

# Curriculum Vitae

**Ms. Yasmeen Khan**

Lecturer, Department of Mechanical Engineering  
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## Personal Profile

A dedicated and enthusiastic engineering professional with strong academic and technical expertise in automotive manufacturing and machining processes. I excel in organizing academic activities, delivering lectures, conducting laboratory sessions, and providing student mentorship. My interests are strongly aligned with research in high-speed machining, cutting tool coatings, and simulation techniques. I work proactively, handle responsibilities efficiently, and am committed to advancing my knowledge and contributing positively to the engineering academic environment.

## Research Work

- Conducting ongoing **literature survey** on High-Speed Machining (HSM), coating effects on tool life, and machining mechanics.
  - Studying the **impact of single-layer and multi-layer coatings** on cutting tool performance using FE-based simulation models.
  - Investigating the **mechanics involved in machining lightweight automotive materials**, focusing on chip formation, tool stress, and wear patterns.
  - Reviewing FE models for tool–workpiece interaction in advanced machining processes.
  - Exploring the application of coated tools for **automotive component manufacturing**, including high-strength alloys.
  - Working on **simulation-based results** to enhance understanding of tool behavior, tool geometry, and coating effects under high-speed conditions.
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## Education

**M.S. Automotive Engineering (Specialization: Automotive Manufacturing)**  
NED University of Engineering & Technology, Karachi  
*June 2009 – December 2011*

## **B.E. Industrial & Manufacturing Engineering**

NED University of Engineering & Technology, Karachi

*January 2005 – December 2008*

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## **Experience**

### **Lecturer – Department of Mechanical Engineering**

NED University of Engineering & Technology, Karachi

*February 2026 till present*

### **Lecturer – Department of Automotive Engineering**

NED University of Engineering & Technology, Karachi

*January 2009 – February 2026*

- Deliver lectures on **Materials, Mechanics, Vehicle Dynamics, and Design**.
  - Conduct practical sessions, develop laboratory manuals, and organize course materials.
  - Serve as **Class Advisor (F.E. & S.E.)**, supporting students academically and administratively.
  - Conduct **Exit Surveys** to assess student feedback and strengthen departmental quality improvement.
  - Participate in **community service and engineering awareness activities**.
  - Act as **Health & Safety Coordinator / Focal Person**, responsible for:
    - Conducting **safety audits** and inspections in laboratories and workshops
    - Ensuring compliance with safety regulations and protocols
    - Risk assessment and hazard identification
    - Training staff and students on workplace safety practices
  - Assist in departmental digital management including **website updation**, uploading course-related information, faculty profiles, notices, and student resources.
  - Support curriculum review, report preparation, and departmental documentation.
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## **Skills**

- **Software:** Python, Anaconda, Microsoft Power Business Intelligence, AUTOCAD, ProE, ABAQUS, ANSYS, ADAMS, Solid Edge, MATLAB, Excel.
  - **Technical:** Machining Processes, FE Modeling, Simulation.
  - **Professional:** Academic advising, safety coordination, leadership, communication, documentation, teamwork
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