Walchand College of Engineering

(Government Aided Autonomous Institute)

Curriculum Structure and Credit System

First Year B.Tech. (Artificial Intelligence and Machine Learning)

Applicable from A.Y. 2026–27 and Onwards

Semester I

S. N.	Course Particulars			Course Delivery					Credits	Assessments			
	Category	Code	Name	L	T	I	P	H		ISE/LA1	MSE/LA2	ESE	Ext.
1	BSC	8BS117	Linear Algebra and Calculus	2	1			3	3	20	30	50	--
2	BSC	8BS120	Molecular Foundation for Computing	2			2	4	3	30	20	50	--
3	ESC	8ES151	Engineering Exploration	2			4	6	4	30	30	40	--
4	ESC	8ES114	Problem Solving and Programming			2	2	4	3	30	30	40	--
5	PCC	2AI101	Computer System and Architecture	3				3	3	20	30	50	--
6	VSEC	2VS153	Hardware Assembly Skill				2	2	1	30	30	40	--
7	CCA	Refer List	CCA 1 (from CCA list)				2	2	1	30	30	40	--
8	AEC	8AE151	Professional Communication		1	1		2	2	30	30	40	--
			Totals	**9**	**2**	**3**	**12**	**26**	**20**				

DAC/Secretary, BoS

Chairman, BoS

Dean Academics

14/7/26

updated

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Semester II

S. N.	Course Particulars			Course Delivery					Credits	Assessments			
	Category	Code	Name	L	T	I	P	H		ISE/LA1	MSE/LA2	ESE	Ext.
1	BSC	8BS119	Numerical Methods for Computation	2	1			3	3	20	30	50	--
2	BSC	8BS118	Quantum Foundation for Computing	2			2	4	3	30	20	50	--
3	ESC	2ES106	Digital Logic Design	2			2	4	3	30	20	50	--
4	ESC	8ES107	Engineering Graphics and CAD	2			2	4	3	30	20	50	--
5	ESC	8ES155	Python Programming			1	2	3	2	30	30	40	--
6	PCC	2AI102	Fundamentals of AI	3				3	3	20	30	50	--
7	VSEC	2VS154	Data Visualization Skills				2	2	1	30	30	40	--
8	CCA	Refer List	CCA 2 (from CCA list)				2	2	1	30	30	40	--
9	IKS	8IK151	Indian Knowledge System			2		2	2	30	30	40	--
			Totals	**11**	**1**	**3**	**12**	**27**	**21**				

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