# Faculty Profile on University Website

www.mjpru.ac.in

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|---|---|---|---|---|---|---|
| **Title** | **Dr.** | **First Name** | **TAUSEEF UDDIN** | **Last Name** | **SIDDIQUI** | **Photograph** |

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|---|---|---|
| **Designation** | | Assistant Professor (Level 12) |
| **Department** | | Mechanical Engineering |
| **Address** | **Campus** | Department of Mechanical Engineering, |
| | **Residence** | H No-350/A Faiq Enclave Colony Phase II Near New Masjid Pilibhit Road Bareilly-243006 |
| **Mobile No.** | | 8433408964 |

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|---|---|---|
| **Email ID** | Personal | tauseefus@gmail.com |
| | University Domain | tauseefuddin.siddiqui@mjpru.ac.in |
| **Professional Networking ID, i.e. Linkedin, Twitter etc.** | https://twitter.com/tauseef81 | |

**Educational Qualifications (Graduation Onwards)**

| Course/Degree | Institution | Year | Details/Thesis Topic/Subjects |
|---|---|---|---|
| B.Tech | ZHCOET, AMU Aligarh | 2002 | Design and fabrication of heat exchanger |
| M.Tech | ZHCOET, AMU Aligarh | 2005 | Ergonomic studies pertaining to Internet sites on operators performing web based task |
| Ph.D | MNNIT Allahabad | 2010 | Abrasive Waterjet Cutting of Continuous Fiber-reinforced polymer composites: Experimental studies, Modeling and Multi-objective optimization. |

**Career Profile**

| Organization / Institution | Designation | Duration | Nature of Duties |
|---|---|---|---|
| SRMSCET Bareilly | Lecturer | 15/7/2004-31/12/2006 | Teaching and Research |
| MNNIT Allahabad Prayagraj | RA | 04/01/07-28/08/2008 | Teaching and Research |
| FET M.J.P. Rohilkhand University, Bareilly | Assistant Professor (Level 12) | 29/08/2008 to till now | Teaching and Research |

**Research Interests / Specialization**

Manufacturing Science and Technology, Computed Aided Manufacturing, Modeling and Optimization of Manufacturing Processes, Composite materials, Design of Experiments Etc.

**Research Experience in Years**

| **No of Research Scholars Successfully Guided** Nil | | |
|---|---|---|
| Name of Programme | Awarded | Under Supervision |
| **Ph.D.** | **----** | **04** |
| **M.Tech** | 01 | 01 |
| **Dissertation (B.Tech)** | 55 | |

| **Researcher/ Expert ID** | **Scopus** | **Orchid** | **Publons** | **Vidwan** | **Google Scholar** |
|---|---|---|---|---|---|
| | 26023721600 | | | | Z0jytIQAAAAJ |
| | | | | | |

**Teaching Experience (Subjects/Courses Taught) 19 Years**

Basic Mechanical Engineering, Manufacturing Science and Technology, Computer Aided Manufacturing, Advanced Precision Machining Processes, Value Engineering, Production Planning and Control, Design

**Honours / Awards & Fellowship FOR OUTSTANDING WORK**

| **Name of Award/ Fellowship** | **Awarded** | | |
|---|---|---|---|
| | **Name of Governmental Agency** | **Name of Government Supported Organization/ Department** | **Name of International Recognized Body** |
| Best Research Paper Award | Indian National Academy-Dept. of Atomic Energy | IIT Chennai | International Conference on Advances In Manufacturing Technology (ICAMT 2008) for Young Engineers, Feb. 6-8, IIT Chennai |
| Research Excellence | INSc Bangalore | | 2020 |
| Shikshak Sammaan | Higher Education Department, Govt. of U.P. | MJPRU Bareilly | 2021 |
| Shikshak Sammaan | Bank of Baroda | MJPRU Bareilly | 2022 |
| Best Researcher Award | Knowledge Research Academy Coimbatore | MSME registered Organization | 2023 |

**Publications /Academic Activities (Numbers Only)**

| Books & Monographs (Single Author) | 01 | Research Papers Published in International Journals | 22 | Papers Presented in Seminars/ Conferences | 52 | Seminars/ Conferences Organized | 02 | Research Projects (Completed) | 04 |
|---|---|---|---|---|---|---|---|---|---|

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|---|---|---|---|---|---|---|---|---|---|
| Books (Co-authored) | 02 | Research Papers Published in Other Journals | 01 | Seminar/ Conferences Attended | 26 | Workshops/FD P Organized | 04 | Research Projects (Ongoing) | 01 |
| Books (Edited) | | Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc. | | Sessions Chaired in Seminars/ Conferences | 07 | Membership of Academic/ Professional Bodies | 02 | Foreign Countries Visited for Academic Assignments | 01 |
| Chapters in Edited Books | 03 | | | Resource Lectures Delivered | 16 | | | | |

**Details of Publications /Academic Activities (2010 Onwards)**

**(a) Authored Books/ Monographs**

| Name of Book | Year of Publication | Publisher | ISBN No |
|---|---|---|---|
| Abrasive Waterjet Machining of Continuous Fibre-Reinforced Polymer Composites: Experimental Studies, Modeling and Multi- Objective Optimization | 2020 | Mahi Publication Ahmadabad Gujarat | 9789389339840 |
| Modeling for surface roughness prediction and control using Artificial Neural Network in CNC Machining | 2023 | Iterative International Publishing | 9789357473989 |
| Ergonomic Studies Pertaining to Internet Sites on Operators Performing Web Based Task | 2023 | Kindly Direct Publishing Amazon | 9798857874417 |

**(b) Edited Books**

| Year of Publication | Title | Publisher | ISBN | DOI No. | Citations |
|---|---|---|---|---|---|
| | | | | | |

**(c) Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals**

| Year of Publication | Title | Name of Journal | ISSN No | Citations | Impact Factor |
|---|---|---|---|---|---|
| 2008 | Optimization of Surface Finish in Abrasive Water Jet Cutting of Kevlar Composites Using Hybrid Taguchi and Response Surface Method | International Journal of Machining and Machinability of Materials | 174857 2X | | 2.130 |
| 2008 | Robust Parameter Design for Multi-characteristic Optimization of Abrasive Waterjet Cutting of Aramid Composite | Journal of Modern Manufacturing Technology | 0974-8415 | | 0.175 |
| | Modeling of Depth of Cut in Abrasive Waterjet Cutting of Thick Kevlar-Epoxy Composites | Key Engineering Materials | 1013-9826 | | 0.350 |
| 2010 | Experimental Investigation and Optimization of Kerf Characteristics in Abrasive Waterjet Trepanning of Thick Kevlar-Epoxy Composites | Journal Proceedings in Manufacturing Systems | 2067-9238 | | ICV-87.03 |
| 2011 | Abrasive Waterjet Hole Trepanning of Thick Kevlar- Epoxy Composites for Ballistic Applications – Experimental Investigations and Analysis Using Design of Experiments Methodology | International Journal of Machining and Machinability of Materials | 17485 72X | | 2.130 |
| 2011 | Artificial neural network based modeling of abrasive waterjet cutting of Kevlar-epoxy composites used in aerospace applications | International Journal of Research and Development | 2279-0438 | | 1.241 |
| 2013 | Optimization of multiple performance characteristics using | International Review of Applied | 2062-0810 | | 0.51 |

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|---|---|---|---|---|---|
| | AWJ cutting process for aerospace grade fibrous kevlar composites | Engineering & Research | | | |
| 2015 | Mathematical Model And Optimized Parameters Design In AWJ Machining Of Aircraft Grade Kevlar-Epoxy Composites | International Journal of Advance Research In Science And Engineering | 2319-8354 | | 1.142 |
| 2015 | Effect of Electrochemical Techniques of Hard Coatings on Friction and Wear Properties of Light Metal Alloys: A Review, | International Journal of Advance Research In Science And Engineering, | 2319-8354 | | 1.142 |
| 2016 | Investigation and analysis for Mechanical Properties of Aluminium Silicon Carbide Composite | International Journal of Innovative Research in Science, Engineering and Technology | 2347-6710 | | 1.672 |
| 2017 | The role of vocational education in India to make skill development programme a success | Research Journal of Social and Life Sciences, Vol. XXIII | 0973-3914 | | 3.112 |
| 2017 | Micro-wire electric discharge machining of Mg alloy used in biodegradable orthopaedic implants | Materials Today: Proceedings | 2214-7853 | | 0.97 |
| 2020 | Design, Fabrication and Characterization of a Self-Lubricated Textured Tool in Dry Machining | Materials Today: Proceedings | 2214-7853 | | 0.97 |
| 2020 | Experimental investigations on the performance of nanoboric acid suspensions in coconut oil during milling operation on Al 6061-T6 alloy | IOP publishing: Material science and engineering | 17578981 | | 0.53 |
| 2020 | Robust Process Parameter Design in | Journal Proceedings in | 1842- 3183 | | ICV-87.03 |

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|---|---|---|---|---|---|
| | Abrasive Water Jet Cutting of Kevlar Composites | Manufacturing Systems | | | |
| 2023 | Numerical Analysis of Various Shapes of Lozenge Pin-Fins in Microchannel Heat Sink | International Journal of chemical reactor engineering | 1542-6580 | | 1.60 |
| 2023<br><br><br><br>2023 | Influence of heat enhancement technique on the thermal performance of solar water heater for sustainable built environment. State-of-the-art review | Sustainable Energy Technologies and Assessments | 2213-1396 | | 8.0 |
| 2023 | Mechanical and Tribological Characterization of Al1070 Alloy Based Self-lubricating Metal Matrix Composites | Materials today: Proceedings | 2214-7853 | | 2.59 |
| 2023 | Environment friendly machining of different engineering materials: A review, (2023), | SKIT Journal, Vol 13, Special issue 3 | 2278-2508 | | |
| 2021 | Environmentally Sustainable Milling operation on Ti-6Al-4V Aerospace grade alloy using Vegetable oil based Nano-lubrication | International Journal of Mechanical Engineering, Vol 6, Special issue | 0974-5823 | 10.56452/00000 | 2.1 |
| 2021 | Process optimization of $CO_2$ laser beam cutting of coir-carbon reinforced hybrid epoxy composites | International Journal of Mechanical Engineering, Vol 6, Special issue | 0974-5823 | 10.56452/00000 | 2.1 |

**(d) Chapter/Paper Published in Edited Books**

| Publication | | Title of the Book | Title of the Chapter | Name & Address of Publisher | Year | ISBN | DOI | Citation Google/ web of science |
|---|---|---|---|---|---|---|---|---|
| National | International | | | | | | | |
| NATIONAL | | Advances in Manufacturing Technology | Optimisation of Process Parameters for Abrasive | Universities Press (India) Pvt. Ltd | 2012 | 978-81-7371-755-0 | | |

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|---|---|---|---|---|---|---|---|---|
| | | | Water Jet Machining of Kevlar-Epoxy Co mposites Using Taguchi Method and Response Surface Methodolo gy | | | | | |
| NATIONAL | | Advancements and futuristic trends in material science | State-of-the art review of research and developme nt in Abrasive water jet machining of Advanced fiber-reinforced composite s | Allied Publications New Delhi | 2011 | 978-81-8424-706-0, | | |
| INTERNATI ONAL | | Computational Methods for Optimizing Manufacturing Technology - Models and Techniques | Modeling and Optimizati on of Abrasive Water Jet Cutting of Kevlar Fib er-Reinforce d Polymer Composite s | IGI Global, USA | 2012 | 978-1466 6012 84 | | |

**(e) Invited as Resource Lectures Person/Examiner/Expert**

| Resource person | Detail of Event | Title of Lecture | Date | Institution |
|---|---|---|---|---|
| RESOURCE PERSON | AICTE (MHRD) sponsored Staff Development Program on CAD & FEM | Taguchi Robust Design: The new perspectives | July 21 - 02 August, 2008. | MNNIT Allahabad |

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|---|---|---|---|---|
| RESOURCE PERSON | AICTE (MHRD) sponsored Staff Development Program on CAD & FEM | Modeling and Optimization: Demonstration & case study | July 21 - 02 August, 2008. | MNNIT Allahabad |
| RESOURCE PERSON | National conference on recent engineering trends in energy, environment & ecology (RETEEE 2014) | Modeling of depth of cut in AWJC of Kevlar-epoxy composites used in defense applications | Sep., 27-28, 2014 | Rajshiri Group of Institutions, Bareilly |
| RESOURCE PERSON | Workshop on "Taguchi optimization" with live demonstration of MINITAB 17 software applications | Design of experiments and its scope in engineering applications | Mar 14, 2015 | Rajshiri Group of Institutions, Bareilly |
| RESOURCE PERSON | Workshop on "Taguchi optimization" at GNIOT, Greater Noida on | Optimization techniques and their scope in engineering problems solving | Oct 01, 2015 | GNIOT GREATER NOIDA |
| RESOURCE PERSON | One week short term course on "Advances in composite materials 2016" | Fabrication and mechanical characterization of Al based hybrid metal matrix composites | 21-26 Oct., 2016 | MNNIT ALLAHABD |
| RESOURCE PERSON | National conference on Recent innovations in mechanical engineering (RIME) | Process modeling and optimization using design of experiments | 1st April, 2017 | Shri siddhi vinayak institute of technology Bareilly |
| RESOURCE PERSON | National conference on Technological innovations in mechanical engineering (TIME) | Fabrication and tribological characterization of Al based metal matrix composites | 8st April, 2017 | Shri Ram Murti college of engineering, Bareilly |
| RESOURCE PERSON | Faculty development program | Computational methods for process design and optimization | 26st April, 2018 | SRMSCET sponsored by AKTU Lucknow |

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|---|---|---|---|---|
| RESOURCE PERSON | Faculty development program | Virtual design and manufacturing | 26st April, 2018 | SRMSCET sponsored by AKTU Lucknow |
| RESOURCE PERSON | Workshop on "Taguchi technique for quality Engineering" | Taguchi method based design of experiments | Sep. 19, 2018 | GNIOT GREATER NOIDA |
| RESOURCE PERSON | National conference on "Mathematical modeling and optimization techniques | Abrasive water jet machining of fiber-reinforced polymer composites: modeling and optimization | 15-16 Nov., 2019 | SRMSCET, Bareilly |
| RESOURCE PERSON | AICTE sponsored Faculty development programme on "Emerging trends in Mechanical engineering science and green energy" | Experimental investigations on fiber-reinforced polymer composites | 21 Nov., 2019 | MIT Moradabad |
| RESOURCE PERSON | Online invited lecture | Computational methods for process design and optimization | Nov. 26, 2020 | GNIOT, Greater Noida |
| RESOURCE PERSON | AICTE-ISTE sponsored faculty development program | Computational methods for modelling and optimization of modern manufacturing processes | 13th January 2022 | MIMIT Malout |
| RESOURCE PERSON | National conference (NCARTE 2022) | Experimental investigations on milling of Ti-6Al-4V alloy using vegetable oil based nano-lubrication | 25-26 march, 2022 | SRMS college of engineering & Technology |

**(f) Seminars/Conferences/Workshops Organized**

Organized one week faculty development programme on "Frontier Area of Research in Mechanical Engineering" from 25 to 29 March, 2014 at Mechanical Engineering Department, MJP Rohilkhand University, Bareilly

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| Organized two days workshop on "MATLAB: Theory and Practice" from 03 to 04 Dec., 2014 at Mechanical Engineering Department, MJP Rohilkhand University, Bareilly. |
| Organized one week faculty development programme on "Innovations and Research Trends in Mechanical and Production Engineering" from 25 to 29 April, 2016 at Mechanical Engineering Department, MJP Rohilkhand University, Bareilly. |
| Organized an International workshop on "Youth Empowerment through skill development" on 09th April, 2018 in collaboration with Japan at Mechanical Engineering Department, MJP Rohilkhand University, Bareilly. |
| Organized Webinar cum Workshop on "Performing and Designing Experiments on Virtual Platform" in association with IIT Roorkee during 8th to 17th June 2020. |
| Organized one week online ATAL faculty development programme on "Design of experiments and Artificial Neural Network" from 25 to 29 August, 2021 at Mechanical Engineering Department, MJP Rohilkhand University, Bareilly. |
| Organized two days National Conference on "Innovative Research and Application of Technical Terminology in Mechanical Engineering, Green Manufacturing and Energy Conservation" from 26-27 November, 2021 Sponsored by Commission for Scientific and Technical Terminology, Ministry of Education, Govt. of India, New Delhi. |
| Organized one day National Workshop on "Recent updates in Mechanical Engineering" on 26 March, 2022 Sponsored by Higher education dept., Govt. of Uttar Pradesh. |

**(g) Projects (With Title, Year, Grants, Funding Agency and Collaborations)**

| Year | Name of Project | Funding Agency | Amount | Duration | |
|---|---|---|---|---|---|
| | | | | From | Till |
| 2008 | International travel grant | DST | To attend International conference at University of Nottingham, UK | | |
| 2010 | International travel grant | DST | To attend International conference at University of New south wales, Sydney Australia | | |
| 2011 | Comparative Investigations of Surface Integrity and Micro-Structural Details for Different Grades of Fiber-Reinforced Polymer Composites Used in Critical Aerospace Applications by Abrasive Water Jet Cutting | UGC | 81,000/- | 01.7.11-30.6.13 | completed |
| 2012 | Application of artificial intelligence for generation of knowledge base for different grades of hybrid composites used in Indian Aerospace sector by Abrasive water jet machining | UGC | 196,000/- | 30.7.2012 | withdrawal |

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|---|---|---|---|---|---|
| 2019 | Design, Fabrication and Characterization of a Self-Lubricated Textured Tool in Dry Machining | TEQIPIII | 2,00,000/- | 15.6.2019 | completed |
| 2021 | Environment friendly machining of Ti-6Al-4V aerospace grade alloy using vegetable oil based nano-lubrication | Higher education deptt., Govt. of U.P. | 5,00,000 | 01.07.2021 | completed |

**(h) Administrative Positions/Assignments Held**

| **Post** | **Organization** | **Duration** | |
|---|---|---|---|
| | | **From** | **To** |
| Member BOS | Mechanical Engineering Department MJPRU | 29.82008 | TILL NOW |
| Time table Incharge | Mechanical Engineering Department MJPRU | 29.8.2008 | 15.7.2018 |
| Student advisor | Mechanical Engineering Department MJPRU | 15.7.2013 | TILL NOW |
| T&P coordinator | Mechanical Engineering Department MJPRU | 29.8.2008 | TILL NOW |
| Assistant Coordinator-Examination Centre | MJPRU Bareilly | 2008, 2009, 2010, 2019 | |
| Assistant Coordinator-Evaluation Centre | MJPRU Bareilly | 2015, 2018 | |

**(i) Seminar/Conference Presentations**

"Development of a textured tool for process improvement in dry machining" at International conference on academic research in engineering, management and information technology (ICAREMIT 2020), 1-3 FEB., 2020 at MJPRU Bareilly, U.P.

"Comparative investigations on Depth of Cut in $CO_2$ Laser Beam Machining of MDF and Acrylic" at International conference on academic research in engineering, management and information technology (ICAREMIT 2020), 1-3 FEB., 2020 at MJPRU Bareilly, U.P.

"Optimization of Process Parameters for Abrasive Water Jet Machining Of Kevlar-Epoxy Composites Using Taguchi Method", INAE-DAE International Conference on Advances In Manufacturing Technology (ICAMT 2008) for Young Engineers, February 6-8, 2008, IIT Chennai. (Best Paper Award)

"Experimental study and Optimization of Multiple Performance Characteristics in Abrasive Water Jet Cutting of Glass Fiber Reinforced Polymer Composites",2nd International and 23rd AIMTDR Conference, IIT Madras, December 15-17, 2008.

Modeling of Depth of Cut in Abrasive Waterjet Cutting of Thick Kevlar-Epoxy Composites", International conference APCMP2010, University of New South Wales, Sydney, Australia, June 2010.

"Conceptual PDM Implementation Framework for Manufacturing of Polymer Composite Components in Aerospace Industry", International Conference on ENGINEERING DESIGN.IN, IISc Bangalore, 9-11 Aug, 2007.

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| OPTIMZATION OF MULTIPLE PERFORMANCE CHARACTERISTICS USING AWJ CUTTING PROCESS FOR AEROSPACE GRADE FIBROUS KEVLAR COMPOSITES, International Conference on Innovative trends in natural/Applied sciences and Energy technology for sustainable development, JNU, New Delhi, 27-28 July, 2013. |
| MATHEMATICAL MODEL AND OPTIMIZED PARAMETERS DESIGN IN AWJ MACHINING OF AIRCRAFT GRADE KEVLAR-EPOXY COMPOSITES, International conference on academic research in engineering, management and information technology, 21-23 Feb., 2015, pp. 10. |
| EFFECT OF ELECTROCHEMICAL TECHNIQUES OF HARD COATINGS ON FRICTION AND WEAR PROPERTIES OF LIGHT METAL ALLOYS: A REVIEW, International conference on academic research in engineering, management and information technology, 21-23 Feb., 2015, pp. 35. |
| Micro-wire electric discharge machining of Mg alloy used in biodegradable orthopedic implants, International conference on recent trends in engineering and material sciences (ICEMS-2016) at JNU Jaipur, 17-19 March, 2016 (2-IC-896) |
| Tribological Investigations on Aluminium Based Hybrid Metal Matrix Composites Fabricated By Stir Casting Technique, International conference on academic research on engineering, management and information technology (ICAREMIT-2016), 9-11 Dec., 2016 at MJP Rohilkhand university, Bareilly |
| International conference on Digital India on 27 Jan., 2018 at Bareilly college Bareilly. |
| International conference on academic research in engineering, management and information technology (ICAREMIT 2018), 17-19 Feb., 2018 at MJPRU Bareilly, U.P. |
| International conference on academic research in engineering, management and information technology (ICAREMIT 2019), 16-18 APR., 2019 at MJPRU Bareilly, U.P. |
| National Conference on "Innovative Research and Application of Technical Terminology in Mechanical Engineering, Green Manufacturing and Energy Conservation" from 26-27 November, 2021 Sponsored by Commission for Scientific and Technical Terminology, Ministry of Education, Govt. of India, New Delhi. |
| National Workshop on "Recent updates in Mechanical Engineering" on 26 March, 2022 Sponsored by Higher education dept., Govt. of Uttar Pradesh. |
| Environment friendly machining of different engineering materials: A review at International Conference on RECENT TRENDS IN EMERGING TECHNOLOGIES, March 16-17, 2022. |
| Experimental Investigation on $CO_2$ Laser Cutting of Spur Gears Made of Acrylic, International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, Punjab university, December 19-20, 2020. |
| Experimental investigations on the performance of nanoboric acid suspensions in coconut oil during milling operation on Al 6061-T6 alloy, ICRDMSA 2020 AT CIT Chennai, 25-26 Sept., 2020. |
| Mechanical and Tribological Characterization of Al1070 Alloy Based Self- lubricating Metal Matrix Composites, 2nd International Conference and Exposition on Mechanical, Material and Manufacturing technology, CVR college of engineering, Hyderabad, 2022. |
| Heat flow characteristics in microchannel heat sink: A numerical study, International conference on Frontiers in desalination, energy, environment and material sciences for sustainable development (FEEMSSD-2023), March 16-17, 2023. |
| **(j) Memberships of Academic/Professional Bodies** |
| International Association of Engineers (Member No: 113782)<br>International Nano-science Community |
| **(k) <u>Participation in Community Service / Exchange Programme / Consulting Activity</u>** |
| Attended many Literary and cultural events in the Bareilly district etc<br>Participated in many events on Road safety awareness etc<br>Participated in Swachch Bharat campaigns<br>Participated in many drives on "Plantation" in the University campus |
| **(l) International Academic Exposure** |

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|---|---|---|---|
| Visited University Of New South Wales, Sydney Australia | June 2010 | | |
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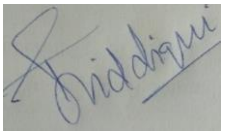
| **(m) Any Other Details** |

I am **Coordinator**, Road safety club, M.J.P. Rohilkhand University, Bareilly and always strive to work for road safety campaigns organized by Higher education department, Govt. of U.P. to create awareness among youths and other peoples of our society.



Signature of Faculty Member