

## CURRICULUM-VITAE

**Dr. Mohammad Zahid Rayaz Khan (Ph.D.)**

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Gorakhanth, Gorakhpur (U.P.) India-273015



### Career Objective:

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Seeking a position to utilize my abilities, knowledge, and experience where I can effectively contribute my teaching, guidance and counselling skills in the institution that offers knowledge incubation and professional growth while being resourceful, innovative, and flexible.

### Professional Strength:

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- Outstanding communication and interpersonal skills
- Excellent time management and organizational skills
- Persuasive, emphatic with good problem-solving skills
- Proficient in Microsoft outlook, excel and Internet Explorer
- Quick learner, detail oriented and ability to adapt to new processes in limited time frame.
- Multi-tasking skills and ability to work under pressure.
- Experience of NBA Accreditation related activities.

### Education:

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- Ph.D.**            **MED, Madan Mohan Malaviya University of Technology, Gorakhpur, (UP)**  
**(Awarded on 28, July 2020)**  
Topic: Synthesis and Characterizations of Epoxy based Hybrid Wood Particulate Composites  
Supervisors: Prof. S. K. Srivastava, MED, MMMUT, Gorakhpur U.P.  
Dr. M. K. Gupta, MED, MNNIT Allahabad, Prayagraj U.P.
- M. Tech.**        **MED, Madan Mohan Malaviya Engineering College, Gorakhpur, (U.P.)** November 2013  
Specialization: Computer Integrated Manufacturing, Marks: 76.20% (Hons.)  
**Topic:** Optimization of Turning Process Parameter for Cylindrical Part Using Genetic Algorithm
- B.Tech.**         **Anand Engineering College, Agra (UP)**  
Uttar Pradesh Technical University, Lucknow (UP), June 2010  
Discipline: Mechanical Engineering, (63.90%)  
Project: Design and Development of Accident information System in Two Wheelers  
(Highly appreciated by Media)
- Intermediate**   **G N National Public School, Gorakhpur**  
CBSE Board, New Delhi, 2006  
Stream: PCM, Marks: 59%

**High School** **G N National Public School, Gorakhpur**  
CBSE Board, New Delhi, 2004  
Stream: Science, Marks: 65.80%

### **Teaching & Research Experience:**

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**10+ Years** of Teaching and Research Experience at Madan Mohan Malaviya University of Technology, Gorakhpur, Institute of Technology & Management, GIDA, Gorakhpur and KIPM College of Engineering & Technology, GIDA, Gorakhpur.

- **Assistant Professor & Head**, Mechanical Engineering Department, KIPM College of Engineering & Technology, GIDA, Gorakhpur (U.P.), July 2020 to till date.
- **Research Cum Teaching Fellow**, Mechanical Engineering Department Madan Mohan Malaviya University of Technology Gorakhpur (U.P.) July 2016 to June 2020 **(04 Years)**.
- **Assistant Professor**, Mechanical Engineering Department, Institute of Technology & Management, GIDA, Gorakhpur (U.P.), July 2013 to July 2016 **(03 Years)**.

### **Industrial Experience:**

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- **Site Engineer**, (2x600 MW) Shree Singaji Thermal Power Project, Malwa, (MP); Harji Engineering Works Pvt. Ltd. New Delhi, September 2010 to July 2011 **(10 Months)**.

### **Administrative Experience**

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- **Head**, Mechanical Engineering Department, KIPM College of Engineering & Technology, GIDA, Gorakhpur (February, 2021 to Till Date)
- **Center Observer<sub>1</sub>** University Admission Phase I Exam (2017), Madan Mohan Malaviya University of Technology Gorakhpur, UP, India
- **Center Observer<sub>1</sub>** University Admission Phase II (M.Tech. / Ph.D.) Exam (2017), Madan Mohan Malaviya University of Technology Gorakhpur, UP, India

### **Other Academic Responsibilities:**

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- **NBA Coordinator**, KIPM College of Engineering & Technology, GIDA, Gorakhpur (U.P.), April 2021 to till date.
- **Member of SAR preparation committee, NBA-2018 Accreditation**, Mechanical Engineering Department, Madan Mohan Malaviya University of Technology, Gorakhpur
- **Member of SAR preparation committee, NBA-2016 Accreditation**, Mechanical Engineering Department, Madan Mohan Malaviya University of Technology, Gorakhpur
- Developed laboratory manual for Computer Aided Design lab, Mechanical Engineering Department, Madan Mohan Malaviya University of Technology, Gorakhpur
- **Training and Placement coordinator**, Mechanical Engineering Department, Institute of Technology & Management, GIDA, Gorakhpur (July 2014 to June 2016)
- **Admission coordinator**, Institute of Technology & Management, GIDA, Gorakhpur (July 2014 to June 2016)
- **B.Tech. project coordinator**, Mechanical Engineering Department, Institute of Technology & Management, GIDA, Gorakhpur (July 2014 to June 2015).
- **In charge**, Fluid Machinery lab, Institute of Technology & Management, GIDA, Gorakhpur (January 2014 to June 2016).

- **In charge**, Computer Aided Design lab, Institute of Technology & Management, GIDA, Gorakhpur (August 2013 to June 2016).

### Research Interest:

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- Composite Materials (Polymer Composites)
- Material Design
- CAD/CAM, CIM

### Research Publications:

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Total Research Publications	: 15, (Google Scholar Citations: 223, h-index 7, i10-index: 5)
In Referred Journals	: 10 (07 SCI, 01SCIMago, 02 others)
In Conferences	: 05 (02 International & 03 National)

### B.Tech. Project:

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Supervised : 07

### Memberships of Professional Bodies:

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Associate Member, **The Institution of Engineers (India), AM181178-1, 2018**

### Conference/ Workshop/ Training Organized:

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1. IEEE sponsored International conference on “**Energy, Environment & Material Sciences (ICE2M-2019)**”, as member of organizing committee, jointly organized by National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Italy and Madan Mohan Malaviya University of Technology, Gorakhpur, India; December 1-3, 2019
2. International conference on “**Advanced Production and Industrial Engineering (ICAPIE' 18)**” as member of organizing committee, organized by Center for Advanced Production and Industrial Engineering (CAPIER), Delhi Technological University, Delhi, India 5<sup>th</sup> -6<sup>th</sup> October 2018
3. TEQIP sponsored International conference on “**Challenges in Sustainable Development from Energy & Environment Perspective (CSDEEP-2017)**” as member of organizing committee, 24<sup>th</sup> -25<sup>th</sup>, March 2017
4. “**SciTech-2015**” as Joint Organizing Secretary, Institute of Technology & Management, GIDA, Gorakhpur, 30<sup>th</sup> October - 01 November 2015

### Conference/ Workshop/ Training Attended:

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1. Attended one-week workshop on “**Cyber Security and Information Assurance (CSIA) 2022**” organized by Computer Science Engineering Department, Rajkiya Engineering College, Sonbhadra (U.P.), India 27<sup>th</sup> – 31<sup>st</sup> Jan 2022.
2. Attended two days national workshop on “**Transformation through NAAC Accreditation Process' National Workshop for Higher Educational Institutions**” organized by Institute for Academic Excellence (IAE), Hyderabad, India 21<sup>st</sup> & 22<sup>nd</sup> June 2021.
3. Attended one-week FDP program on “**NAAC-Understanding NAAC DVV, Quantitative & Qualitative Metrics to Prepare SSR**” organized by Aggarwal Educational Solutions, Hisar, Haryana & Sita Ram Arya Memorial College of Education, Jind, Haryana, India 1<sup>st</sup> – 07<sup>th</sup> June 2021.

4. Attended **TEQIP-III** sponsored one-week faculty development program on “**Emerging Trends in Thermal, Design & Manufacturing (ETDM-2020)**” organized by Mechanical Engineering Department, Madan Mohan Malaviya University of Technology Gorakhpur, UP, India 26<sup>th</sup> – 30<sup>th</sup> October 2020.
5. Attended **TEQIP-III** sponsored one-week short term training program on “**Advancements in Mechanical Engineering (AME-2018)**” organized by Department of Mechanical Engineering, Madan Mohan Malaviya University of Technology Gorakhpur, UP, India 17<sup>th</sup> – 23<sup>rd</sup> December 2018
6. Attended TEQIP-III sponsored one-week Short Term Course on “**Composite Materials: Overview, Characterization and Application (CMOCA-2018)**” organized by Mechanical Engineering Department, Motilal Nehru National Institute of Technology Allahabad UP, India 16<sup>th</sup> – 20<sup>th</sup> July 2018
7. Attended **TEQIP-III** sponsored one-week short term training program on “**Computational & Manufacturing Challenges in Mechanical Engineering (CMCME-2018)**” organized by Department of Mechanical Engineering, Madan Mohan Malaviya University of Technology Gorakhpur, UP, India (19<sup>th</sup> – 25<sup>th</sup> March 2018).
8. Attended TEQIP-II sponsored one-week training program on “**ANSYS**” organized by Department of Mechanical Engineering, Madan Mohan Malaviya University of Technology Gorakhpur, UP, India 27<sup>th</sup> – 31<sup>st</sup> March 2017
9. Attended TEQIP-II sponsored school on “**Mechanics of Reinforced Polymer Composites**” organized by Indian Institute of Technology, Kanpur, UP, India 22<sup>nd</sup> – 25<sup>th</sup> January 2017
10. Participated in TEQIP-II sponsored three-day workshop on “**LaTeX for research**” Dec 12-14, 2016, at Madan Mohan Malaviya Engineering College Gorakhpur, (U.P.) India
11. Attended TEQIP-II sponsored one-week Short Term Course on “**Advances in Composite Materials (ACM-2016)**” organized by Mechanical Engineering Department, Motilal Nehru National Institute of Technology Allahabad UP, India 21<sup>st</sup> – 26<sup>th</sup> October 2016
12. Attended TEQIP-II sponsored one-week Short Term Course on “**Recent Advancement in Electrical Systems & Renewable Energy (RAERE-2016)**” organized by Electrical Engineering Department, Madan Mohan Malaviya University of Technology Gorakhpur, UP, India (1<sup>st</sup> – 7<sup>th</sup> August 2016)
13. Attended Dr. A P J Abdul Kalam Technical University Lucknow Sponsored. one-week faculty development program on “**Manufacturing Science and Technology**” organized by Azad Institute of Engineering & Technology (AIET), Lucknow India 14<sup>th</sup> – 18<sup>th</sup> January 2016
14. Attended “30th National Convention of Mechanical Engineers & National Seminar on the theme of “**Green Technology in Power Sector**” Sept 27-28, 2014”, at Madan Mohan Malaviya Engineering College Gorakhpur, organized by institution of Engineers (India) Uttar Pradesh State Centre

#### **Subject Taught:**

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- **UG Level**

Computer Aided Design, Fluid Machinery, Heat & Mass Transfer, Computer Aided Manufacturing, Industrial Engineering, Automobile Engineering

- **PG Level (During Research cum Teaching Fellowship)**

## Research Paper Publications:

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### SCI/SCIE Journals

1. **Characterization of TiO<sub>2</sub> microparticles blended polymer-based hybrid wood particulate composites**, Mohammad ZR Khan, S.K. Srivastava and MK Gupta, *Mechanics of Composite Materials*, Vol. 57 (02), pp.247-256, 2021. ISSN No. 0191-5665, (*I.F. 1.333*), (**SCI E**).
2. **Enhancement of the properties of hybrid woods polymer composites by chemical pre-treatments**, Mohammad ZR Khan, S.K. Srivastava and MK Gupta, *Proceedings of the Institution of Mechanical Engineers Part L: Journal of Materials: Design and Applications*, Vol. 235 (04), pp.828-841, 2021. ISSN No. 1464-4207, (*I.F. 2.311*), (**SCI E**).
3. **A state-of-the-art review on particulate wood polymer composites: processing, properties and applications**, Mohammad ZR Khan, S.K. Srivastava and MK Gupta, *Polymer Testing*, Vol. 89, p.106721, 2020. ISSN No. 0142-9418, (*I.F. 4.282*), (**SCI E**) (Google Scholar Citations: 31)
4. **Hybrid wood particulates composites: mechanical and thermal properties**, Mohammad ZR Khan, S.K. Srivastava and MK Gupta, *Material Research Express*, Vol. 6, p.105323, 2019. ISSN No. 2053-1591, (*I.F. 1.929*), (**SCI E**) (Google Scholar Citations:12)
5. **Water absorption and its effect on mechanical properties of hybrid wood particulates composites**, Mohammad ZR Khan, S.K. Srivastava and MK Gupta, *Material Research Express*, Vol. 6, p. 105305, 2019, ISSN No. 2053-1591, (*I.F. 1.929*), (**SCI E**) (Google Scholar Citations: 07)
6. **Investigations of Surface micro topologies behaviour of hybrid wood composites**, Mohammad ZR Khan, S.K. Srivastava and MK Gupta, *Material Research Express*, Vol. 6, p. 105326, 2019, ISSN No. 2053-1591, (*I.F. 1.929*), (**SCI E**) (Google Scholar Citations: 2)
7. **Tensile and Flexural properties of natural fiber reinforced polymer composites: A review**, Mohammad ZR Khan, S.K. Srivastava and MK Gupta, *Journal of Reinforced Plastics and Composites*, Vol. 37, n 24, pp. 1435-1455, 2018. ISSN No. 0731-6844, (*I.F. 3.710*), (**SCI E**) (Google Scholar Citations: 100)

### Scopus /SCImago Journals

8. **Development, Characterization and Application Potential of Bio-composites: A Review**, Mohd. Zahid Rayaz Khan and S.K. Srivastava, *IOP Conference Series: Materials Science and Engineering Journal*, Vol. 404, n1, P. 012028, 2018 (**SCI Mago**) (Google Scholar Citations: 03)

### Peer-Reviewed Journals

9. **Development of Dual Phase Steel and Determination of Its Mechanical Properties and Comparison with Low Carbon Steel**, V. P. Singh, A. Gaikward, Mohd. Zahid Rayaz Khan, Kamlesh Tiwari, *International Journal of Mechanical Engineering and Technology (IJMET)* Vol. 5, Issue 7, pp 151-159, July (2014)
10. **Optimization of Process Planning Parameters Using Genetic Algorithm for Cylindrical Components**, Mohd. Zahid Rayaz Khan, A. K. Bajpai, *International Journal of Engineering and Research* Vol. 2, pp 1490-1497, Issue 7, July – 2013

### International Conferences

1. **Experimental Investigations of Mechanical Toughness of Hybrid Wood and Pre-Treated Hybrid Wood Polymer Composites**, Mohammad Zahid Rayaz Khan and S.K. Srivastava, *International Conference on Energy, Environment & Material Sciences (ICE2M-2019)*, jointly organized by National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), Italy and Madan Mohan Malaviya University of Technology, Gorakhpur, India; December 1-3, 2019 **(IEEE sponsored)**
2. **Development, Characterization and Application Potential of Bio-composites: A Review**, Mohammad Zahid Rayaz Khan and S.K. Srivastava, *Souvenir of International Conference on Contemporary Research in Mechanical Engineering (ICCRME-2018)*, ICCRME-37, Integral University, Lucknow, India p 10, April 6-7, 2018

### National Conferences

3. **Effects of Fibre Surface Pre-treatment on NFRPCs: A Review**, Mohammad Zahid Rayaz Khan, Sunil Kumar Srivastava, MK Gupta, **Proceedings** National Conference on Futuristic in Mechanical Engineering (FME2019), Mechanical Engineering Department, MMMUT Gorakhpur, UP 28<sup>th</sup> & 29<sup>th</sup> March 2019
4. **Parametric Optimization of Wire – EDM by Using Taguchi Method and Genetic Algorithm**, Mohd. Zahid Rayaz Khan, Rajneesh Kumar Singh, **Proceedings** National Conference on Futuristic in Mechanical Engineering (FME2016), Mechanical Engineering Department, MMMUT Gorakhpur, UP 24<sup>th</sup> & 25<sup>th</sup> February 2017
5. **Parametric Optimization of Wire – EDM by Using Taguchi Method and Fuzzy Logic**, Rajneesh Kumar Singh, Mohd. Zahid Rayaz Khan, **Proceedings** National Conference Futuristic in Mechanical Engineering (FME2016) MED, MMMUT Gorakhpur, UP 24<sup>th</sup> & 25<sup>th</sup> February 2017

### Poster Presentations:

1. **Natural Fiber Reinforced Composite: Present Scenario and Future Scope**. Mohammad. ZR Khan and S.K. Srivastava 1<sup>st</sup> Malaviya Research Conclave-2017 (MRC-2017). 8-11<sup>th</sup> July 2017, MMMUT Gorakhpur.
2. **Potential use of Natural Fiber Composite Materials**. Mohammad. ZR Khan and S.K. Srivastava Scholar Day (RSD-2017). 12<sup>th</sup> December 2017, MMMUT Gorakhpur
3. **Development of Natural Fiber Polymer Composites**. Mohammad ZR Khan, S.K. Srivastava, and MK Gupta 2<sup>nd</sup> Malaviya Research Conclave-2018 (MRC-2018). 06-08<sup>th</sup> July 2018, MMMUT Gorakhpur.
4. **Fabrication and Microhardness of Softwood Particle and Hardwood Particle Reinforced Epoxy Composites**. Mohammad ZR Khan, S.K. Srivastava and MK Gupta Research Scholar Day (RSD-2018). 16<sup>th</sup> December 2018, MMMUT Gorakhpur.
5. **Fabrication and Microhardness of Softwood Particle and Hardwood Particle Reinforced Epoxy Composites**. Mohammad ZR Khan, S.K. Srivastava and MK Gupta. 3<sup>rd</sup> Malaviya Research Conclave-2019 (MRC-2019). 24-26<sup>th</sup> February 2019, MMMUT Gorakhpur.
6. **Enhancement of the Mechanical Properties of Hybrid Wood Polymer Composites**. Mohammad ZR Khan, S.K. Srivastava and MK Gupta. 4<sup>th</sup> Malaviya Research Conclave-2020 (MRC-2020). 22<sup>nd</sup>-24<sup>th</sup> February 2020, MMMUT Gorakhpur.

## **Achievements:**

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- **Gate -2011 Qualified**

## **Referee:**

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1. Prof. S. K. Srivastava, Professor, MED, M. M .M. University of Technology, Gorakhpur, E-mail: [drskme@gmail.com](mailto:drskme@gmail.com) , [sksme@mmmut.ac.in](mailto:sksme@mmmut.ac.in), Tel. No. +91-9235500566
2. Prof. D K Singh, Professor, MED, M. M. M. University of Technology, Gorakhpur, E-Mail: [dhirens@gmail.com](mailto:dhirens@gmail.com), Tel. No. +91-9452972971
3. Dr. Manoj Kumar Gupta, Assistant Professor, MED, Motilal Nehru National Institute of Technology, Allahabad, E-mail: [mkgupta@mnnit.ac.in](mailto:mkgupta@mnnit.ac.in) , Tel. No. +91-9454029454

## **Personal Information:**

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Mother's Name : Zahida Khatoon  
Father' Name : Reyazuddin Khan  
Date of Birth : 28<sup>th</sup> August 1989  
Gender : Male  
Marital Status : Married  
Languages : English, Hindi, Urdu, & Arabic  
Nationality : Indian  
Religion : Islam  
Passport Number : J1061821

## **Declaration**

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All the information given above is true and accurate to the best of my knowledge and belief.

**Date: 02-09-2022**

**Place: Gorakhpur**



**(Dr. MOHAMMAD ZAHID RAYAZ KHAN)**