

Detailed Bio-data

Books/ Book Chapter Written	Books: 1 Tidal Energy Systems: Design, Optimization and Control Elsevier Science, 2018 ISBN:9780128148815 2. Decision science and operation management of solar energy systems Elsevier Science ISBN:978-0323857611 3. Renewable Energy, 2014 Edition ISBN-978-93-82346-11-1 4. Ocean Energy Modeling and Simulation with Big Data: Butterworth-Heinemann publication ISBN 978-0128189047 5. Design and Optimization of Biogas Energy Systems Academic Press publication ISBN 978-0128227183 Book Chapters 1. Fuel cell: Fundamental, classification, application, and environmental impact (2018) Green Energy and Technology, pp. 363-385. Springer Nature 2. Biodiesel: Sources, production, emissions, and policies (2018) Green Energy and Technology, pp. 123-174. Springer Nature 3. Gasification of Biomass: Mechanism and Classification of Gasifier (2018) Current Research in Engineering & Technology pp. 177-188, Meta Research Press, India
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Member of professional bodies	ISTE (LM-110023), SESI LM/2276/2017, Institution of Engineers F-1234230, SEEM M-419317481217
Achievements/Awards	Best faculty award in 2010 by honorable Chairman BOG Best Researcher award in 2017 by CRS Education Expo NCR Noida
Administrative work done	1. As a Program Officer of National Service Scheme (N.S.S.) 2. As a Coordinator of Earn While you Learn 3. Officer In charge in more than 10 legal cases 4. Time table In-charge 5. TEQIP Department coordinator 6. DPRC Department coordinator 7. Member of Hindi Samiti 8. PG Coordinator Energy Center 9. Member, Anti Ragging Committee, M.A.N.I.T., Bhopal, since July 2010. 10. Member, Board of Studies, Department of Energy, M.A.N.I.T., Bhopal, since July 2010. 11. 13th Convocation Committee member 12. Member Institute-Industry Interaction cell 13. Group Leader (Research & Development Strategy) Doc. No- R&D 4.8 REV 00 14. Member Class III/IV Promotion grievance committee. 15. GIAN Coordinator 16. DIETY Project coordinator 17. Chairman Energy Centre

International/National, conference, workshop, short Term Training Programmes organized	1. Coordinator of National Conference on “Recent Advances in Thermal Engineering (RATE 2009)” 26-27th Mar 2010 Organised at LNCT, Bhopal. 2. Coordinator of National Conference on “New Horizons in renewable Energy Technologies” 27-28 Oct 2007, Organised at LNCT, Bhopal. 3. Coordinator of National seminar on Advances in fuel cell technologies, 24-25 Jul 2009 at LNCT, Bhopal. 4. Coordinator of Two Days Workshop on Renewable Energy for Sustainable Development” 6-7 Jan, 2012 at MANIT Bhopal 5. Coordinator of seminar on Clean energy options & nuclear safety of National science day celebration 2012 held on 27 Mar., 2012 at MANIT Bhopal 6. Coordinator of Poster presentation on Clean energy options & nuclear safety of National science day celebration 2012 held on 27 Mar., 2012 at MANIT Bhopal 7. Coordinator of One day workshop on Renewable Energy Systems for RET’S held on 7th feb 2013 at Energy centre MANIT Bhopal 8. Coordinator of One day workshop on Alternative Energy Systems for REI’S held on 20th Mar. 2013 at Energy centre MANIT Bhopal 9. Coordinator of one week short Term Training programme On Recent Advances in Renewable Energy Systems from 21-25 October 2013 at Conference hall Energy Centre, MANIT., Bhopal 10. Coordinator of One day workshop on Energy conservation day held on 13th Dec. 2013 at Energy centre MANIT Bhopal. 11. Coordinator of one week short Term Training programme On Energy conversion systems, fundamental and
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	application from 26-30 May 2014 at Conference hall Energy Centre, MANIT., Bhopal 12. Faculty co-coordinator in event “Science & Technology project demonstration and exhibition” in National science Day (SCIENCIA’15) 10-14th March 2015, at Energy Centre, MANIT Bhopal. Sponsored by- M.P. Council of science & Technology, Bhopal 13. Coordinator of Mega Event LIGHT: ENLIGHTENING THE LIFE (Celebrating International Year of Light 2015) (December 21-31, 2015) Organised by Energy Centre Maulana Azad National Institute of Technology, Bhopal (M.P) Sponsored by M.P. Council of Science & Technology, Bhopal 14. Faculty co-coordinator in event “International Mother Language Day” 3rd March 2016. Organised by Energy Centre Maulana Azad National Institute of Technology, Bhopal (M.P) 15. Coordinator of Two Days National Workshop On INTELLECTUAL PROPERTY RIGHT (July 26th-27th, 2016) Organised by Energy Centre Maulana Azad National Institute of Technology, Bhopal (M.P) Sponsored by M.P. Council of Science & Technology, Bhopal 16. Coordinator of One week STTP on advanced in energy efficient technologies (AEET) on 26-30 September 2016 Organised by Mechanical Engg. department Maulana Azad National Institute of Technology, Bhopal (M.P) Sponsored by TEQIP-II 17. Coordinator of One week short Term Training programme on “Climate Change, Carbon Sequestration & Sustainable Energy Sources” 23-27 March 2017 Sponsor by MPCDMA, Bhopal 18. Organising Secretary of International conference on “Smart Technologies for Green and Sustainable Future (STGSF-2017). 19. Coordinator of One week GIAN course on “Novel Solar energy applications for the built environment” from Nov 26 - Nov 30, 2018, Organised by Energy Centre Maulana Azad National Institute of Technology, Bhopal (M.P)
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Awards/distinguish/honors	i. Session chaired in paper presentation event TEKNISKA- 2012 16th Feb. 2012 at BU-UIT Bhopal ii. Session chaired in paper presentation event TECHNOARGHYA-2012 22nd April 2012 at TIT Bhopal iii. Session chaired in paper presentation event TECHFEST- 2012 at 1ST Apr. 2012 GGITM Bhopal iv. Session chaired in International Conference on global scenario on energy & environment at Energy centre, MANIT Bhopal on 14th mar 2013 v. Session chaired in national Conference on Research and Innovation in Mechanical Engineering at Mech. Deptt, TIT Bhopal on 06/03/ 2014 vi. Session chaired in International Conference ICIREMPS2K15, at SIRT Bhopal on 20 Feb 2015
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	vii.	Session chaired in National conference on Recent advances in Electrical and Electronics Engineering at LNCT Bhopal on 14/03/2015
	viii.	Session Judge in 22nd National children science
	ix.	congress,KV2,Bhopal for theme “Understanding Weather & Climate” 12-13 November,2014
	x.	Session chaired in the International Conference Computational Heat and Mass Transfer NIT Warangal, India – Nov 30-Dec 2, 2015.
	xi.	Session co-chaired in the International Conference on Advances on Clean Energy Research Bangkok, Thailand Apr.16-18, 2016
	xii.	24 th National Children Science Congress 2016-KVS Regional Level Appointment of Judges. (Kendriya Vidyalaya No.II,Bhopal) 04,05 Oct.2016
	xiii.	Subject expert in P.G. Question paper discrepancy committee.
	xiv.	External expert in MODROB project committee at Jabalpur engineering college Jabalpur.
	xv.	Reviewed the book titled <i>Optimization Techniques and Applications</i> with Cheshta J. Khare, H. K. Verma & Dr Vikas Khare Cambridge Scholars Publishing
	xvi.	Session Chaired for the International conference on “Advances Studies in Engineering and Sciences”. during the 2nd December 2017 at Sri Satya Sai University of Technology & Medical Sciences, Sehore
	xvii.	Evaluated the project under science for socio economic development funding agency MPCST Bhopal
	xviii.	In the technical committee of International Conference on
	xix.	Renewable Energy and Power Engineering (REPE 2018) will be held in Toronto, Canada on November 24-26, 2018

Invited talk/Lectures delivered	1. Expert lecture at R.G.T.U Bhopal, 8 Feb. 2011, Projection of points 2. Expert lecture at R.G.T.U Bhopal, 10 Feb. 2011, Projection of lines 3. Expert lecture at R.G.T.U Bhopal, 11 Feb. 2011, Projection of planes 4. Expert lecture at Indore Institute of Technology, Indore, 18 Mar. 2011 Wind power basics 5. Expert lecture at N.R.I. Institute of Technology, Bhopal, Wind potential assessment 6. Expert lecture at Sagar Institute of Research & Technology, Bhopal ,M/c component designing 16 sept.2011 7. Expert lecture at Jai Narain College of Technology, Bhopal, 1-2 Jul,2011 Recent development in wind and solar power 8. Expert lecture at O.P.Jindal Institute of Tech. Raigarh, 18 Aug.2011, Micro siting and potential assessment of wind power 9. Expert lecture at Regional Institute of Education , 28 Feb 2012, Wind Energy Basics 10. Expert lecture at AICTE Sponsored Staff Development Program on "Research Methodology in Business Management"12th of May 2012 at LNCT Bhopal 11. Expert lecture at Khadi and Village Industries Commission, Ministry of Micro, small& medium enterprises Govt. Of India in Annual meet on 30th 2012 12. Expert lecture at Govt. Engg college Ujjain on Recent developments in wind power technologies on 30th Mar. 2013 13. Expert lecture in one day workshop on Alternative energy systems for REI'S on 20th Mar.2013 14. Expert lecture in One week STTP on Emerging Trends in electric power and energy systems at Electrical EnggDeptt MANIT Bhopal on 1st Jan 2014 15. Expert lecture on wind resource potential at Regional science centre Bhopal on 11 Mar 2014 16. Expert lecture in One week STTP on Recent trends in solar- wind energy at Mechanical EnggDeptt MANIT Bhopal on 7-11 Feb 2014 17. Expert lecture on Basics of wind energy at Central School- 2, Shivaji Nagar Bhopal organised by Vigyan Bharti on 11/02/2015 18. Expert lecture in One week STTP on Recent trends in solar- wind energy at Mechanical EnggDeptt MANIT Bhopal on 20-24 Feb 2015 19. Expert lecture in One week STTP on Recent trends in solar- wind energy at Mechanical Engg. Deptt MANIT Bhopal on 20-24 Feb 2015 20. Expert lecture in National conference on Recent advances in Electrical and Electronics Engineering at LNCT Bhopal on 14/03/2015 21. Expert lecture on Biodigester design and parameter evaluation at Sagar Institute of Research & Technology, Bhopal on 17/04/2015 22. Expert lecture on Renewable energy –opportunities & challenges Sinhgad institute of technology Lonavala,Pune on 26-30 October 201 23. Expert lecture on impact of pre-treatment and adapters in biomass generation Sagar Institute of Research & Technology, Bhopal on 28/05/2016 24. Expert lecture in One week STTP on advanced in energy efficient technologies (AEET) at Mechanical EnggDeptt MANIT Bhopal on 26-30 September 2016. 25. Expert lecture on design aspects of plug flow bioreactor at National Seminar on “Green Techno-economical Approaches in Development of Smart City: Role of Science & Technology” sponsored by M.P. Council of Science & Technology, Bhopal, 18 Nov, 2016. 26. Expert lecture on Research Paper Writing workshop on "Project Proposal Formulation", 07 March 2017 at M.P. Council of Science & Technology, Bhopal. On 27th, July 2018 One week induction program on “Research Methodologies in Engineering & Applied Science” from 25th-30th July 2018. at S.A.T.I. Vidisha, 27. On 13th, May 2018 Deliver an Expert Lecture as a Resource
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	person on “Recent Trends and Challenges in Bio Fuel Technology and Combustion” at S.A.T.I. (Engineering. College), Vidisha (M.P.), 464001 India. 28. Department of Mechanical Engineering, Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur, one week AICTE - ISTE sponsored Induction / Refresher Programme on “Recent Trends in Renewable Energy Resources” from 18/06/2018 to 23/06/2018. 29. One week Induction/Refresher Program on “Energy Conversion Technology”, scheduled from 23 - 28 July 2018 at Hindustan Collage Of Science & Technology, Farah, Mathura, U.P. 30. Delivered expert talk at Department of Mechanical Engineering, Jabalpur Engineering College, Jabalpur in (STTP) on the topic of Research Methodology, Tools and Techniques for Engineers (RMTTE-2018) on 09/04/2018
Editorial Board	(I) International Journal of Advance Research in Science and Engineering (IJARSE). ISSN : 2319-8354 (II) International Journal of Electrical And Electronics Engineers(IJEEE) ISSN : 2321-2055 (III) In Editorial Board of BLB International Journal of Science and Technology (BLBIJST). : ISSN : 0976-3074 (IV) International Journal of Advanced Technology in Engineering and Science (IJATES) ISSN: 2348-7550
Reviewer for the International Journal	(I) International Journal of Sustainable Energy and Environment (II) International Journal of Science and Technology (III) International Journal of Advance Research in Science (IV) International Journal of Energy Storage. Elsevier (V) International Journal of Renewable and sustainable Energy Review: Elsevier (VI) International Journal of Clean Technology and Environmental Policy: Springer Link