

Maulana Azad National Institute of Technology, Bhopal
Office of Dean (FW)

Subject: Department Specializations

1) Department of Architecture & Planning

S.No	Specialisations
1.	Urban Planning
2.	Environmental Planning
3.	Infrastructure Planning
4.	Urban Design
5.	Building Engineering and Management

2) Department of Biological Science & Engineering

S.No	Specialisations
1.	Molecular Biology
2.	Environmental Biotechnology
3.	Biochemistry
4.	Industrial Biotechnology

3) Department of Civil Engineering

S.No	Specialisations
1.	Geoinformatics & Its Applications(GI)
2.	Environmental Engineering
3.	Geotechnical Engineering
4.	Transportation Engineering
5.	Structural Engineering

4) Department of Chemical Engineering

S.No	Specialisations
1.	Process Control and Process System Engineering
2.	Bio-chemical Engineering
3.	Risk Assessment and Hazard Analysis
4.	AI, ML and Data Analytics in Chemical Engineering

5) Department of Chemistry

S.No	Specialisations
1.	Organic Chemistry
2.	Inorganic Chemistry
3.	Physical Chemistry
4.	Material Chemistry


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6) Department of Computer Science & Engineering

S.No	Specialisations
1.	System and Networking Security
2.	Artificial Intelligence and Machine Learning
3.	Systems(Database System, Operating System, Information System, Cloud Computing)
4.	High Performance Computing
5.	Networking
6.	Theoretical Computer Science

7) Department of Electrical Engineering

S.No	Specialisations
1.	Machines
2.	Power Electronics
3.	Instrumentation & Control systems
4.	Electrical Drives
5.	Advanced Electrical Power

8) Department of Electronics & Communication Engineering.

S.No	Specialisations
1.	Embedded Systems
2.	Communication Systems
3.	Signal Processing
4.	VLSI Design and Technology

9) Department of Humanities & Social Sciences

S.No	Specialisations
1.	English Literature
2.	Soft Skills
3.	Public Policy and Administration
4.	Economics
5.	Psychology & Sociology

10) Department of Mathematics, Bioinformatics & Computer Applications

S.No	Specialisations
Computer Application	
1.	Theoretical Computer Science
2.	Data Science
3.	Software engineering
4.	Artificial Intelligence and Machine Learning
Mathematics	
1.	Probability & Statistics
2.	Functional Analysis
3.	Theoretical Computer Science
4.	Data Science

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11) Department of Management and Business Administration

S.No	Specialisations
1	Finance Management

12 Department of Mechanical Engineering.

S.No	Specialisations
1.	Machine Design
2.	Robotics and Automation
3.	Industrial Design
4.	Industrial Engineering and Management

13) Department of Material Science and Metallurgical Engineering

S.No	Specialisations
1.	Physical Metallurgy
2.	Extractive Metallurgy
3.	Computational Metallurgy
4.	Process Metallurgy

14) Department of Physics

S.No	Specialisations
1.	Nuclear Physics
2.	Astro physics
3.	High Energy Physics
4.	Condensed Matter Physics

15) Centre of Artificial Intelligence.

S.No	Specialisations
1	AI Algorithms & Applications of AI
2	Machine Learning/ Deep Learning
3	Soft Computing

16) Energy Centre

S.No	Specialisations
1	Renewable Energy

17) Centre of Excellence in Product Design and Smart Manufacturing

S.No	Specialisations
1.	Industrial Internet of Things and Machine Learning
2.	Robotics and Automation
3.	Computer Aided Inspections
4.	Mechatronics Systems Design

18) Centre of Excellence in Water Management.

S.No	Specialisations
1	Hydraulics and Water Resources Engineering
2	Environmental Engineering

J. H.
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