

Walchand College of Engineering

(Government Aided Autonomous Institute)

Vishrambag, Sangli. 416 415



**Credit System for
Multidisciplinary Minor (MDM) in Electric Vehicles
Sem-IV to VIII**

AY 2024-25 onwards

Walchand College of Engineering

(Government Aided Autonomous Institute)

Credit System for Multidisciplinary Minor (MDM) in Electric Vehicles

Academic Year 2024-25 onwards

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	Drive Systems in Electric Vehicles	3	0	0	3	3	30	20	50	--
03	VI	7MD321	Embedded Systems for Automotive Applications	3	0	0	3	3	30	20	50	--
04	VI	7MD371	Embedded Systems for Automotive Applications Lab	0	0	2	2	1	30	30	40	POE
05	Final Yr.	7MD401	Intelligent EV Ecosystems	3	0	0	3	3	30	20	50	--
06	Sem B	7MD451	Mini project	0	0	2	2	1	30	30	40	POE
Total				12	0	4	16	14				

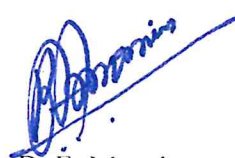
Note: Refer to the Institute's Academic and Examination rules and regulations in conjunction with the various minutes of the academic council meetings for details.



Dr. S. S. Karvekar
EV - MDM Team Lead



Dr. S. S. Karvekar
Member Secretary,
Board of Studies, MDM



Dr. B. F. Momin
Chairman,
Board of Studies, MDM



Dr. A. K. Kokane
Member Secretary, Academic
Council, WCE, Sangli

Walchand College of Engineering

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Vishrambag, Sangli. 416 415



**Credit System for
Multidisciplinary Minor (MDM) in Smart Cities
Sem-IV to VIII**

AY 2024-25 onwards





Walchand College of Engineering
(Government Aided Autonomous Institute)

Credit System for Multidisciplinary Minor (MDM) in Smart Cities
Academic Year 2024-25 onwards

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	7MD323	IoT and Data Analytics for Smart Cities	3	1	0	4	4	30	20	50	--
04	Sem B	7MD422	Green Technology and Energy Management	3	0	0	3	3	30	30	40	--
05	Sem B	7MD472	Mini Project	0	0	2	2	1	30	20	50	OE
Total				12	1	2	15	14				

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 Dr. D. S. Patil Smart Cities - MDM Team Lead	 Dr. S. S. Karvekar Member Secretary, Board of Studies, MDM	 Dr. B. F. Momin Chairman, Board of Studies, MDM	 Dr. A. K. Kokane Member Secretary, Academic Council, WCE, Sangli
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Walchand College of Engineering

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Vishrambag, Sangli. 416 415



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**Credit System for
Multidisciplinary Minor (MDM) in FinTech
Sem-IV to VIII**


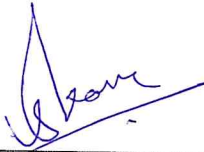

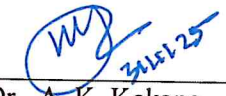
AY 2024-25 onwards

Walchand College of Engineering
(Government Aided Autonomous Institute)

Credit System for Multidisciplinary Minor (MDM) in FinTech
Academic Year 2024-25 onwards

Sr.No.	Semester	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	7MD324	FinTech Entrepreneurship and Innovation	3	0	0	3	3	30	20	50	--
04	VI	7MD423	FinTech Entrepreneurship and Innovation Lab	0	0	2	2	1	30	30	40	POE
05	Final Yr.	7MD473	Data Analytics for Finance	3	0	0	3	3	30	20	50	--
06	Sem B	7MD474	Data Analytics for Finance Lab	0	0	2	2	1	30	30	40	POE
Total				12	0	4	16	14				

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 Dr. B. F. Momin FinTech - MDM Team Lead	 Dr. S. S. Karvekar Member Secretary, Board of Studies, MDM	 Dr. B. F. Momin Chairman, Board of Studies, MDM	 Dr. A. K. Kokane Member Secretary, Academic Council, WCE, Sangli
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Walchand College of Engineering

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**Credit System for
Multidisciplinary Minor (MDM) in Geomatics Engineering
Sem-IV to VIII**


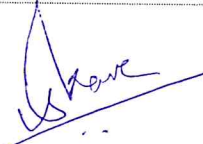


AY 2024-25 onwards

Walchand College of Engineering
(Government Aided Autonomous Institute)

Credit System for Multidisciplinary Minor (MDM) in Geomatics Engineering
Academic Year 2024-25 onwards

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	Remote Sensing and Image Processing	3	0	0	3	3	30	20	50	--
03	VI	7MD325	Geographic Information System	3	0	0	3	3	30	20	50	--
04	VI	7MD375	Geographic Information System Laboratory	0	0	2	2	1	30	30	40	POE
05	Final Yr.	7MD424	Geospatial Data Analysis and applications	3	0	0	3	3	30	20	50	--
06	Sem B	7MD475	Mini Project	0	0	2	2	1	30	30	40	POE
Total				11	01	4	16	14				

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 Dr. R. R. Rathod GE - MDM Team Lead	 Dr. S. S. Karvekar Member Secretary, Board of Studies, MDM	 Dr. B. F. Momin Chairman, Board of Studies, MDM	 Dr. A. K. Kokane Member Secretary, Academic Council, WCE, Sangli
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Walchand College of Engineering

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Vishrambag, Sangli. 416 415



**Credit System for
Multidisciplinary Minor (MDM) in Artificial Intelligence and Machine Learning
Sem-IV to VIII**


AY 2024-25 onwards


Walchand College of Engineering
(Government Aided Autonomous Institute)


**Credit System for Multidisciplinary Minor (MDM) in Artificial Intelligence and Machine Learning
Academic Year 2024-25 onwards**


Sr.No.	Semester	Course Code	Course Name	L	T	P	I	Hrs	Cr	MSE/LA1	ISE/LA2	ESE	Ext
01	IV	7MD225	Essentials of Artificial Intelligence and Machine Learning	3	0	0	0	3	3	30	20	50	—
02	V	7MD305	Mathematics for Artificial Intelligence and Machine Learning	3	0	0	0	3	3	30	20	50	—
03	VI	7MD327	Python for Artificial Intelligence and Machine Learning	3	0	0	0	3	3	30	20	50	—
04	VI	7MD377	Python for Artificial Intelligence and Machine Learning lab	0	0	2	0	2	1	30	30	40	POE
05	Final Year Sem B	7MD425	Advanced Artificial Intelligence and Machine Learning	3	0	0	0	3	3	30	20	50	—
06		7MD476	Advanced Artificial Intelligence and Machine Learning lab/Mini Project	0	0	2	0	2	1	30	30	40	POE
			Total	12	0	4	0	16	14				

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27/01/25
Mr. M. B. Narnaware
AIML-MDM Team Lead


Dr. S. S. Karvekar
Member Secretary,
Board of Studies, MDM


Dr. B. F. Momin
Chairman,
Board of Studies, MDM


31-01-25
Dr. A. K. Kokane
Member Secretary, Academic
Council, WCE, Sangli

Walchand College of Engineering

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**Credit System for
Multidisciplinary Minor (MDM) in Robotics and Automation
Sem-IV to VIII**

AY 2024-25 onwards

Walchand College of Engineering
(Government Aided Autonomous Institute)

Credit System for Multidisciplinary Minor (MDM) in Robotics and Automation
Academic Year 2024-25 onwards

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	Automation and Control Systems	3	0	0	3	3	30	20	50	--
03	VI	7MD328	Computer Vision and Robotics	3	0	0	3	3	30	20	50	--
04	VI	7MD378	Robotics and Automation Lab	0	0	2	2	1	30	30	40	OE
05	Final Yr.	7MD426	Programming and AI for Robotics	3	0	0	3	3	30	20	50	--
06	Sem B	7MD477	Mini project	0	0	2	2	1	30	30	40	OE
Total				12	0	4	16	14				

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Mr. S. P. Nevagi
R&A - MDM Team Lead



Dr. S. S. Karvekar
Member Secretary,
Board of Studies, MDM



Dr. B. F. Momin
Chairman,
Board of Studies, MDM



Dr. A. K. Kokane
Member Secretary, Academic
Council, WCE, Sangli