

Dr. PREMDASU NALLURI

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RESIDENTIAL ADDRESS:

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ACADEMIC QUALIFICATIONS

- ❖ Ph.D - Mechanical Engineering
- ❖ M.Tech - Thermal Engineering
- ❖ B. Tech - Mechanical Engineering

ACADEMIC REWARDS / ACHIEVEMENTS:

- ❖ Secured top 2% in NPTEL course on "Steam and Gas Power System" in the year 2017.
- ❖ Received best paper award in two-day international conference on "**Advances in Renowned and Renewable Energy technologies (ICARRET-)**" organized by VR Siddhartha engineering college, Vijayawada.

PROFESSIONAL EXPERIENCE

| Designation | University/College | Period |
|---------------------|----------------------------------|-------------------------|
| Assistant Professor | Gudlavalleru Engineering College | 07.07.2016 to till date |

PROJECTS GUIDED

| PhD | Post Graduation | Under Graduation |
|-----|-----------------|------------------|
| Nil | Nil | 20 |

SPECIALIZATION:

- ❖ Thermal Engineering

RESEARCH PAPERS / BOOKS

BOOKS PUBLISHED IN PUBLICATIONS: Nil

PAPERS PUBLISHED IN JOURNALS:

- ❖ Journals: National : Nil
International : 10
- ❖ Conferences: National : 01
International : 0

Journals:

a) **National:** Nil

b) **International:**

- ❖ A paper on “**Production of liquid hydrocarbon fuels through catalytic cracking of high and low-density polyethylene medical wastes using fly ash as a catalyst**”, was published in Process Safety and Environmental Protection, Volume 187, 2024, Pages 459-470, ISSN 0957-5820, Elsevier, <https://doi.org/10.1016/j.psep.2024.04.145>.
- ❖ A paper on “**Thermodynamic simulation study on compression ignition engine operating with oil obtained via catalytic pyrolysis of waste polythene covers**”, was published in Sustainable Chemistry for Climate Action, Volume 4, 2024, 100041, ISSN 2772-8269, Elsevier, <https://doi.org/10.1016/j.scca.2024.100041>.
- ❖ A paper on “**Experimental study on a computerised VCR diesel engine running on oil made by pyrolyzing waste plastic using Red mud as a catalyst**” was published in Green Analytical Chemistry, Volume 5, 2023, 100054, ISSN 2772-5774, <https://doi.org/10.1016/j.greeac.2023.100054>
- ❖ A paper on “**Catalytic Degradation of used plastics oil as liquid fuel for IC Engines**” was published in Journal of Physics: proceedings, Conference series, 2054(2021) 012072, IOP Publishing, October 2021,
- ❖ A paper on “**Experimental Study on Catalytic Pyrolysis of Plastic waste using Low Cost Catalyst**” was published in Materials today: proceedings, Elsevier, Volume 45, Part 7, 2021, Pages 7216-7221.
- ❖ A paper on “**Effect of Waste plastic oil Diesel blend on variant injection pressure of a Diesel Engine**” was published in American Society for Physics(AIP) conference Proceedings, 16th February 2021, Volume-2316, Issue-1, ISSN 0094-243X (print) 1551-7616 (web).
- ❖ A paper on “**Improvement in heat transfer rate of a pipe using different types of inserts**” was published in American Society for Physics(AIP) conference Proceedings, 7th December 2020, Volume-2311, Issue-7, ISSN 0094-243X (print) 1551-7616 (web).
- ❖ A paper on “**Experimental investigation on VCR DI Diesel Engine fuelled with dual biodiesel blends of palm and jatropha**” was published in International journal of Modern Trends in Engineering Research(IJMTER). Volume 04, Issue 8, [August– 2017] ISSN (Online):2349–9745; ISSN (Print):2393-8161.
- ❖ A paper on “**Vortex flow over the flat plate and backward facing step**” was published in IOSR Journal of Engineering (IOSRJEN), Vol. 07, Issue 04 (April. 2017), ||V1|| PP 20-31 ISSN (e): 2250-3021, ISSN (p): 2278-8719.
- ❖ A paper on “**Experimental analysis of 20% EGR Rate on VCR Diesel Engine Fuelled with Jatropha Biodiesel Blends**” was published in International Journal of Engineering Science & Research Technology (IJESRT) in the month of May 2016.

Conferences:

a) **National:**

- ❖ A paper on “**Strength analysis of banana and American Hybrid composite**” presented in one day National conference on “Recent Advances in Mechanical Engineering(NCRAME-17)” organized by Department of Mechanical Engineering, PVPS Institute of Technology, Kanuru, Vijayawada on 2nd December 2017.

b) International:

- ❖ A paper on "**Experimental study on Computerized VCR Diesel engine operating with fuel derived from waste plastic**" presented in 2-day International Conference on Sustainable energy solutions for a better tomorrow (SESBT-2021) organized by VIT Chennai, held on 23rd and 24th July, 2021.
- ❖ A paper on "**Heat transfer Enhancement rate of a pipe using different types of inserts**", Presented in 3rd International Conference on Frontiers in Automobile & Mechanical Engineering (FAME 2020) organized by School of Mechanical Engineering, Satyabama Institute of Science and Technology, Chennai, on 7th and 8th August, 2020.
- ❖ A paper on "**Experimental investigation on Catalytic Pyrolysis of Waste plastic using Fly ash Catalyst**" presented in two-day international conference on Advances in Renowned and Renewable Energy technologies (ICARRET-) Organized by Department of Mechanical Engineering, VR Siddhartha Engineering College, Kanuru, Vijayawada during 23rd and 24th October 2019.
- ❖ A paper on "**Effect of waste plastic oil diesel blend on variant injection pressure of a diesel Engine**" was presented in International conference on advanced trends in Mechanical & Aerospace Engineering(ATMA-2019) organized by Dayananda Sagar University-Bangalore held during 7-9, November 2019.

LIST OF WORKSHOPS ORGANIZED:

- ❖ Organized **Adjunct Faculty lecture on "Steam Boilers"** for III B. Tech II Sem Students on 30th and 31st December 2024.
- ❖ Organized one week Faculty Skill Development Programme on "**Hands on training on Arduino Applications in Engineering**" from 11th March, 2024 to 16th March, 2024.
- ❖ Organized Guest lecture for students on "**Operation and troubleshooting of steam boilers and turbines**" on 13th and 14th October 2018.

LIST OF WORKSHOPS / SEMINARS ATTENDED:

External

- ❖ A Two-week Online Faculty Development Program on "**Advances in Mechanical Engineering**" from 02-12-2024 to 13-12-2024, Organized by Department of Mechanical engineering, PVP Siddhartha Institute of Technology, Vijayawada.
- ❖ Participated in One Week National Level Online FDP on "**Outcome Based Education and Essential AI Tools for Teachers**" from 10-01-2024 to 16-01-2024, Organized by St. Thomos College College, Palai.
- ❖ Participated in One week Faculty Development Program on "**DESIGN THINKING AND INNOVATION**" from 18-06-2024 to 22-06-2024, Organized by Narasaraopeta Engineering College (Autonomous) Narasaraopet.
- ❖ Participated in One Week Online FDP on "**Advancements in Thermal and Renewable Energy Technologies (ATRET-2022)**" from 04-07-2022 to 9-07-2022, Organized by Department of Mechanical engineering, Lakireddy Bali Reddy College of Engineering, Mylavaram.

- ❖ Participated in a DST – SERB sponsored One Week Short Term Program on “**Bio –Fuels and Fuel Cell Fundamentals and Applications**”, Conducted by Centre for IC Engines & Automotive Research, Department of Mechanical Engineering and Department of Chemical Engineering, Annamalai University, during 3rd to 9th December 2018.
- ❖ Participated in a two-day national level workshop on” **Advanced automotive technologies and open surgery of an IC Engine**” which was conducted by Vignan’s institute of Information Technology Visakhapatnam on 18th and 19th of Feb 2016.

Internal

- ❖ Participated in one-week AICTE sponsored ATAL FDP on “**Machine Learning and its prospects in Manufacturing & Industry 4.0**” from 10-02-2025 to 15-02-2025, Organized by Department of Mechanical engineering, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru.
- ❖ Participated in Online Faculty Development Programm on "**Machine Learning Applications in Mechanical Engineering**" from 03-02-2025 to 14-02-2025, Organized by Department of Mechanical engineering, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru in association with I&CT NIT Warangal.
- ❖ Participated in one-week online Faculty Development Programme on "**Applications of Artificial Intelligence and Machine Learning in Mechanical Engineering**" from 06-03-2023 to 10-03-2023, Organized by Department of Mechanical engineering, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru.
- ❖ Participated in Two-week Skill Development Programme on “**CATIA**”, from 18-07-2022 to 30-07-2022, Organized by Department of Mechanical engineering, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru.
- ❖ Participated in one-week Virtual Faculty Development program on "**Emerging trends in Mechanical Engineering**", from 20-06-2022 to 26-06-2022, Organized by Department of Mechanical engineering, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru.
- ❖ Participated in One Week Faculty Development Programme on “**Recent Trends in Thermal Engineering**”, from 06-09-2021 to 10-09-2021, Organized by Department of Mechanical engineering, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru.
- ❖ Participated in three-day Online Faculty development program on “**Recent trends in Electric Vehicles-Phase-I**” from 17th to 19th March,2021, Organized by Department of Mechanical engineering, Gudlavalleru Engineering College, Gudlavalleru.
- ❖ Participated in two-day Faculty development program on “**Design and Analysis of Experiments**” on 30th August, 2019 at Gudlavalleru Engineering College, Gudlavalleru.
- ❖ Participated in two-day Faculty development program on “**Advances in Manufacturing**” on 16th and 17th November 2018 at Gudlavalleru Engineering College, Gudlavalleru.

- ❖ Participated in one-day workshop on "**Characterisation of metal matrix Composites**" on 11th Aug 2018 at Gudlavalleru Engineering College, Gudlavalleru.
- ❖ Participated in one-week Refresher course on "**Computational Fluid Dynamics**" from 18th to 23rd June 2018 at Gudlavalleru Engineering College, Gudlavalleru.
- ❖ Participated in two-day faculty development program on "**Matlab and its Applications**" on 8th and 9th Feb 2018, at Gudlavalleru Engineering college, Gudlavalleru.
- ❖ Participated in one-day workshop on "**Outcome based Education**" on 9th Dec 2017, at Gudlavalleru Engineering College, Gudlavalleru.
- ❖ Participated in two-day Faculty Development Program on "**Training on Progecad**" on 6th and 7th DEC 2017 at Gudlavalleru Engineering college, Gudlavalleru.
- ❖ Participated in one-week refresher course on "**Finite Element Analysis**" from 19th to 24th June 2017 at Gudlavalleru Engineering College, Gudlavalleru.

CERTIFICATIONS:

- ❖ NPTEL Certification in 8 week course on "Steam Power Engineering"
- ❖ NPTEL Certification in 8 week course on "Refrigeration & Air conditioning"
- ❖ NPTEL Certification in 12 week course on "IC Engines and Gas Turbines"
- ❖ NPTEL Certification in 12 week course on "Steam and Gas power systems"
- ❖ NPTEL Certification in 4 week course on "Laws of Thermodynamics"

GUEST LECTURES DELIVERED: Nil

MEMBERSHIP IN PROFESSIONAL BODIES:

- ❖ Member in Institute of Engineers(**IE**) India
- ❖ Member in Society for Automotive Engineers(**SAE**) India

CONSULTANCY ACTIVITIES: Nil

GRANTS FETCHED: Nil

