

VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY



Name: Dr. Kode Jaya Prakash

Designation: Assistant Professor

Department: Mechanical Engineering

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Experience (in years): Teaching: 11 Years Research: 1 Year Others (If any, Specify):

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1.	B.Tech	2007	Mechanical Engineering
2.	M.Tech	2009	Advanced Manufacturing Systems
3.	Ph.D (Awarded)	2021	Additive Manufacturing / 3D Printing

2. Teaching and Learning:

2.1. Teaching Interests: Metal Cutting, Additive Manufacturing

2.2. Novel Teaching & Learning Techniques adopted: NPTEL Lectures, POGIL, PPT'S

2.3. Involvement in curriculum updating / Design: ----

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

- Collecting Technical videos regarding Assembly & Manufacturing of Automobiles
- Long Drives, Reading Books

3.2. CCA/ECA Organized: ---

3.3. CCA/ECA participated:----

3.4. Counseling and Mentoring Activity:

- Have been actively contributed in Mentoring students for professional life.
- Have motivated students in having regular seminars in the Department on emerging topics. Counseling Students regarding professional and personal issues.

3.5. Committees involved in:

Department level: Canteen Committee Member

Institute Level: Member in Anti-Ragging Committee

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Workshops Conducted:

- 19th to 20th March 2015 at VNR VJIET Hyderabad on “3D Printing” under TEQIP-II
- 25th to 27th February 2016 at VNR VJIET on “ Finite Element Methods in Mechanical Engineering”
- 3rd to 5th May 2016 at VNR VJIET on “Additive Manufacturing shaping the Future”.
- 21st to 25th November 2017 at VNR VJIET on “A Short Term Training Programme on ADAMS Software”
- 11th to 15th December 2017 at VNR VJIET on “Engineering Drawing Through AUTOCAD”
- 5th to 6th October 2018 at VNR VJIET on “3D Printing Workshop” under CONVERGENCE 2K18.
- 8th March 2019 at VNR VJIET on Mechzeal under ASME under Department of Mechanical Engineering, VNR VJIET.
- 25th to 29th November 2019 at Department of Mechanical Engineering, VNR VJIET on “Short Term Training Programme on 3D Printing Processing and Applications”.
- Resource Person for FDP on “3D Printing for Industrial & Biomedical Applications” held at VNR VJIET, Hyderabad in Association with NIT- Patna during 2nd to 6th December 2019.

- 27th to 28th October 2020 Organized and Co-coordinator for International Conference on Sustainable Development in Mechanical Engineering (SDME 2020) at Department of Mechanical Engineering, VNR VJIET.
- 15th – 19th February 2021 Organized and Co-Coordinator for AICTE Training and Learning (ATAL) Academy Faculty Development Programme on 3D Printing and Design, at Department of Mechanical Engineering, VNR VJIET.

4.2 Attended:

- Workshop attended from 18th to 29th June 2012 at VNR VJIET Hyderabad on AICTE Sponsored “ Faculty Development Programme (FDP) in Entrepreneurship” conducted by the department of mechanical engineering.
- Workshop attended from 3rd to 15th June 2013 at VNR VJIET Hyderabad on AICTE Sponsored “Finite Element Applications in Civil Engineering” conducted by the department of civil engineering.
- Faculty Development Programme attended from 28th to 29th November 2013 at VNR VJIET Hyderabad on “Insights into Finite Element Analysis using ABAQUS Software” under TEQIP-II conducted by the department of mechanical engineering.
- Workshop attended from 16th to 17th December 2013 at VNR VJIET Hyderabad on “Additive Manufacturing” conducted by the department of mechanical engineering.
- Workshop attended from 19th to 21st December 2013 at VNR VJIET Hyderabad on “Non Destructive Testing” conducted by the department of mechanical engineering.
- National Workshop attended from 9th to 11th January 2014 at NIT Warangal on “Friction Stir Welding, NDT and Optimization” under TEQIP II conducted by the department of mechanical engineering.
- Workshop attended from 19th to 20th March 2015 at VNR VJIET Hyderabad on “3D Printing” under TEQIP-II conducted by the department of mechanical engineering.
- National Workshop attended from 5th to 9th May 2015 at NIT Warangal on “3D Printing- Hands on Experience” under TEQIP II conducted by the department of mechanical engineering.
- Attended two week ISTE STTP on Introduction to Structural Engineering conducted by Indian Institute of Technology Kharagpur from 30th November 2015 to 9th January 2016.

- Workshop attended from 25th to 27th February 2016 at VNR VJIET Hyderabad on “Finite Element Methods in Mechanical Engineering” under TEQIP-II conducted by the department of mechanical engineering.
- Workshop attended from 29th February to 5th March 2016 on “Composite Materials & its applications” at Anurag Group of Institutions, Ghatkesar, Hyderabad conducted by the department of Mechanical Engineering.
- Workshop attended from 9th to 11th March 2016 at VNR VJIET Hyderabad on “Recent Trends and Research Opportunities in Manufacturing Processes ” conducted by the department of Automobile Engineering.
- Workshop attended from 5th December to 10th December 2016 on “Hyper-Works & Computational Fluid Dynamics” at St.Martin’s Engineering College, Dhulpally, Secunderabad, conducted by the department of Mechanical Engineering.
- Workshop attended from 30th January to 1st February 2017 on “Advances in Research and Innovations in Mechanical Engineering” at Muffakham Jah College of Engineering & Technology, Hyderabad conducted by the department of Mechanical Engineering.
- Attended faculty development programme from 5th to 10th June 2017 on “3D Printing Technology in Engineering Education” under PMMMNMTT scheme conducted by Department of Mechanical Engineering at NIT Warangal.
- Attended faculty development programme from 25th to 29th June 2018 on “Computational Tools for Engineering Applications” at VNR VJIET Hyderabad conducted by Department of Mechanical Engineering.
- Attended faculty development programme from 1st to 5th April 2019 on “Mastercam and Cimco DNC” at VNR VJIET Hyderabad conducted by Department of Mechanical Engineering.
- Attended GIAN Course from 15th to 19th July 2019 on “Medical Prototyping using 3D Printing” conducted by Department of Mechanical Engineering at NIT Warangal.

- Attended faculty development programme from 24th to 28th September 2019 on “Automation Studio Software” at VNR VJMET Hyderabad conducted by Department of Mechanical Engineering.
- Attended faculty development programme from 19th to 23rd November 2019 on “Development, Characterization and Analysis of Composites” at VNR VJMET Hyderabad conducted by Department of Mechanical Engineering.
- Attended Faculty Development programme from 13th to 18th July 2020 on “Teaching and Learning of Additive Manufacturing Technology: Emphasis on Metal 3D Printing” conducted by Department of Mechanical Engineering at NIT Warangal.
- Attended AICTE Sponsored One week Online STTP Programme from 17th August- 22nd August 2020 on “ Powder Metallurgy Technologies for 3D Printing” Conducted by Department of Mechanical Engineering, Mepco Schlenk Engineering College, Sivakasi.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures:

5.2. Articles/Chapters published in Books:

5.3. Books published as single author or as editor:

5.4. Projects Guided:

a) UG: 08

b) PG: 05

5.5. Research Interests: Additive Manufacturing

Consultancy Works Done: 3D Printed RPT Model DUNEZE R & D Australia, to M/S Jytra Technology Solutions Pvt. Ltd on 2nd November to 20th November 2017 with a worth of Rs 20,000/-

5.6. Ph.D students:

a) Enrolled:

b) Submitted:

c) Awarded:

5.7. Papers published in reviewed Journals:

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	A Comparative Study of Manual and Automated System of a Solar Semiconductor Module Manufacturing Unit- A Case Study	International Journal of Mechanical & Automobile Engineering Vol. 5 pp: 53-63	0974- 231X	0.54	International
2	Development of Mechanical System for Automated Commando Training System	International Journal of Advances in Science and Technology Vol 4 pp: 81-92	2229-5216	1.2	International
3	A Review of Friction Stir Welding Process & its Variables	International Journal of Science & Research, Vol. 2, pp. 375-379	2319- 7064	2.2	International
4	A Review on Recent Developments in Wire	International Journal of	2319- 7064	2.2	International

	EDM	Science & Research, Vol. 3, pp. 973-976			
5	Modeling of a walking robot for a 3D Printer	International Journal of Innovative and Futuristic Research, Vol.2, pp.3821-3828	2347- 1697	3.0	International
6	Modelling and Additive Mnaufacturing of a Missing Teeth Human Mandible	International Journal of Engineering and Advanced Technology	2249- 8958	4.0 Scopus	International
7	Advancement of 3D Printing Technology in Dentistry- A Review	Journal of Mechatronics, Machine Design and Manufacturing	2214-7634	0.64	International

5.8. Papers presented at National / International Conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Design and Modeling of the RTU Unit for Automated Commando Training Systems	International Conference on Material Processing & Characterization (ICMPC-2012)	International	March 2012

2	Analysis, Simulation and Fabrication of the RTU Unit for Automated Commando Training Systems	International Conference on Material Processing & Characterization (ICMPC-2012)	International	March 2012
3	Component Replication using 3D Printing Technology	International Conference on Nano materials and Technologies (CNT-2014)	International	October 2014
4	Comparative Study of Manual and Automated Process of a Solar Semiconductor Module Assembling Unit	National Conference on Advances in Manufacturing Engineering (NCAME-2010)	National	December 2010
5	Analysis of TQM Concepts in Technical Education	Recent Advancement in Manufacturing Engineering & Technology (RAMET-2011)	National	January 2011
6	Optimization of Process Parameters and Experimental Investigations in Turning of 6351 Aluminium Alloy with Dry, Flooded and Minimum Quantity Lubrication (MQL) Conditions on Cutting Temperature and Chip Morphology	Recent Advancement in Manufacturing Engineering & Technology (RAMET-2011)	National	January 2011

7	Additive Manufacturing of a Walking Robot Using a 3D Printer	International Conference on Emerging Trends in Mechanical Sciences (ICEMS-2015)	International	December 2015
8	Design and Manufacturing of a chess coin through CAD/CAM Integration Software	International Conference on Trends in Industrial and Mechanical Engineering	International	February 2016
9	Manufacturing of a Powerless Amplifier using 3D Printing Technology	International Conference on Technological Innovations in Mechanical Engineering (TIME 2016)	International	February 2016
10	A Review on 4D Printing: The Next Industrial Revolution	International Conference on Emerging Trends in Mechanical Engineering	International	January 2020
11	Functional Testing and Evaluation of Additively Manufactured hand drill body Prototype, Materials	SDME 2020	International	October 2020

	Today: Proceedings, Scopus Indexed.			
12	Additive Manufacturing of a Human Mandible and Finite Element Analysis of Dental Implant for Prosthodontic Applications” Materials Today: Proceedings, Scopus Indexed.	SDME 2020	International	October 2020

5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

6. Awards / Honors received:

7. **Motto:**When nothing goes right.....

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