP on 'Recent Trends in Mechanical Engineering' at ICFAI University, Jaipur during July 2021. 2. Delivered a Two-day Lecture on 'Report writing through Latex' at Vignan Institute of Technology and Science, Hyderabad during January 2020.
No. of Books/Chapter Published with details	-Nil-
Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops.Other Trainings (**Attended and/or Organized**).	1. Attended a one week FDP on 'Quality Education Through OBE' by CBIT from 22nd January to 27th January 2024. 2. Attended an online short-term course on 'Python programming for beginners' by NIT Warangal from 27th May 2022 to 31st May 2022. 3. Completed a seven-day course on 'Design Thinking' from 16th May 2022 to 22nd May 2022. 4. Attended a FDP on 'Scope for sponsored projects and its implementation' at SRM University on 11th May 2022. 5. Attended a seminar on 'Scope for Interdisciplinary Research' at CBIT (A) on 06th May 2022. 6. Attended a two-day work shop on 'Condition monitoring &

NVH' at BITS Pilani from 14th February 2018 to 15th February 2018.

7. Attended a two-day national seminar on 'Machinery vibration analysis' at CBIT Hyderabad from 05th October 2017 to 06th October 2017.
8. Attended a three-day 'Short term course on condition monitoring and signal processing' at IIT Indore from 06th March 2017 to 08th March 2017.
9. Attended a three-day workshop on 'Improving teaching skills in Engineering Drawing', at JNTU Kakinada in 2015.
10. Attended a one-day workshop on 'Recent trends in mechanical engineering', at SRKR engineering college on 31st August 2015.

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

International Journals (SCI & Scopus Indexed)

1. **Vamsi Inturi**, Hemanth M P, Pavan Kumar P, Sabareesh G R, Damage monitoring of pultruded GFRP composites using wavelet transform of vibration signals, Measurement (Elsevier), 195, 111177, 2022. (**IF = 5.13**)
2. Hemanth M P, Sabareesh G R, **Vamsi Inturi**, Akshay J, A component level signal segmentation method for multi-component fault detection in a multi-stage gearbox subjected to non-stationary operating conditions, Measurement (Elsevier), 195, 111180, 2022. (**IF = 5.13**)
3. **Vamsi Inturi**, Sai Venkatesh B, Praharshitha G, Brahmini Priya P V, Pakrashi V, Sabareesh G R, An integrated condition monitoring scheme for health state identification of a multi-stage gearbox through Hurst exponent estimates and statistical learning, Structural Health Monitoring (SAGE), 14759217221092828, 2022. (**IF = 5.71**).
4. PVSS Narayana, R Yadav, Sabareesh G R, Hemanth M P, **Vamsi Inturi**, Optimal sensor placement for identifying multi-component failures in a wind turbine gearbox using integrated condition monitoring scheme, Applied Acoustics (Elsevier), 187, 108505, 2022. (**IF = 3.61**).
5. **Vamsi Inturi**, Penumakala P K, Sabareesh G R, Effect of multiple defects and multi-component failure on the dynamic behaviour of a wind turbine gearbox, Arabian Journal for Science and Engineering (Springer), 1-15, 2022. **(IF = 2.80)**
6. Amar Kumar V, **Vamsi Inturi**, Prerana S, Radhika S, Sabareesh G R, Rajkumar S, Wavelet and deep learning-based detection of SARS-nCoV from x-ray throacic images for rapid and efficient testing, Expert Systems With Applications (Elsevier), 185, 115650, 2021. (**IF = 8.66**)
7. Hemanth M P, Akshay J, **Vamsi Inturi**, Sabareesh G R, Fingerprinting based data abstraction technique for remaining useful life estimation in a multi-stage gearbox, Measurement (Elsevier), 109021, 174, 2021. (**IF = 5.13**).
8. **Vamsi Inturi**, Pratyush A S, Sabareesh G R, Detection of local gear defects on a multi-stage gearbox subjected to fluctuating speeds using DWT and EMD analysis, Arabian Journal for Science and Engineering (Springer), 1-10, 2021. (**IF = 2.80**)
9. **Vamsi Inturi**, Shreyas N, Sabareesh G R, Anfis-Based Defect Severity Prediction on a Multi-Stage Gearbox Operating Under Fluctuating Speeds, Neural Processing Letters (Springer), 1-22, 2021. (**IF = 2.91**)
10. **Vamsi Inturi**, Shreyas N, Karthick Chetti, Sabareesh G R, Comprehensive fault diagnostics of wind turbine gearbox through adaptive condition monitoring scheme, Applied Acoustics (Elsevier), 107738, 174, 2021. (**IF = 3.61**).
11. Praveen Kumar G, **Vamsi Inturi**, K Suresh, S Radhika, Evaluation of surface roughness in incremental forming using image processing based methods, Measurement (Elsevier), 164, 108055, 2020. (**IF = 5.13**)
12. **Vamsi Inturi**, Sabareesh G R, Penumakala P K, Bearing fault severity analysis on a multi-stage gearbox subjected to fluctuating speeds, Experimental Techniques (Springer), 44(5), 541-552, 2020. (**IF = 1.16**)
13. **Vamsi Inturi**, Sabareesh G R, Supradeepan K, Penumakala P K, Integrated condition monitoring scheme for bearing fault diagnosis of a wind turbine gearbox, Journal of Vibration and Control (SAGE), 25(12), 1852-1865, 2019. (**IF = 2.63**)
14. **Vamsi Inturi**, Sabareesh G R, Penumakala P K, Comparison of condition monitoring techniques in assessing fault severity for a wind turbine gearbox under non-stationary loading, Mechanical Systems and Signal Processing (Elsevier), 124, 1-20, 2019. (**IF = 8.93**)
15. **Vamsi Inturi**, Sabareesh G R, Supradeepan K, Penumakala P K, Principal component analysis based gear fault diagnostics in different stages of a multi-stage gearbox subjected to extensive fluctuating speeds, Journal of Nondestructive Evaluation, Diagnostics and Prognistics of Engineering Systems (ASME), 1-12, 2021.
16. Ch V Subbarao, Y Srinivasa Reddy, **Vamsi Inturi**, M Indra Reddy, Dynamic mechanical analysis of

3D printed PETG material, Materials Science and Engineering (IOP Conference series), 1, 1057, 2021.

17. Onkareswar M, **Vamsi Inturi**, Rajendra S P, Penumakala P K, Sabareesh G R, Effect of Local Gear Tooth Failures on Gear Mesh Stiffness and Vibration Response of a Single-Stage Spur Gear Pair, Lecture Notes in Mechanical Engineering (Springer), 1095-1103, 2021.

18. **Vamsi Inturi**, Ritik Sachin P, Sabareesh G R, Supervised feature selection methods for fault diagnostics at different stages of a wind turbine gearbox, Lecture Notes in Electrical Engineering (Springer), 659, 478-486, 2020.

19. M Indra Reddy, M Anil Kumar, **Vamsi Inturi**, Experimental investigations on the mechanical properties of American agave and glass fiber reinforced polypropylene composites, Trends in Manufacturing and Engineering Management (Springer), 381-391, 2020.

20. Hemanth M P, Divya S, Krishna D P, **Vamsi Inturi**, Sabareesh G R, PCA based health indicator for remaining useful life prediction of wind turbine gearbox, Vibroengineering Procedia (JVE journals), 29, 31-36, 2019.

21. **Vamsi Inturi**, Karthick Chetti, Shreyas N, Sabareesh G R, Hyperparameter optimization for enabling multi-level feature classification in a wind turbine gearbox, Vibroengineering Procedia (JVE journals), 29, 24-30, 2019.

22. **Vamsi Inturi**, Sabareesh G R, Vaibhav Sharma, Integrated Vibro-acoustic analysis and Empirical mode decomposition for fault diagnosis of gears in a wind turbine, Procedia Structural Integrity (Elsevier), 14, 937-944, 2019.

23. Balavignesh V N, Bharadwaj G, Sabareesh G R, **Vamsi Inturi**, Comparison of conventional method of fault determination with data-driven approach for ball bearings in a wind turbine gearbox, International Journal of Performability Engineering, 14 (3), 397-412, 2018.

International Conferences:

1. **Vamsi Inturi**, Sabareesh G R, Penumakala P K, Tipparaju S B K, A comparative study on efficacy of condition monitoring techniques in a wind turbine under stationary and non-stationary loading conditions, 13th International Conference on Vibration Problems (ICOVP 2017), Indian Institute of Technology, Guwahati, India, 2017.

National conferences:

1. **Vamsi Inturi**, Sabareesh G R, A study on effectivenss of predictive strategies in combination for wind turbine gearbox condition monitoring, National Conference on Recent Advances in Industrial Tribology and Maintainance (RAITM 2017), National Institute of Technology, Rourkela, India, 2017.