Walchand College of Engineering

(Government Aided Autonomous Institute)

Curriculum Structure and Credit System

First Year of 5-Years Integrated B.Tech. & M.Tech. (VLSI Design and Embedded Systems)

Applicable from A.Y. 2026-27 and onwards

Semester I

Sr.	Course Particulars			Course Delivery					Credits	Assessments			
	Category	Code	Name	L	T	I	P	Hrs		ISE/LA1	MSE/LA2	ESE	Ext.
1	BSC	1BS101	Linear Algebra and Calculus	2	1			3	3	20	30	50	--
2	BSC	1BS102	Material Science	2			2	4	3	30	20	50	--
3	ESC	8ES151	Engineering Exploration	2			4	6	4	30	30	40	--
4	ESC	1ES101	Network Analysis	3				3	3	20	30	50	--
5	PCC	1VL101	Digital Electronics	3				3	3	20	30	50	--
6	PCC	1VL151	Digital Electronics Lab				2	2	1	30	30	40	--
6	VSEC	1VS151	Digital Manufacturing				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	**13**	**2**		**12**	**27**	**21**				

DAC/Secretary, BoS

Head, Electronics Engg.Dept./
Chairman, BoS

Dean Academics

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Semester II

Sr.	Course Particulars			Course Delivery					Credits	Assessments			
	Category	Code	Name	L	T	I	P	Hrs		ISE/LA1	MSE/LA2	ESE	Ext.
1	BSC	1BS103	Transforms and Complex Analysis	2	1			3	3	20	30	50	--
2	BSC	1BS104	Semiconductor Physics	2			2	4	3	30	20	50	--
3	ESC	1ES102	Engineering Graphics	2			2	4	3	30	20	50	--
4	ESC	1ES151	C Programming and Data Structures	1			4	5	3	30	30	40	--
5	PCC	1VL102	Analog Electronics	3				3	3	20	30	50	--
6	PCC	1VL152	Analog Electronics Lab				2	2	1	30	30	40	--
7	IKS	8IK151	Indian Knowledge System	1		1		2	2	30	30	40	--
8	VSEC	1VS152	Linux and Scripting				2	2	1	30	30	40	--
9	CCA	Refer list	CCA 2 (from CCA list)				2	2	1	30	30	40	--
			Totals	**11**	**1**	**1**	**14**	**27**	**20**				

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