



Multidisciplinary Minor (MDM): Multidisciplinary education constitutes a crucial component of India's modern educational framework. By this approach, the NEP 2020 aims to provide students with access to a broader knowledge base and skill set, equipping them for the dynamic challenges of the future. The multidisciplinary approach enables the integration of concepts, theories, techniques, and perspectives from other disciplines to advance fundamental understanding or to solve problems whose solutions are beyond the scope of a single discipline, thereby making them holistic as well as industry ready.

Multidisciplinary minor courses are interdisciplinary courses that transcend barriers of disciplines to provide a holistic learning experience through development of mental flexibility that prepares students to be lifelong learners.

Students once registered for the selected course of Multidisciplinary minor (MDM Track) in 3rd semester need to complete all credits assigned from 3rd to 8th semester for the selected MDM track only.

The following are Multidisciplinary Minor (MDM) courses offered by the Institute.

Offering Department	Eligible students	Track	MDM-I 3 rd Semester	MDM-II 4 th Semester	MDM-III 5 th Semester	MDM-IV 6 th Semester	MDM-V 8 th Semester
Computer Science & Engineering	IT/AD	Cyber Security and Cryptography	Web Security and Mobile Security	Risk Analysis and Assessment	Secure Communication and Cryptography	Secure Coding and Vulnerabilities	Capstone Project
	ET/ME/CE	Fundamentals of Computing and Software Systems	Data Structure	Operating System	Database Management System	System Analysis and Software Testing	Capstone Project
Information Technology	AD/CS	Cloud Computing	Cloud Infrastructure	Cloud Platform	Cloud Application Development	Cloud Security and Compliance	Capstone Project
	CE/ET/ME	Fundamentals of Computing & Software Systems	Data Structure	Operating System	Database Management System	System Analysis and Software Testing	Capstone Project
Electronics and Tele-communication Engineering	AD/CE/CS/IT/ME	Mobile and wireless Communication	Basic Digital Communication	Data & Wireless Communications	Mobile Computing	5G & 6G Communications	Capstone Project
	AD/CE/CS/IT/ME	IOT & Embedded Systems	Sensors and Transducers	Microprocessor and Microcontroller	Introduction to Embedded System	IOT & Applications	Capstone Project
Civil Engineering	AD/CS/ET/IT/ME	Construction Technology	Fundamentals of Civil Engineering	Building Construction & Planning	Water Supply Engineering	Transportation Engineering	Capstone Project
	AD/CS/ET/ME/IT	Environmental Engineering	Water Supply Engineering	Waste Water Engineering	Air & Noise Pollution Engineering	Waste Management	Capstone Project
Mechanical Engineering	AD/CS/ET/IT/CE	Manufacturing Technologies	Manufacturing Processes	Advance Manufacturing Processes	Metrology & Quality Control	Productivity Techniques	Capstone Project
	AD/CS/ET/IT/CE	Energy Engineering	Basics of Thermal Engineering	Energy Conversion	Renewable Energy Technologies	Automobile Engineering and EV	Capstone Project



College of Engineering and Technology, Amravati

Autonomous Institute Affiliated to Sant Gadge Baba Amravati University, Amravati)

(Accredited with 'A+' Grade by NAAC)

www.sipnaengg.ac.in



Artificial Intelligence (AI) and Data Science	CS/IT	Artificial Intelligence	Fundamentals of Artificial Intelligence	Introduction to Machine Learning	Statistical Analysis and Data Computing	Artificial Intelligence in Practice	Capstone Project
	CE/ET/ ME	Fundamentals of Artificial Intelligence & Data Science	Programming with Python	Fundamentals of Data Science	Introduction to Artificial Intelligence	Basics of Machine Learning	Capstone Project

For the detailed list of Multidisciplinary Minor (MDM) courses, click below

1. **Computer Science & Engineering**

[Sem III & IV](#)

[Sem V & VI](#)

2. **Electronics & Telecommunication Engineering**

[Sem III & IV](#)

[Sem V & VI](#)

3. **Information Technology**

[Sem III & IV](#)

[Sem V & VI](#)

4. **Civil Engineering**

[Sem III & IV](#)

[Sem V & VI](#)

5. **Mechanical Engineering**

[Sem III & IV](#)

[Sem V & VI](#)

6. **Artificial Intelligence (AI) and Data Science**

[Sem III & IV](#)

[Sem V & VI](#)

Dean Academics