

Name: M. Venkaata Ramana

Employee ID: A5MEC00T09

Designation: Associate Professor

Department: Mechanical Engineering

Date of Birth: 01-06-1976

Father Name: M. Apparao

Mother Name: M. Sarojini

Reservation Category if Any

BC-D

SC

ST

BC- A/B/C/D/E

OC

Address: Santhabommali (V/P/M), Srikakulam-532195, A. P.

Mobile Number: 9494163949

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Date of Joining in the Institution: 01-12-2006

Academic Excellence:

QUALIFICATION	BOARD UNIVERSITY /	DIVISION	YEAR
M. Tech (TE)	JNTUK	FIRST class	2013
B. Tech(MECH)	JNTU, Hyderabad	FIRST class	2002
Diploma (MECH)	SBTET, Hyderabad	FIRST class	1997

Total Years of Experience (Teaching/Industry): 15 Years

Period	Organization/Institution	Designation
Dec 2014	Till date	AITAM, Tekkali
Dec 2012	Dec 2014	AITAM, Tekkali
Dec 2006	Dec 2012	AITAM, Tekkali

Areas of Interest:

1. Machine design-I
2. Machine design-II
3. Fluid mechanics
4. Solar energy
5. Mechanics of Solids
6. Machine Drawing
7. Engineering Drawing
8. Material Handling Systems
9. Alternative Energy Sources
10. Industrial hydraulics and Pneumatics
11. Fuels and Combustion
12. Energy management



Guidance of Academic Projects:

- i) Doctoral Projects : -
- ii) Masters Projects : 10
- iii) Bachelor Projects : 20

Sponsored Research Projects:-**Honors and awards received: -****Memberships of Professional Societies and Other Organizations:**

IE (India)

Other Responsibilities:

1. Industrial Tour In-charge from 2008-09.
2. Departmental NBA Co- coordinator (2007-10)
3. Alumini coordinator 2008 to 2016
4. Placement In-charge 2010 to 2016
5. Departmental discipline In-charge.
6. PG Coordinator 2012-2016
7. Department Sports Coordinator
8. Cultural Coordinator
9. Transport officer 2016 to till date

Details of Book Publications: -**Details of Publications:**

1. "Performance and Emission Study on DI-CI engine run with Blended Fuel of Biodiesel (PME) – Diesel", International Journal of Engineering, Research and Technology, ESRSA Publications, Volume 2, Issue 10, pp.2932-2940, October 2013.
2. "Experimental Analysis on DI-Diesel engine runs with the combination of blended fuel with palm methyl ester, diesel and ethanol to estimate combustion performance and tail pipe emission.", International Journal of Advanced research in engineering & technology, IAEME publications, Volume 5, Issue1, January 2014.

3. "The Role of Oxygenated Fuel Additive (DEE) along with Palm Methyl Ester and Diesel to Estimate Performance and Emission analysis of DI-Diesel Engine", International Journal of Engineering, Research and Technology, ESRSA Publications, Volume 3, Issue 1, pp.33-43, Jan2014.
4. "Design and experimental analysis of adhesively bonded single riveted lap joint" IJESRT, ISSN:2277-9655, 4(1) January, 2015.
5. Thermal and Fluid Flow Analysis of Washing Machine Using CFD, IJAER, ISSN:0973-4562, Volume 10, Number 21 (2015) pp 42428-42433.
6. Experimental Study on Thermal Efficiency of Flat Plate Solar Collector Using Water, Ethylene Glycol and Sic Nano powder, IJAER, ISSN:0973-4562, Volume 10, Number 20 (2015) pp 41600-41607.
7. Weld bead characterization and influence of process parameters of Friction stir welds of dissimilar materials between AA6061 and AA7175 Al alloys. IJAER, ISSN: 0973-4562, Volume 10, Number 23 (2015) pp 43813-43817.
8. Numerical Analysis of The Flow Pattern with in The Impeller of A Centrifugal Blower, IJAER, ISSN:0973-4562, Volume 10, Number 21 (2015) pp 42396-42403.
9. Performance and Thermal Analysis of one shell two tube pass heat exchanger with ethylene glycol and SIC Nano fluid, IJAER, ISSN:0973-4562, Volume 11, Number 4 (2016) pp 2587-2594.
10. Experimental Investigation of Thermal properties of sisal fiber reinforced composite and effect of Sic filler material, IOP Science, IOP conf.series: Material science and engineering 149 (2016) 012095 doi:10.1088/1757-899X/149/1/012095.
11. Experimental Investigation of Thermal properties of sisal fiber reinforced composite and effect of Sic filler material, IJRASET, volume 4 issue X, October 2016, ISSN:2321-9653.
12. Pressure drop in shell side of shell and tube heat exchanger, IJMETMR, ISSN:2348-4845, volume No:4 (2017) issue No:3, (March) page No:268-281.
13. Numerical and heat transfer analysis of shell and tube heat exchanger with CUO as NANO fluid, IJMETMR, ISSN:2348-4845, volume No:4 (2017) issue No:3, (March) page No:282-292.
14. Performance study on Automotive Radiator by the modification of fin geometry and coolant, Journal of Mechanical and Production Engineering Research and Development (IJMPERD),ISSN (P): 2249-6890; ISSN (E): 2249-8001,Vol. 8, Issue 4, Aug 2018, 919-928.
15. CFD simulation of flow and heat transfer of two phase Nano fluid in heat exchanger, © 2018 JETIR December 2018, Volume 5, Issue 12, www.jetir.org (ISSN-2349-5162). Journal of Emerging Technologies and Innovative Research (JETIR).

16. Experimental Investigation on Forced Convective Heat Transfer Coefficient of a Nano fluid, Materials Today: Elsevier Proceedings 4 (2017) 8717–8723.
17. Performance predictions of adiabatic flow of isobutene inside a helically coiled capillary tube : artificial neural networks. Rankine 2020conference – Advances in cooling, Heating and power generation, 27th -31 july2020.

Details of Conferences / Workshops / Refresher Courses Organized:

1. Acted as a co convener for DST National conference at Aditya Institute of Technology and Management in March 5th and 6th 2016 on Nano Manufacturing. (Science & Engineering Research Board (SERB) sanction order no. SB/SS/1552/15-16 dated 11-01-2016)

SEMINARS, FACULTY DEVELOPMENT AND SHORT TERM TRAINING PROGRAMS ATTENDED

S. No.	Name of the Workshop/FDP	Venue/ Conducted by	Month & Year
1	National Conference on Nano Manufacturing	AITAM, Tekkali	5 th to 6 th March, 2016
2	Five-Day Faculty Development Program on Advances and Applications of Composites, Nano Materials and Nano Fluids	AITAM, Tekkali	17 th to 21 th December, 2015
3	“Fundamentals of FEM overview, Theory And Concepts with Demonstrations”	IIT Hyderabad	July 23 rd to 25 th ,2015.
4	Five-Day Faculty Development Program on Fuel cell Technology	AU, Visakapatnam	6 th to 10 th April,2015
5	Workshop on Outcome Based Education	AITAM, Tekkali	9 th March,2015
6	Two days seminar on Twenty First Century, the Dawn of Digital Era	AITAM, Tekkali	15 th to 16 th Nov, 2014
7	“Future Paradigms in Engg , Road Maps for Manufacturing And Design , Engines , Thermo- fluids and service sectors”	MCKV Institute of Engg.Howrah	19 th &20 th July 2014
8	Two-Day Faculty Development Program on Enhancing Quality of Technical Education and Research	IIT, Hyderabad	7 th and 8 th March 2014
9	Two day Faculty Development Program on New Horizons in Mechanical Engineering	AITAM, Tekkali	22 nd and 23 rd March 2013
10	One day Workshop on Machinery condition Monitoring-2013	AU, Visakapatnam	14 th March 2013
11	Workshop on Outcome Based Education	AITAM, Tekkali	19 th January 2013
12	Mission 10X workshop	AITAM, Tekkali	24 th to 28 th April 2012
13	Two Day National level Staff Development Program on Computational Fluid Dynamics and its Applications	AITAM, Tekkali	30 th to 31 ^{sh} March, 2012

14	Two day AICTE sponsored workshop on Nanotechnology and its Applications	AITAM, Tekkali	12 th & 13 th March'2010
15	Three day workshop on Faculty Development Program	AITAM, Tekkali	20 th to 22 nd Feb 2008

Details of Conferences / Workshops / Refresher Courses Attended: -

Sl. No.	Dates	Name of The Programme	Host Institution
1	11/05/2020 to 13/05/2020	Recent Trends in Robotics and Intelligent Manufacturing.	Lendi Institute of Engineering and Technology, Vizianagaram.
2	15/06/2020 to 19/06/2020	Research Trends in Image Processing.	GATES Institute of Technology, Ananthapuramu.
3	18/05/2020 to 22/05/2020	Role of IOT, Embedded, Electric Vehicle and Power electronic Converters for Smart World.	St. Joseph's College of Engineering, Chennai.
4	18/05/2020 to 22/05/2020	"Innovation and Research Trends in Mechanical Engineering (IRTME).	Kallam Haranadhareddy Institute of Technology, Guntur.
5	18/05/2020 to 22/05/2020	Introduction to Data Science.	Guntur Engineering College.
6	18/05/2020 to 20/05/2020	Tools For Online Classroom Post Covid-19.	P.B.Siddhartha College of Arts & Science, Vijayawada.
7	21/05/2020 to 23/05/2020	Outcome Based Education Systems-A Roadmap to Teaching, Learning, valuation & Accreditation.	Lendi Institute of Engineering and Technology, Vizianagaram.
8	26-05-2020 to 30-05-2020	"Emerging Technologies in Mechanical Engineering".	Vemu Institute of Technology, Chittoor.
9	28/05/2020 to 30/05/2020	NAAC Assessment and Accreditation: A Step by Step Process .	GATES Institute of Technology, Ananthapuramu.
10	01/06/2020 to 05/06/2020	Advanced Manufacturing Enterprise in Dgital Era.	Aditya Institute of Technology and Management, Tekkali
11 12	06/06/2020 to 10/06/2020	Advances in Materials for Engineering Applications.	Vignan's Institut of Engineering for Women.
13	0/06/2020 to 10/06/2020	"Fluid & Structural Simulation using CRADLE".	Lakireddy Bali Reddy College Of Engineering, Mylavaram.

14	08/06/2020 to 12/06/2020	Recent Innovations and Technologies in Electric Vehicles.	GATES Institute of Technology, Ananthapuramu.
15	08/06/2020 to 12/06/2020	“Skill Development for Effective Research and Teaching - Learning Process”.	Anil Neerukonda Institute Of Technology & Sciences, Visakhapatnam.
16	09/06/2020 to 13/06/2020	Contemporary Developments in Manufacturing Processes, Sustainable Manufacturing and Industrial Technologies.	Pragati Engineering College
17	09/06/2020 to 13/06/2020	Design Of Solar PV System Using PVSYST Software.	Vaagdevi College of Engineering.
18	15/06/2020 to 20/06/2020	Research Trends in Mechanical Engineering.	Gudlalleru Engineering College, Gudlalleru.
19	17/06/2020 to 23/06/2020	Open Modelica and OpenIPSL.	VKR, VNB & AGK College of Engineering, Gdivada.
20	22/06/2020 to 27/06/2020	Effective Research Writing using LaTeX.	Pragati Engineering College.
21	29/06/2020 to 03/07/2020	Imminent Trends in Mechanical Engineering.	Kommru Pratap Reddy Institute of Technology, Hyderabad.
22	29/06/2020 to 03/07/2020	Emerging Research Areas in Mechanical Engineering.	CMR Technical Campus, Hyderabad.
23	04/07/2020 to 10/07/2020	Advancements in Mechanical Engineering.	GATES Institute of Technology, Ananthapuramu.
24	06/07/2020 to 10/07/2020	Recent Advances in Mechanical Engineering: A Research Perspective.	Mahatma Sandhi Institute of Technology, Hyderabad.
25	06/07/2020 to 11/07/2020	Nanomaterial Synthesis, Process, Characterization and its Functional Applications.	Hindusthan College of Engineering and Technology, Coimbatore.
26	13/07/2020 to 17/07/2020	Applications of Finite Element Analysis (FEA) and Computational Dynamics (CFD) using ANSYS.	Government College of Engineering, Karad
27	20/07/2020 to 25/07/2020	Technological Advancement in Environment friendly Materials and Processing.	Katihar Engineering College, Katihar.
28	21/07/2020 to 25/07/2020	Recent Advances in Renewable Energy & Energy Efficiency	Mahatma Sandhi Institute of Technology,

		Technologies.	Hyderabad.
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Details of Webinar's Attended :-

Sl. No.	Dates	Name of The Programme	Host Institution
1	14/05/2020	Design of Experiments using Taguchi Method.	Kallam Haranadhareddy Institut of Technology, Guntur.
2	16/05/2020	Medical Drives.	Rajarajeswari College of Engineering, Bengaluru.
3	18/05/2020 & 19/05/2020	Research Paper Writing & Intellectual Property Rights.	Rajarambapu Institute of Technology, Sangli
4	20/05/2020	Research Thrust Areas in Composites.	Arasu Engineering College, Kumbakonam.
5	22/05/2020	An Overview of Iterative Learning Control.	Pillai HOC College of Engineering and Technology, Rasayani.
6	23/05/2020	Evolution of Connected Industries.	Narasaropeta Engineering College, Andhra Pradesh.
7	26/05/2020	Silicon Carbide (SiC) Power Devices for Renewable Energy System.	Swarnandhra College of Engineering and Technology, Narsapur.
8	27/05/2020	Battery Management System for Electric Vehicle Applications.	Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram, Tamilnadu
9	01/06/2020 & 02/06/2020	Grid Connected and Standalone PV Solar Plant Design Using PVSyst.	Institute of Aeronautical Engineering
10	04/06/2020	Advanced Material Processing.	Narasaropeta Engineering College, Andhra Pradesh.
11	05/06/2020	Air Pollution, Global Warming, Climate Change, Society and Sustainability.	K. C. College of Engineering & Management Studies & Research
12	06/06/2020	AI for All.	SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

13	07/06/2020	Robotics Operation and Applications.	CMR University.
14	08/06/2020	Recent Advances in AI, ML & Robotics from Macro to Nano Stage.	SJB INSTITUTE OF TECHNOLOGY, Bengaluru
15	08/06/2020	Lean Six Sigma.	VEGA Institute Mauritius & IEI Kanchipuram Local Centre.
16	09/06/2020	Future Energy Challenges in Green Technology.	Gandhi Institute for Education and Technology.
17	10/06/2020	Simulation Driven Innovation for e-Mobility.	Altair India
18	12/06/2020	Latest Technologies in Automotive Industries.	Cambridge Institute of Technology
19	13/06/2020	Tools for Documentation: Conference, Journal and Thesis Writing.	Vaagdevi College of Engineering
20	18/06/2020	Future of Education post Covid.	Mc Graw Hill
21	27/06/2020	5G Technologies and its Impact.	OPJU IEEE TECH WEB SERIES
22	30/06/2020	Issues and Challenges in Wind Power Grid Integration.	Siddhartha Institute of Engineering and Technology, Hyderabad.
23	30/06/2020	Effects of Pandemic on Technical Education.	SJB Institute of Technology, Bengaluru
24	30/06/2020	New Insights on the Diesel Engine-Exhaust Gas Treatment.	St.Joseph's College of Engineering, Chennai
25	21/07/2020	A One Day National Webinar on "WELLNESS".	Smt. Surajdevi Ramchand Mohata Mahila Mahavidyalaya, Khamgaon.
26	11/07/2020	Data Science for Organizational Performance.	OPJU IEEE TECH WEB SERIES
27	12/07/2020	An IOT Platform for Building Energy Efficiency Applications.	St.Joseph's College of Engineering, Chennai.
28	14/07/2020 to 15/07/2020	Machine Learning with Python.	Shivajirao Kadam Institute of Technology and Management, Indore.
29	27/07/2020	Impact of COVID-19 on the Development of Rural Economy- Challenges and	LEAD India, JNTUK.

		Opportunities.	
30	09/08/2020	Preparation of Quality Journal Papers and Book Chapters.	Aditya Institute of Technology and Management, Tekkali
31	12/08/2020	AI: Robotics and Design for Manufacture.	St.Joseph's College of Engineering, Chennai.
32	18/08/2020	Advanced Applications of 3D Printing Technologies.	Vignan's Foundation for Science, Technology and Research.
33	28/08/2020 & 29/08/2020	Exciting Advances In Manufacturing Automation-2020.	GITAM Institute of Technology, Vvisakhapatnam.
34	25/11/2020	Outcome Based Education and Accreditation.	NBA, JNTU Hyderabad.

Quizzes Attended:-

Sl. No.	Dates	Subject	Host Institution
1	18/05/2020	3D Printing & Robotics	Narasaropeta Engineering College, Andhra Pradesh.
2	19/05/2020	NAAC Awareness Quiz – 2020	AISSMS Institute of Information Technology.
3	22/05/2020	SPARK 2020	K. C. College of Engineering & Management Studies & Research, Thane.
4	23/05/2020	Aptitude Test for Faculty on OBTL	Usharama College of Engineering and Technology
5	23/05/2020	Environmental Science	K. C. College of Engineering & Management Studies & Research, Thane.
6	27/05/2020	Basics of Mechanical Engineering	Ramachandra college of Engineering , Eluru
7	28/05/2020	Test your knowledge on NBA Criteria's	MLR Institute of Technology, Hyderabad.
8	31/05/2020	Basics of FEA	Narasaraopeta Engineering College
9	01/06/2020	Strength of Materials	Malineni Perumallu Educational Society's Group of Institutions, Guntur.

10	05/06/2020	Automation and Robotics	Holy Mary Institute of Technology And Science
11	06/06/2020	Basic Mechanical Engineering	Swarnandhra College of Engineering and Technology, Narsapur.
12	06/06/2020	Production & Machine Tools Quiz 2K20	Holy Mary Institute of Technology And Science
13	07/06/2020	Environmental Awareness	Pune Vidyarthi Griha's College of Engineering, Nashik
14	07/06/2020	Python Quiz	Pune Vidyarthi Griha's College of Engineering, Nashik
15	08/06/2020	Production & Machine Tools Quiz 2K20	Holy Mary Institute of Technology And Science
16	08/06/2020	Intellectual Property Rights	Holy Mary Institute of Technology And Science
17	10/06/2020	Engineering Mechanics	Pune Vidyarthi Griha's College of Engineering, Nashik.
18	11/06/2020	CAD/CAM	Kamala Institute Of Technology & Science, Karimnagar
19	15/06/2020	National Level Quiz on Thermal Engineering	Jayamukhi Institute of Technological Sciences, Narsampet.
20	16/06/2020	National Level Quiz on Industrial Robotics and Applications	Guntur Engineering College, Guntur.
21	29/06/2020	Quiz on IEEE	St.Joseph's College of Engineering, Chennai
22	04/07/2020	Hydraulic Machinery	Kallam Haranadhareddy Institute of Technology, Guntur.
23	05/07/2020	COVID-19 informative Quiz	St.Joseph's College of Engineering, Chennai
24	06/07/2020	Cloud Computing	Pune Vidyarthi Griha's College of Engineering, Nashik

25	09/07/2020	IC Engines	RISE Krishna Sai Prakasam Group of Institution, Prakasam.
26	11/07/2020	Workshop Technology	RISE Krishna Sai Prakasam Group of Institution, Prakasam
27	25/07/2020	Engineering Mechanics	DNR College of Engineering & Technology, Bhimavaram.
28	25/07/2020	Basic Thermodynamics 2020	Annamacharya Institute of Technology & Science

Certifications:-

Sl. No.	Dates	Name of The Course	Host Institution
1	29/04/2020	Control of Mobile Robots	Georgia Institute of Technology.
2	30/04/2020	Modeling and Design for Mechanical Engineers Autodesk Fusion 360	AUTODESK
3	01/05/2020	Natural Gas	The State University of New York.
4	02/05/2020	AI For Everyone	Deep learning. AI
5	02/05/2020	Simulation Analysis for Mechanical Engineers with Autodesk Fusion 360	Autodesk
6	02/05/2020	Safety in the Utility Industry	The State University of New York.
7	03/05/2020	Advanced Manufacturing Process Analysis	The State University of New York.
8	03/05/2020	Digital Manufacturing & Design.	The State University of New York.
9	04/05/2020	Materials Science: 10 Things Every Engineer Should Know	UC DAVIS
10	04/05/2020	Electric Vehicles and Mobility	Ecole Des Ponts, Paris.Tech
11	05/05/2020	Cyber Security in Manufacturing	The State University of New York.
12	05/05/2020	Six Sigma Tools for Define and Measure	Kennesaw State University.
13	06/05/2020	Intelligent Machining	The State University of New York.

14	07/05/2020	Collaborative Robot Safety: Design & Deployment	The State University of New York.
15	07/05/2020	Digital Thread: Components	The State University of New York.
16	08/05/2020	Advanced Manufacturing Enterprise	The State University of New York.
17	08/05/2020	Work Smarter, Not Harder: Time Management for Personal & Professional Productivity.	UCI Division of Continuing Education.
18	08/05/2020	Project Management: The Basics for Success	UCI Division of Continuing Education.
19	09/05/2020	Six Sigma Principles	Kennesaw State University.
20	09/05/2020	Six Sigma and the Organization (Advanced)	Kennesaw State University.
21	09/05/2020	Digital Thread: Implementation	The State University of New York.
22	11/05/2020	Material Processing	Georgia Institute of Technology.
23	11/05/2020	Communication in the 21st Century Workplace	UCI Division of Continuing Education
24	11/05/2020	The Art of Negotiation	UCI Division of Continuing Education
25	11/05/2020	High-Impact Business Writing.	UCI Division of Continuing Education
26	11/05/2020	Effective Problem-Solving and Decision-Making	UCI Division of Continuing Education
27	11/05/2020	Fundamentals of Management	UCI Division of Continuing Education
28	12/05/2020	Essentials of Entrepreneurship: Thinking & Action	UCI Division of Continuing Education
29	12/05/2020	Roadmap to Success in Digital Manufacturing & Design.	The State University of New York.
30	12/05/2020	Initiating and Planning Projects	UCI Division of Continuing Education
31	12/05/2020	Finance for Non-Financial Professionals	UCI Division of Continuing Education
32	13/05/2020	Digital Manufacturing & Design Technology	University of Buffalo.

		(9 Courses)	
33	13/05/2020	MBSE: Model-Based Systems Engineering	The State University of New York.
34	13/05/2020	Managing Project Risks and Changes	UCI Division of Continuing Education
35	14/05/2020	Financial Technology (Fintech) Innovations	University of Michigan.
36	14/05/2020	Innovations in Investment Technology: Artificial Intelligence.	University of Michigan.
37	14/05/2020	The Future of Payment Technologies.	University of Michigan.
38	14/05/2020	Blockchain and Cryptocurrency Explained	University of Michigan.
39	14/05/2020	Raising Capital: Credit Tech, Coin Offerings, and Crowdfunding	University of Michigan.
40	14/05/2020	Autodesk Fusion 360 Integrated CAD/CAM/CAE	Autodesk
41	14/05/2020	Intro to Digital Manufacturing with Autodesk Fusion 360.	Autodesk
42	15/05/2020	Budgeting and Scheduling Projects	UCI Division of Continuing Education
43	26/05/2020	Introduction to Thermodynamics: Transferring Energy from Here to There	University of Michigan.
44	01/06/2020	Mechanics of Materials IV: Deflections, Buckling, Combined Loading & Failure Theories	Georgia Institute of Technology.

NPTEL Certifications:-

Sl. No.	Dates	Name of The Course	Host Institution
1	12.07.2017	Fluid Mechanics	IIT Madras
2	July – Oct 2018	Non Conventional Energy Resources	IIT Madras
3	Jan-April 2019	IC Engines and Gas Turbines	IIT Guwahati
4	Aug-Oct 2019	Accreditation and outcome base education	IIT Kharagpur

Other Achievements:

1. Ratified as Asst. Professor in 2010 in JNTUK selections.
2. Participated in a Mission 10X workshop conducted at Aditya Institute of Technology and Management at Tekkali From 24th to 28th April 2012.
3. Acted as a co convener for DST National conference at Aditya Institute of Technology and Management in March 5th and 6th 2016 on Nano Manufacturing.
4. Question paper setter for different autonomous colleges.

A handwritten signature in blue ink, appearing to read "H.V. Bhanu".

Signature