

PG Courses**ECE****Semester-I****Microwave and Communication Engg.**

Course Code	Course Name	L-T-P-C	Offered By Discipline	Instructor	No. of Students
HS501(Core)	Professional and Communication Skill (HS501)*	1-0-2-2	NS	MA	180
EC651(Core)	Advanced Communication Engineering	3-0-0-4	ECE	MDB	12
EC533(Core)	Computational Electromagnetics	3-0-0-4	ECE	DKV	12
EC638(Core)	RF and Microwave Circuits Design	3-0-0-4	ECE	MSP	12
	Advance Digital Signal Processing	3-0-2-4	ECE	AK	12
EC638L	High Frequency Circuits Design (Attached with EC638)	0-0-2-2	ECE	MSP	12

Power and Control

HS501(Core)	Professional and Communication Skills	1-0-2-2	NS	MA	180
EC521(Core)	Special topics in Power and Control	3-0-0-4	ECE	PKP*+SKJ	12
EC522(Core)	Power Electronics and Drives	3-0-0-4	ECE	SKJ	12
MT612(Core)	PLC and Microcontroller	2-0-4-5	ME	TS+VKG	12
EC513	Advancetime Frequency analysis	3-0-0-4	ECE	VB	12
MT612L	Lab is attached to course MT612				12

Micro and Nenoelectronics

HS501(Core)	Professional and Communication Skills	1-0-2-2	NS	MA	180
EC541(Core)	Physics of Semiconductor Devices	3-0-2-5	ECE	PNK	12
EC544(Core)	Digital VLSI Design	3-1-0-4	ECE	DS	12
EC545(Core)	Device Fabrication Technology	3-1-0-4	ECE	DPS	12
EC545a	vlsi Device and Modeling	3-1-0-4	ECE	DPS	12
EC546L	Lab attached to EC541(Core)		ECE	DS	12

Semester-III

EC598	Graduate Seminar 1	2	ECE	GUIDE	12
EC699	Thesis Credit	16	ECE	GUIDE	12

CSE**Semester-I**

Course Code	Course Name	Credits:	Offered By Discipline	Instructor	No. of Students
HS501(Core)	Professional and Communication Skills	1-0-2-2	NS	MA	180
CS531(Core)	Mathematical Foundations of Computer Science	3-0-0-4	CSE	AO	25
CS532(Core)	Alogrithms	3-0-2-5	CSE	SKM	25

Choose any two subject from elective I, II (Maximum 8 Credit)

CS534	Research Methods in Computer Science	3-0-0-4	CSE	AG	25
EM602g	Introduction to Deep Learning	1-0-2-2	CSE	AO	25
	Soft Computing	1-0-2-2	CSE	KKB	25
	EMF Area- Image Processing	1	CSE	Prof. Masaki Nakagawa, Japan	25
	EMF Area- Image Processing	1	CSE	Prof. Hironobu Fujiyoshi, Japan	25
	EMF Area- Image Processing	1-0-2-2	CSE	PK	25
CS532L	Lab Attached with CS532(Core)			SKM	25

Semester-III

CS598	Graduate Seminar I	2	CSE	GUIDE	14
CS699	M.Tech Thesis	16	CSE	GUIDE	14

ME

**Semester-I
CAD/CAM**

Course Code	Course Name	L-T-P-C	Offered By Discipline	Instructor	No. of Students
HS501(Core)	Professional and Communication Skills	1-0-2-2	NS	MA	180
ME581(Core)	Analytical Methods in Engineering	3-0-0-4	ME	GD+SM	36
ME589(Core)	Research Methodology	2-0-0-3	ME	AM	36
ME601(Core)	Computer Aided Geometric Design	3-0-0-4	ME	PKJ	12
ME619	Supply Chain	3-0-0-4	ME	SPS	24
EM592h	Medical Equipment Design	1	DS	VF	36
ME590L	Geometric Modeling Lab (GML)	0-0-2-2	ME	PKJ	12

Design

Course Code	Course Name	L-T-P-C	Offered By Discipline	Instructor	No. of Students
HS501(Core)	Professional and Communication Skills	1-0-2-2	NS	MA	180
ME581(Core)	Analytical Methods in Engineering	3-0-0-4	ME	GD+SM	36
ME621(Core)	Advance Mechanics of Solids	3-0-0-4	ME	SDP	12
ME631(Core)	Mechanical Vibrations and Condition Monitoring	3-0-0-4	ME	PKK	12
ME589(Core)	Research Methodology	2-0-0-3	ME	AM	36
EM592h	Medical Equipment Design	1	DS	VF	36
ME592L	Design Lab I	0-0-3-2	ME	AKS	12

Manufacturing

Course Code	Course Name	L-T-P-C	Offered By Discipline	Instructor	No. of Students
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HS501(Core)	Professional and Communication Skills	1-0-2-2	NS	MA	180
ME581(Core)	Analytical Methods in Engineering	3-0-0-4	ME	GD+SM	36
ME541 (Core)	Manufacturing Science	3-0-0-4	ME	HS	12
ME589 (Core)	Research Methodology	2-0-0-3	ME	AM	12
ME619	Supply Chain	3-0-0-4	ME	SPS	12
EM592h	Medical Equipment Design	1	DS	VF	36
ME594L	Manufacturing Process Lab1	0-0-3-2	ME	HS	12
Semester-III					
ME598	Graduate Seminar I	2	ME	GUIDE	18
ME699	M.Tech Thesis	16	ME	GUIDE	18

Mechatronics					
Semester-I					
<u>Course Code</u>	<u>Course Name</u>	<u>L-T-P-C</u>	<u>Offered By Discipline</u>	<u>Instructor</u>	<u>No. of Students</u>
HS501(Core)	Professional and Communication Skills	1-0-2-2	NS	MA	180
ME581(Core)	Analytical Methods in Engineering	3-0-0-4	ME	GD+SM	15
MT501	Concepts in Mechanical Systems	3-0-0-4	MT	VKG+SM	15
MT503	Sensors and Actuators (Mechatronics course)	3-0-2-5	ME	SPS	15
MT612	PLC and Micro-Controllers (Mechatronics course)	3-0-2-5	ME	TS+VKG	15
Semester-III					
MT598	Graduate Seminar I	2	MT	GUIDE	11
MT699	M.Tech Thesis	16	MT	GUIDE	11

Natural Science (Physics+ Mathematics)					
<u>Course Code</u>	<u>Course Name</u>	<u>L-T-P-C</u>	<u>Offered By Discipline</u>	<u>Instructor</u>	<u>No. of Students</u>
PHY605	Quantum Mechanics	4-0-0-4	NS	ACM	10
PHY607	Condensed Matter Physics	3-0-0-4	NS	AKK	10
MTH603	Spectral Methods: Theory and its applications	3-0-0-4	NS	LKB	10
MTH631	Optimization Theory and Applications	3-0-0-4	NS	DM	10

Master of Design

Semester I

Course Code	Course Name	L-T-P-C	Offered By Discipline	Instructor	No. of Students
DS531	Elements and Principles of Design	2-0-2-4	DS	SC	30
DS532	Ergonomics for Industrial Design	2-0-2-4	DS	SP	30
DS533	Arts & Aesthetics in Design	2-0-2-4	DS	SC	30
DS541	Product Design-I (Compulsory)	2-0-2-4	DS	PT	30
DS559	Visual Design-I (Compulsory)	2-0-2-4	DS	TS	30
DS576	Design Workshop-I	0-0-3-4	DS	SP	30
HS501	Professional Communication Skills	2-0-0-2	NS	MA	180

Semester III

Course Code	Course Name	L-T-P-C	Offered By Discipline	Instructor	No. of Students
DS600	Design Project (Technically Complex project of System)	0-0-16-8	DS	GUIDE	25
	Choose any two				
DS534	Culture and Design (elective)	2-0-2-4	DS	VF	1
DS543	Product Detailing	2-0-2-4	DS	VF	2
DS557	Video and Animation Design (elective)	2-0-2-4	DS	VF	9
DS566	Applied Ergonomics (elective)	2-0-2-4	DS	PM	12
OR					
DS558	Visual Ergonomics (elective)	2-0-2-4	DS	PM	44
DS582	Sustainable Design (elective)	2-0-2-4	DS	VF	6
DS584	Design Styling and Trend Forecas	2-0-2-4	DS	VF	9
	RMF's (Any two of the following six EMF's)				
EM592h	Medical Equipment Design	1	DS	VF	12
EM592k	Product Design in Electronics	1	DS	VF	7
EM593h	Typography	1	DS	VF	12
EM593i	Photography	1	DS	VF	10
EM595c	Information Design	1	DS	TS	7
EM598c	Packaging and Branding	1	DS	SC	2
DS596	Summer Internship (Compulsory)	2	DS	NA	25
DS699	MDes Thesis (Compulsory)	4	DS	GUIDE	25