

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

DEPARTMENT OF ARCHITECTURE COURSE STRUCTURE



(Tentative)

| I SEMESTER | II SEMESTER | III SEMESTER | IV SEMESTER | V SEMESTER | VI SEMESTER | VII SEMESTER | VIII SEMESTER | IX SEMESTER | X SEMESTER |
|--|--|---|--|--|---|---|---|--|--------------------------|
| Graphics I | Graphics II | Building Construction II | Building Construction III | Building Construction IV | Estimation, Costing and specification | Professional Practice | Project Management & building Economics | Professional Training | Professional Training |
| Building Materials | Building Construction I | History of Western Architecture | Electrical and Mechanical Building Services | Acoustic and fire fighting Services | Site Planning and Landscaping Architecture | Adv Building Construction | Departmental Elective* (DE-4) | Professional Development Course (MOOC) | Professional Development |
| Engineering Mechanics | Structural Systems in Architecture | Structural Design and Analysis | Design of Steel Structures | Departmental Elective* (DE-1) | Urban design | Open Category Course* (OC-2) | Design Thesis Project | | |
| Architectural History of Ancient Civilizations | History of Indian Architecture | Building Physics I | History of Modern and Contemporary Architecture | Surveying & Levelling | Departmental Elective* (DE-2) | Departmental Elective* (DE-3) | | | |
| Theory of Design | Single Spaces and Small Scale Multi Buildings Design | Water Supply and Sanitation Services | Building Physics II | Specialization Course (SPC-1) | Open Category Course (OC-1) | Specialization Course (SPC-3) | | | |
| Basic Design | Building Construction I (Lab) | Residential and Institutional Buildings Design | Rural and Community Buildings Design | Cultural and Healthcare Buildings Design | Specialization Course (SPC-2) | Townships and Public Buildings Design | | | |
| Graphics I (Lab) | Graphics II (Lab) | Building Construction II (Lab) | Building Construction III (Lab) | Building Construction IV (Lab) | Hospitality and Urban Infrastructure Design | Dissertation | | | |
| Semester Proficiency ⁵ | Semester Proficiency ⁵ | Semester Proficiency ⁵ | Semester Proficiency ⁵ | Semester Proficiency ⁵ | Semester Proficiency ⁵ | Semester Proficiency ⁵ | | | |
| Micro Project-I ⁶ (Workshop I) | Micro Project-II ⁶ (Workshop II) | Macro Project-I (Computer Graphics) | Macro Project-II ⁶ (Measurement Drawing) | Cornerstone Project (Working Drawing I) | Capstone Project (Working Drawing II) | Mandatory Workshop on Computational Architecture at Department Level (Duration: Two Days) | | | |
| Language Lab | Novel Engaging Course (Activity Based Learning) | Self-learning/Presentation ⁵ (SWAYAM/NPTEL/MOOC) | Novel Engaging Course (Activity Based Learning) | Supply Chain Management | Disaster Management | | | | |
| Novel Engaging Course (Activity Based Learning) | Skill Internship Program(Evaluation) | Novel Engaging Course (Activity Based Learning) | Skill Internship Project (Evaluation) | Mandatory Workshop on Blockchain at Department Level (Duration: Two Days) | Mandatory Workshop on Intellectual Property Rights at Department Level (Duration: Two Days) | | | | |
| Universal Human Values & Professional Ethics (UHVPE) | Sustainability & Environmental Science | Cyber Security /Data Science | Artificial Intelligence & Machine Learning | | | | | | |
| Mandatory Workshop on Indian Constitution and Traditional Knowledge at Department Level (Duration: Two Days) | Mandatory Workshop on Indian Constitution and Traditional Knowledge at Department Level (Duration) | Mandatory Workshop on Internet of Things(IoT) at Department Level (Duration: Two Days) Python Programming | Mandatory Workshop on Life Skills at Department Level (Duration: Two Days) | Mandatory Workshop on Computer Vision at Department Level (Duration: Two Days) | | | | | |

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| HSMC | Humanities and Social Sciences including Management Courses |
| BSC | Basic Science Courses |
| ESC | Engineering Science Courses |
| DC | Departmental Core |
| DE | Departmental Elective |
| SPC | Specialization Courses |
| OC | Open Category |
| DLC | Departmental Laboratory Courses |
| MOOC | Massive Open Online Course |
| MWS | Mandatory Workshop |
| SP | Semester Proficiency |
| SIP | Skill Internship Program |
| SLP | Self-learning Presentation |
| PDC | Professional Development Component |
| PBL | Project Based Learning |
| PC | Professional Certification |
| MAC | Mandatory Audit Course |
| NEC | Novel Engaging Course |

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| <i>Departmental Elective Courses</i> | |
|--|---|
| <i>DE - 3</i> | |
| <i>Cultural Architecture and Identity</i> | |
| <i>Social Impact Design and Community Engagement</i> | |
| <i>AI & ML in Architecture</i> | |
| <i>Open Category Courses</i> | |
| <i>OC - 1</i> | <i>OC - 2</i> |
| <i>Urban Planning</i> | <i>Interior Design</i> |
| <i>Specialization Courses Tracks</i> | |
| <i>Specialization in Urban Planning</i> | <i>Specialization in Architectural Conservation</i> |
| <i>Planning Principles and Theory</i> | <i>Adaptive Reuse and Sustainable Retrofitting</i> |
| <i>Socio-Economic Basis for Planning</i> | <i>Basics of Conservation</i> |
| <i>City & Metropolitan Planning</i> | <i>Urban Heritage Conservation & Planning for Tourism</i> |