

माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA
 Deemed University
 (Declared under Distinct Category by Ministry of Education, Government of India)
 NAAC ACCREDITED WITH A++ GRADE

List of courses offered in Open Category and Minor Specialization (Jan-June 2025)

| Name of Department | Category | S.No. | Full Name of Course | Weeks | Start Date | End Date | Exam Date | Mentor of our Institute | Link of course from SWAYAM | |
|--|--|--|---|------------------|------------------|----------------|----------------------|---|---|--|
| MAC | Minor Specialization VI Semester | 1 | Algebraic Number Theory | 12 | 20-Jan-25 | 11-Apr-25 | 26-Apr-25 | Dr. Minakshi Dahiya | https://onlinecourses.nptel.ac.in/noc25_ma08/preview | |
| | | 2 | Optimization from Fundamentals | 12 | 20-Jan-25 | 11-Apr-25 | 4-May-25 | Dr. Minakshi Dahiya | https://onlinecourses.nptel.ac.in/noc25_me60/preview | |
| | Minor Specialization (VIII Semester) | 1 | Advanced Linear Algebra | 12 | 20-Jan-25 | 11-Apr-25 | 3-May-25 | Dr. Minakshj Dahiya | https://onlinecourses.nptel.ac.in/noc25_ma03/preview | |
| | | 2 | Advanced Probability Theory | 12 | 20-Jan-25 | 11-Apr-25 | 3-May-25 | Dr. Minakshi Dahiya | https://onlinecourses.nptel.ac.in/noc25_ma04/preview | |
| CSE | Minor Specialization VI Semester | 1 | Programming in Modern C++ noc25-cs58 | 12 Weeks | January 20, 2025 | April 11, 2025 | April 26, 2025 | Dr Dheeraj Dixit | https://onlinecourses.nptel.ac.in/noc25_cs58/preview | |
| | | 2 | Introduction To Internet Of Things noc25-cs44 | 12 Weeks | January 20, 2025 | April 11, 2025 | April 26, 2025 | Dr Nishant Jain | https://onlinecourses.nptel.ac.in/noc25_cs44/preview | |
| | Minor Specialization (VIII Semester) | 1 | Advanced Computer Networks noc25-cs02 | 12 Weeks | January 20, 2025 | April 11, 2025 | April 27, 2025 | Prof Mahesh Parmar | https://onlinecourses.nptel.ac.in/noc25_cs02/preview | |
| | | 2 | Data Mining noc25-cs19 | 8 Weeks | January 20, 2025 | March 14, 2025 | March 22, 2025 | Dr.Jaimala Jha | https://onlinecourses.nptel.ac.in/noc25_cs19/preview | |
| | | 3 | Getting Started with Competitive Programming noc25- | 12 Weeks | April 11, 2025 | April 27, 2025 | January 27, 2025 | Dr. Gagandeep Kaur | https://onlinecourses.nptel.ac.in/noc25_cs36/preview | |
| Electrical Engineering | Minor Specialization (VI Semester) online | Track 01: Power System and Power Electronics: | | | | | | | | |
| | | 1 | Fundamental of Power Electronics | 12 Weeks | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr. Vishal Chaudhary | https://onlinecourses.nptel.ac.in/noc25_ee37/preview | |
| | | 2 | Power System Engineering | 12 Weeks | January 20, 2025 | April 11, 2025 | May 4, 2025 | Dr. Vijay Bhuria | https://onlinecourses.nptel.ac.in/noc25_ee67/preview | |
| | | 4 | Network Analysis | 12 Weeks | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr. Vishal Chaudhary | https://onlinecourses.nptel.ac.in/noc25_ee53/preview | |
| | | Track 02: Control and Instrumentation | | | | | | | | |
| | | 1 | Principles of Signals and Systems | 12 Weeks | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr. Vikram | https://onlinecourses.nptel.ac.in/noc25_ee70/preview | |
| | | 2 | Sensors and Actuators | 12 Weeks | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr. A.K. Wadhvani | https://onlinecourses.nptel.ac.in/noc25_ee76/preview | |
| | | 3 | Control engineering | 12 Weeks | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr. Sulochana | https://onlinecourses.nptel.ac.in/noc25_ee15/preview | |
| | 4 | Network Analysis | 12 Weeks | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr. Vishal Chaudhary | https://onlinecourses.nptel.ac.in/noc25_ee53/preview | | |
| | Minor Specialization (VIII Semester) online | Track 01: Power System and Power Electronics: | | | | | | | | |
| | | 1 | Fundamental of Power Electronics | 12 Weeks | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr. Vishal Chaudhary | https://onlinecourses.nptel.ac.in/noc25_ee37/preview | |
| | | 2 | Power System Engineering | 12 Weeks | January 20, 2025 | April 11, 2025 | May 4, 2025 | Dr. Vijay Bhuria | https://onlinecourses.nptel.ac.in/noc25_ee67/preview | |
| | | 3 | Electrical Machines - II | 12 Weeks | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr. Yashwant Sawle | https://onlinecourses.nptel.ac.in/noc25_ee27/preview | |
| | | 4 | Network Analysis | 12 Weeks | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr. Vishal Chaudhary | https://onlinecourses.nptel.ac.in/noc25_ee53/preview | |
| | | Track 02: Control and Instrumentation | | | | | | | | |
| | | 1 | Principles of Signals and Systems | 12 Weeks | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr. Vikram | https://onlinecourses.nptel.ac.in/noc25_ee70/preview | |
| 2 | | Sensors and Actuators | 12 Weeks | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr. A.K. Wadhvani | https://onlinecourses.nptel.ac.in/noc25_ee76/preview | | |
| Electronics Engg. / Electronics & Telecommunication Engg. | Minor Specialization (VI Semester) online | 1 | Microprocessors and Microcontrollers (M140606/M200606) | 12 | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr. Vikas Mahor | https://onlinecourses.nptel.ac.in/noc25_ee49/preview | |
| | | 2 | Network Analysis (M140607/M200607) | 12 | January 20, 2025 | April 11, 2025 | April 27, 2025 | Prof. D. K. Parsediya | https://onlinecourses.nptel.ac.in/noc25_ee53/preview | |
| | | 3 | Communication Networks (M140604/M200604) | 12 | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr. Varun Sharma | https://onlinecourses.nptel.ac.in/noc25_ee12/preview | |
| | | 4 | Fundamentals Of MIMO Wireless Communication (M140605/M200605) | 8 | January 20, 2025 | March 14, 2025 | March 22, 2025 | Prof. Pooja Sahoo | https://onlinecourses.nptel.ac.in/noc25_ee38/preview | |
| | Minor Specialization (VIII Semester) online | 1 | Embedded Sensing, Actuation and Interfacing Systems | 12 | January 20, 2025 | April 11, 2025 | April 26, 2025 | Dr. Hemant Choubey | https://onlinecourses.nptel.ac.in/noc25_ee31/preview | |
| | | 2 | Optical Fiber Sensors (M140806/M200806) | 12 | January 20, 2025 | April 11, 2025 | April 26, 2025 | Prof. Madhav Singh | https://onlinecourses.nptel.ac.in/noc25_ee58/preview | |
| | | 3 | Signal Processing Techniques and its Applications (M140802/M200802) | 12 | January 20, 2025 | April 11, 2025 | May 04, 2025 | Dr. Rahul Dubey | https://onlinecourses.nptel.ac.in/noc25_ee77/preview | |
| | | 4 | Discrete Time Signal Processing (M140810/M200810) | 8 | January 20, 2025 | March 14, 2025 | March 22, 2025 | Dr. Karuna Markam | https://onlinecourses.nptel.ac.in/noc25_ee26/preview | |
| CIVIL ENGINEERING | Minor Specialization (VI Semester) online | 1 | Hydraulic Engineering | 12 Weeks | January 20, 2025 | April 11, 2025 | April 26, 2025 | | https://onlinecourses.nptel.ac.in/noc25_ce32/preview | |
| | | 2 | Water & Wastewater Treatment | 12 Weeks | January 20, 2025 | April 11, 2025 | April 26, 2025 | | https://onlinecourses.nptel.ac.in/noc25_ce10/preview | |
| | Minor Specialization (VIII Semester) online | 1 | Strategies for Sustainable Design | 12 Weeks | January 20, 2025 | April 11, 2025 | April 27, 2025 | | https://onlinecourses.nptel.ac.in/noc25_de04/preview | |
| | | 2 | Rural Water Resources Management | 12 Weeks | January 20, 2025 | April 11, 2025 | May 4, 2025 | | https://onlinecourses.nptel.ac.in/noc25_ee31/preview | |
| | | 3 | Structural Analysis-1 | 12 Weeks | January 20, 2025 | April 11, 2025 | April 26, 2025 | | https://onlinecourses.nptel.ac.in/noc25_ce54/preview | |
| | | 4 | Concrete Technology | 12 Weeks | January 20, 2025 | April 11, 2025 | April 26, 2025 | | https://onlinecourses.nptel.ac.in/noc25_ce10/preview | |
| | | 5 | Hydraulic Engineering | 12 Weeks | January 20, 2025 | April 11, 2025 | April 26, 2025 | | https://onlinecourses.nptel.ac.in/noc25_ce32/preview | |
| | | 6 | Water & Wastewater Treatment | 12 Weeks | January 20, 2025 | April 11, 2025 | April 26, 2025 | | https://onlinecourses.nptel.ac.in/noc25_ce10/preview | |

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| Name of Department | Category | S.No. | Full Name of Course | Weeks | Start Date | End Date | Exam Date | Mentor of our Institute | Link of course from SWAYAM |
|------------------------|---|-------|---|----------|------------------|----------------|----------------|--------------------------------|---|
| Mechanical Engineering | Minor Specialization (VI Semester) online | 1 | Fundamentals of Combustion | 12 week | 20-Jan-25 | 11-Apr-25 | 4-May-25 | Dr M.K Gaur | https://onlinecourses.nptel.ac.in/noc25_me29/preview |
| | | 2 | Introduction to Mechanical Micro Machining | 12 week | 20-Jan-25 | 11-Apr-25 | 27-Apr-25 | Dr M.K Sagar | https://onlinecourses.nptel.ac.in/noc25_me43/preview |
| | Minor Specialization (VIII Semester) online | 1 | IC Engines and Gas Turbines | 12 week | 20-Jan-25 | 11-Apr-25 | 4-May-25 | Prof B.K Pandey | https://onlinecourses.nptel.ac.in/noc25_me36/preview |
| | | 2 | Mechanics of Machining | 8 week | 20-Jan-25 | 14-Mar-25 | 23-Mar-25 | Dr Amit Aherwar | https://onlinecourses.nptel.ac.in/noc25_me53/preview |
| Automobile Engineering | Minor Specialization (VI Semester) online | 1 | Fundamentals of Combustion | 12 week | 20-Jan-25 | 11-Apr-25 | 4-May-25 | Dr M.K Gaur | https://onlinecourses.nptel.ac.in/noc25_me29/preview |
| | | 2 | Introduction to Mechanical Micro Machining | 12 week | 20-Jan-25 | 11-Apr-25 | 27-Apr-25 | Dr M.K Sagar | https://onlinecourses.nptel.ac.in/noc25_me43/preview |
| | Minor Specialization (VIII Semester) online | 1 | IC Engines and Gas Turbines | 12 week | 20-Jan-25 | 11-Apr-25 | 4-May-25 | Prof B.K Pandey | https://onlinecourses.nptel.ac.in/noc25_me36/preview |
| | | 2 | Mechanics of Machining | 8 week | 20-Jan-25 | 14-Mar-25 | 23-Mar-25 | Dr Amit Aherwar | https://onlinecourses.nptel.ac.in/noc25_me53/preview |
| IT | Minor Specialization (VI Semester) | 1 | Programming in Java | 12 | January 20, 2025 | April 11, 2025 | May 4, 2025 | Dr. Vikram Rajpoot | https://onlinecourses.nptel.ac.in/noc25_cs59/preview |
| | | 2 | Programming, Data Structures and Algorithms using | 8 | January 20, 2025 | March 14, 2025 | March 22, 2025 | Prof. Rajeev Singh | https://onlinecourses.nptel.ac.in/noc25_cs23/preview |
| | | 3 | Design and analysis of algorithms | 8 | January 20, 2025 | March 14, 2025 | March 22, 2025 | Dr. Vikram Rajpoot | https://onlinecourses.nptel.ac.in/noc25_cs40/preview |
| | | 4 | Introduction to Database Systems | 12 | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr. Punit Johri | https://onlinecourses.nptel.ac.in/noc25_cs64/preview |
| | Minor Specialization (VIII Semester) online | 1 | Selected Topics in Algorithms | 12 | January 20, 2025 | April 11, 2025 | April 26, 2025 | Dr. Vikram Rajpoot | https://onlinecourses.nptel.ac.in/noc25_cs15/preview |
| | | 2 | Computer Networks And Internet Protocol | 12 | January 20, 2025 | April 11, 2025 | May 4, 2025 | Prof. Neha Bharadwaj | https://onlinecourses.nptel.ac.in/noc25_ee15/preview |
| | | 3 | Fuzzy Logic And Neural Networks | 8 | January 20, 2025 | March 14, 2025 | March 22, 2025 | Prof. Rajeev Singh | https://onlinecourses.nptel.ac.in/noc25_cs57/preview |
| | | 4 | Programming in Java | 12 | January 20, 2025 | April 11, 2025 | May 4, 2025 | Dr. Vikram Rajpoot | https://onlinecourses.nptel.ac.in/noc25_cs23/preview |
| | | 5 | Design and analysis of algorithms | 8 | January 20, 2025 | March 14, 2025 | March 22, 2025 | Dr. Vikram Rajpoot | |
| | | | | | | | | | |
| Chemical Engg. | Minor Specialization (VI Semester) | 1 | Chemical Process Technology | 12 | 20-Jan-25 | 11-Apr-25 | 26-Apr-25 | Dr. Shourabh Singh Raghuvanshi | https://onlinecourses.nptel.ac.in/noc25_ch15/preview |
| | | 2 | Membrane Technology | 12 | 20-Jan-25 | 11-Apr-25 | 26-Apr-25 | Prof. Anish P.Jacob | https://onlinecourses.nptel.ac.in/noc25_ch30/preview |
| | | 3 | Basic Principles and Calculations in Chemical Engineering | 12 | 20-Jan-25 | 11-Apr-25 | 3-May-25 | Prof. Swati Gupta | https://onlinecourses.nptel.ac.in/noc25_ch07/preview |
| | Minor Specialization (VIII Semester) online | 1 | Inorganic Chemical Technology | 12 | 20-Jan-25 | 11-Apr-25 | 26-Apr-25 | Dr. Shourabh Singh Raghuvanshi | https://onlinecourses.nptel.ac.in/noc25_ch27/preview |
| | | 2 | Chemical Engineering Thermodynamics | 12 | 20-Jan-25 | 11-Apr-25 | 4-May-25 | Prof. Swati Gupta | https://onlinecourses.nptel.ac.in/noc25_ch13/preview |
| | | 3 | Momentum Transfer in Fluids | 12 | 20-Jan-25 | 11-Apr-25 | 3-May-25 | Prof. Shivangi Sharma | https://onlinecourses.nptel.ac.in/noc25_ch34/preview |
| CIoT | Minor Specialization (VI and VIII Semester) | 1 | Introduction To Internet Of Things | 12 Weeks | 20-Jan-25 | 11-Apr-25 | 26-Apr-25 | Dr. Priyanka Garg | https://onlinecourses.nptel.ac.in/noc25_cs44/preview |
| | | 2 | Introduction To Industry 4.0 And Industrial Internet Of | 12 Weeks | 20-Jan-25 | 11-Apr-25 | 26-Apr-25 | Dr. Praveen Bansal | https://onlinecourses.nptel.ac.in/noc25_cs44/preview |
| | | 3 | Introduction To Soft Computing | 8 Weeks | January 20, 2025 | March 14, 2025 | March 22, 2025 | Prof. Poonam Singh | https://onlinecourses.nptel.ac.in/noc25_cs11/preview |
| | | 4 | Cloud Computing | 12 Weeks | 20-Jan-25 | 11-Apr-25 | 3-May-25 | Dr. Murlu Manohar | https://onlinecourses.nptel.ac.in/noc25_ee76/preview |
| | | 5 | Sensors and Actuators | 12 Weeks | January 20, 2025 | April 11, 2025 | April 27, 2025 | Dr, Bhavna Rathore | |