

M.Tech in Microelectronics & VLSI Technology

Semester-1

SI.No	Code	Paper Name	Marks	Credit points
1	PGMVD-101	Advanced Engineering Mathematics	100	4
2	PGMVD-102	Physics of VLSI Devices	100	4
3	PGMVD-103	Data Structure and Algorithm	100	4
4	PGMVD-104	Microelectronics Technology	100	4
5	PGMVD-105	Digital VLSI Circuit and Systems	100	4
		Total of Theory	500	20
6	PGMVD-191	a) Microelectronics Lab-I (Fabrication Techniques)	100	2
7	PGMVD-192	b) VLSI Design Lab-I	100	2
8	PGMVD-193	Seminar -Review of current research paper	100	2
		Total of Practical	300	6
		Total	800	26

Total Credit-26

## Semester-2

SI.No	Code	Paper Name	Marks	Credit points
1	PGMVD-201	Analog VLSI Circuit & Systems	100	4
2	PGMVD-202	Testing & Verification of VLSI Systems	100	4
3	PGMVD-203	A: Digital Signal Processing and Application B.Advanced communications system	100	4
4	PGMVD-204	Advanced Micro & Nano Devices	100	4
5	PGMVD-205	Project Management	100	4
		Total of Theory	500	20
6	PGMVD-291	Micro Electronics Lab-II (Characterisation)	100	2
7	PGMVD-292	VLSI Design Lab-II	100	2
8	PGMVD-293	Term paper leading to Thesis	100	2
		Total of Practical	300	6
		Total	800	26

Total Credit-26

## Semester 3

<b>Sl.No</b>	<b>Code</b>	<b>Paper Name</b>	<b>Marks</b>	<b>Credit points</b>
1	PGMVDE-301	AOperating System BComputer Organization CAlgorithms	100	4
		<b>Total of Theory</b>		
2	PGMVD-391	Project Part-I	100	4
3	PGMVD-392	Project Defence	100	4
4	PGMVD-393	Group Project	100	4
		Total of Practical	300	
		Total	400	16

## Semester 4

<b>Sl.No</b>	<b>Code</b>	<b>Paper Name</b>	<b>Marks</b>	<b>Credit points</b>
1	PGMVD-491	Project Part -II	100	10
2	PGMVD-492	Comprehensive Viva-voce	100	4
		Total	200	14