

## Puneet Kumar

Incubation Manager  
Moradabad Institute of Technology  
Innovation Foundation  
Moradabad

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## Career Objective

To join an organization that provides me an opportunity to utilize my talents and an environment to enhance my technical skills and to grow in line with the objective of organization.

## Educational Qualifications

Standard/Class	Year	College	Board/University	Percentage
M.Tech (Mechanical engineering)	2013	Moradabad Institute Of Technology, Moradabad	U.P.T.U, Lucknow	75%
B.Tech (Mechanical engineering)	2005	Moradabad Institute Of Technology, Moradabad	U.P.T.U, Lucknow	69.26%
12 <sup>th</sup> Standard	2000	Devta Inter College, Moradabad	U.P Board	70%
10 <sup>th</sup> Standard	1998	Devta Inter College, Moradabad	U.P Board	58.33%

## Experience

- Worked as a Lecturer in M.I.T, Moradabad from 17 Jan'2006 to 31 May'2006.
- Worked as an Assistant Professor in M.I.T, Moradabad from 01 June'2006 to 06 July 2022.
- Worked as an Assistant Professor in M.I.T, Moradabad from 14 March'2023 to 25 July 2024
- Presently working as an Incubation Manager in Moradabad Institute of Technology Innovation Foundation (MITIF), Moradabad since 02 September'2024.

## Publications

### National Conference

- Presented a paper titled “**Database for selection of proper aluminium alloy for engineering applications**” in National Conference on Emerging Trends on Manufacturing Systems-2005, held in JMIT, Radaur (Yamunagar) on 15-16 March'2005.

- Presented a paper titled “Modified Layout Design of Indian Railway Sleeper Coaches” in National conference on Advancement of Technologies-Global Scenario, 25-26 February 2007, G.L.A.
- Presented a paper titled “Preparation and Characterization of Squeeze Cast AA2218-Al<sub>2</sub>O<sub>3</sub> MMCs” in National Conference on challenges of efficient energy Technology For clean energy-21<sup>st</sup> century (23-24May 2013)

### International Journals

- Paper titled “Development of AA 2218-Al<sub>2</sub>O<sub>3</sub> MMCs and characterization for mechanical properties” in International Journal of Innovative Research in Science, Engineering and Technology, *Vol. 2, Issue 5, May 2013*.
- Paper titled “Effect of stirring speed on retention of particles in AA2218-Al<sub>2</sub>O<sub>3</sub> MMCs processed by stir casting” in MIT IJME, August 2013.
- Paper titled “Preparation and mechanical properties of stir cast Al-Fe<sub>2</sub>O<sub>3</sub> composite” in MIT IJME, August 2015.
- Paper titled “Effect of Processes Parameter on Mechanical Properties in AA2218-Fe<sub>2</sub>O<sub>3</sub> MMCs Processed by Stir Casting” in International Journal on Recent Technologies in Mechanical and Electrical Engineering" (IJRMEE) ISSN: 2349-7947 Volume 2 Issue 6, June-2015.

### Short Term Course / Faculty Development Program

- Attended a **Faculty Development Programme** on “Group Learning Activities” during July 13 – 15, 2013 in Department of Mechanical Engineering at M.I.T, Moradabad.
- Attended a **Short Term Course** on “Composites: Design and Manufacturing” during July 07 – 11, 2008 in Department of Mechanical & Industrial Engineering at I.I.T Roorkee.
- Attended a **Short Term Course** on “CNC Machining” during April 29 – May 03, 2015 in Department of Mechanical Engineering at I.I.T Kanpur.
- Attended a **Short Term Course** on “Two phase of flow, Boiling and Condensations: Conventional and Miniature Systems” during June 01 – 05, 2015 in Department of Mechanical & Industrial Engineering at I.I.T Roorkee.
- Attended a **Short Term Course** on “Additive Manufacturing” during July 13 –17, 2015 in Department of Mechanical Engineering at I.I.T Kanpur.
- Attended one week **Faculty Development Programme** on “Advances in thermal science and Technology” sponsored by Dr. A. P. J. Abdul Kalam Technical University, Lucknow during May 1 – 6, 2017 in Mechanical Engineering Department at M.I.T, Moradabad.
- Attended a **Short Term Course** on “E- Governance and Green Technology Entrepreneurship for Technical Institution through ICT during February 19-23, 2018 in ED Cell at MIT Moradabad
- Attended a **Faculty Development Programme** on “Challenges & Opportunities in Energy Sector for Smart India” sponsored by TEQIP – III and organized by Dr. A. P. J. Abdul Kalam Technical University, Lucknow during September 11 – 15, 2018 in Electrical Engineering Department at M.I.T, Moradabad.

- Attended a **Faculty Development Programme** on “Green Tribology” sponsored by TEQIP – III and organized by Dr. A. P. J. Abdul Kalam Technical University, Lucknow during June 4 – 8, 2019 in Mechanical Engineering Department at M.I.T, Moradabad.
- Attended a **Faculty Development Programme** on “Emerging Trends of Mechanical Engineering” sponsored by AICTE and organized by Dr. A. P. J. Abdul Kalam Technical University, Lucknow during Nov 20 – Dec 03, 2019 in Mechanical Engineering Department at M.I.T, Moradabad.
- Attended a **Faculty Development Programme** on “Outcome based Pedagogic principles for Effective Teaching” sponsored by TEQIP – III and organized by Dr. A. P. J. Abdul Kalam Technical University, Lucknow during Dec 3 – 7, 2019 in Electronics Engineering Department at M.I.T, Moradabad.

## Workshops / Seminar

- Participated in a **Two– Day AICTE sponsored Workshop** on “Advances in Arc Welding Processes” organized by Department of Mechanical Engineering in Collaboration with The Indian Institute of welding Delhi branch on Feb 9-10 01, 2007 at KIET, Ghaziabad (U.P.).
- Participated in a **One – Day Workshop** on “Advanced Metal Finishing & Electroplating Techniques” organized by MSME- Technology Development Centre (PDPC Agra) & CSIR – Central Electrochemical Research Institute, on December 01, 2013 at M.I.T, Moradabad.
- Participated in a **One – Day Workshop** on “Outcome Based Education & Accreditation Process “organized by M.I.T Moradabad on December 30, 2017.
- Organized **one day Seminar** on “Emerging Trends in Mechanical Engineering”, SOFE 2019 sponsored by Institution of Mechanical Engineers at MITGI on 27 April, 2019

Project	
<b>Project Topic</b>	Study the effect of process parameter on retention of particles in Aluminum composites processed by stir casting
<b>Role</b>	single
<b>Duration</b>	1 year
<b>Abstract</b>	2218 aluminium alloy metal matrix composites (MMCs) reinforced with three different stirring speed and weight percentage of Al <sub>2</sub> O <sub>3</sub> particles up to 20wt. % were produced by stir casting technique. In a normal practice of stir casting technique, metal matrix composites (MMCs) is produced by melting the matrix material in a graphite crucible, then the molten metal is stirred thoroughly to form a vortex and the reinforced particles are introduced through the side of the vortex formed. The result were measured from sample of 180, 250 and 400 rpm of stirring speed as well as from the effect of reinforcing Al <sub>2</sub> O <sub>3</sub> particles in aluminum alloy at 5, 10 and 20 wt.%. The effect of stirring speed and particle content on the mechanical properties of the composites such as hardness and tensile

strength were investigated. Optical microscopic observations of the microstructures revealed that the dispersion of the coarser sizes of particles was more uniform at 250 rpm, compared to the 180 rpm stirred sample. At 400 rpm, MMCs contained higher porosity, where entrapment of gas occurred more during stirring. However, the alumina particles were distributed uniformly. The result shows that the hardness and tensile strength of the composites increased with increasing wt. % of particles and increasing stirring speed up to vortex formation.

### Area of interest

- Design
- Mechanics of Solid
- Kinematics of Machines
- Engineering Mechanics
- Operations Research

### Hobbies

- Cricket, Badminton

### Academic Responsibility

- Coordinator NBA Mechanical Engineering Department
- Coordinator Practical Exam
- O.C MST Lab
- Incharge of admission activity in Dhampur and Noorpur region

### Personal Information

**Gender** : Male  
**Date of Birth** : 20<sup>th</sup> Feb 1985  
**Nationality** : Indian  
**Father's Name** : Mr. Ram Singh  
**Language known** : English, Hindi  
**Strength** : Commitment towards work, Discipline, Positive attitude, Self confidence  
**Permanent Address:** S-6 Ram Ganga Vihar Phase-2 MDA Moradabad-244001

### Declaration

I hereby declare that all the above information is true to the best of my knowledge and firm belief.

**Date:**

**Puneet Kumar**