

CREDIT INFO		
S.no	Category	Credits
1	Discipline Core	24
2	Discipline Elective	12
3	Projects and Internship	26
4	Open Elective	3
5	Skill Enhancement	5
Total Credits		70

Discipline Core									
sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	MVLD501L	Physics of VLSI Devices	Theory Only	1.0	3	0	0	0	3.0
2	MVLD502L	Digital IC Design	Theory Only	1.0	3	0	0	0	3.0
3	MVLD503L	Digital Design with FPGA	Theory Only	1.0	2	0	0	0	2.0
4	MVLD503P	Digital Design with FPGA Lab	Lab Only	1.0	0	0	2	0	1.0
5	MVLD504L	Analog IC Design	Theory Only	1.0	3	0	0	0	3.0
6	MVLD504P	Analog IC Design Lab	Lab Only	1.0	0	0	2	0	1.0
7	MVLD505L	ASIC Design	Theory Only	1.0	3	0	0	0	3.0
8	MVLD505P	ASIC Design Lab	Lab Only	1.0	0	0	2	0	1.0
9	MVLD506L	VLSI Testing and Testability	Theory Only	1.0	3	0	0	0	3.0
10	MVLD506P	VLSI Testing and Testability Lab	Lab Only	1.0	0	0	2	0	1.0
11	MVLD507L	IC Technology	Theory Only	1.0	3	0	0	0	3.0

Discipline Elective									
sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	MVLD601L	Computer Aided Design for VLSI	Theory Only	1.0	3	0	0	0	3.0
2	MVLD602L	Low Power IC Design	Theory Only	1.0	3	0	0	0	3.0
3	MVLD603L	VLSI Verification Methodologies	Theory Only	1.0	3	0	0	0	3.0
4	MVLD604L	Scripting Languages for VLSI Design Automation	Theory Only	1.0	3	0	0	0	3.0
5	MVLD605L	Advanced Computer Arithmetic	Theory Only	1.0	3	0	0	0	3.0
6	MVLD606L	Mixed Signal IC Design	Theory Only	1.0	3	0	0	0	3.0
7	MVLD607L	RFIC Design	Theory Only	1.0	3	0	0	0	3.0
8	MVLD608L	VLSI Digital Signal Processing	Theory Only	1.0	3	0	0	0	3.0
9	MVLD609L	System-on-Chip Design	Theory Only	1.0	3	0	0	0	3.0
10	MVLD610L	Nanoscale Devices and Circuit Design	Theory Only	1.0	3	0	0	0	3.0
11	MVLD611L	Advanced Computer Architecture	Theory Only	1.0	3	0	0	0	3.0
12	MVLD612L	Micro Sensors and Interface Electronics	Theory Only	1.0	3	0	0	0	3.0
13	MVLD613L	System Design with FPGA	Theory Only	1.0	3	0	0	0	3.0
14	MVLD614L	DSP Architectures	Theory Only	1.0	3	0	0	0	3.0

Discipline Elective										
15	MVLD615L	Memory Design and Testing	Theory Only	1.0	3	0	0	0	0	3.0

Projects and Internship									
sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	MVLD696J	Study Oriented Project	Project	1.0	0	0	0	0	2.0
2	MVLD697J	Design Project	Project	1.0	0	0	0	0	2.0
3	MVLD698J	Internship I/ Dissertation I	Project	1.0	0	0	0	0	10.0
4	MVLD699J	Internship II/ Dissertation II	Project	1.0	0	0	0	0	12.0

Open Elective									
sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	CFOC308M	The Joy of Computing using Python	Online Course	1.0	0	0	0	0	3.0

Skill Enhancement									
sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	MENG501P	Technical Report Writing	Lab Only	1.0	0	0	4	0	2.0
2	MSTS501P	Qualitative Skills Practice	Soft Skill	1.0	3	0	0	0	1.5
3	MSTS502P	Quantitative Skills Practice	Soft Skill	1.1	0	0	3	0	1.5