

CURRICULUM-VITAE

SIRAJ AHMED KHAN

Professor

Department of Mechanical Engineering (Room F03), MANIT Bhopal 462003 India

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Scopus Author ID 55456823000 Orcid ID 0000-0003-2248-5646 Researcher ID P-2378-2016

Area of Interest and Research: *Wind Energy:* Resource Assessment, Flow Modeling, Remote Sensing, Wind Turbine Design and Performance Prediction, Site Selection, Wind-Farm Design and Project Development and Assessment. *General Mechanical Engineering Design.*

Subject Taught: *B.Tech.* Wind Energy Technology, Design of Machine Elements, Machine Design, CADD, Advanced Machine Design.

M.Tech. Detailed Design of Rotary Machine, Product Design, Design and Selection of Bearings, Wind Energy.

Educational Qualifications: Ph.D. (Some Studies on Design and Performance of Horizontal Axis Wind Turbine Generators RGPV 2005) M.Tech. (Design of Mechanical Equipment IIT D 1992) B.E. (MANIT formerly MACT 1987 with Distinction) HSSCE (PLSJ Model Model Gov. School Jabalpur 1982 Merit Scholarship).

Technical Training: *Remote Sensing for Wind Energy* [2013] DTU Wind Energy Danish Technical University, Denmark. *Wind Energy* [1995-96] University of Salford, UK

Supervised Ph. D. Research Work: Scholars Graduated (Ten) and Currently Mentoring (Two) in the area of *Wind Energy*.

Research Publications: Forty-three Scopus research paper with 10 h index with 512 citations.

Books Authored: (1) WIND ENERGY: Theory and Practice *Siraj Ahmed*, 3/e, 2016, PHI, *Eastern Economy Edition* ISBN978-81-203-5163-9 New Delhi.

(2) MECHANICAL ENGINEERING DESIGN *Siraj Ahmed*, 2014, PHI, *Eastern Economy Edition* ISBN: 978-81-203-4931-5 New Delhi.

(3) DESIGN AND OPTIMIZATION OF 150 m WIND MONITORING TOWER In Indian Condition. Pramod Sharma, Vilas Warudkar and *Siraj Ahmed* 2019. Lambert Academic Publishing. ISBN 978-620-0-45608-3.

(4) Experimental Investigations to study the Effect of Coatings to Reduce Hydrogen Embrittlement of High-Strength Steels. Manish Vishwakarma, Amit Khare and *Siraj Ahmed* 2023, walnutpublication.com ISBN 978-935911476-7.

Patent Granted: *Disc on Disc Type Rolling Wear Testing Machine* (No. 521250, 07.03.2024) and *Dual Wear Tribometer* (No. 422991, 24.02.2023), the Patent Office, GoI.

Designed, proposed and introduced **M.Tech. Programme in Industrial Design**. The programme has been successfully running in Department of Mechanical Engineering, MANIT since July 1996.

External Sponsored R & D Projects Completed under BRNS (BARC GoI), MHRD (GoI), DST, MST, GOI, Science and Engineering Research Council Scheme for Young Scientist of about Rs. 75 Lakhs.

Consultancy Projects: Completed more than 15 Industrial Consultancy Projects mostly in the area of *wind energy* of more than Rs. 10 Lakhs.

Letter of Appreciation (2014) for “Contribution to MANIT to Aim for Centre of Excellence”

Book Chapters

- (1) *Application of Remote Sensing in Wind Resource Assessment* (2020). ENCYCLOPAEDIA OF RENEWABLE AND SUSTAINABLE MATERIALS, vol.3, pp. 265–276. Oxford: Elsevier.
- (2) *Advancement in remote sensing of wind energy. Advances in Clean Energy Technologies* (2021). Pages 207-233. Academic Press.
- (3) *Tribological Behaviour of Carbide-Free Bainite in High Silicon Steel* (2021). Book: Advanced Materials and manufacturing Processes, 1/e, CRC Press, Paged; 9, eBook ISBN 978003093213.

Articles Published

Several Articles of National Importance is Published on *Wind Energy* in MNRE GOI publication AKSHAY URJA: *Remote Sensing Application in Wind Energy* [2014], *Re-Powering the Wind Power* [2015], *Wind!* [2016] and *Vibrant Winds Blowing Across India* [2016].

Administrative Work: *Head of the Department* 2013-2015, during the tenure Programme of B. Tech. in Mechanical Engineering have been granted five-year Accreditation (Grade-A) from National Board of Accreditation (NBA). Extensive experience as *PG Programme Coordinator, Research Committees, Faculty Recruitment Committees, Warden, Chairman Council of Wardens, Joint Controller of Examination* et cetera. Senate Member External Expert NIT Raipur. Advisor UPSC (Subject Expert). Empanelled Subject Expert for Ph. D. Research Examination Anna University, Osmania University et cetera.

Coordinator for five **STTPs** focussed on *Wind Energy Technology* have been conducted in recent past and collaborated with IIT BHU and NIT Allahabad at their place. And organized three **International Conference** organized as **Chairman/Secretary** on **Renewable Energy**.

Invited/Expert/Guest Lectures: Delivered **More than One Hundred** Invited/Expert Lectures various aspects of *Wind Energy Technology* in India (IIT, NIT, IIFM, IE (I), DTU, BHEL etc.) and abroad (University of Jordan [Amman], University of Malaysia [Kuching], IE Sri Lanka [Columbo], et cetera)

Lecture Series: 2017-2023 *Wind Energy Technology*, REM Elective Subject, PGDFM Program, IIFM, Bhopal. 2024 *Wind Energy Technology*, Sustainable Energy Transition, PGDFM Program, IIFM, Bhopal

Lecture Series: 2015-16 Machine Design (Fatigue, Gear and Design of Shaft) for Trainee Engineers at BHEL, Human Resource Development Centre, Bhopal.

Abroad Visited

- Jordan (2013) Key Note Speaker on *Wind Energy* in International Conference on Renewable Energy, GCREEDER 2013. University of Jordan, Amman
- Denmark (2013) Technical Training, *Remote Sensing in Wind Energy*, DTU Wind Energy
- Sri Lanka (2012) Resource Person on Wind Energy: International Conference on Clean and Green Energy
- Malaysia (2011) International Conference on Renewable Energy
- USA (2008 and 2009) Consultancy Project of *Wind Energy* Development
- China (2007) International Conference *Wind Energy*
- UK (1995-96) Technical Training (Six Months) *Wind Energy*

MoU with Industry/Institutes:

- National Institute of Wind Energy (MNRE GoI) Chennai 2003-05, Wind Energy Laboratory Wind Resource Assessment Facility, *Installed Wind Monitoring Stations* and *Developed Wind Energy Laboratory*.
- Environmental Assessment Division BARC Mumbai 2010-13, Dust Emission Monitoring and its Modelling (*Wind Related Studies*), *Dust Emission Assessment and Modelling* at Jaduguda Uranium Mines, Jharkhand.

DETAILED BIO-DATA

Name: SIRAJ AHMED KHAN

Designation: Professor & Former Head

Department of Mechanical Engineering (Room F03)

Maulana Azad National Institute of Technology

(An Institute of National Importance, Ministry of Education, Government of India)

Bhopal 462003 India

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Email sirajahmed@manit.ac.in siraj.ahmed@yahoo.com

Scopus ID 55456823000 ORCID 0000-0003-2248-5646

Address: HOUSE NO. III/24, MANIT CAMPUS, BHOPAL 462003 India

Date of Birth: 15 JULY 1965

(1) Educational Qualifications

S. No.	Degree	Board/University	Year	% Marks/ CGPA	Class/ Division	Title of Thesis
1	Ph. D. (Mechanical Engineering)	RGPV Bhopal	2005			Some Studies on Design and Performance of Horizontal Axis Wind Turbine Generators (Supervisor: Dr. M.M. Pandey, CIAE, Bhopal Dr. A.R. Ansari Department of Mechanical Engineering, MANIT Bhopal)
2	M.Tech. (Design of Mechanical Equipment)	IIT Delhi	1992	7.17	First	An Educational Package of Gears (Supervisor: Dr. T.K. Kundra Dr. P.N.Rao Department of Mechanical Engineering IIT Delhi)
3	B.E. (Mechanical Engineering)	MANIT (MACT) Bhopal University	1987	76.00	First with Distinction	
4	HSSC	M.P. BOARD	1982	79.01	First	

		(P.L.S. Jha Govt. Model School, Jabalpur)			(Merit Scholarship In-Top 100)	
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(2) Administrative Assignment

S.No.	Designation	Start Date	End Date	No. of Semester	Nature of Work	Industry / Organisation
1	Head of Department	8.7.2013	8.7.2015	4	Administrative & Academic Work	MANIT BHOPAL
2	Programme Coordinator M.Tech. Industrial Design	1.7.2015	30.6.2017	4	Administrative & Academic Work	MANIT BHOPAL
3	Member, Departmental Research Committee (DRC) 2022-23	1.7.2022	30.6.2023	2	Administrative & Academic Work	MANIT BHOPAL
4	Member Departmental Undergraduate Programme Committee (DUPC) 2022-23	1.7.2022	30.6.2023	2	Administrative & Academic Work	MANIT BHOPAL
5	Member, Departmental Research Committee (DRC) 2021-22	1.7.2021	30.6.2022	2	Administrative & Academic Work	MANIT BHOPAL
6	Member, Departmental Research Committee (DRC) 2020-21	1.7.2020	30.6.2021	2	Administrative & Academic Work	MANIT BHOPAL
7	Member, Departmental Research Committee (DRC) 2016-17	1.7.2016	30.6.2017	2	Administrative & Academic Work	MANIT BHOPAL
8	Programme Coordinator	1.7.2015	30.6.2017	4	Administrative & Academic	MANIT BHOPAL

	M.Tech. Industrial Design				Work	
9	Coordinator Preparation of Self Appraisal Report (SAR) of NBA for M.Tech. Industrial Design	1.7.2016	30.6.2017	2	Preparation of Self Appraisal Report (SAR)	MANIT BHOPAL

(3) Academic Program Developed

S. No.	Name of Academic Program	Level	Year of Commencement
1	M.TECH. INDUSTRIAL DESIGN	PG LEVEL	1996

Designed, proposed and introduced M.Tech. Programme in Industrial Design. The programme conducted successfully and conducted in Department of Mechanical Engineering, MANIT during 1996-2025 and it is changed to Machine Design.

(4) Details of Honours & Awards

S. No.	Name of Honors & Awards	Year	Awarding Agency
1	Letter of Appreciation for “Contribution to MANIT to Aim for Centre of Excellence”	2014	MANIT BHOPAL
2	Certificate of Merit of paper published in Journal of Institution of Engineers (I), “Optimum Design of Rotor and Hub for Horizon of tal Axis Wind Turbine- A Case Study”.	2008	Institution of Engineers (I)
3	Certificate of Merit of paper published in Journal of Institution of Engineers (I), “WindPower- A Tool for Optimum Site Matching of a Wind Turbine”.	2006	Institution of Engineers (I)
4	Merit Certificate in National Design Competition (Design of foldable collapsible trolley)	1985	Visveswaraya Technological Museum, Bangalore
5	National Merit Scholarship in HSSCE	1982	M.P. Board of Higher Secondary Education

(5) Details of Visits Abroad

S. No.	Purpose	Year	Country	Outcomes
1	Key Note Speaker on Remote Sensing Applications in Wind Energy, Global Conference on Renewable Energy for Desert Regions, University of Jordan,	2013	Jordan	Key Note Speaker

	Amman			
2	Ph.D. Summer School, Remote Sensing for Wind Energy, DTU Wind Energy, Copenhagen	2013	Denmark	Technical Training
3	International Conference on Clean and Green Energy 25 June 2012, Delivered Key Note Address on Wind Resource Assessment and Grid Integration. The Institution of Engineering and Technology (Sri Lanka Network), Colombo	2012	Sri Lanka	Resource Person
4	International Conference on Renewable Energy	2011	Malaysia	Conference Paper
5	Wind Farm Development Project, Harte Ranch, Colorado USA	2008 & 2009	USA	Consultancy Project
6	International Conference on Wind Energy	2007	China	Conference Paper
7	Technical Training on Wind Energy Technology	1995-1996	UK	Technical Training on Wind Energy Technology

(6) Details of MoU with Industry/Institutes

S. No.	Name of Industry/Institutes	Year		Objective	Outcomes
		From	To		
1	National Institute of Wind Energy (MNRE GoI) Chennai	2003	2005	Wind Energy Laboratory Wind Resource Assessment Facility	Installed Wind Monitoring Stations and Developed Wind Energy Laboratory
2	Environmental Assessment Division BARC Mumbai	2010	2013	Dust Emission Monitoring and its Modelling (Wind Related Studies)	Dust Emission Assessment and Modelling at Jaduguda Uranium Mines, Jharkhand

(7) Teaching & Work Experience

S. No.	Name of Institution	Position	From	To	Total Years	Pay Level & Pay Scale (Band) with AGP/GP Separately

1	M.A.N.I.T. Bhopal	Professor	4.6. 2011 (Date of eligibility 1.1.2010)	To Date	15	Level-14A AGP-10500
2	M.A.N.I.T. Bhopal	Associate Professor	1.1. 2006	1.1. 2010	4	PB-4 AGP 9000
3	M.A.N.I.T. Bhopal	Assistant Professor	1.7. 2003	31.12.2005	2	37000-57000
4	M.A.N.I.T. Bhopal	Lecturer Selection- Grade	1.7. 1999	30.6. 2003	4	37000-57000
5	M.A.N.I.T. Bhopal	Lecturer Senior-Scale	1.7. 1994	30.6. 1999	5	3000-5000
6	M.A.N.I.T. Bhopal	Lecturer	1.7. 1992	30.6. 1994	2	2200-4000
7	J.M.I. New Delhi	Lecturer	17.11.1987	26.6.1992	4	2200-4000
8	Gajra Gears Dewas	Trainee Engineer	1.9.1987	23.9.1987		1500

(8) Sponsored Research & Development Project

S.No.	Year of Award	Title of Project & Funding Agency	Amount Lakhs (In INR)	Role
1	2009	Dust Emission and Dispersion Modelling for Open Cast Uranium Mine, Board of Research in Nuclear Sciences (BRNS), BARC, Government of India, Department of Atomic Energy (DAE), Mumbai	Rs. 34 Lakh	Principle Investigator
2	2003	Effect of Shot Peening on Gears for Wear, Pitting and Fatigue, Development of Wind Energy Laboratory, Ministry of Human Resource Development, GOIF.27-1/2003TS.V, 31.3.2003 Under the Thrust Area in Technical Education	Rs. 35 Lakh	Principle Investigator

3	1996	Department of Science and Technology, Ministry of Science and Technology, GOI, HR/OY/E-14/1996, Science and Engineering Research Council Scheme for Young Scientist	Rs. 1.6 Lakh	Principle Investigator
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(9) Patent Granted

S. No.	Patent Title	Status		Role	
		Date of Application & Details	Date of Grant	Inventor	Co- Inventors
1	Dual Wear Tribometer	15.08.2017 201721028933A The Patent Office Journal p 34	24.02.2023 Patent No. 422991	Siraj Ahmed	Ravi Kumar Dwivedi Rajan Kumar
2	Disc On Disc Type Rolling Wear Testing Machine	28.10.2016 201621035704A The Patent Office Journal p 71960	7.3.2024 Patent No. 521250	Siraj Ahmed	Ravi Kumar Dwivedi

(10) Book Authored

S. No.	Title of Text Book	Name of Publisher	ISBN No.	Year of Publications	Year of Latest Edition
1	WIND ENERGY: Theory and Practice Siraj Ahmed	PHI, Eastern Economy Edition New Delhi	978-81-203-5163-9	3/e 2016 2/e 2012 2010	2016 3 rd Edition
2	MECHANICAL ENGINEERING DESIGN Siraj Ahmed	PHI, Eastern Economy Edition New Delhi	978-81-203-4931-5	2014	2014

(11) Book Chapters Contributed

S. No.	Title of Chapter	Title of Book	Name of Publisher	Year of Publications
1	Tribological Behavior of Carbide-Free Bainite in High Silicon Steel: A Critical Review	Advanced Materials and Manufacturing Processes	Taylor & Francis Group 1/ed CRC Press eBook ISBN9781003093213	2021 pp. 203–212

			https://doi.org/10.1201/9781003093213	
2	Application of Remote Sensing in Wind Resource Assessment	Encyclopedia of Renewable and Sustainable Materials: Volume 1-5	Elsevier Ltd. ISBN 978-0-12-813196-1 https://doi.org/10.1016/B978-0-12-803581-8.11038-0	2020 pp. 265–276
3.	Advancement in Remote Sensing of Wind Energy	Advances in Clean Energy Technologies	Academic Press ISBN 978-0-12-821221-9 https://doi.org/10.1016/B978-0-12-821221-9.00005-0	2020, pp. 207–233

(12) Consultancy Projects Undertaken

S. No.	Sponsoring Agency	Financial Year	Consultancy Amount (In INR)
1	CEO, Nagar Palika Parishad, Sidhi (MP) Raw and Clean Water Supply (pumping) Design & Drawing Verification	2016	Rs. 57,250/-
2	ICSC Project No.EE/2015-16/SJ/674 IFFCO TOKIO Insurance Company Ltd., Bhopal Consultancy in relation with Breakdown and Damage Analysis of 1 MW Wind Generator	2016	Rs. 133250/-
3	Extol Co. Bhopal 3-Phase Symmetrical Short Circuit Test On 1 MW PMSG (Extol-Wind Make)	2013	Rs. 75,000/-
4	Vipo Energy Resources, Inc. 304, Ross St. 7th Fl. Pittsburg, PA 15219 USA Wind Energy Development Project	2010	Rs.1,00,000/-
5	Gurpreet & Brothers Engineering Pvt. Ltd., Govindpura, Bhopal Design and Drawing Verification of Trailer (Hydraulic Modular Trailer-Two & Four Axles)	2010	Rs. 33,000/-
6	Gurpreet & Brothers Engineering Pvt. Ltd., Govindpura, Bhopal Design and Drawing Verification of Trailer (Hydraulic Modular Trailer-Six Axles)	2010	Rs. 72,000/-
7	Sanawad Municipal Council, Khargone Design verification of design note on pump and machinery	2010	Rs. 5,000/-
8	BMC Bhopal Garbage Container: Specification Verification	2009	Rs. 5,000/-
9	Kirloskar Brother's Ltd. (KBL), Site: MEC Shots, Jodhpur for Nuclear Power Corporation of India Shot peening of stuffing box	2007	1,20,000/-

10	Akshay Industries, Bhopal Design Verification of locally manufactured Trailer - Double Axle Trailers and Tripple Axle Trailers	2007	Rs. 10,000/-
11	Data related greenhouse gases from residential sector of India Sponsored by Mizuho Information and Research Institute Tokyo, Japan	2007	Rs. 5,62,950/-
12	Affalatus Engineering Enterprises, Bhopal Design Verification of locally manufactured Trailer	2006	Rs. 10,000/-
13	Pee Cee Soap & Chemicals Pvt. Ltd. Agra Consultancy required on fuel, energy and power definition and opinion	2006	Rs. 7,500/-
14	HEG Ltd. Tawa Hydro Electric Power Plant, Tawa-Nagar Wind Data Monitoring and Energy Potential Assessment	2005	Rs. 36,000/-

(13) Ph. D. Research-Work Supervised

Sr. No.	Name of Scholar	Topic of Research	Date of Ph.D. Award Status	Supervisor(s)
1	Pramod Kumar Sharma 173116001	Wind flow analysis for a complex terrain wind farm by experimental investigation and simulation	Awarded on 28.12.2021	Dr. Siraj Ahmed Dr. Vilas Warudkar
2	Rajan Kumar 163116004	Investigation and experimental analysis of wear characteristics of alloy steel for different surface conditions	Awarded on 20.10.2021	Dr. R.K. Dwivedi Dr. Siraj Ahmed
3	Amit Khare 143216016	Experimental investigations to study the effect of coatings to reduce hydrogen embrittlement of high strength steels	Thesis Submitted on 14.7.2020	Dr. Manish Vishwakarma Dr. Siraj Ahmed
4	Prem Kumar Chaurasiya 143116007	Application of Different Remote Sensing Techniques in Wind Energy Assessment	Awarded on 08.8.2019	Dr. Siraj Ahmed Dr. Vilas Warudkar
5	Manoj Verma 123116002	Techno-Economic Analysis of Re-powering of Wind Farm: A Case Study in Central India	Awarded on 04.11.2017	Dr. Siraj Ahmed Dr. J. L. Bhagoria
6	Rajesh Katiyal 0101CE09PD80	Wind variability analysis and shape optimization of wind sensitive structures for complex terrain	Awarded on 14.5.2015	Dr. Salim Akhtar Dr. Siraj Ahmed Dr. S. Gomathinayagam
7	Arvind Rathore 063216104	Development of High Efficiency Horizontal Axis Wind Turbine Rotor	Awarded on 2.12.2013	Dr. Siraj Ahmed

8	Vilas Warudkar 073216109	Modelling and optimization of wind power density of a wind farm in complex terrain	Awarded on 22.11.2013	Dr. Siraj Ahmed
9	Nitin Tenguria 083101101	Optimum design, modelling and performance prediction of wind turbine rotor	Awarded on 21.7.2012	Dr. N.D. Mittal Dr. Siraj Ahmed
10	Nilesh Diwakar 0101ME06PD0 22	Optimization of Wind Energy Potential for Power Generation in a Hilly site of Bhopal	Awarded on 22.6.2011	Dr. V.K. Sethi Dr. Siraj Ahmed
11	Subramanyam Ganesan 63116101	Spatial Variation Analysis of Wind Energy Potential by Flow Modelling and Time Series Wind Characteristics	Awarded on 21.9.2009	Dr. Siraj Ahmed
12	Yasir Baig 213116016	Machine Learning-Driven Wind Speed Forecasting and Layout Optimization for Cost-Effective Offshore Wind Farms	RDC 5.1.2024	Dr. Siraj Ahmed
13	Naveen Kumar Solanki 2331601008	Hybrid Aerodynamic and Machine Learning - Based Optimization of Operations and Performance of Wind Turbines	RDC 9.7.2025	Dr. Siraj Ahmed Dr. Vilas Warudkar

(14) Conducting Workshop/FDP/STC

S. No.	Title	Workshop/DP/STC	Duration		Total no. of Days	Role	Venue
			From	To			
1	Faculty Development Programme Advances in Product Design and Manufacturing Course Coordinator	STC Sponsored by Electronics and ICT Academy, IIITDM, Jabalpur	3.1.2017	8.1.2017	5	Course Coordinator	Department of Mechanical Engineering MANIT Bhopal
2	Recent Trend in Solar and Wind Energy Course Coordinator	STC Self-Sponsored	20.6.2016	24.6.2016	5	Course Coordinator	Department of Mechanical Engineering MANIT Bhopal
3	Recent Advances in Product Innovation and Design	STC TEQIP II	17.2.2014	21.2.2014	5	Chairman	Department of Mechanical Engineering MANIT Bhopal

4	Recent Trends in Solar and Wind Energy	STC TEQIP II	7.2.2014	11.2.2014	5	Course Coordinator	Department of Mechanical Engineering MANIT Bhopal
5	Application of Statistical Packages in On-Line Quality Control	STC TEQIP II	25.6.2013	29.6.2013	5	Course Coordinator	Department of Mechanical Engineering MANIT Bhopal

(15) National / International Conference/Workshop Organized

S. No.	Title of the conference	Level	Duration		Role	Venue
1	International Conference on Mechanical Engineering: Emerging Trends for Sustainability (IC MEETS 2014)	International Conference	29.1.2014	31.1.2014	Chairman	Organized by Department of Mechanical Engineering, MANIT, Bhopal
2	TEQIP II Workshop on Preparing Young Researchers,	National Workshop	3.3.2014	4.3.2014	Chairman	Organized by Department of Mechanical Engineering, MANIT, Bhopal
3	National Conference on Frontiers in Mechanical Engineering (FIME 2013)	National Conference	29.8.2013	31.8.2013	Chairman	Organized by Department of Mechanical Engineering, MANIT, Bhopal

(16) Outreach Activity

S. No.	Name of the activity	Place	Dated
1	Senate Member External/Expert Member NIT Raipur 2020-21	NIT Raipur	2020-22
2	Member Scrutiny Committee for Professor, Faculty Member Recruitment NIT Raipur	NIT Raipur	2020-22



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Maulana Azad National Institute of Technology, Bhopal, India • Scopus ID: 55456823000

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Conference Paper

Effect of uniformly varying width leading-edge slots on the aerodynamic performance of wind turbine blade

11

Citations

[Nanda, S.](#), [Ahmed, S.](#), [Warudkar, V.](#), [Gautam, A.](#)[Materials Today Proceedings](#), 2023, 78, pp. 120–127[Show abstract](#) [Full text](#) [Related documents](#)

Article

Application of lidar technology to predict wind resource for modern wind turbines

4

Citations

[Sharma, P.K.](#), [Warudkar, V.](#), [Ahmed, S.](#)[International Journal of Ambient Energy](#), 2022, 43(1), pp. 3757–3765[Show abstract](#) [Full text](#) [Related documents](#)

Article
Optimization of wind power plant sizing and placement by the application of multi-objective genetic algorithm (GA) in Madhya Pradesh, India
32 Citations
[Verma, M.](#), [Ghritlahre, H.K.](#), [Chaurasiya, P.K.](#), [Ahmed, S.](#), [Bajpai, S.](#)
[Sustainable Computing Informatics and Systems](#), 2021, 32, 100606
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Article
Influence of Multiphase High Silicon Steel (Retained Austenite-RA, Ferrite-F, Bainite-B and Pearlite-P) and Carbon Content of RA-Cy on Rolling/Sliding Wear
15 Citations
[Kumar, R.](#), [Dwivedi, R.K.](#), [Ahmed, S.](#)
[Silicon](#), 2021, 13(10), pp. 3307–3320
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Article • *Open access*

Analysis of wind characteristics parameters with the application of lidar and mast
11 Citations
[Sharma, P.K.](#), [Gautam, A.](#), [Warudkar, V.](#), [Ahmed, S.](#), [Bhagoria, J.L.](#)
[Wind Energy](#), 2021, 24(5), pp. 413–427
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Article
Stability of Retained Austenite in Carbide Free Bainite during the Austempering Temperature and its Influence on Sliding Wear of High Silicon Steel
20 Citations
[Kumar, R.](#), [Dwivedi, R.K.](#), [Ahmed, S.](#)
[Silicon](#), 2021, 13(4), pp. 1249–1259
Show abstract  Full text  Related documents

Conference Paper

Aerodynamic Design of Rotor of 1 Kw Horizontal Axis Wind Turbine
0 Citations
[Shrivastava, S.](#), [Ahmed, S.](#), [Warudkar, V.](#)
[2021 IEEE 2nd International Conference on Electrical Power and Energy Systems Icepes 2021](#), 2021
Show abstract  Full text  Related documents

Article
Numerical and experimental analysis of the flow over sinusoidal hills
5 Citations
[Sharma, P.K.](#), [Warudkar, V.](#), [Ahmed, S.](#)

[International Journal of Ambient Energy](#), 2021, 42(3), pp. 244–250

Show abstract  Full text  Related documents

Book Chapter

Tribological Behavior of Carbide-Free Bainite in High Silicon Steel: A Critical Review

1

Citations

[Kumar, R.](#), [Dwivedi, R.K.](#), [Ahmed, S.](#)

[Advanced Materials and Manufacturing Processes](#), 2021, pp. 203–212

Show abstract  Full text  Related documents

Article

Evaluation of wind energy potential and estimation of wind turbine characteristics for two different sites

16

Citations

[Chaurasiya, P.K.](#), [Kumar, V.K.](#), [Warudkar, V.](#), [Ahmed, S.](#)

[International Journal of Ambient Energy](#), 2021, 42(12), pp. 1409–1419

Show abstract  Full text  Related documents

Article

A preliminary study of wind–solar hybrid systems potential in Jammu and Kashmir

2

Citations

[Sharma, P.K.](#), [Ahmed, S.](#), [Warudkar, V.](#)

[International Journal of Ambient Energy](#), 2020, 41(9), pp. 1026–1030

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Conference Paper • [Open access](#)

Evaluation of two wind flow models for wind resource assessment for a site

0

Citations

[Warudkar, V.](#), [Sharma, P.](#), [Ahmed, S.](#)

[E3s Web of Conferences](#), 2020, 167, 05001

Show abstract  Full text  Related documents

Article

Wear behaviour analysis of medium carbon high silicon alloy steel at different process parameter

10

Citations

[Kumar, R.](#), [Dwivedi, R.K.](#), [Ahmed, S.](#), [Singh, A.P.](#)

[Advances in Materials and Processing Technologies](#), 2020, 6(2), pp. 344–352

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Article

Application of a new method to develop a CFD model to analyze wind characteristics for a complex terrain

21

Citations

[Sharma, P.K.](#), [Warudkar, V.](#), [Ahmed, S.](#)

[Sustainable Energy Technologies and Assessments](#), 2020, 37, 100580

Show abstract  Full text  Related documents

Book Chapter

Application of Remote Sensing in Wind Resource Assessment

1

Ahmed, S., Chaurasiya, P.K.

Citations

Encyclopedia of Renewable and Sustainable Materials Volume 1 5, 2020, 1-5, pp. 265–276

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Article

Prevention of hydrogen embrittlement of high strength alloy steel using surface coating techniques

0

Citations

Khare, A., Vishwakarma, M., Ahmed, S.

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Advancement in remote sensing of wind energy

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Wear characteristics and temperature analysis of alloy steel using self-developed wear testing machine

[Kumar, R.](#), [Dwivedi, R.K.](#), [Ahmed, S.](#)

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Combating hydrogen embrittlement with graphene based coatings

[Khare, A.](#), [Vishwakarma, M.](#), [Ahmed, S.](#)

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Study of different parameters estimation methods of Weibull distribution to determine wind power density using ground based Doppler SODAR instrument

[Chaurasiya, P.K.](#), [Ahmed, S.](#), [Warudkar, V.](#)

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Comparative analysis of Weibull parameters for wind data measured from met-mast and remote sensing techniques

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Experimental investigation of hydrogen embrittlement during coating process and effect on mechanical properties of high strength steel used for fasteners

[Khare, A.](#), [Dwivedi, S.K.](#), [Vishwakarma, M.](#), [Ahmed, S.](#)

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Ganesan, S., Ahmed, S.

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Ahmed, S., Ganesan, S.

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WindPower - A tool for optimum site matching of a wind turbine

Ahmed, S., Samanta, R.K., Pandey, M.M., Ansari, A.R.

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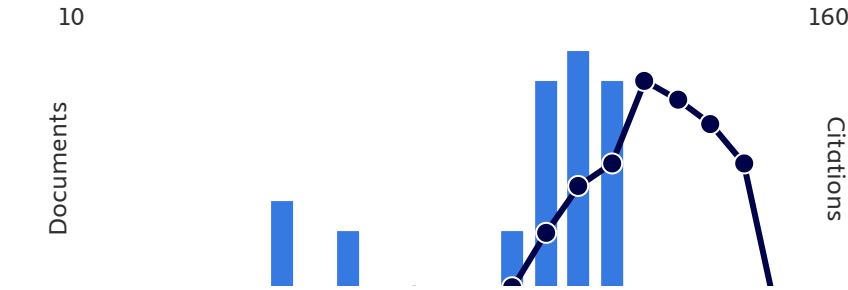
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(18) M. Tech. Projects Supervised

S. No.	Title of Dissertation	Name of Student and Scholar No.	Year of Award
1	Analysis and optimization of horizontal axis wind turbine in Indian conditions for offshore applications.	Tanish Singhal 2321603103	2024-25
2	Enhancing wind power capacity by repowering using advanced technologies: A case study of Nagda Hills Dewas, India	Santosh Chuvan 222116307	2023-24
3	Cost effective design and optimization of offshore wind farm in Tamil Nadu zones identified by National Institute of wind Energy, Chennai	Surykant Kumar 212116304	2022-23
4	Wind potential assessment by Weibull parameter estimation using different methods	Parveen Kumar Gautma 192116301	2020-21
5	Effect of uniformly varying width leading-edge slots on aerodynamic performance of wind turbine blade	Satyabrata Nanda 202116309	2020-21
6	Design, development and analysis of 2D multi-element blade aerofoil	Sashvat Verma 202116317	2020-21
7	Aerodynamic Design and Analysis of 1 kW Wind Turbine Rotor	Sonali Shrivastava 192116323	2020-21
8	Load Analysis and Design of Steel Tubular Wind Turbine Tower using Ansys	Akash Raikwar 152116309	2016-17
9	Design and Analysis of Vertical Axis Wind Turbine Using Ansys	Vikrant Nandanwar 152116305	2016-17
10	Development and Testing of Disc on Disc Type Rolling Wear Analysis Machine	Santosh Ashok Salunkhe 152116301	2016-17
11	Design of Small Wind Turbine	Dinkar Jhanghel	2013-14
12	Wind Tower Design	Pramod Kumar Sharma	2013-14

(19) B. Tech. Projects Supervision

S. No.	Title of Project	Name of Student	Year
1	Design and Development of Fatigue Testing Machine	Sumit Patidar, Satyam K. Shah, Saurabh Ojha, Luvkush Patel	2024-25
2	Optimum Selection of Wind Turbine Parameters for Available Wind Resources	Nitendra K., Ashmit Juyal, Girraj, Rohit K. Soni, Sanskar Tandon	2024-25
3	Wind Energy Conversion System.	Abhinav Wakey, S. Karthik, Abhinav S. Shyam, B. Sai Revanth, Aryan S. Baghel	2024-25

4	Solar Tracking System	Tushar S. Gautam, Atul K. Gupta, Rachit Nehra, Deepak Yadav	2024-25
5	MATLAB Simulation and machine Learning in Prediction of Wind Resources	R.S.Reddy 201116458, Yash Panthi 201116420, Mayank K 201116424, Pankaj Chauhan 201116431	2023-24
6.	Offshore wind energy technology: state of art.	M.V. Subbaiah 191116251, P.Harika 191116025, Y.V.K. Reddy 191116274, P. Saikiran 191116454 and B.Tharun Dev 191116277	2022-23
7	Offshore wind energy potential: resource assessment and development in India	Manikanta Pudi, Ganesh Chokkai, Urwash Kapse and Inshirah Siddiqui	2021-22
8	Study of Wind Energy and Traffic Wind Turbine	Naveen Sharma, Yogesh Rajput, Shivam Yadav and Manish Kumar	2020-21
9	Virtual Wind Farm using WAsP and WindPro Software of Off-shore Region	Anand Dubey, Arpit Kumar, Ashish Maurya and Mayur Dhurve.	2020-21
10	Hybrid electrical cycle	Akhil Govindraj, Rahul Jaiswal, Rakesh Singh, Bushra Javed Farooq	2019-20
11	Virtual wind farm design	Yogesh Rajput, Shivam Yadav, Naveen Sharma and Manish Kumar	2019-20
12	Design, development and standardization of small wind-solar hybrid energy system	Samrat Pathak, Resham Bahadur Thapa, Seabo Eugene Tefo Seaketso, S. Nambi Narayana and Sudip Kulkarni	2016-17
13	Design, development, fabrication, performance testing and standardization of solar water pump for water lifting to roof-top in buildings	Nikhil Johri, Durgesh K. Pathak, Madhusudan Deshpande and Satesh Vikram Singh	2015-16
14	Design, development, fabrication and performance testing of horizontal axis wind turbine (HAWT), small capacity for battery charging	Anshuman Yadav, Akshay Bhateja and Vivek Mishra	2015-16

(20) Invited Expert Lecture Delivered

S. No.	Title	Duration (Hour)	Programme	Place
1	Lecture Series: Wind Energy Technology and Management, Introduction, Classification, Aerodynamics, Site assessment techniques, Siting techniques, Turbine technology, Design, Economics, Market scenario, Indian perspective	7.8.2024 (1 Hour) 8.8.2024 (1 Hour) 29.8.2023 (1 Hour) 30.8.2023 (1 Hour) 5.9.2023 (1 Hour) 16.8.2022 (2 Hour) 17.8.2022 (2 Hour) 13.9.2021 (2 Hour) 21.10.2021 (2 Hour) 18.10.2021 (2 Hour)	PGDFM Renewable Energy Management MBA Programme	About 40 students and faculty members Indian Institute of Forest Management (IIFM) Bhopal
2	Wind Energy Technology: State of Art in Indian Perspective	1 Hr	Keynote Lectures 1 st International Conference on Advancement in Energy 19.12.2023	Department of Mechanical Engineering Motilal Nehru National Institute of Technology Allahabad Prayagraj
3	Wind Energy Technology: Indian Perspective	1&1/2 Hr	STC Renewable Energy Pathways and Technologies. 31.10.2022	NIT, UK, Srinagar
4	Wind Energy Technology: State of Art in Indian Perspective	2 Hr	STC Sustainable Development through Renewable Energy TEQIP-III 19.03.2021	Mechanical Engineering Department, NIT Kurukshetra

5	Wind Energy Technology: State of Art (Indian Perspective)	1&1/2 Hr	under TEQUIP II About 50 Faculty Members and Students Attended 19.10.2020	Gaya Engineering College
6	Wind Turbine Design and Performance Prediction	1&1/2 Hr	AICTE Sponsored FDP on ENERGY ENGINEERING 16.12.2020	IET, DAVV Indore
7	Wind Energy Technology: Wind Engineering, Housing & Planning.	1&1/2 Hr	Workshop on ENERGY EFFICIENT BUILDING TECHNOLOGY EEBT-2021. Organized by DOME & DOA 3.1.2021	NIT, Hamirpur
8	Wind Energy Technology: State of Art	1&1/2 Hr	TEQUIP III 5 Day FDP on Renewable Energy Sources & Future Energy Needs 17.2.2021	MITS, Gwalior
9	Wind Energy Technology: State of Art.	2 Hr	One-week STC AECTM – 2021 on Advances in Energy Conversion Technology & Management 1.3.2021	IET, Bundelkhand University, Jhansi
10	Wind Energy Technology: State of Art. STC on Sustainable Development through Renewable Energy	1&1/2 Hr	TEQUIP III Department of M.E. 19.3.2021	NIT, Kurukshetra
11	Wind Energy Technology: State of Art (Indian perspective)	2 Hr	Invited/Expert Lecture for Faculty Members and M.Tech. and Ph.D. Students 4.5.2017	About 50 Faculty Members & Students Attended at Department of Mechanical Engineering, AMU, Aligarh
12	Wind Energy Technology: State of	2 Hr	Invited/Expert Lecture for Faculty Members	About 40 Faculty Members & Students Attended

	Art (Indian perspective)		and B.Tech. Students 5.4.2017	at JIT Barabanki (UP)
13	Wind Energy Technology: State Of Art/Remote Sensing Application In Wind Resource Assessment	2 Hr	QIP, STC “Alternative Sources of Energy for Sustainable Development (ASESD 2017) 31.3.2017	About 50 Faculty Members & Research Scholars Attended at MNNIT, Allahabad
14	Wind Energy Technology: State of Art	2 Hr	AICTE, STTP on Solar Energy Applications 10.3.2017	About 35 Faculty Members & Research Scholars Attended at MITS Gwalior
15	Aerodynamic Design of Wind Turbine Rotor	1 ½ Hr	TEQUIP STTP R&D on Solar & Wind Energy Systems 10.1.2017	About 75 Faculty Members & Research Scholars Attended at Seminar Hall SGGS Institute of Engineering & Technology, Nanded
16	Lecture Series Machine Design for Graduate Engineer Trainees	4.5.2016 (1 ½ Hour) 29.12.2015 (1 ½ Hour) 03.12.2015 (1 ½ Hour) 02.12.2015 (1 ½ Hour)	Design of Shaft Design of Shaft Fundamentals of Fatigue Failure Design of Gears	Human Resource Development Centre (HRDC) BHEL, Bhopal
17	Wind Energy Technology: State of Art	2 Hr	Invited/Expert Lecture for M. Tech., B.Tech. Students and Faculty Members 10.12.2016	About 200 Attended Gyan Ganga Institute of Science & Technology, Jabalpur
18	Wind Energy Technology	2 Hr	Invited/Expert Lecture for M. Tech., B.Tech. Students and Faculty Members 21.9.2016	About 450 Attended LNCT, Bhopal
19	Wind Energy Technology	2 Hr	Invited/Expert Lecture for M. Tech., B.Tech.	About 100 Attended Takshshila

			Students and Faculty Members 03.9.2016	Institute of Engineering & Technology, Jabalpur
20	Wind Energy Technology	1 1/2 Hr	Workshop on “Alternative Power Generation” Chief Guest & Invited Speaker 12.5.2016	St. Vincent Engineering College, Nagpur
21	Wind Energy: State of Art	3 Hr	STTP on Renewable Energy, 10 Dec. 2014	Dept. of Electrical Engineering, DTU, Delhi
22	Wind Energy Technology	2 Hr	Key Note Address, Energy Meet, 15 Nov. 2014	Dept. of Physics, University of Kota
23	Introduction to Wind Energy	2 Hr	Seminar on Renewable Energy, 08 Nov 2014	ASCT, Bhopal
24	Wind Energy Technology and Application of Remote Sensing	1 Hr	Key Note Address: National Conference on Innovations in Mechanical Engineering, 17 th August 2013	LNCT & S, Bhopal
25	Wind Energy Technology: State of Art	1 ½ Hr	Workshop on Energy Conservation and Renewable Energy, 13-15 March 2013	S. V. Polytechnic, Bhopal
26	Wind Energy Technology	2 Hr	One Day National Workshop on Renewable Energy and Sustainable Energy, 2 Feb, 2013	Bansal Institute of Science & Technology, Bhopal
27	Wind Energy Technology	1 ½ Hr	National Conference on Emerging Trends in Mechanical Engineering, 29-30 Nov. 2012	TIT, Bhopal
28	Wind Energy: Sustainable Energy Security	1 Hr	Indian Institution of Industrial Engineering, Seminar, ‘Role of Non-Conventional Energy Sources for	IE (I) State Centre, Bhopal

			Sustainable Energy Security 1 Oct. 2012	
29	Wind Resource Assessment	3 Hours	STTP on Power Quality and Distributed Generation 4 May 2012	OIST, Raisen Road Bhopal