

CURRICULUM VITAE**PERSONAL DETAILS**

Name : Dr.R.JYOTHUNAIK
 Father's Name : BABUNAIK
 Permanent Address : H.No-3-318
 Peta sannu gandla thanda,
 Karempudi mdl
 guntur (Dist.)-A.P
 Mobile: +91 9948504603
 Email: jyothu.naik@gmail.com,
 Date of Birth : 09-06-1988
 Nationality : Indian
 Marital Status : Married

**Career Objective:**

To utilize my teaching skills towards a challenging career in growth oriented and leading edge that will provide mutual benefits and where from I can utilize my capabilities to the fullest benefits of the organization and society.

Academic Profile:

Qualification	Branch / Specialisation	College / University	Year of Passing	% / CGPA
Ph.D. (Full-Time)	Mechanical (Thermal Engineering)	JNTUA, Ananthapuramu.	2022	-
M.Tech	Mechanical (Thermal Engineering)	VRSEC, Vijayawada	2012	7.24 CGPA
B.Tech	Mechanical Engineering	Narasaraopet Egg College Narasaraopeta	2009	55%
Inter	MPC	Sai Krishna jr. college, Karempudi, A.P	2005	55%
S.S.C	S.S.C	Kranthi res. School karempudi, A.P	2003	61%

EXPERIENCE

Sl.No	Name of the Institute	Designation	Period
1.	Narasaraopet Engineering college, Narasaraopet	Assistant Professor	25.09.2011 To 29.05.2017
2.	Jawaharlal Nehru Technological University, Anantapur.	Full Time, Research Scholar	01.07.2017 To 01.07.2020
3.	Jawaharlal Nehru Technological University, Narasaraopet	Guest lecture	01.02.2021 To 01.07.2021
4.	Rayalaseema University College of Engineering Kurnool.	Assistant Professor (Ad hoc)	05.07.2021 To Till date.

Subject taughted

- Engineering Drawing
- Thermodynamics
- Applied Thermodynamics
- Thermal Engineering I
- Fluid Mechanics and Hydraulic Machinery
- Heat Transfer
- Refrigeration & Air conditioning
- Automobile Engineering

Labs handled

- FM&HM
- IC Engine
- Heat transfer

REVIWER / EDITOR BOARD MEMBER IN JOURNAL's

1. Reviewer in “The Archives of Automotive Engineering”,(Archiwum Motoryzacji Publishing Group).
2. Reviewer in “International Journal of Sustainability and Engineering.(Taylor & Francis)
3. Editorial Board member in “Engineering & Technology Journal”, ISSN: 2456 – 3358, (Everant publishers Pvt Ltd.).
4. Reviewer in “The International Journal of Creative Research Thoughts (IJCRT)”, ISSN-2320-2882.

Workshops/Traning Programs Attended:

Sl. No.	Workshops / Training Programs	Organized	Date of Program
1	2-Days Workshop on Research Writing: Theory & Praxis	RGMCET, Nandyal.	15.09.207 To 16.09.2017
2	One week workshop on Computational Mathematics in Engineering	RGMCET, Nandyal.	24.10.2017 To 30.10.2017
3.	Two days guest lecture on Internal combustion engine and alternative fuels	RGMCET, Nandyal.	25.09.2017
3	One day workshop on Dealing with Millennial Learners	RGMCET, Nandyal.	08.12.2017 To 09.12.2017
4	One Week Workshop on (Induction/Refresher Program sponsored by ISTE/AICTE) Advances in Mechanical Engineering	RGMCET, Nandyal.	23.08.2018 To 28.08.2018
5	Two week Orientation Program n Research Methodology & Intellectual	JNTUA, Ananthapuramu	28.05.2018 To

	Property Rights		09.06.2018
6.	One week Workshop on (Induction/Refresher Program sponsored by ISTE/AICTE) “RESEARCH METHODOLOGY, DESIGN AND ANALYSIS OF EXPERIMENTS”	RVR&JC Guntur	12.11.2018 To 17.11.2018
7.	One week workshop on MATLAB programming for Beginners	RGMCET NANDYAL	22.07.2019 To 26.07.2019
8.	Two week FDP on sponsored by (AICTE) Advanced in materials and manufacturing technology [AMMT]	RGMCET NANDYAL	11-11-2019 To 23-11-2019
9.	National Conference on IC Engines and Combustion (NCICEC-2019)	NIT kurukshetra	01.11.2019 To 04.11.2019
10	National Conference on IC Engines and Combustion (NCICEC-2019)	Dr. B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR	20.08.2021 To 23.08.2021
11	Five faculty Development program on Recent trends in thermal engineering	Seshadri Rao GEC, GUDLAVALLERU	06.09.2021 To 10.09.2021
12	A Five Day National Level Online Faculty Development Program on “Emerging trends in Automotive and Energy Systems”	Sree Vidyanikethan Engineering College (Autonomous), Tirupati.	23.08.2021 To 27.08.2021

NATIONAL / INTERNATIONAL JOURNAL PUBLICATIONS

1. Ramavathu JyothuNaik, and Thirupathi Reddy Kota. "Combustion performance and emission characteristics on HCCI engine of waste plastic pyrolysis oil biodiesel blends with external PFI and vaporiser." *International Journal of Sustainable Engineering* (2019):1-14.
DOI: 10.1080/19397038.2019.1674942. **(ESCI) (Taylor & Francis).**
2. Ramavathu JyothuNaik, and Thirupathi Reddy Kota. Influences of pilot injection, main injection and EGR on performance combustion and emissions in a HCCI-DI combustion engine using with Diesel and WPPO biodiesel blends. *International journal of ambient energy*, Vol.41 issue 5, <https://doi.org/10.1080/01430750.2020.1736153>, 2020. **(ESCI) (Taylor & Francis).**
3. Ramavathu JyothuNaik, and Thirupathi Reddy Kota. Early pilot direct injection and Port fuel injection and vaporizer techniques in HCCI combustion engine using waste plastic pyrolysis oil biodiesel blend. *International journal of ambient energy*, **(ESCI) (Taylor & Francis) UnderReview.**
4. Ramavathu JyothuNaik, and Thirupathi Reddy Kota. Effect of EGR and constant Pre-heated air temperature (PHAT) on PFI-HCCI combustion engine with Diesel and WPPO 20 blend. *International journal of ambient energy*, **(ESCI) (Taylor & Francis) UnderReview.**
5. Ramavathu JyothuNaik, and Thirupathi Reddy Kota (2019): Experimental Study on the Effect of Inlet Air Temperature on Waste Plastic Pyrolysis Oil with Diesel Fuelled HCCI Combustion Engine, *International Journal of Recent Technology and Engineering (IJRTE)*, ISSN: 2277-3878, Volume-7, Issue-ICETESM, March 2019. **(SCOPUS).**
6. R.JyothuNaik, and Thirupathi Reddy Kota(2020): Prediction of the WPPO Biodiesel-Fuelled HCCI Engine Using Artificial Neural Networks." *Intelligent Manufacturing and Energy Sustainability*. Springer, Singapore, https://doi.org/10.1007/978-981-15-1616-0_60, 623-631. **(SCOPUS) SPRINGER.**
7. Comparison of port fuel injection with fuel vaporizer and early pilot injection techniques in HCCI combustion engine. *IJTEE*, **(SCOPUS) (Accepted).**
8. Ramavathu, Jyothunaik, and Thirupathi Reddy Kota. A review on diesel homogeneous charge compression ignition engine *Academia Journal of Scientific Research* 6(8): 321-328, August 2018, DOI: 10.15413/ajsr.2018.0142, ISSN 2315-7712. (UGC APPROVED) [Indexed by CABI.](#)
9. Ramavathu, JyothuNaik, and Thirupathi Reddy Kota. Low Temperature Combustion: A Review, *journal of advancement in engineering and technology*, DOI: 10.5281/zenodo.1467458, 2018.(UGC APPROVED).
10. Ramavathu, JyothuNaik, and Thirupathi Reddy Kota. Performance and emission characteristics and optimal factors determination with Taguchi technique for homogeneous charge compression ignition (HCCI) fuelled with waste plastic pyrolysis oil with diesel. *Acad. J. Sci. Res.* 7(10): 559-566, 2019 (UGC APPROVED) [Indexed by CABI.](#)

11. Naik, R. Jyothu, B. L. V. S. Gupta, and G. S. Sharma. "Exergy analysis of 4.5 MW biomass-based steam power plant." *J. Human Soc. Sci* 1 (2012): 1-4. (UGC APPROVED) **cited by 9.**
12. Naik, R. Jyothu, et al. Exergy analysis of 120 MW coal based thermal power plant. *International Journal of Engineering Research & Technology*. (UGC APPROVED) **cited by 2.**
13. Naik, R. Jyothu, et al. Optimization of casting parameters for casting of Al/RHA/RM hybrid composites using Taguchi method. *International Journal of Engineering Trends and Technology (IJETT)*-Volume4 Issue8. (SCOPUS) **cited by 9.**

Papers Published in International Conferences:

1. Experimental Study on the Effect of Inlet Air Temperature on Waste Plastic Pyrolysis Oil with Diesel Fuelled HCCI Combustion Engine, 2nd international conference on emerging trends in engineering, science & Management- 2018, ISBN: 978-81-938463-2-2.
2. Comparison of port fuel injection with fuel vaporizer and early pilot injection techniques in HCCI combustion engine. National conference on internal combustion engines and combustion. NCICEC-2019, NIT Kurushkhetra, November, 1-4, 2019.
3. Prediction of the WPPO Biodiesel Fuelled HCCI Engine Using Artificial Neural Networks. International Conference on Intelligent Manufacturing and Energy Sustainability (ICIMES-2019), ISSN: 2190-3018.
4. Effect of EGR and constant Pre-heated air temperature (PHAT) on PFI-HCCI combustion engine with Diesel and WPPO 20 blend". 2nd International Conference on "CHEMICAL, BIO & ENVIRONMENTAL ENGINEERING (CHEMBIOEN-2021)" Dr B R Ambedkar National Institute of Technology, Jalandhar, August, 20-23, 2021.
5. Function of fuzzy logic in homogeneous charge compression ignition (HCCI) Engine to predict the engine exhaust emission No_x. 2nd international conference on emerging trends in engineering, science & Management- 2018, ISBN: 978-81-938463-2-2.
6. An experimental investigation on the performance and emission characteristics of CRDI diesel engine fuelled with Ethanol, AOME Biodiesel and Diesel blends, 2nd international conference on emerging trends in engineering, science & Management- 2018, ISBN: 978-81-938463-2-2.
7. Experimental Analysis On 4-Stroke Single Cylinder Diesel Engine Blended With Neem Oil And Nano Powder. Proceedings of International Conference on Recent Trends in Mechanical Engineering-2K15 (NECICRTME-2K15).
8. Experimental Investigation On 4-Stroke Single Cylinder Diesel Engine Blended With Tyre Oil. Proceedings of International Conference on Recent Trends in Mechanical Engineering-2K15 (NECICRTME-2K15).

9. [Analysis of rivets by using finite element analysis](#). Proceedings of International Conference on Recent Trends in Mechanical Engineering-2K15 (NECICRTME-2K15).
10. [Finite element analysis of gasoline engine piston using reinforced aluminum metal matrix composites](#). Proceedings of International Conference on Recent Trends in Mechanical Engineering-2K15 (NECICRTME-2K15).
11. [Analysis of Flow in a De Laval Nozzle Using Computational Fluid Dynamics](#). Proceedings of International Conference on Recent Trends in Mechanical Engineering-2K15 (NECICRTME-2K15).
12. PERFORMANCE AND EMISSION CHARACTERISTICS OF DIESEL ENGINE WITH LINSEED OIL-DIESEL BLENDS AS FUEL with VCR. International Conference on Emerging Trends in Mechanical Engineering and industrial automation-2K21 (ICETMEIA-2K21).30-31 JULY 2021.
13. EXPERIMENTAL INVESTIGATION IN SINGLE CYLINDER VCR MULTIFUEL ENGINE USING BIO-DIESEL AS LINSEED OIL. International Conference on Emerging Trends in Mechanical Engineering and industrial automation-2K21 (ICETMEIA-2K21).30-31 JULY 2021.

Computer Skills:

Operating Systems	:	Windows 10
Tools	:	MS-Office.
Engine Software Package software	:	Lab view based Engine Performance Analysis package Engine soft

Achievements/Awards:

- Holder of National Fellowship Schedule Tribal (NFST) during Ph.D.
- Has been selected for National Fellowship Schedule Tribal (NFST).

Declaration:

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.

Place: Karempudi

Date: 27.03.2022

(R JYOTHUNAIK)