



Walchand College of Engineering

(Government Aided Autonomous Institute)

Credit System for Third Year B. Tech.

(Multidisciplinary Minor (MDM) in Electric Vehicles)

Applicable from AY 2025-26

Sr. No.	Semester	Course Code	Course Name	L	T	P	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
01	IV	7MD221	Introduction to Electric Vehicles	3	0	0	3	3	30	20	50	--
02	V	7MD301	Drives and Control for Electric Vehicles	3	0	0	3	3	30	20	50	--
03	VI	7MD321	Embedded Systems for Automotive Application	3	0	0	3	3	30	20	50	--
04	VI	7MD371	Battery Simulation and BMS Modelling Lab	0	0	2	2	1	30	30	40	POE
05	Sem A/B	7MD401	Intelligent EV Ecosystems	3	0	0	3	3	30	20	50	--
06		7MD441	Mini project	0	0	2	2	1	30	30	40	POE
			Total	12	0	4	16	14				

Dr. S. S. Karvekar EV - MDM Team Lead	Dr. Deshbhushan Patil Member Secretary, BoS	Dr. S. B. Paramane HOD / Chairman, BoS	Dr. A.K. Kokane Dean Academics
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Walchand College of Engineering

(Government Aided Autonomous Institute)

Credit System for Third Year B. Tech.

(Multidisciplinary Minor (MDM) in Smart Cities)

Applicable from AY 2025-26

Sr. No.	Semester	Course Code	Course Name	L	T	P	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
01	IV	7MD222	Introduction to Urban Planning	3	0	0	3	3	30	20	50	--
02	V	7MD302	Smart Infrastructure	3	0	0	3	3	30	20	50	--
03	VI	7MD322	Data Science and Analytics for Smart Cities	3	0	0	3	3	30	20	50	--
04	VI	7MD372	Smart Infrastructure Testbeds Lab	0	0	2	2	1	30	30	40	POE
05	Sem A/B	7MD402	Green Technology and Sustainability	3	0	0	3	3	30	20	50	--
06		7MD442	Mini Project	0	0	2	2	1	30	30	40	POE
			Total	12	0	4	16	14				

Dr. Deshbhushan Patil
Smart Cities - MDM Team Lead

Dr. Deshbhushan Patil
Member Secretary, BoS

Dr. S. B. Paramane
HOD / Chairman, BoS

Dr. A.K. Kokane
Dean Academics



Walchand College of Engineering

(Government Aided Autonomous Institute)

Credit System for Third Year B. Tech.

(Multidisciplinary Minor (MDM) in FinTech)

Applicable from AY 2025-26

Sr. No.	Category	Course Code	Course Name	L	T	P	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
01	IV	7MD223	Introduction to Financial Markets	3	0	0	3	3	30	20	50	--
02	V	7MD303	Risk Management and Compliance	3	0	0	3	3	30	20	50	--
03	VI	7MD323	Financial Modelling	3	0	0	3	3	30	20	50	--
04	VI	7MD373	FinTech Entrepreneurship Lab	0	0	2	2	1	30	30	40	POE
05	Sem A/B	7MD403	Data Science and Analytics for FinTech	3	0	0	3	3	30	20	50	--
06		7MD443	Mini project	0	0	2	2	1	30	30	40	POE
			Total	12	0	4	16	14				

Dr. B.F. Momin FinTech - MDM Team Lead	Dr. Deshbhushan Patil Member Secretary, BoS	Dr. S. B. Paramane HOD / Chairman, BoS	Dr. A.K. Kokane Dean Academics
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Walchand College of Engineering

(Government Aided Autonomous Institute)

Credit System for Third Year B. Tech.

(Multidisciplinary Minor (MDM) in AIML)

Applicable from AY 2025-26

Sr. No.	Semester	Course Code	Course Name	L	T	P	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
01	IV	7MD225	Essentials of Artificial Intelligence and Machine Learning	3	0	0	3	3	30	20	50	--
02	V	7MD305	Mathematics for Artificial Intelligence	3	0	0	3	3	30	20	50	--
03	VI	7MD325	Machine Learning	3	0	0	3	3	30	20	50	--
04	VI	7MD375	Artificial Intelligence & Machine Learning Lab	0	0	2	2	1	30	30	40	POE
05	Sem A/B	7MD405	Advanced Artificial Intelligence	3	0	0	3	3	30	20	50	--
06		7MD445	Mini Project	0	0	2	2	1	30	30	40	POE
			Total	12	0	4	16	14				

Mr. Manish Narnaware AIML - MDM Team Lead	Dr. Deshbhushan Patil Member Secretary, BoS	Dr. S. B. Paramane HOD / Chairman, BoS	Dr. A.K. Kokane Dean Academics
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Walchand College of Engineering

(Government Aided Autonomous Institute)

Credit System for Third Year B. Tech.

(Multidisciplinary Minor (MDM) in Robotics and Automation)

Applicable from AY 2025-26

Sr. No.	Semester	Course Code	Course Name	L	T	P	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
01	IV	7MD226	Robotics Fundamentals and Design	3	0	0	3	3	30	20	50	--
02	V	7MD306	Robot Kinematics and Dynamics	3	0	0	3	3	30	20	50	--
03	VI	7MD326	Computer Vision in Robotics	3	0	0	3	3	30	20	50	--
04	VI	7MD376	ROS Simulation Lab	0	0	2	2	1	30	30	40	POE
05	Sem A/B	7MD406	Control of Robotics Systems	3	0	0	3	3	30	20	50	--
06		7MD446	Mini project	0	0	2	2	1	30	30	40	POE
			Total	12	0	4	16	14				

Dr. S. B. Paramane R&A - MDM Team Lead	Dr. Deshbhushan Patil Member Secretary, BoS	Dr. S. B. Paramane HOD / Chairman, BoS	Dr. A.K. Kokane Dean Academics
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Walchand College of Engineering

(Government Aided Autonomous Institute)

Credit System for Third Year B. Tech.

(Multidisciplinary Minor (MDM) in Geomatics Engineering)

Applicable from AY 2025-26

Sr. No.	Semester	Course Code	Course Name	L	T	P	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
01	IV	7MD224	Surveying and Mapping	2	1	0	3	3	30	20	50	--
02	V	7MD304	Digital Image Processing and Remote Sensing	3	0	0	3	3	30	20	50	--
03	VI	7MD324	Geographic Information System	3	0	0	3	3	30	20	50	--
04	VI	7MD374	Geographic Information System Lab	0	0	2	2	1	30	30	40	POE
05	Sem A/B	7MD404	Geospatial Data Analytics and Applications	3	0	0	3	3	30	20	50	--
06		7MD444	Mini project	0	0	2	2	1	30	30	40	POE
			Total	11	01	4	16	14				

Dr. Ravindra Rathod GE - MDM Team Lead	Dr. Deshbhushan Patil Member Secretary, BoS	Dr. S. B. Paramane HOD / Chairman, BoS	Dr. A.K. Kokane Dean Academics
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