

Division	Faculty of Science & Health Science
School Name	School of Health Science & Technology
Department Name	Department of Pharmaceutical Science
Programme Name	M. Tech. Medical Devices

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Course Type	Description
Programme Core	Courses dealing with foundations, depth and breadth of the major in which a student is admitted at MIT-WPU
Programme Electives	Open electives under the Programme allow students to specialise in a particular area connected to their major.
University Core	Courses that reflect the core MITWPU values and the mission of Life Transformation of students.
University Electives	Multidisciplinary courses across the faculties at MIT-WPU and outside the Programme core.

# M. Tech. (Medical Devices) (First Year) (2024-26) Semester – I

Sr. No	Name of Course	Туре	Credits
1	Medical Device Technology I	PC	3
2	Biomedical Engineering Fundamentals	PC	3
3	Biomaterials and Biocompatibility	PC	3
4	Research Methodology and Statistics	PC	2
5	Medical Device Technology Lab I	PC	5
6	Yoga	UC	1
7	Scientific Studies of Mind, Matter, Spirit and Consciousness	UC	2
8	Program Elective I	PE	3
	Total Credits: Semester I		22

# M. Tech. (Medical Devices) (First Year) (2024-26) Semester – II

Sr. No	Name of Course	Туре	Credits
1	Medical Device Technology II	PC	3
2	Diagnostics and Therapeutics	PC	3
3	Regulatory Affairs and Quality Assurance	PC	3
4	Structure and Management of Clinical trials	PC	2
5	Medical Device Technology Lab II	PC	4
6	Peace Building: Global Initiative	UC	2
7	Program Elective II	PE	3
8	Program Elective III	PE	2
	Total:		22

# M. Tech. (Medical Devices) (First Year) (2024-26) Semester – III

Sr. No	Name of Course	Туре	Credits
1	Entrepreneurship Ideation and Planning	PC	2
2	Additive and Subtractive Manufacturing	PC	2
3	Design Thinking	PC	2
4	Research Ethics	PC	1
5	Scientific Writing	PC	1
6	Research Project / Industry Internship	PC	12
7	Program Elective IV	PE	2
	Total:		22

#### M. Tech. (Medical Devices) (First Year) (2024-26) Semester – IV

Sr. No	Name of Course	Туре	Credits
1	Scientific Presentation	PC	2
2	Intellectual Property Rights	PC	2
3	Research Project / Industry Internship	PC	12
4	Dissertation	PC	4
	Total:		20

<sup>\*</sup>Modifications to the programmes and courses are contingent upon adherence to university guidelines and procedures. Any proposed changes must undergo a thorough review process, including consultation with relevant academic departments, approval from the appropriate administrative bodies, and compliance with accreditation standards.

Additionally, consideration will be given to feedback from students, faculty, and other stakeholders to ensure that modifications align with the overall educational objectives and mission of the university. The implementation of any approved changes will be communicated transparently to the university community, and appropriate measures will be taken to facilitate a smooth transition for all affected parties.