

## CURRICULAM VITAE

### SNEHA.H.DHORIA

Assistant Professor

Department of Mechanical Engineering

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### Academic Profile

- ❖ Registered for Part time Ph.D (Andhra University).
- ❖ Post Graduation in **Industrial Engineering** from Andhra University College of Engineering, Vishakhapatnam.
- ❖ B.Tech with specialization in **Industrial & Production Engineering** from R.V.R& J.C College of Engineering, affiliated with Acharya Nagarjuna University.
- ❖ Intermediate from Board of Intermediate, from Gowtham Junior College.
- ❖ SSC from St.Josephs Girls High School, Guntur.

### Professional Experience

- ❖ Working as an Assistant Professor in "R.V.R& J.C College of Engineering", Guntur from June 2013 till date.
- ❖ Worked as a Design Engineer in "Esskay Machine Tools private limited", Hyderabad from Feb 2011 to Mar 2013.
- ❖ Worked as an Assistant Professor in "Raghu Institute of Science & Technology", Dakkamari, Visakhapatnam from June 2010- Feb2011.

- ❖ Worked as an Assistant under the guidance of **Dr. Srinivas Kishore** (Associate Professor) and **Dr.M.Pramila Devi** (Professor in Andhra University, Vizag).

**02/2011 – 03/13: Esskay Machine Tools, Jeedimetla, A.P.**

**Role: Design Engineer:** Full-time position working directly with detailing of various parts used for manufacturing special purpose machines (SPMS).

- Key clients include: Ashok Leyland, Mahindra & Mahindra, LG etc,

### **Technical Skills**

- **CAD/CAM Tools:** Solid Works, AutoCAD 2010, ANSYS, MS word, MS Office, MS Excel and Power point Presentation.

### **Extra-Curricular Activities**

- ❖ Presented a paper on "Smart materials and Sensors" in JNTU Hyderabad.
- ❖ Presented a paper on "Robotics and Automation" in Mahaveer Institute of Science and Technology, Hyderabad.
- ❖ Stood topper during Post Graduation of M.E in Industrial Engineering.
- ❖ Working as a Class In-Charge for third and final year students at R.V.R & J.C College of Engineering, Guntur.
- ❖ Stood as Block Secretary of PG Block in Andhra University Hostel Campus.

### **Industrial Projects**

- Sanctioned Rs.4,00,000/- for their proposal on '**Investigation on Performance Improvement methods of transformer using Nano fluids in the perspective of cooling**' funded by Sri Venkateswara Electricals Pvt. Ltd, Guntur.

### **Patents**

- A patent on the "**MACHINE LEARNING BASED REAL-TIME ROBOTIC INSPECTION PLANNING AND MAINTENANCE SYSTEM FOR INDUSTRIAL EQUIPMENT**", Application no: No.202441002310 A,09/02/2024 at IPR India.
- A patent on the "**DESIGN APPLICATION OF AGRICULTURAL ROBOT**", Application No: 355374-001, Dec, 2021 at IPR India.

- Published a patent on "HUMANOID ROBOT: INTELLIGENT HUMANOID ROBOT THAT INCLUDES A TORSO, A PAIR AN ARMS, TWO HANDS, A NECK, HEAD, AND LOGIC", on 4-152-2020 at IPR INDIA.

### Workshops/Seminars/FDP's/Webinars Attended

- Participated and completed all the modules of the three week online 'Women entrepreneurship development program', DST, Govt.of India, 21 Aug. - 8 Sep.2023.
- Participated in one week online Faculty development program, 'Cloud Infrastructures', RVRJCCE, AICTE, Brainovison solutions India PVT LTD, Aug. 21-25, 2023.
- Participated in three week online Women Entrepreneurship Development Program (WEDP), Department of Science & Technology, 21 aug-8 Sep,2023.
- Participated in five day Online Faculty development program on ' Future scopes for additive manufacturing in industrial and biomedical applications' Department of Mechanical; -Engineering, Aditya Engineering College, 17-21,July,2023.
- Participated in one week national level faculty development program on 'Cloud infrastructure',  
Organized by R.V.R&J.C College of Engineering, Brain vision Solutions India Pvt Ltd and AICTE,21-25,August,2023.
- Sneha.H.Dhoria, one week online faculty development programme, 'Application of artificial Intelligence & Machine Learning in Mechanical Engineering', Department of ME, Seshadri rao Gudlvalleru Engineering College,6-10 March, 2023.
- Sneha.H.Dhoria, one week online FDP, 'Process Modeling, Simulation, Control and optimization', Dr.B R Ambedkar NIT Jalandhar, Punjab, 23-27, March, 2023.
- Sneha.H.Dhoria, 'World Environment day', Institute for environment conservation Advocacy, June 2023.
- Participated in two day international Webinar,' Global Warming and Climate Change', Indian Institute of Chemical Engineers, Amaravati Regional Center , Nov, 12-13,2021.
- Participated in One week National level Intercollegiate Online FDP, 'Outcome Based Education & Bloom's Taxonomy', Internal Quality Assurance Cell of Ramakrishna Mission Vivekananda Centenary College, Kolkata, IPSR solutions limited, Nov, 08 - 15, 2021.

- Participated in AICTE training and Learning Academy Online FDP, 'Multi-Objective Optimization and Product Innovation Through TRIZ(Theory to resolve Inventive problems), Sri Shanmugha College of Engineering, July, 12 - 16, 2021.
- Completed AICTE training and Learning Academy Online FDP,' Management of Intellectual Property (IP) and Innovation(Creation, Protection and Leveraging of IP), National Institute of Industrial Engineering, July, 05-09, 2021.
- Successfully completed AICTE Training and Learning (ATAL) Academy online FDP on 'Achieving Operational Excellence by Digital Transformation of Supply Chain', RV College of Engineering, June, 21-25,2021.
- Participated in two week online FDP 'Research Methodology, Design and analysis of Experiments for Engineers and Researchers' R.V.R & J.C College of Engineering, Chowdavaram, Dec. 7-19, 2020
- Participated in online one week FDP 'Pedagogical Practices of New India under National Education Policy 2020' Tripura University, Manipur University and Assam University, Oct. 7-11, 2020.
- Participated in one week FDP 'Optimization Techniques for Mechanical Engineers' Vignan Institute of Technology and Science, 27 July - 1 Aug, 2020
- Participated in online FDP 'Excerpts of research methodology and processes' Tirumala Engineering College, July 20-22, 2020.
- Participated in online FDP 'Advanced Optimization techniques and hand-on with MATLAB/SCILAB' jointly Electronics and ICT Academies, IIIT DM Jabalpur, MNIT Jaipur, July 13-24, 2020.
- Participated and completed the course on 'The BodhiTree and SAFE Tools for Effective Online Teaching A Hands on Workshop', and also attended the interaction session and successfully completed both pre and post workshop online activities, involving 3 days of video lectures and hands-on work organized by the Teaching Learning Centre (ICT) at IIT Bombay, during 20 - 21 June, 2020.
- Participated in one week online FDP on "Engineering Education and the Industry: A post COVID- 19 perspective" by Rajiv Gandhi Institute of technology in association with Indian Institute of Industrial Engineering during June, 1-5 2020.
- Participated in 3 day faculty development programme on "Advanced material Characterization techniques" by Lendi Institute of Engineering and Technology during 28 - 30 May 2020.
- Participated in an online workshop on 'Awareness on Industry Safety during COVID-19', organized by Department of ME, S.A Engineering College during 23 May, 2020.

- Attended the webinar on 'Research Thrust areas in Composites', organized by Department of ME, Arasu Engineering College on 20 May, 2020.
- Participated in webinar on 'Machining Studies on Aluminum composites' organized by School of Engineering and technology, CMR University on 21 May, 2020.
- Participated in "3D printing applications and technologies" offered by Sri Ramakrishna Engineering college, during 18-20 May 2020.
- Participated and successfully completed the "Effective and Efficient online teaching in online teaching in the age of CORONA, A hands on workshop", IIT Bombay on 17 May 2020.
- Participated in online workshop on 'Design of Experiments: An Engineering Perspective', organized by Journal of Advanced Engineering Research and powered by Hexacube, India, during 25-27, April, 2020
- Participated in AICTE Sponsored two week FDP on Emerging Technologies and Challenges in Mechanical Engineering, 21 Oct. - 2 Nov. 2019, organized by Department of Mechanical Engineering, RVRJCCE.
- Participated in a one week short term course on 'CAD Using Solid Works', organized by NITTTR Chandigarh, during 11-15 March, 2019.
- Participated and successfully completed the IUCEE-International Engineering Educator certification program in association with Indo Universal Collaboration for Educating Engineers (IUCEE), during July 2018 to Jan. 2019.
- Participated in AICTE- ISTE sponsored one week induction program on "Research Methodology, Design and analysis of Experiments", conducted by R.V.R&J.C College of engineering, Department of Mechanical Engineering, RVRJCCE, during 12-17 Nov 2018.
- Participated in online course on "Fundamentals of 3D Visualisation" conducted by IIT Bombay from 29 August to 07 October 2018.
- Participated in the "APSSDC - IIEECP phase - I Certification program (in Partnership with IGIP, Austria) - Batch II" started from May 2, 2018.
- Participated in AICTE approved faculty development program (FDP301X) on "MENTORING EDUCATORS IN EDUCATIONAL TECHNOLOGY" conducted by Indian Institute of Technology, Bombay from May 17, 2018 to July 5, 2018.
- Achievement-One amongst the top 241 performers from a total of 5308 participants in the two week FDP on "Foundation program in ICT for education" and "Pedagogy for online and blended teaching learning process" conducted by IIT Bombay.

- Participated in AICTE recognized short term course on "Product Design and development through ICT" from 6-10<sup>th</sup> November, 2017 conducted by National Institute of technical teachers training and research, Chandigarh.
- Attended two week faculty development programme (FDP) by AICTE on "Innovations in renewable energy harvesting and environment friendly process technologies for sustainable development" at R.V.R & J.C College of Engineering, Guntur during 23<sup>rd</sup> Oct- 4<sup>th</sup> Nov 2017.
- Attended FDP on "Pedagogy for online and blended teaching learning process" conducted by IIT Bombay from September 14<sup>th</sup> 2017-October 12<sup>th</sup>, 2017.
- Attended FDP on "Foundation program in ICT for education" conducted by IIT Bombay from August 3<sup>rd</sup> to September 7<sup>th</sup> 2017.
- Attended short term course on "Optimization using MATLAB through ICT" conducted by National Institute of technical teachers training and research, Chandigarh during 17-21 July,2017.
- Attended short term course on "Artificial neural network and fuzzy logic through ICT" conducted by National Institute of technical teachers training and research, Chandigarh during 24-28 April,2017.
- National seminar on "Ethics and human values in engineering" by Department of Mechanical Engineering at R.V.R & J.C College of Engineering, Guntur during 5-6 January 2017.
- Attended short term course on 'Tribology in Design' organized by Department of Mechanical Engineering, IIT Madras., during Nov 7-12, 2016.
- Attended a TEQIP-II Sponsored Short Term Training Programme on "Supply chain Management & E-Business" organized by Department of Mechanical Engineering at SVNIT, Surat during June 22-26<sup>th</sup> 2015.
- Attended two day induction training programme (ISTE) at R.V.R&JC College of Engineering during 1-2<sup>th</sup> may 2015.
- National Seminar on "Recent Advances in Mechanical Engineering" by Department of Mechanical Engineering at Lakireddy balireddy college of Engineering during 26-30<sup>th</sup> December 2015.
- A two day workshop on "Engineering Drawing" under TEQIP-II organized by Dept of mechanical engineering at Malla reddy engineering college, Hyderabad during 12-13<sup>th</sup> September 2014.
- National Seminar on "Futuristic trends of Nano Composites and their Fabrication" (FTNCF - 2013) by Department of Mechanical Engineering at R.V.R & J.C College of Engineering, Guntur during 6-7, September 2013.

## Papers Published

- G.Nageswara rao, Mahesh M. Kawade, and Sneha H. Dhoria. 'Performance and Emission Analysis of Lemongrass Biodiesel in Diesel Engines at Varied Compression Ratios: A Novel Exploration', International Journal of Vehicle Structures and Systems 16, no. 1 Feb.2024, <https://doi.org/10.4273/ijvss.16.1.11> (Scopus)
- Sneha.H.Dhoria, K Venkata Subbaiah, V Durga Prasada Rao, "Multi-Objective Parametric Optimization on WEDM of Hybrid Al6351/SiC/Gr Composites Using NSGA-II", Journal of The Institution of Engineers (India): Series D <https://doi.org/10.1007/s40033-023-00632-1> (Scopus)
- B.Ramgopal Reddy, C.Srinivas, N.V.V.S.Sudheer, and Sneha H Dhoria, "Stress analysis in a multiscale composite laminated plate with cutout at the centre using finite element method", Annales de Chimie - Science des Matériaux, Dec.2023. <https://doi.org/10.18280/acsm.470605> (WOS, SCOPUS).
- P.Mastan Rao, Sneha.H.Dhoria, S. Gopal Krishna, G.Radha Krishna, Meshel Q. Alkahtani, Saiful Islam, M. Vijaya "Artificial intelligence based modelling and hybrid optimization of linseed oil biodiesel with graphene nanoparticles to stringent biomedical safety and environmental standards." *Case Studies in Thermal Engineering* (2023): 103554.
- Mastan Rao, P., Ch Deva Raj, Sneha H. Dhoria, M. Vijaya, and J. Ranga Raya Chowdary. "Multi-Objective Optimization of Turning for Nickel-Based Alloys Using Taguchi-GRA and TOPSIS Approaches." *Journal of the Institution of Engineers (India): Series D* (2023): 1-12.
- J.Lakshmi Jayanthi, P.Rohinikumar, Sneha.H.Dhoria, J.Subbarao, M.Vijay, J.Gouthami, "Efficient Removal of Fluoride using Sol-gel Processed Nano Magnesium Oxide", *Chemical Methodologies*, July 2023. <https://doi.org/10.22034/chemm.2023.393347.1671> (WOS)
- P.Mastan Rao, Ch.Siva Sankara Babu, P.Nageswara Rao, M.Vijaya, Sneha. H. Dhoria, Ch.Deva Raj, J.Ranga Raya Chowdary, and K.Praveen Kumar, "Effect of Graphite on Mechanical and Tribological Properties of Al6061/SiC Hybrid Composites", *Annales de Chimie - Science des Matériaux*, June,2023. <https://doi.org/10.18280/acsm.470301> (WOS, Scopus)

- A paper on **"Thermal analysis on 6351Al/Gr/Sic hybrid metal matrix composites fabricated by squeeze casting process"**, YMER, Vol-21, issue 10, October 2022.
- Ramgopal Reddy Bijjam, Srinivas Chandanam, Govind Nandipati, Sneha H. Dhoria, **'Optimization of Machining Parameters in Drilling of Glass/Hemp/Bamboo Fibres Based Hybrid Polymer Composites'**, Annales de Chimie - Science des Matériaux, Vol. 46(3), 127-133, 2022 (WOS,SCOPUS).
- A paper on **'Studies on Mechanical Properties of Kevlar/Napier Grass Fibers reinforced with Polymer Matrix Hybrid Composite'**, Advances in Materials Science and Engineering, Vol. 2021. <https://doi.org/10.1155/2021/6907631>. (SCI-e)
- M.Manjusha and Sneha.H.Dhoria, **'Gender Equality And Women's Empowerment In India: Issues and Challenges'**, International Journal of Multidisciplinary Educational Research, Vol-10, Issue3(5), March,2021.
- A paper on **'Optimization of Multi response parameters in WEDM of Al6351 based hybrid metal matrix composites using Grey relational analysis'**, Vol.63(2s), 9789-9803, Dec. 2020.
- A paper on **'Mechanical and wear behaviour of 6351 Al/Gr/SiC composites fabricated by squeeze casting'**, Materials Today Proceedings, Vol. 18P6, pp: 2107-2113, July 2019.
- A paper on **'Experimental investigation of Thermal conductivity of aluminum metal matrix composites'**, pp: 341- 346, Vol.7, Issue 3, ISSN: 2321-9939, July, 2019.
- A paper on **"Assessment of Mechanical and Tribological Properties of Aluminium Hybrid Metal Matrix Composites: A Review"** published in RESEARCH REVIEW International Journal of Multidisciplinary, Volume-04, Issue-05, May-2019.
- A paper on **"Effect of alkaline treatment on mechanical properties of kenaf fiber reinforced polyester composites"** and was published in American Institute of Physics- AIP Conference Proceedings 1943, 020097 (2018); <https://doi.org/10.1063/1.5029673>.
- A research paper on **"CFD analysis on concentric tube heat exchanger in parallel and counter flow direction"** and was published in the Journal of Engineering Research and Application- ISSN : 2248-9622, Vol. 8, Issue 6 (Part - II) June 2018, pp 20-25.



- A research paper on "**Synthesis, Characterization and Deformation Studies of Blast Furnace Slag Particles Reinforced Aa2024 Composite**", was published in Journal of Thin Films, Coating Science Technology and Application, Vol.3, Issue 3, pp 31-43, ISSN: 2455- 3344, 2016.
- A research paper on "**Design of Back stopper Mechanism for Automobiles**" ,was published in the International Journal of Engineering Trends and Technology (IJETT), Vol.40,ISSN:2231-5381, Oct.2016.
- A research paper on "**Investigation of Mechanical Properties of Al356 Metal Matrix Composites**" and was published in the International Journal of Engineering Trends and Technology - IJETT Oct, 2016.

### **Conferences Attended**

- Presented a paper on "Thermal analysis on 6351 Al/Gr/Sic hybrid metal matrix composites by squeeze casting process" 2nd conference on Advances in Modelling, Manufacturing and Materials Engineering, Vignan university, Oct. 30-31, 2020.
- Presented a paper on 'Fluoride Removal by Nano Magnesium Oxide', National Conference on Recent Advances in Chemical Engineering (RIPPLES -2K20) Department of Chemical Engineering, Andhra University college of Engineering(A), Andhra University Visakhapatnam, 21-22 Jan, 2020.
- Presented a paper on "Mechanical and Wear behaviour of 6351 Al/Gr/SiC composites fabricated by Squeeze casting", conducted by Department of Mechanical Engineering, S.R.K.R Engineering College, Bhimavaram on 27-28<sup>th</sup> March 2019.

### **Subjects Taught**

1. Engineering Graphics
2. Operations research
3. Operations management
4. Industrial Engineering and Management
5. Mechatronics
6. Workshop technology
7. Introduction to Industrial Engineering

8. Fundamentals of Industrial Engineering
9. Project Management and Entrepreneurship
10. Total quality management
11. Introduction to Industrial Management

### College Duties

- Department library in-charge
- N.S.S(Girls Wing)
- Newsletter Committee
- First year hostel committee

### Personal Profile

Name : Sneha. H. Dhoria  
Father Name : Haresh. R. Dhoria  
Language Proficiency : English, Telugu & Hindi and Gujarathi  
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Assistant Professor,  
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Signature  
(SNEHA.H.DHORIA)