

Proposed Course Structure
M.Sc. (Electronics)

Semester-I

S. NO	Paper Code	Paper Title	Credit	Period Per Week		Distribution of marks		
				L	P	Mid Semester Test	End Semester Exam	Total
						Max Marks	Max Marks	
1	MEL-101	Introduction to Nanotechnology	4	4	-	40	60	100
2	MEL-102	Data Communication and Networking (CBCS)	4	4	-	40	60	100
3	MEL-103	Signals and Systems	4	4	-	40	60	100
4	MEL-104	MEMS/NEMS Devices fabrication	4	4	-	40	60	100
5	MEL-105	Analog and Digital Electronics	4	4		40	60	100
6	MEL-151	Electronics Lab	2	-	4	30	20	50
Elective Course (any one)								
7	MEL-106	Machine Intelligence for Integrated Circuits	4	4	-	40	60	100
8	MEL-107	Nano-Electronics	4	4	-	40	60	100
		TOTAL CREDITS	26			TOTAL MARKS		650

Semester-II

S. NO	Paper Code	Paper Title	Credit	Period Per Week		Distribution of marks		
				L	P	Mid Semester Test	End Semester Exam	Total
						Max Marks	Max Marks	
1	MEL-201	Analog and Digital Communication	4	4	-	40	60	100
2	MEL-202	Organic Electronics (CBCS)	4	4	-	40	60	100
3	MEL-203	Optoelectronics	4	4	-	40	60	100
4	MEL-204	RF Microwave and Antennas	4	4	-	40	60	100
5	MEL-251	Optoelectronics Lab	2	-	4	30	20	50
6	MEL-271	Seminar	2	-	4	30	20	50
Elective Course (any one)								
7	MEL-205	Control Systems	4	4	-	40	60	100
8	MEL-206	Power Electronics	4	4	-	40	60	100
		TOTAL CREDITS	24			TOTAL MARKS		600

Semester-III

S. N. O.	Paper Code	Paper Title	Credit	Period Per Week		Distribution of marks		
				L	P	Mid Semester Test	End Semester Exam	Total
						Max Marks	Max Marks	
1	MEL-351	Minor Project	8	-	8	120	80	200
Elective Course (any three)								
2	MEL-301	Digital Image Processing (MOOC)	3+1	4	-	40	60	100
3	MEL-302	Transducers For Instrumentation (MOOC)	3+1	4	-	40	60	100
4	MEL-303	VLSI Design Flow: RTL to GDS (MOOC)	3+1	4	-	40	60	100
5	MEL-304	Nanophotonics, Plasmonics, And Metamaterials (MOOC)	3+1	4	-	40	60	100
6	MEL-305	Introduction To Wireless And Cellular Communications (MOOC)	3+1	4	-	40	60	100
7	MEL-306	Introduction To Semiconductor Devices (MOOC)	3+1	4	-	40	60	100
8	MEL-307	Microelectronics: Devices To Circuits (MOOC)	3+1	4	-	40	60	100
9	MEL-308	Machine Learning And Deep Learning - Fundamentals And Applications (MOOC)	3+1	4	-	40	60	100
10	MEL-309	Real-Time Digital Signal Processing (MOOC)	3+1	4	-	40	60	100
11	MEL-310	Fundamentals of Artificial Intelligence (MOOC)	3+1	4	-	40	60	100
12	MEL-311	Understanding Incubation And Entrepreneurship (MOOC)	3+1	4	-	40	60	100
13	MEL-312	Human Resource Development (MOOC)	3+1	4	-	40	60	100
		TOTAL CREDITS	20			TOTAL MARKS		500

Semester-IV

S. N. O.	Paper Code	Paper Title	Credit	Period Per Week		Distribution of marks		
				L	P	Mid Semester Test	End Semester Exam	Total
						Max Marks	Max Marks	
1	MEL-401	Dissertation	16	-	-	240	160	400
		TOTAL CREDITS	16			TOTAL MARKS		400

Total Credits: 26+24+20+16 = 86

Totals Marks: 650+600+500+400 = 2150