



JAIDEV EDUCATION SOCIETY'S
J D COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR
 Department of Electronics / Electronics & Telecommunication Engineering

"Rectifying Ideas, Amplifying Knowledge"

SESSION 2021-22

ANNEXURE-I

Proposed SCHEME FOR POSTGRADUATE COURSE IN M.TECH (ELECTRONICS ENGINEERING)

I SEMESTER

Sr. No	Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme					Credits
				L	T	P	CA	MSE	ESE	PR/OR	TOTAL	
1	PCC	EN1T001	Computational Methods	3	1	0	20	20	60	0	100	4
2	PCC	EN1T002	Embedded System Design	3	1	0	20	20	60	0	100	4
3	PCC	EN1T003	VLSI System Design	3	1	0	20	20	60	0	100	4
4	HSMC	EN1T004	Research Methodology	3	0	0	20	20	60	0	100	3
5	PEC	EN1E101	ELECTIVE-I	3	0	0	20	20	60	0	100	3
6	PEC	EN1E201	ELECTIVE-II	3	0	0	20	20	60	0	100	3
7	LC	EN1L001	Embedded System Design Lab	0	0	2	25	0	0	25	50	1
8	LC	EN1L002	VLSI System Design Lab	0	0	2	25	0	0	25	50	1
TOTAL				18	3	4	170	120	360	50	700	23

II SEMESTER

Sr. No	Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme					Credits
				L	T	P	CA	MSE	ESE	PR/OR	TOTAL	
1	PCC	EN2T001	Advanced DSP	3	1	0	20	20	60	0	100	4
2	PCC	EN2T002	Advanced Embedded System Design	3	1	0	20	20	60	0	100	4
3	PEC	EN2E301	Elective-III	3	0	0	20	20	60	0	100	3
4	PEC	EN2E401	Elective- IV	3	0	0	20	20	60	0	100	3
5	PEC	EN2O001	Elective-V- (Open to all)	3	0	0	20	20	60	0	100	3
6	LC	EN2L002	Advanced Embedded System Design	0	0	2	25	0	0	25	50	1
7	LC	EN2S001	Seminar-I	0	0	4	25	0	0	25	50	2
8	Project	EN2P001	Mini-Project/ Field Training	0	0	4	50	0	0	50	100	2
TOTAL				17	2	8	200	100	300	100	700	23

Chairman
 BOS (Electronic
 JDCEM, Nagpur)



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III SEMESTER

Sr. No	Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme					Credits
				L	T	P	CA	MSE	PR/O	ESE	TOTAL	
1	HSMC	EN3T001	Project Management #	2	0	0	50	0	0	50	100	2
2	HSMC	EN3T002	Intellectual Property Rights #	2	0	0	50	0	0	50	100	2
4	Project	EN3P001	Major Project Stage -I	0	0	0	50	0	50	0	100	10
TOTAL				4	0	0	100	0	100	50	300	14

IV SEMESTER

Sr. No	Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme					Credits
				L	T	P	CA	MSE	PR/OR	ESE	TOTAL	
1	Project	EN4P001	Major Project- Stage II	0	0	0	100	0	100	0	200	18
TOTAL				0	0	0	100	0	100	0	200	18
GRAND TOTAL											1900	

Student has to choose these courses either from NPTEL/ SWAYAM/MCOE pool and submission of course completion certificate is mandatory

Sr. No	Elective-I
1	Advanced Digital System Design & Architecture
2	Wearable Medical devices
3	Artificial neural networks and applications
4	Fault Tolerant Systems
5	Analog and Mixed Signal Processing
6	MIMO Systems

Sr. No	Elective-II
1	MEMS
2	Speech Processing
3	ASIC & SOC
4	RF and Millimeter Wave circuit Design
5	Electromagnetic Interference and Compatibility
6	Cognitive Radio

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Sr. No	Elective-III
1	Multirate Digital Signal Processing
2	Wireless Sensor Network Design
3	Statistical Signal Processing
4	Artificial Intelligence
5	Optical Fiber Communication
6	Smart Antennas

Sr. No	Elective-IV
1	Advanced Biomedical Signal Processing
2	Reconfigurable Computing
3	Radar Signal Processing
4	Electromagnetics, Antenna & Propagation
5	Numerical Methods in Electromagnetics
6	Hardware Implementation of AI

Sr. No	Elective-V (Open)
1	Internet of Things
2	Quantum computing
3	Neural Networks in Embedded Applications
4	Nanoscale Devices and Circuit Design
5	Wavelet Transforms and its Applications
6	Broadband communication


Prof. Neetu N. Gyanchandani
Chairman, BoS, ETC

Chairman
BOS (Electronics)
IDCOEM, Nagpur