

CURRICULUM VITAE

Dr. Boda Hadya

Professor & Head

Department of Mechanical Engineering,
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Academic qualifications

S.No	Degree	University / Institute	Year of Passing	Specialization
1	Ph.D.	Osmania University	2016	1. Refrigeration and Air Conditioning 2. HVAC
2	M.Tech.	JNTU - Hyderabad	2005	Thermal Engineering
3	B.E.	Osmania University	1999	Mechanical Engineering

Teaching Experience

S.No	Organization	Designation	Period From	Period To
1	Department of Technical Education, Govt. of Telangana, India	Lecturer (Mechanical Engineering)	18.01.2001	31.07.2007
2	Osmania University	Assistant Professor	01.08.2007	17.01.2014
3	Osmania University	Associate Professor	18.01.2014	17.01.2017
4	Osmania University	Professor	18.01.2017	Till Date

Areas of Research

- Thermal Engineering/ IC Engines
- Cryogenic Engineering
- Refrigeration and Air Conditioning
- HVAC
- Heat Transfer

- Thermal Battery management System (Electrical Vehicle)
- Design of Steam Turbines
- Advanced Energy Systems
- Design of Solar Energy Systems.

Subjects Taught (UG & PG)

- Heat Transfer
- Refrigeration and Air Conditioning
- Design of Steam Turbines
- Advanced Energy Systems
- Power Plant Steam Generators
- Design of Solar Energy Systems
- Cryogenic Engineering

Citation Index

Source	Link
Vidwan	https://vidwan.inflibnet.ac.in/profile/592309
Scopus	https://www.scopus.com/authid/detail.uri?authorId=57214806254
Web of Science	https://www.webofscience.com/wos/author/record/LZF-3782-2025
Orchid	https://orcid.org/0009-0009-1206-7150
Google Scholar	https://scholar.google.co.in/citations?user=G8Mdm8YAAAAJ

Research Guidance

Total No. of **Ph.Ds Awarded (11) / Enrolled (13)**

S.No	Name of the Student	Title of the Thesis	University	Awarded (Mention Year)/ Submitted/ On Going of Ph.D
1	Mr. R. Rajender	“Experimental Investigation of Air Conditioning System With and Without Suction Line Heat Exchanger (SLHX) Using R407C and R32 Refrigerants”	Osmania University	2025
2	Mr. Lonavath Srinivas Naik	Investigation of Mechanical Properties and	Osmania University	2025

3	Mr. Madhu Nayak Moodavath	Characterization of Friction Stir Welding AA8011 with Deep Cryogenic Treatment Experimental Investigation of vapour compression refrigeration system for Water Chiller Using HFO and HFC Blend	Osmania University	2025
4	Mr. Katravath Bicha	Experimental Analysis of CI Engine Using Hydrogen Enriched Microalgae Biodiesel with Exhaust Gas Recirculation	Osmania University	2025
5	Mr. B. Anil Kumar	Experimental Investigation of CI Engine in Dual-Fuel mode Using Biodiesel Blends of Hydrogen and Acetylene	Osmania University	2025
6	Mr. Banoth Tarajinaik	Experimental Investigations on Supercharged Ceramic Coated Diesel Engine with Carbretted Butanol and Plastic Oil	Osmania University	2025
7	Mr. Ganesh V	Experimental Investigation Of CRDI Diesel Engine Performance and Emission Characteristics with Ethanol,Methane and Butanol Blends	Osmania University	2025
8	B. Raja Narendar	Experimental Investigation on Performance and Emission Comparision of Modified CI Engine Using Fish Oil Methyl Ester With Diethyl Ether and Butanol Blends	Osmania University	2025
9	Ms.Ganta Vanya Sree	Perormance Evaluation of Air Gap Insulated Piston Engine Using Different Blends of Acetylene Gas,Cotton Seed oil and Di Ethyl Ether	Osmania University	2025
10	Ms.Srividya	Evaluation of Mechanical Proprties and Failure	Osmania University	2025

		Analysis of Hybrid Composite Laminated Pressure Vessel with Different Stacking Sequence		
11	Mr.Srinivas Reddy	Experimental Investigation of Insulated Diesel Engine with Algae Oil Blende with Copper Nano Particles	Osmania University	2025

Research Projects

S.No.	Project Title / Scheme	Funding Agency	Role	Remarks
1	Development and Experimental Analysis of Window Air Conditioning System with Roll Bond Condenser (Scheme No. A-38)	OU–DST–PURSE Programme (Department of Science and Technology, Govt. of India)	Principal Investigator	Successfully completed under DST support

Patents

- Heat pipe heat exchanger**
Design No.: 453121-001, 2025
- System and method for friction stir welding (FSW) of metal work pieces**
Application No.: 202341052728, 2025
- Hybrid Composite Gas Storage Pressure Vessel**
Application No.: 453936-001, 2025

Research/Book Publications

No. of Journals : 50

S.No	Authors	Paper Title	Journal Name / Volume / Issue / Pages	Indexed	Quartile	Year
1	SN Lonavath, CGR Ganagavarapu, PS Ummar, Dr. B. Hadya, JK Siddani	Effect of square tool pin profile on microstructure and mechanical properties of AA8011 butt joints in friction stir welding	<i>AIP Conference Proceedings</i> 3363 (1), 030002	Scopus	Q4	2025

2	DBH N. Srinivasa Rajneesh, Dr. S. Nawazish Mehdi	A Comprehensive Review Paper on Types, Yield and Efficiency of Solar Distillation (Double Slope Solar Still)	<i>IJRAR</i> 12 (3), 369–380	UGC	–	2025
3	RRB Dr. B. Hadya	Experimental Analysis of Air Conditioning System by Optimizing Capillary Tube Configurations Using R-32 Refrigerant	<i>Springer Nature Singapore</i> 114, 53–63	Scopus	Q3	2025
4	DBH N. Srinivasa Rajneesh Dr. S. Nawazish Mehdi	Performance Analysis of Solar Still for Potable Water Under Different Pressure Conditions	<i>International Journal of Environmental Sciences</i> 11 (2229-7359), 1851–1857	UGC	–	2025
5	BR Narender, SN Kumar, Dr. B. Hadya	Impact of Fuel Injection Pressure and Timing on the Performance and Emissions of a Low Heat Rejection CI Engine with Fish Oil Methyl Ester, DEE and Butanol Blend	<i>Journal of Engineering Research and Reports</i> 27 (1), 59–75	Scopus	Q3	2025
6	SN Lonavath, Dr. B. Hadya	Consequences of the rotational speed and profile of tool pin in microstructure and mechanical properties of AA8011/ZrO ₂ composite produced by FSW	<i>IJIDeM</i> 18 (9)	Scopus	Q2	2024
7	A Kumar, SV Ramana, Dr. B. Hadya, S Subramani	Investigation on NO _x control of a CI engine through the collective effect of hydrogen and biodiesel blend at modified compression ratio	<i>International Journal of Hydrogen Energy</i> 82, 624–635	Scopus	Q1	2024
8	K Bicha, Dr. B. Hadya	Impact of varying the injection angle on compression ignition (CI) engines fueled with hydrogen-enriched microalgae biodiesel	<i>Interactions</i> 245 (1), 135	Scopus	Q3	2024
9	R Rajender, r. B. Hadya	Experimental Analysis of Air Conditioning System by Optimizing Capillary Tube Configurations Using R-32 Refrigerant	<i>ICIMES Proceedings</i>	Scopus	–	2024
10	SN Lonavath, Dr. B. Hadya	Characterization and optimization of weld properties due to the effect of different pin profiles for	<i>World Journal of Engineering</i> 21 (4), 807–820	Scopus	Q3	2024

		AA8011-based friction stir welding				
11	BA Kumar, SV Ramana, Dr. B. Hadya	Effect of Gaseous Acetylene Addition on the Characteristics of a CI Engine at Modified Compression Ratios Fuelled with Biodiesel Blends	<i>IJVSS</i> 16 (4)	Scopus	Q4	2024
12	BR Narender, SN Kumar, Dr. B. Hadya	Experimental Investigation on Performance of CI Engine Using Fish Oil Methyl Ester, DEE and Butanol Blend	<i>IJ of Thermal Engineering</i> 12 (1), 22–35	Scopus	Q3	2024
13	BH B Raja Narender, S Narasimha Kumar	Determination of Physical and Chemical Properties of Fish Oil Methyl Ester, Diethyl Ether and Butanol Blends	<i>IOSR-JMCE</i> 21 (3), 16–24	UGC	–	2024
14	DV Srividya, KV Shaik, Dr. B. Hadya, SI Sadaq	Failure analysis of GFRP and CFRP composite laminated pressure vessel	<i>AIP Conference Proceedings</i> 3007 (1), 100002	Scopus	Q4	2024
15	D.V. Srividya, Dr. Shaik Khadar Vali, Dr. B. Hadya	Stress Analysis of Natural and Synthetic Composite Laminates in Hybrid Composite Pressure Vessel	<i>IJRAR</i> 11 (2), 453–457	UGC	–	2024
16	BH B Anil Kumar, SV Ramana	Grey-Taguchi and ANN Optimization in CI Engines using Acetylene & Biodiesel Blends for Low Emissions and Better Performance	<i>IRJ of Multidisciplinary Technovation</i> 6 (5), 14–29	UGC	–	2024
17	BH Katravath Bicha	Effect of Change in Injection Pressure on Hydrogen Enriched Microalgae Biodiesel in CI Engine	<i>African Journal of Biological Sciences</i> 6 (4), 3990–3997	Scopus	Q3	2024
18	Dr. B. Hadya Katravath Bicha*	Parametric Optimization of Emission and Performance Characteristics of CI Engine Fueled with Hydrogen-Enriched Microalgae Biodiesel Using Taguchi	<i>Journal of Propulsion Technology</i> 45 (3), 3694–3707	Scopus	Q2	2024
19	Dr. B. Hadya Katravath Bicha*	The Impact of Blends and Comparison of Diesel, Ethanol and Microalgae on the Performance, Combustion and Emissions of a CRDI Engine	<i>Journal of Propulsion Technology</i> 45 (3), 4044–4051	Scopus	Q2	2024
20	Dr. B. Hadya B. Raja Narender,	Emission Control and Aldehyde Reduction Using	<i>Journal of Propulsion</i>	Scopus	Q2	2024

	S. Narasimha Kumar	Fish Oil Methyl Ester, Diethyl Ether and Butanol Blends in CI Engines	<i>Technology</i> 45 (3), 2178–2190				
21	RRB Dr. B. Hadya	Optimizing Capillary Tube Length for Enhanced Performance in a Window Air Conditioning System with R-407C Refrigerant	<i>IJMPERD</i>	UGC	–	2023	
22	AU Sri, DV Kumar, Dr. B. Hadya	Study of Transmission and I–V Characteristics of 10-Atom Armchair Graphene Nano Ribbon Using NEGF Approach	<i>ICETE 2023 Proceedings</i>	Scopus	–	2023	
23	MM Nayak, Dr. B. Hadya, M Azizuddin	Study of Combustion Characteristics for R1234yf/R134a Refrigerant Leakage from VCRS Cycle	<i>ICETE 2023 Proceedings</i>	Scopus	–	2023	
24	DV Srividya, SK Vali, Dr. B. Hadya, SI Sadaq	Failure Analysis of Composite Pressure Vessel by Means of Natural and Synthetic Fibers	<i>Materials Today: Proceedings</i>	Scopus	Q3	2023	
25	MM Nayak, Dr. B. Hadya	Experimental Investigation of VCRS for Water Chiller Using HFO and HFC Blend	<i>Compliance Engineering Journal</i> 14 (3), 45–56	UGC	–	2023	
26	MM Nayak, Dr. B. Hadya, M Azizuddin	Effect of Evaporator Temperature on VCRS for Water Chiller Using HFO and HFC Blend	<i>IOSR-JMCE</i> 20 (1), 32–39	UGC	–	2023	
27	R. Rajender	The Effect of Capillary Tube–Suction Line Heat Exchanger Design and Refrigerant Flow on the Performance of the Vapor Compression Refrigeration System – A Review	<i>IOSR-JMCE</i> 20 (5), 45–49	UGC	–	2023	
28	M. Madhu Nayak, Dr. B. Hadya	A Comparative Study of Performance of HFC Group Refrigerants and HFO Refrigerants	<i>Gradiva Review Journal</i> 8 (4), 165–170	UGC	–	2022	
29	LS Naik, Dr. B. Hadya, T Prasad, PC Sreenivas Rao	Friction Stir Welding Tool Pin Shape Effects on Mechanical Properties and Microstructure on AZ91 under Water Conditions	–	Scopus	Q4	2022	
30	BR Narender, SN Kumar, Dr. B. Hadya, MVSM Krishna	Emission of Aldehydes from LHR Diesel Engine with Carbureted Butanol and Jatropa Oil	<i>IJMET</i> 12 (7), 33–42	Scopus	Q3	2021	
31	LSNB Dr. B. Hadya	Evaluation and Impacts on Mechanical Behavior of	<i>Recent Trends in Mechanical</i>	Scopus	Q4	2020	

32	DKM L. Srinivas Naik, Dr. B. Hadya	Friction Stir Welded Copper 2200 Alloy Experimental Study On AA7075 – Effect Of Rotational Speed And Tool Pin Profile On Friction Stir Welding Process	<i>Engineering, 239–247 IJJET 9</i>	Scopus	Q4	2018
33	Dr. B. Hadya	Enhancement of Bio-Gas Yield from Dry and Green Leaves by Inoculation	<i>IJLEMR</i>	UGC	–	2017
34	Dr. B. Hadya	Performance Analysis of an Omnidirectional Intake Duct Wind Turbine Using CFD	<i>IJLEMR</i>	UGC	–	2017
35	Dr. B. Hadya	Comparative Study of Thermodynamic Properties of Hydrocarbon Group Refrigerants in VCRS as an Alternative to HCFC-22	<i>IJMERT 3 (1)</i>	UGC	–	2017
36	Dr. B. Hadya	Assessment of Energy Efficiency Ratio for Air-Conditioning System for Potential Replacement of R-22	<i>ICETME Proceedings</i>	Scopus	Q4	2016
37	PMK Dr. B. Hadya	Experimental Investigation and Performance Comparison of Zero ODP HFC Group Refrigerants in an Air Conditioning System	–	–	–	2016
38	Dr. B. Hadya	Analysis of VCRS with Sub-cooling and Superheating Using Three Different Refrigerants for Air-Conditioning Applications	<i>IJESRT</i>	UGC	–	2016
39	Dr. B. Hadya	Design of Roll Bond Evaporator for Room Air Conditioner Using Eco-Friendly Refrigerant R-32	<i>IJIRSET</i>	UGC	–	2016
40	Dr. B. Hadya	Simulation of Air-Conditioning System Components and Comparison of Performance for Three Different Refrigerants	<i>IJREAS</i>	UGC	–	2016
41	Dr. B. Hadya	Performance Assessment of HFC Group Refrigerants in Window Air Conditioning System	<i>IJMEA 3 (5), 81–85</i>	UGC	–	2015
42	Dr. B. Hadya	Theoretical Analysis and Performance Comparison of Different Alternative	<i>IJSER 5 (5)</i>		–	2014

43	Dr. B. Hadya	Refrigerants to HCFC-22 Experimental Evaluation of Environmentally Friendly and Low-GWP Refrigerants as Alternatives for Window Air Conditioning Systems	<i>JoRACHV</i>	UGC	–	2014
44	Dr. B. Hadya	Simulation of Air- Conditioning Compressor with Different Refrigerants and Retrofit in Existing HCFC-22 Systems	<i>IJTT 4 (2)</i>	UGC	–	2014
45	Dr. B. Hadya	Simulation of Air Conditioning System and Transport Properties for Alternative Refrigerants	<i>ICAMEM Proceedings</i>		–	2013
46	Dr. B. Hadya	CFD Analysis on Double Pipe Helical Coil Heat Exchanger	<i>ICAMEM Proceedings</i>		–	2013
47	Dr. B. Hadya	Analysis of Transport Properties for Hydro Fluorocarbon Refrigerants for Air-Conditioning Systems	<i>IJARET</i>	UGC	–	2013
48	Dr. B. Hadya	Flow Characteristics of a Refrigerant Inside a Diabatic Capillary Tube with a Suction Line Heat Exchanger	<i>CAFÉ-2012 Proceedings</i>		–	2012
49	Dr. B. Hadya	Performance Evaluation of R-32 as Retrofit Refrigerant in Existing Air Conditioners in Indian Scenario	<i>RAME-2012 Proceedings, 272–278</i>		–	2012
50	Dr. B. Hadya, Sri, P. U., & Akella, S	Comparative Study of Eco- friendly Refrigerants in a Lower Capacity Air- Conditioning System”	<i>International Conference on Mechanical and Automotive Engineering (ICMAE'2012) September (pp. 8-9).</i>		–	2012

Research Papers Presented

S.No.	Title of Paper	Conference	Details
1	A Comparative Study on the Performance and Environmental Impact of Alternate Refrigerants to Replace R-22	RITS International Conference on Advancements in Engineering & Management (ICAEM-2012)	Presented

S.No.	Title of Paper	Conference	Details
2	Performance Evaluation of R32 as Retrofit Refrigerant in Existing Air Conditioners in Indian Scenario	National Conference on Recent Advances in Mechanical Engineering (RAME-2012)	Presented
3	Comparative Study of Eco-Friendly Refrigerants in a Lower Capacity Air-Conditioning System	International Conference (ICMAE-2012), ISBN 978-93-82242-07-09	Session Best Paper Award
4	Flow Characteristics of a Refrigerant inside a Diabetic Capillary Tube with Suction Line Heat Exchanger	International Conference (CAFE-2012)	Presented
5	Assessment of Energy Efficiency Ratio for Air-Conditioning System for Potential Replacement of R-22	International Conference on Emerging Trends in Mechanical Engineering (ICETiME-2016), ICFAI Foundation for Higher Education	Presented
6	Evaluation and Impact on Mechanical Behaviour of Friction Stir Welded Copper 2200 Alloy	International / National Conference on Innovations in Mechanical Engineering (IVIME-2019)	4–5 Jan 2019, Guru Nanak Institutions, Telangana

Guest Lecture Delivered

S.No.	Details of Lecture	Year
1	Sankathika ,National Level Technical Fest-MEGSO LORDs Institute of Engineering and Technology	25 th April 2025.
2	Emerging Trends in Mech Engg One Week national Level FDP LORDs Institute of Engineering and Technology	22-27 th April 2024.
3	Experimental investigation and performance comparison of thermal systems EMR Dean Faculty of Engg, OU	1 st September 2023
4	Recent Trends in Air Conditioning System with Different Refrigerants 19 th National Level Technical Symposium MED, OU	29- 30 th April, 2022.
5	Delivered a 2-day Guest Lecture during the Faculty Development Programme on “Performance Evaluation of Air Conditioners for Different Refrigerants using Different Software Tools .”Sreyas Institute of Engineering and Technology, Hyderabad	25–26 June 2018
6	Delivered keynote address emphasizing innovation, additive manufacturing, and the integration of design thinking with technology. <i>2-Day National Workshop on 3D Printing for Innovative Applications</i> , organized by the Department of Mechanical Engineering, IEOM Student Chapter , and CPPDAM , Osmania University, Hyderabad .	Hyderabad (Oct 22–23, 2025).

Workshops / Orientation / Refresher Courses Attended

S.No.	Programme	Duration	Organized By
1	QIP on Heat Transfer in Chemically Reacting Systems	08.12.2014 – 12.12.2014	IIT Roorkee, Uttarakhand, India
2	Faculty Development Programme in Entrepreneurship	30.12.2013 – 10.01.2014	EDC, OU
3	Computational Fluid Dynamics	12.06.2012 – 22.06.2012	ICT (MHRD), IIT Bombay
4	Engineering Research Methodology	02.02.2012 – 04.02.2012	MED, UCE, OU
5	ISTE Workshop on Heat Transfer	29.11.2011 – 10.12.2011	ISTE – IIT Bombay
6	Faculty Development Programme in Entrepreneurship	26.09.2010 – 09.09.2010	EDC, OU
7	Orientation Course	20.04.2009 – 15.05.2009	UGC – Academic Staff College, OU
8	Mission 10X Workshop	24.01.2008 – 25.01.2008	MED, UCE, OU & SNIST, Hyderabad
9	Staff Development Programme	11.02.2008 – 15.02.2008	UCE, OU, Hyderabad
10	CIPET Programme (AICTE Sponsored)	19.11.2007 – 30.11.2007	CIPET, Hyderabad

Faculty Development Programmes (FDPs) Attended

S.No.	Programme	Duration	Organized By
1	Industry–Institution and Defence Lab Interaction	30.08.2014	MED, UCE, OU in collaboration with AD, RCI, DRDO, Hyderabad
2	Training on CNC Machining	12.02.2013	MED, UCE, OU under TEQIP-II
3	Metrology	21.03.2013 – 23.03.2013	MED, UCE, OU
4	Reverse Engineering Based Manufacturing	24.06.2013 – 28.06.2013	MED, UCE, OU under TEQIP-II
5	Water and Food Security – Issues and Challenges	22.03.2012	DCE, UCE, OU
6	ICMAE 2012 (International Conference)	08.09.2012 – 09.09.2012	Planetary Scientific Research Centre, Bangkok, Thailand

7	Inter-University Zonal Youth Festival Participation	16.11.2012 – 20.11.2012	Osmania University
8	High Performance in Green Building	26.11.2011	ISHRAE, Deccan Chapter, Hyderabad
9	Advanced Manufacturing Systems	30.07.2009	MED, UCE, OU
10	Quality Assurance & ISO 9000 Certification	05.03.2008	UCE, OU, Hyderabad

Workshops / Training / FDPs / Conferences Attended

S. No.	Programme	Title / Theme	Duration	Organized By
1	International Conference (ICAMM-2016)	Active Member of Organizing Committee for International Conference on Advances in Materials and Manufacturing	08.12.2016 – 10.12.2016	Department of Mechanical Engineering, UCE, OU, DRDL, DRDO, Ministry of Defence, Government of India, Hyderabad
2	A Two-day workshop	“Teaching, Learning and Assessment Methodology”	13th–14th December 2016	UCE (A), O.U.
3	NSTEDB, DST	Faculty Development in Entrepreneurship	02.02.2016 – 14.02.2016	Entrepreneurship Development Cell, New Delhi
4	Technical Education Quality Improvement Program (TEQIP) – KITE Centre Faculty	Thermal Analysis of Materials Using DSC, DTA, TG & Dilatometer (TAM-III)	14.12.2015 – 19.12.2015	IIT Hyderabad
5	Development Programme	Entrepreneurship Development	02.02.2015 – 14.02.2015	NSTEDB, DST, New Delhi
6	Workshop	How to Write Research Proposals	18.09.2015	University College of Engineering, OU (under TEQIP-II)
7	A one-day workshop on	“How to Write Research Proposal”	on 13th September 2015	UCE (A), O.U.
8	Participation Certificate	One-day Workshop on How to Write Research Proposals	18.09.2015	University College of Engineering, Osmania University, under Project TEQIP-II
9	Certificate given by NSTEDB, DST	Faculty Development in Entrepreneurship	02.02.2015 – 14.02.2015	Entrepreneurship Development Cell, New Delhi

10	Workshop	One-day Workshop on Industry–Institute and Defence Labs Interaction	30.08.2014	Dept. of Mechanical Engineering, UCE, OU in collaboration with Programme AD, RCI, DRDO
11	Quality Improvement Programme (QIP)	Heat Transfer in Chemically Reacting Systems	08.12.2014 – 12.12.2014	IIT Roorkee, Uttarakhand
12	Certificate of Participation	One-day Workshop on Industry–Institute and Defence Labs Interaction	30.08.2014	Department of Mechanical Engineering, UCE, OU, Hyderabad in collaboration with Programme AD, RCI, DRDO, Hyderabad
13	Faculty Development Programme	Entrepreneurship Development	30.12.2013 – 10.01.2014	EDC, Osmania University, Hyderabad
14	Workshop	Heat Transfer (ISTE Workshop)	12.06.2012 – 22.06.2012	IIT Bombay (Under MHRD–ICT Initiative)
15	Workshop	Engineering Research Methodology	02.02.2012 – 04.02.2012	Department of Mechanical Engineering, UCE, OU
16	Orientation Course	Orientation Programme for Engineering Faculty	29.11.2011 – 10.12.2011	UGC Academic Staff College, Osmania University
17	Faculty Development Programme	Entrepreneurship Development	26.09.2010 – 09.10.2010	NSTEDB, DST, New Delhi
18	Faculty Development Programme	Entrepreneurship Development	20.04.2009 – 15.05.2009	NSTEDB, DST, New Delhi

Assessment / Organizing Committee Member

S.No.	Programme / Association of Inter Universities	Type of Committee	Year / Dates
1	RAME–2012, National Conference	Accommodation Committee Member	16–20 November 2012

S.No.	Programme / Association of Inter Universities	Type of Committee	Year / Dates
2	Management Council of the Institute to Assess Technical Staff	Assessment Committee, IICT	16–17 March 2012
3	ICORTE–2010, International Conference	Organizing Committee Member	5 December 2011
4	ICORTE–2010, International Conference	Hospitality and Accommodation, Cultural Programme Committee	27–28 August 2010
5	ISTAM–2008, International Conference	Organizing Committee Member	27–28 August 2010
6	VETOMAC–2007, International Conference	Organizing Committee Member	27–30 December 2008
7	Association of Inter Universities	Organizing Committee Member	17–19 December 2007

Awards and Recognitions

- **Session Best Paper Award** – International Conference on Mechanical and Automotive Engineering (ICMAE-2012), Bangkok, Thailand (8–9 Sept 2012)
- **Nodal Officer** – *High-Rate Biomethanation Plant: Biogas from Food Waste Project under Swachhata Action Plan* of the Central Board of Indirect Taxes and Customs (CBIC), Government of India, Hyderabad Region.

Certificates of Appreciation

S.No	Details	Year
1	Certificate of Appreciation received as <i>Chief Guest</i> for the <i>2-Day National Workshop on 3D Printing for Innovative Applications</i> , organized by the Department of Mechanical Engineering, IEOM Student Chapter , and CPPDAM , Osmania University, Hyderabad (Oct 22–23, 2025).	2025
2	Participated in a Two-Day National Seminar on Quality Assurance and Faculty Preparation for NAAC Accreditation at O.U., organized by IQAC, during 19–20 February 2024.	2024
3	Presented a paper titled “ <i>Impact of EGR Variation on Ethanol: Experimental Study on Emission and Performance Characteristics in a Research Engine</i> ” at the 6th International Conference on Intelligent Manufacturing and Energy Sustainability (ICIMES-2024) .	2024
4	Received appreciation during a session at MVSR College for the Two-Day	2023

National Conference on Emerging Materials, Automobile Technologies and Electrical Mobility (EMATEM-2023).

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| 5 | Chaired a session at the 2nd International Conference on Emerging Trends in Engineering (ICETE) held at UCE (A), OU during 28–30 April 2023. | 2023 |
| 6 | Delivered a Guest Lecture titled “ <i>Recent Trends in Air Conditioning Systems with Different Refrigerants</i> ” at the 19th National Technical Symposium – MECHMERIZE-2022 , held during 29–30 April 2022. | 2022 |
| 7 | Co-Chair for a Technical Session at the National Conference on Advances in Mechanical Engineering and Nano Technology (AMEN-2021) during 23–24 August 2021, organized by MED, UCE (A), O.U. | 2021 |
| 8 | Judge for Technical Paper Presentation, MECHMERIZE-2K18 , held during 9–10 March 2018. | 2018 |
| 9 | Served as Resource Person for a 1-week FDP on Emerging Trends in Mechanical Engineering held during 25–30 June 2017. | 2017 |
| 10 | Member of Organizing Committee for the 5th National Conference on Advances in Materials and Manufacturing during 8–10 December 2016. | 2016 |
| 11 | Chairperson for the Technical Session and Faculty Advisor of the Dept. of Mechanical Engineering for MECHMERIZE-2015 (13th & 14th National Level Technical Symposium) held during 7–8 March 2015. | 2015 |

Membership in Professional Bodies

- ISHRAE Membership No: **17655**
- IAENG Membership No : **539154**

Administrative Experience

S.No	Name of the Administrative post	University/College Level	Duration
1	Hostel Warden	College	10years
2	Adnl.Chief warden	University	3 years
3	CBoS	University	2years
4	HOD, MED	University	Present

Invitations, Expert Roles & Professional Engagements

Chief Guest / Guest of Honour Invitations

- **Chief Guest**, *2-Day National Workshop on 3D Printing for Innovative Applications*, organized by the **Department of Mechanical Engineering** and **IEOM Student Chapter**, in collaboration with the **Center for Product Design, Development and Additive Manufacturing (CPPDAM)**, **Osmania University**, Hyderabad. **Date:** October 22–23, 2025 Delivered inaugural address highlighting the advancements, applications, and future prospects of 3D Printing technology in engineering design, prototyping, and manufacturing.
- **Chief Guest**, *30-Minute Hackathon* organized by **Altsay Connected Division**, held on **13th October 2025**. Appreciated student innovations and delivered a motivational talk on the importance of creativity and rapid prototyping.
- **Guest Speaker**, *Expert Talk on “Research-Oriented Project Design and Innovation”*, organized during the *Long-Term Summer Course* on **29th January 2025**. Delivered insights on bridging research ideas with industrial project implementation.
- **Guest of Honour**, *Autonomous Council Technical Fest – MEGSO 2025*, held on **27th April 2025**. Addressed participants and motivated students towards innovative mechanical design solutions.

Academic & Advisory Roles

- **Board of Studies (BOS) Member**, *Gurunanak Technical Campus*, for the academic year **2023–2025**.
Contributed to curriculum design, methodology development, and review of academic content for Mechanical Engineering courses.
- Director, Daikin Centre of Excellence -2022 to Till date
- Automobile Section Incharge -2023
- Nodal Officer for Swachhataa Project-2018
- **CSIR – Indian Institute of Chemical Technology**
Served as the Assessment Committee by Management Council, CSIR on 23.07.2013.

Governing Body Member

- Roots College of Hotel Management & Culinary Arts, Somajiguda, Hyderabad.
- DC Member – Dept. of Mech. Engg. since 21.01.2017.

Expert Member (ISRO – NRSC)

- Invited as **External Expert Member** for the **Departmental Promotion Committee (DPC)** interviews at the **National Remote Sensing Centre (NRSC)**, *Indian Space Research Organisation (ISRO)*, Balanagar, Hyderabad. **Date:** 09 June 2025 on **Role:** Evaluation of

candidates for promotion from *Scientist/Engineer-SD (Level-11)* to *Scientist/Engineer-SE (Level-12)*.

- Invited as **External Expert Member** for the **Departmental Promotion Committee (DPC)** interviews at the **National Remote Sensing Centre (NRSC)**, *Indian Space Research Organisation (ISRO)*, Balanagar, Hyderabad. **Date:** 17 June 2025 on **Role:** Evaluation of candidates for promotion from *Scientist/Engineer-SD (Level-10)* to *Scientist/Engineer-SE (Level-10)*.

Place: Hyderabad

Date:

Prof. Boda Hadya