



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Cherukupally (Village), Near Tagarapuvalasa Bridge, Vizianagaram -531162.

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1.3.1 Institution integrates Crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in to Curriculum.

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DEPARTMENT OF BASIC SCIENCE AND HUMANITIES

CLASS TIME TABLE AY -2020-2021

CLASS:I BTECH ISEM

BRANCH: CSM

DAY	9:50 – 10:40	10:40- 11:30	11:30- 12:20	12:20- 1:10	1.10-1.50	1:50- 2:40	2.40-3.30	3.30- 4.20
MONDAY	PPS	ENG	AC	M-I	LUNCH BREAK	CWS LAB/ AC LAB		
TUESDAY	ENG	AC	M-I	M-I		PPS	PPS	ES
WEDNESDAY	ENG	PPS LAB				M-I	AC	SPORTS
THURSDAY	ENG	AC LAB / CWS LAB				M-I	PPS	AC
FRIDAY	AC	PPS	M-I	AC		ELCS LAB		
SATURDAY	PPS	AC	M-I	LIBRARY		PPS	MENTOR	ES

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Mr. G. Chinna rao	Asst.Prof	Mathamatics – I	BS&H
2	Mrs.N Santhoshi	Asst.Prof	English	BS&H
3	Mr. B Praveen Kumar	Asst.Prof	Applied Chemistry	BS&H
4	Mr. V.Murali Krishna	Asst.Prof	Programming For Problem Solving Using C	CSE
5	Mrs. CH. Sravanthi	Asst.Prof	Computer Eng Workshop	CSE
6	Mr. B Praveen Kumar	Asst.Prof	Applied Chemistry Lab	BS&H
7	Mrs.N Santhoshi	Asst.Prof	English Communication Skills Lab	BS&H
8	Mr. V.Murali Krishna	Asst.Prof	Programming For Problem Solving Using C Lab	CSE
9	Mrs.G.Sunitha Rani	Asst.Prof	Environment Science	BS&H


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Near Tagarapuvulasa

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DEPARTMENT OF BASIC SCIENCE AND HUMANITIES

CLASS TIME TABLE AY -2020-2021

CLASS:I BTECH ISEM

BRANCH: CSD

DAY	9:50 – 10:40	10:40- 11:30	11:30- 12:20	12:20- 1:10	1.10-1.50	1:50-2:40	2.40-3.30	3.30-4.20
MONDAY	PPS	M-I	AC	ENG	LUNCH BREAK	AC	M-I	PPS
TUESDAY	AC	M-I		ES		PPS	PPS	SPORTS
WEDNESDAY	PPS	AC LAB / CWS LAB				M-I	ENG	AC
THURSDAY	M-I	ENG	AC	PPS		ELCS LAB		
FRIDAY	ENG	AC	PPS	ES		CWS LAB/ AC LAB		
SATURDAY	AC	PPS LAB				M-I	MENTOR	LIBRARY

S.No.	Name of the Faculty	Designation	Subject Name	Department
1	- Mr. A. Seshu	Asst.Prof	Mathamatics – I	BS&H
2	-Mrs. R. Subha laxmi	Asst.Prof	English	BS&H
3	- Dr. K Sandhya Rani	Assoc. Prof	Applied Chemistry	BS&H
4	- Mr. Mehar prasad	Asst.Prof	Programming For Problem Solving Using C	CSE
5	Mrs. P. Mounika	Asst.Prof	Computer Eng Workshop	CSE
6	- Dr. K Sandhya Rani	Assoc.Prof	Applied Chemistry Lab	BS&H
7	Mrs. R. Subha laxmi	Asst.Prof	English Communication Skills Lab	BS&H
8	- Mr. Mehar prasad	Asst.Prof	Programming For Problem Solving Using C Lab	CSE
9	Mrs.G.Sunitha Rani	Asst.Prof	Environment Science	BS&H


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Near Thagarapuvalasa
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CLASS:I BTECH ISEM

BRANCH: MECH

DAY	9:50 – 10:40	10:40- 11:30	11:30- 12:20	12:20- 1:10	1.10-1.50	1:50- 2:40	2.40-3.30	3.30-4.20
MONDAY	M-I	ENG	EP	PPS	LUNCH BREAK	PPS LAB		
TUESDAY	PPS	ENG	EP	M-I		ED		
WEDNESDAY	EP	EP LAB / ELCS LAB				ES	M-I	M-I
THURSDAY	EP	ED				PPS	LIB	ES
FRIDAY	EP	ENG	M-I	MENTOR		PPS	PPS	SPORTS
SATURDAY	M-I	EP	ENG	PPS		EP LAB / ELCS LAB		

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Mrs. A. Pragna	Asst.Prof	Mathamatics – I	BS&H
2	Mrs. N. Santhoshi	Asst.Prof	English	BS&H
3	Mr. B. Gangadhar	Asst.Prof	Engineering Physics	BS&H
4	Mrs. V. Sarada	Asst.Prof	Programming For Problem Solving Using C	CSE
5	Mr. Suresh Panda	Asst.Prof	Eng. Drawing	MECH
6	Mr. B. Gangadhar	Asst.Prof	Engineering Physics Lab	BS&H
7	Mrs. N. Santhoshi	Asst.Prof	English Communication Skills Lab	BS&H
8	Mrs. V. Sarada	Asst.Prof	Programming For Problem Solving Using C Lab	CSE
9	Mrs.G.Sunitha Rani	Asst.Prof	Environment Science	BS&H

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CLASS TIME TABLE AY -2020-2021

CLASS: I BTECH ISEM

BRANCH: CSE-A

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MONDAY	PP	AC LAB/CRT			L	DS	M-II	ES
TUESDAY	CO	AC	DS	PP	U	DS LAB		
WED	M-II	AC	DS	LIB	N	CO		ES
THURSDAY	AC	PP	DS	M-II	C	DS	M-II	CO
FRIDAY	PP		DS	AC	H	AC LAB/CRT		
SATURDAY	M-II	PP LAB				CO	M-II	SPORTS

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Mrs. M. Indira	Assoc. Prof	Mathamatics – II	BS&H
2	Dr.K.Sandhya Rani	Assoc. Prof	Applied Chemistry	BS&H
3	Dr.A.Chandra Sekhar	Professor	Data Structure Through C	CSE
4	Mr.S.Kesav	Asst. Prof	Python Programming	CSE
5	Mrs.CH.Meera Madhuri	Asst. Prof	C-Organization	ECE
6	Dr.K.Sandhya Rani/ Mrs.T Satya supriya	Assoc. Prof	Applied Chemistry Lab	BS&H
7	Dr.A.Chandra Sekhar	Professor	Data Structurethrough C Lab	CSE
8	Mr.S.Kesav	Asst. Prof	Python Programming Lab	CSE
9	Dr.E.Ranjit	Assoc. Prof	CRT	BS&H
10	Mrs. G. Sunitha rani	Asst. Prof	Environment Science	BS&H

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CLASS TIME TABLE AY -2020-2021

CLASS:I BTECH IISEM

BRANCH: CSE-B

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MONDAY	CO		M-II	DS	L	ES	AC	SPORTS
TUESDAY	M-II	M-II	AC	LIB	U	PP	DS	
WED	PP	AC LAB/CRT			N	DS LAB		
THURSDAY	M-II		AC	DS	C	CO	ES	PP
FRIDAY	PP	AC LAB/CRT			H	DS	CO	M-II
SATURDAY	DS	AC	PP	CO		PP LAB		

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Mr. G.Chinnayya	Associative Professor	Mathamatics – II	BS&H
2	Mr.B.Praveenkumar	Asst.Professor	Applied Chemistry	BS&H
3	Mrs.SangithaMishra	Asst.Professor	Data Structure Through C	CSE
4	Mr.Dinesh Chandra	Asst.Professor	Python Programming	CSE
5	Mr.M.Vinay Kumar	Asst.Professor	C-Organization	ECE
6	Mr.B.Praveen kumar	Asst.Professor	Applied Chemistry Lab	BS&H
7	Mrs.Sangitha Mishra	Asst.Professor	Data Structurethrough C Lab	CSE
8	Mr.Dinesh Chandra	Asst.Professor	Python Programming Lab	CSE
9	Mrs. N.Santhosi	Asst.Professor	CRT	BS&H
10.	Mrs. G. Sunitha rani	Asst. Prof	Environment Sciernce	BS&H


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CLASS TIME TABLE A.Y. -2020-2021

CLASS:I BTECH IISEM

BRANCH: CSE-C

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MONDAY	PP	CO	DS	AC	L	DS LAB		
TUESDAY	CO	PP LAB			U	M-II	ES	SPORTS
WED	M-II	CO	AC	PP	N	AC LAB/CRT		
THURSDAY	DS	AC LAB/CRT			C	PP	CO	DS
FRIDAY	M-II	AC	PP	M-II	H	ES	DS	LIB
SATURDAY	PP	AC	M-II	DS		M-II	CO	DS

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Mr.G.Chinna Rao	Asst.Professor	Mathamatics – II	BS&H
2	Mrs.T.Satya Supriya	Asst.Professor	Applied Chemistry	BS&H
3	Mr.Surendra Kumar Choudary	Asst.Professor	Data Structure Through C	CSE
4	Mrs.Ch.Sravanthi	Asst.Professor	Python Programming	CSE
5	Mr.P. Santhosh Kumar	Asst.Professor	C-Organization	ECE
6	Mrs.T.Satya Supriya	Asst.Professor	Applied Chemistry Lab	BS&H
7	Mr.Surendra Kumar Choudary	Asst.Professor	Data Structurethrough C Lab	CSE
8	Mrs.Ch.Sravanthi	Asst.Professor	Python Programming Lab	CSE
9	Mrs. D. Sravya sree	Asst.Professor	CRT	BS&H
10	Mrs. G. Sunitha rani	Asst. Prof	Environment Science	BS&H


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DEPARTMENT OF BASIC SCIENCE AND HUMANITIES

CLASS TIME TABLE AY -2020-2021

CLASS:I BTECH IISEM

BRANCH: ECE-A

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MONDAY	M-II	AP/EWS LAB			L	BEE	OOPS	ES
TUESDAY	OOPS	NA	AP	M-II	U	BEE LAB		
WED	OOPS		NA	BEE	N	M II	AP	SPORTS
THURSDAY	NA	AP	CRT		C	M-II	OOPS	BEE
FRIDAY	BEE	M-II	NA	AP	H	LIB	ES	OOPS
SATURDAY	NA	AP	M-II	BEE		AP/EWS LAB		

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Mr.A. Seshu	Asst.Professor	Mathamatics – II	BS&H
2	Mr.JRG Patnaik	Asst.Professor	Applied Physics	BS&H
3	Mrs.S. Jhansi Rani	Asst.Professor	Network Analysis	
4	Mr.M.Venkatesh	Asst.Professor	Basic Electrical Engineering	EEE
5	Mrs. K. Hymavathi	Asst.Professor	Object Oriented Programming Through Java	CSE
6	Mr.M.Venkatesh	Asst.Professor	Basic Electrical Engineering Lab	EEE
7	Mr.B.Madhusudhan Rao	Asst.Professor	Electronic Workshop Lab	EEE
8	Mr.JRG Patnaik	Asst.Professor	Applied Physics Lab	BS&H
9	Dr.Swarupa Rani	Asst.Professor	CRT	BS&H
10	Mrs. G. Sunitha rani	Asst.Professor	Environment Studies	BS&H

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DEPARTMENT OF BASIC SCIENCE AND HUMANITIES

CLASS TIME TABLE AY -2020-2021

CLASS:I BTECH IISEM

BRANCH: ECE-B

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MONDAY	BEE	NA	M-II	AP	L	AP/EWS LAB		
TUESDAY	AP	NA	BEE	OOPS	U	M-II	ES	OOPS
WED	BEE	CRT		AP	N	OOPS	M-II	SPORTS
THURSDAY	AP/EWS LAB			NA	C	OOPS	BEE	AP
FRIDAY	AP	NA	M-II		H	BEE LAB		
SATURDAY	NA	BEE	LIB	M-II		OOPS		ES

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Mrs.A.Pragna	Asst.Professor	Mathamatics – II	BS&H
2	Mr. K.Dhanunjaya	Asst.Professor	Applied Physics	BS&H
3	Mr.B.Ganesh Kumar	Asst.Professor	Network Analysis	EEE
4	Mr.V.Sarath Kumar	Asst.Professor	Basic Electrical Engineering	EEE
5	Mr.G.Trinadha Rao	Asst.Professor	Object Oriented Programming Through Java	CSE
6	Mr. V.Sarath Kumar	Asst.Professor	Basic Electrical Engineering Lab	EEE
7	Mrs.U.Venkata Lakshmi	Asst.Professor	Electronic Workshop Lab	EEE
8	Mr. K.Dhanunjaya	Asst.Professor	Applied Physics Lab	BS&H
9	Dr.Swarupa Rani	Asst.Professor	CRT	BS&H
10	Mrs. G. Sunitha rani	Asst.Professor	Environment Studies	BS&H

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Avanthi Institute of Engineering and Technology

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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS: II BTECH I SEM

SECTION-A

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	VC&FT	MOS	PT	LUNCH	MMS	PT/MMS LAB		
TUE	TD	MOS	MMS		PT	E.S	TUTORIAL CLASSES	
WED	VC&FT	MOS	MMS		TD	E.S	MACHINE DRAWING	SPORTS
THU	VC&FT	TD	MMS		PT	PT/MMS LAB		
FRI	VC&FT	DASSAULT			PT	E.S	CRT	LIB
SAT	PT	MOS	TD		MOS	MACHINE DRAWING		

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	Joga Rao	Assistant Professor	Vector Calculus & Fourier Transforms	BS&H
2	K.Jaswanth	Assistant Professor	Mechanics of Solids	Mechanical
3	Srinu Kotha	Assistant Professor	Material Science & Metallurgy	Mechanical
4	V Varalakshmi	Assistant Professor	Production Technology	Mechanical
5	K.Sarika	Assistant Professor	Thermodynamics	Mechanical
6	K.Mohan Pradeep	Assistant Professor	Machine Drawing	Mechanical
7	G. Sunitha Rani	Assistant Professor	Environmental Science	BS&H
8	V Varalakshmi	Assistant	Production Technology	Mechanical



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		Professor	Lab	
9	Srinu Kotha	Assistant Professor	Metallurgy & Mechanics of Solids Lab	Mechanical
10	K.Srinu	Assistance Professor	Dassualt	Mechanical
11	K.Mohan Pradeep	Assistant Professor	Class incharges	Mechanical



HOD-MECH

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MECHANICAL DEPARTMENT
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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS:II BTECH ISEM

SECTION-B

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	MACHINE DRAWING			LUNCH	MOS	E.S	DASSUALT	
TUE	TD	VC&FT	PT		E.S	PT/MMS LAB		
WED	VC&FT	TD	PT		ES	DASSUALT		SPORTS
THU	MOS	ES	CRT		TD	MOS	TUTORIAL	
FRI	MOS	VC&FT	PT		VC&FT	PT/MMS LAB		
SAT	MOS	TD	TD		MACHINE DRAWING			LIB

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	Joga Rao	Assistant Professor	Vector Calculus & Fourier Transforms	BS&H
2	M.Venkatesh	Assistance Professor	Mechanics of Solids	Mechanical
3	J Jagadish	Associate Professor	Material Science & Metallurgy	Mechanical
4	Puli Suresh Kumar	Assistance Professor	Production Technology	Mechanical
5	Ganja Lavanya Lakshmi	Assistance Professor	Thermodynamics	Mechanical
6	T.Mahendra Rao	Assistance Professor	Machine Drawing	Mechanical
7	G. Sunitha Rani	Assistance Professor	Environmental Science	BS&H
8	Puli Suresh Kumar	Assistance Professor	Production Technology Lab	Mechanical



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9	J Jagadish	Associate Professor	Metallurgy & Mechanics of Solids Lab	Mechanical
10	T.Mahendra Rao	Assistance Professor	Dassualt	Mechanical
11	Puli Suresh Kumar	Assistance Professor	Class Incharge	Mechanical


HOD-MECH
MECHANICAL DEPARTMENT
AVANTHI INSTITUTE OF ENGG. & TECH
Bhogapuram (M), Vizianagaram (Dist.)


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AVANTHI INSTITUTE OF ENGG & TECH
Cherukupally (V), Chittivalasa (G.O)
Bhogapuram (M),
Vizianagaram (Dist.)-531162



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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS: II BTECH ISEM

SECTION-C

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	PT/MMS LAB			LUNCH	MOS	MACHINE DRAWING		
TUE	VC&FT	MOS	ES		VC&FT	MACHINE DRAWING		
WED	MOS		MMS		VC&FT	PT	MMS	LIB
THU	PT	ES	MMS		PT	TD	ES	MMS
FRI	TD	VC&FT	MOS		MMS	CRT	TUTORIAL	
SAT	PT/MMS LAB				MOS		MMS	SPORTS

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	Joga Rao	Assistant Professor	Vector Calculus & Fourier Transforms	BS&H
2	Dr. Raja Santosh	Professor	Mechanics of Solids	Mechanical
3	V. Mudedla Madhu	Associate Professor	Material Science & Metallurgy	Mechanical
4	Bhatia Aashima	Assistant Professor	Production Technology	Mechanical
5	Shiek Hidayatulla Shariff	Associate Professor	Thermodynamics	Mechanical
6	M.Raghava Rao	Associate Professor	Machine Drawing	Mechanical
7	Sunitha Rani	Associate Professor	Environmental Science	BS&H
8	Bhatia Aashima	Assistant Professor	Production Technology Lab	Mechanical



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9	V. Mudeda Madhu	Associate Professor	Metallurgy & Mechanics of Solids Lab	Mechanical
10	V. Mudeda Madhu	Associate Professor	Dassualt	Mechanical
11	Bhatia Aashima	Assistant Professor	Class Incharge	Mechanical

HOD-MECH

HOD

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

COURSE STRUCTURE AND SYLLABUS

For UG – R20

B. Tech - COMPUTER SCIENCE AND ENGINEERING with Specialization

Common to

- (i) **CSE (ARTIFICIAL INTELLIGENCE and MACHINE LEARNING)-Branch Code:42**
- (ii) **ARTIFICIAL INTELLIGENCE and MACHINE LEARNING - Branch Code: 61**

(Applicable for batches admitted from 2020-2021)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

KAKINADA - 533 003, Andhra Pradesh, India



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

COURSE STRUCTURE

I Year – I SEMESTER						
S. No	Course Code	Courses	L	T	P	Credits
1	HS1101	Communicative English	3	0	0	3
2	BS1101	Mathematics – I	3	0	0	3
3	BS1102	Applied Chemistry	3	0	0	3
4	ES1101	Programming for Problem Solving using C	3	0	0	3
5	ES1102	Computer Engineering Workshop	1	0	4	3
6	HS1102	English Communication Skills Laboratory	0	0	3	1.5
7	BS1103	Applied Chemistry Lab	0	0	3	1.5
8	ES1103	Programming for Problem Solving using C Lab	0	0	3	1.5
9	MC1101	Environmental Science*	2	0	0	0
Total Credits			19.5			

I Year – II SEMESTER						
S. No	Course Code	Courses	L	T	P	Credits
1	BS1201	Mathematics – II	3	0	0	3
2	BS1202	Applied Physics	3	0	0	3
3	ES1201	Digital Logic Design	3	0	0	3
4	ES1202	Python Programming	3	0	0	3
5	CS1201	Data Structures	3	0	0	3
6	BS1203	Applied Physics Lab	0	0	3	1.5
7	ES1203	Python Programming Lab	0	0	3	1.5
8	CS1202	Data Structures Lab	0	0	3	1.5
9	MC1201	Constitution of India *	2	0	0	0
Total Credits			19.5			

*Internal Evaluation



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DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

I Year - I Semester		L	T	P	C
		2	0	0	0
ENVIRONMENTAL SCIENCE (MC1101)					

Course Objectives:

The objectives of the course are to impart:

- Overall understanding of the natural resources.
- Basic understanding of the ecosystem and its diversity.
- Acquaintance on various environmental challenges induced due to unplanned anthropogenic activities.
- An understanding of the environmental impact of developmental activities.
- Awareness on the social issues, environmental legislation and global treaties.

UNIT I

Multidisciplinary nature of Environmental Studies: Definition, Scope and Importance – Sustainability: Stockholm and Rio Summit–Global Environmental Challenges: Global warming and climate change, acid rains, ozone layer depletion, population growth and explosion, effects. Role of information technology in environment and human health.

Ecosystems: Concept of an ecosystem. - Structure and function of an ecosystem; Producers, consumers and decomposers. - Energy flow in the ecosystem - Ecological succession. - Food chains, food webs and ecological pyramids; Introduction, types, characteristic features, structure and function of Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems.

UNIT II

Natural Resources: Natural resources and associated problems.

Forest resources: Use and over – exploitation, deforestation – Timber extraction – Mining, dams and other effects on forest and tribal people.

Water resources: Use and over utilization of surface and ground water – Floods, drought, conflicts over water, dams – benefits and problems.

Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources.

Food resources: World food problems, changes caused by non-agriculture activities-effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity.

Energy resources: Growing energy needs, renewable and non-renewable energy sources use of alternate energy sources.

Land resources: Land as a resource, land degradation, Wasteland reclamation, man induced landslides, soil erosion and desertification; Role of an individual in conservation of natural resources; Equitable use of resources for sustainable lifestyles.

UNIT III

Biodiversity and its conservation: Definition: genetic, species and ecosystem diversity-classification - Value of biodiversity: consumptive use, productive use, social-Biodiversity at national and local levels. India as a mega-diversity nation - Hot-spots of biodiversity - Threats to biodiversity: habitat loss, man-wildlife conflicts. - Endangered and endemic species of India – Conservation of biodiversity: conservation of biodiversity.



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KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

UNIT IV

Environmental Pollution: Definition, Cause, effects and control measures of Air pollution, Water pollution, Soil pollution, Noise pollution, Nuclear hazards. Role of an individual in prevention of pollution. - Pollution case studies, Sustainable Life Studies. Impact of Fire Crackers on Men and his well being.

Solid Waste Management: Sources, Classification, effects and control measures of urban and industrial solid wastes. Consumerism and waste products, Biomedical, Hazardous and e – waste management.

UNIT V

Social Issues and the Environment: Urban problems related to energy -Water conservation, rain water harvesting-Resettlement and rehabilitation of people; its problems and concerns. Environmental ethics: Issues and possible solutions. Environmental Protection Act -Air (Prevention and Control of Pollution) Act. –Water (Prevention and control of Pollution) Act - Wildlife Protection Act -Forest Conservation Act-Issues involved in enforcement of environmental legislation. -Public awareness.

Environmental Management: Impact Assessment and its significance various stages of EIA, preparation of EMP and EIS, Environmental audit. Ecotourism, Green Campus – Green business and Green politics.

The student should Visit an Industry / Ecosystem and submit a report individually on any issues related to Environmental Studies course and make a power point presentation.

Text Books:

- 1) Environmental Studies, K. V. S. G. Murali Krishna, VGS Publishers, Vijayawada
- 2) Environmental Studies, R. Rajagopalan, 2nd Edition, 2011, Oxford University Press.
- 3) Environmental Studies, P. N. Palanisamy, P. Manikandan, A. Geetha, and K. Manjula Rani; Pearson Education, Chennai

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE STRUCTURE AND SYLLABUS

For UG –R20

B. TECH - COMPUTER SCIENCE & ENGINEERING

(Applicable for batches admitted from 2020-2021)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

KAKINADA - 533 003, Andhra Pradesh, India



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE STRUCTURE

I Year – I SEMESTER

S. No	Course Code	Courses	L	T	P	Credits
1	HS	Communicative English	3	0	0	3
2	BS	Mathematics - I (Calculus And Differential Equations)	3	0	0	3
3	BS	Applied Physics	3	0	0	3
4	ES	Programming for Problem Solving using C	3	0	0	3
5	ES	Computer Engineering Workshop	1	0	4	3
6	HS	English Communication Skills Laboratory	0	0	3	1.5
7	BS	Applied Physics Lab	0	0	3	1.5
8	ES	Programming for Problem Solving using C Lab	0	0	3	1.5
Total Credits			19.5			

I Year – II SEMESTER

S. No	Course Code	Courses	L	T	P	Credits
1	BS	Mathematics – II (Linear Algebra And Numerical Methods)	3	0	0	3
2	BS	Applied Chemistry	3	0	0	3
3	ES	Computer Organization	3	0	0	3
4	ES	Python Programming	3	0	0	3
5	ES	Data Structures	3	0	0	3
6	BS	Applied Chemistry Lab	0	0	3	1.5
7	ES	Python Programming Lab	0	0	3	1.5
8	ES	Data Structures Lab	0	0	3	1.5
9	MC	Environment Science	2	0	0	0
Total Credits			19.5			



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

I Year – II Semester		L	T	P	C
		2	0	0	0
ENVIRONMENT SCIENCE					

Course Objectives:

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Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources.

Food resources: World food problems, changes caused by non-agriculture activities-effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity.

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KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

UNIT IV

Environmental Pollution: Definition, Cause, effects and control measures of Air pollution, Water pollution, Soil pollution, Noise pollution, Nuclear hazards. Role of an individual in prevention of pollution. - Pollution case studies, Sustainable Life Studies. Impact of Fire Crackers on Men and his well being.

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DEPARTMENT OF BASIC SCIENCE & HUMANATIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC1101	ENVIRONMENT SCIENCE	I-I Sem CSE-AI &ML	Mrs G Suneetha Rani Assistant Professor	55	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Multidisciplinary nature of Environmental Studies		
Week 1	L1	Multidisciplinary Nature of BS	Chalk / LCD	6-1-21
	L2	Stockholm Conference & Rio Summit	Chalk / LCD	7-1-21
Week 2	L3	Role of IT in Environment & Health	Chalk / LCD	20-1-21
	L4	Structure & Function of Ecosystem	Chalk / LCD	21-1-21
Week 3	L5	Characteristic Features of Forest & Grass Land Ecosystem	Chalk / LCD	27-1-21
	L6	Desert & Aquatic Ecosystem	Chalk / LCD	28-1-21
UNIT II		Natural Resources: Natural resources and associated problems.		
Week 4	L7	Natural Resources- Forest Resources	Chalk / LCD	3-2-21
	L8	Water Resources & Conflicts over Water	Chalk / LCD	4-2-21
Week 5	L9	Mineral Resources –Use and exploitation	Chalk / LCD	10-2-21
	L10	Food Resources –World Food Problems, Effects of Modern Agriculture.	Chalk / LCD	11-2-21
Week 6	L11	Energy Resources-Renewable & Non Renewable Energy Resources	Chalk / LCD	24-2-21
	L12	Land Resources- Land Slides, Soil Erosion, Waste Land reclamation.	Chalk / LCD	25-2-21
UNIT III		Biodiversity and its conservation		
Week 7	L13	Biodiversity- Values of Biodiversity	Chalk / LCD	25-2-21
	L14	India as a Mega Diversity Nation	Chalk / LCD	3-3-21
Week 8	L15	Threats to Biodiversity	Chalk / LCD	4-3-21
	L16	Man Wild Life Conflicts	Chalk / LCD	5-3-21
Week 9	L17	Endangered & Endemic Species of India	Chalk / LCD	11-3-21
	L18	Conservation of Biodiversity	Chalk / LCD	17-3-21
UNIT IV		Environmental Pollution		
Week 10	L19	Environmental Pollution –Air Pollution	Chalk / LCD	18-3-21
	L20	Causes, Effects, Control Measures of Water Pollution	Chalk / LCD	24-3-21
Week	L21	Causes, Effects, Control Measures of Soil Pollution	Chalk / LCD	25-3-21



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11	UNIT V	Social Issues and the Environment		
	L22	Urban problems related to energy	Chalk / LCD	31-3-21
Week	L23	Resettlement & Rehabilitation of people	Chalk / LCD	1-4-21
12	L24	Environmental Ethics	Chalk / LCD	7-4-21
Week	L25	Environmental Protection Act & Air Act	Chalk / LCD	8-4-21
13	L26	Environmental Impact Assessment	Chalk / LCD	14-4-21

Signature of the Faculty:

Signature of the HoD:

HOD - BS&H

Avanathi Institute of Engg.&Tech.
Cherukupalli (Vill), Bhogapuram (M)
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DEPARTMENT OF BASIC SCIENCE & HUMANATIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC1101	ENVIRONMENT SCIENCE	I -I Sem CSD	Mrs G Suneetha Rani	55	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Multidisciplinary nature of Environmental Studies		
Week 1	L1	Multidisciplinary Nature of ES	Chalk / LCD	8-1-21
	L2	Stockholm Conference & Rio Summit	Chalk / LCD	9-1-21
Week 2	L3	Role of IT in Environment & Health	Chalk / LCD	22-1-21
	L4	Structure & Function of Ecosystem	Chalk / LCD	23-1-21
Week 3	L5	Characteristic Features of Forest & Grass Land Ecosystem	Chalk / LCD	29-1-21
	L6	Desert & Aquatic Ecosystem	Chalk / LCD	30-1-21
UNIT II		Natural Resources: Natural resources and associated problems.		
Week 4	L7	Natural Resources- Forest Resources	Chalk / LCD	5-2-21
	L8	Water Resources & Conflicts over Water	Chalk / LCD	6-2-21
Week 5	L9	Mineral Resources –Use and exploitation	Chalk / LCD	12-2-21
	L10	Food Resources –World Food Problems, Effects of Modern Agriculture.	Chalk / LCD	13-2-21
Week 6	L11	Energy Resources-Renewable & Non Renewable Energy Resources	Chalk / LCD	26-2-21
	L12	Land Resources- Land Slides, Soil Erosion, Waste Land reclamation.	Chalk / LCD	27-2-21
UNIT III		Biodiversity and its conservation		
Week 7	L13	Biodiversity- Values of Biodiversity	Chalk / LCD	5-3-21
	L14	India as a Mega Diversity Nation	Chalk / LCD	6-3-21
Week 8	L15	Threats to Biodiversity	Chalk / LCD	12-3-21
	L16	Man Wild Life Conflicts	Chalk / LCD	13-3-21
Week 9	L17	Endangered & Endemic Species of India	Chalk / LCD	19-3-21
	L18	Conservation of Biodiversity	Chalk / LCD	20-3-21
UNIT IV		Environmental Pollution		
Week 10	L19	Environmental Pollution –Air Pollution	Chalk / LCD	26-3-21
	L20	Causes, Effects, Control Measures of Water Pollution	Chalk / LCD	27-3-21
Week 11	L21	Causes, Effects, Control Measures of Soil Pollution	Chalk / LCD	2-4-21



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	UNIT V	Social Issues and the Environment		
	L22	Urban problems related to energy	Chalk / LCD	3-4-21
Week 12	L23	Resettlement & Rehabilitation of people	Chalk / LCD	9-4-21
	L24	Environmental Ethics	Chalk / LCD	10-4-21
Week 13	L25	Environmental Protection Act & Air Act	Chalk / LCD	11-4-21
	L26	Environmental Impact Assessment	Chalk / LCD	17-4-21

Signature of the Faculty:

Signature of the HoD:

HOD - BS&H
Avanathi Institute of Engg.&Tech.
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Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC1101	ENVIRONMENT SCIENCE	I -I Sem Mech	Mrs G Suneetha Rani	76	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Multidisciplinary nature of Environmental Studies		
Week 1	L1	Multidisciplinary Nature of ES	Chalk / LCD	6-1-21
	L2	Stockholm Conference & Rio Summit	Chalk / LCD	7-1-21
Week 2	L3	Role of IT in Environment & Health	Chalk / LCD	20-1-21
	L4	Structure & Function of Ecosystem	Chalk / LCD	21-1-21
Week 3	L5	Characteristic Features of Forest & Grass Land Ecosystem	Chalk / LCD	27-1-21
	L6	Desert & Aquatic Ecosystem	Chalk / LCD	28-1-21
UNIT II		Natural Resources: Natural resources and associated problems.		
Week 4	L7	Natural Resources- Forest Resources	Chalk / LCD	3-2-21
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Week 5	L9	Mineral Resources –Use and exploitation	Chalk / LCD	10-2-21
	L10	Food Resources –World Food Problems, Effects of Modern Agriculture.	Chalk / LCD	11-2-21
Week 6	L11	Energy Resources-Renewable & Non Renewable Energy Resources	Chalk / LCD	24-2-21
	L12	Land Resources- Land Slides, Soil Erosion, Waste Land reclamation.	Chalk / LCD	25-2-21
UNIT III		Biodiversity and its conservation		
Week 7	L13	Biodiversity- Values of Biodiversity	Chalk / LCD	25-2-21
	L14	India as a Mega Diversity Nation	Chalk / LCD	3-3-21
Week 8	L15	Threats to Biodiversity	Chalk / LCD	4-3-21
	L16	Man Wild Life Conflicts	Chalk / LCD	5-3-21
Week 9	L17	Endangered & Endemic Species of India	Chalk / LCD	11-3-21
	L18	Conservation of Biodiversity	Chalk / LCD	17-3-21
UNIT IV		Environmental Pollution		
Week 10	L19	Environmental Pollution –Air Pollution	Chalk / LCD	18-3-21
	L20	Causes, Effects, Control Measures of Water Pollution	Chalk / LCD	24-3-21
Week 11	L21	Causes, Effects, Control Measures of Soil Pollution	Chalk / LCD	25-3-21
	UNIT V	Social Issues and the Environment		



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	L22	Urban problems related to energy	Chalk / LCD	31-3-21
Week 12	L23	Resettlement & Rehabilitation of people	Chalk / LCD	1-4-21
	L24	Environmental Ethics	Chalk / LCD	7-4-21
Week 13	L25	Environmental Protection Act & Air Act	Chalk / LCD	8-4-21
	L26	Environmental Impact Assessment	Chalk / LCD	14-4-21

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COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC1101	ENVIRONMENT SCIENCE	I –II Sem CSE-A	Mrs G Suneetha Rani Asst.Prof.	60	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Multidisciplinary nature of Environmental Studies		
Week 1	L1	Multidisciplinary Nature of ES	Chalk / LCD	24-5-21
	L2	Stockholm Conference & Rio Summit	Chalk / LCD	25-5-21
Week 2	L3	Role of IT in Environment & Health	Chalk / LCD	1-6-21
	L4	Structure & Function of Ecosystem	Chalk / LCD	2-6-21
Week 3	L5	Characteristic Features of Forest & Grass Land Ecosystem	Chalk / LCD	8-6-21
	L6	Desert & Aquatic Ecosystem	Chalk / LCD	9-6-21
UNIT II		Natural Resources: Natural resources and associated problems.		
Week 4	L7	Natural Resources- Forest Resources	Chalk / LCD	15-6-21
	L8	Water Resources & Conflicts over Water	Chalk / LCD	16-6-21
Week 5	L9	Mineral Resources –Use and exploitation	Chalk / LCD	22-6-21
	L10	Food Resources –World Food Problems, Effects of Modern Agriculture.	Chalk / LCD	23-6-21
Week 6	L11	Energy Resources-Renewable & Non Renewable Energy Resources	Chalk / LCD	29-6-21
	L12	Land Resources- Land Slides, Soil Erosion, Waste Land reclamation.	Chalk / LCD	30-6-21
UNIT III		Biodiversity and its conservation		
Week 7	L13	Biodiversity- Values of Biodiversity	Chalk / LCD	13-7-21
	L14	India as a Mega Diversity Nation	Chalk / LCD	14-7-21
Week 8	L15	Threats to Biodiversity	Chalk / LCD	20-7-21
	L16	Man Wild Life Conflicts	Chalk / LCD	21-7-21
Week 9	L17	Endangered & Endemic Species of India	Chalk / LCD	27-7-21
	L18	Conservation of Biodiversity	Chalk / LCD	28-7-21
UNIT IV		Environmental Pollution		
Week 10	L19	Environmental Pollution –Air Pollution	Chalk / LCD	2-8-21
	L20	Causes, Effects, Control Measures of Water Pollution	Chalk / LCD	3-8-21
Week	L21	Causes, Effects, Control Measures of Soil Pollution	Chalk / LCD	9-8-21



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11	UNIT V	Social Issues and the Environment		
	L22	Urban problems related to energy	Chalk / LCD	10-8-21
Week	L23	Resettlement & Rehabilitation of people	Chalk / LCD	16-8-21
12	L24	Environmental Ethics	Chalk / LCD	17-8-21
Week	L25	Environmental Protection Act & Air Act	Chalk / LCD	23-8-21
13	L26	Environmental Impact Assessment	Chalk / LCD	24-8-21

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					Lectures	Tutorials
MC1101	ENVIRONMENT SCIENCE	I-II Sem CSE-B	Mrs G Suneetha Rani	60	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Multidisciplinary nature of Environmental Studies		
Week 1	L1	Multidisciplinary Nature of ES	Chalk / LCD	26-5-21
	L2	Stockholm Conference & Rio Summit	Chalk / LCD	27-5-21
Week 2	L3	Role of IT in Environment & Health	Chalk / LCD	2-6-21
	L4	Structure & Function of Ecosystem	Chalk / LCD	3-6-21
Week 3	L5	Characteristic Features of Forest & Grass Land Ecosystem	Chalk / LCD	4-6-21
	L6	Desert & Aquatic Ecosystem	Chalk / LCD	5-6-21
UNIT II		Natural Resources: Natural resources and associated problems.		
Week 4	L7	Natural Resources- Forest Resources	Chalk / LCD	10-6-21
	L8	Water Resources & Conflicts over Water	Chalk / LCD	11-6-21
Week 5	L9	Mineral Resources –Use and exploitation	Chalk / LCD	17-6-21
	L10	Food Resources –World Food Problems, Effects of Modern Agriculture.	Chalk / LCD	18-6-21
Week 6	L11	Energy Resources-Renewable & Non Renewable Energy Resources	Chalk / LCD	24-6-21
	L12	Land Resources- Land Slides, Soil Erosion, Waste Land reclamation.	Chalk / LCD	25-6-21
UNIT III		Biodiversity and its conservation		
Week 7	L13	Biodiversity- Values of Biodiversity	Chalk / LCD	26-6-21
	L14	India as a Mega Diversity Nation	Chalk / LCD	2-7-21
Week 8	L15	Threats to Biodiversity	Chalk / LCD	3-7-21
	L16	Man Wild Life Conflicts	Chalk / LCD	9-7-21
Week 9	L17	Endangered & Endemic Species of India	Chalk / LCD	10-7-21
	L18	Conservation of Biodiversity	Chalk / LCD	23-7-21
UNIT IV		Environmental Pollution		
Week 10	L19	Environmental Pollution –Air Pollution	Chalk / LCD	24-7-21
	L20	Causes, Effects, Control Measures of Water Pollution	Chalk / LCD	30-7-21
Week	L21	Causes, Effects, Control Measures of Soil	Chalk / LCD	31-7-21



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11		Pollution		
	UNIT V	Social Issues and the Environment		
Week 12	L22	Urban problems related to energy	Chalk / LCD	2-8-21
	L23	Resettlement & Rehabilitation of people	Chalk / LCD	3-8-21
Week 13	L24	Environmental Ethics	Chalk / LCD	10-8-21
	L25	Environmental Protection Act & Air Act	Chalk / LCD	16-8-21
	L26	Environmental Impact Assessment	Chalk / LCD	20-8-21

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					Lectures	Tutorials
MC1101	ENVIRONMENT SCIENCE	I –II Sem CSE-C	Mrs G Suneetha Rani	60	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Multidisciplinary nature of Environmental Studies		
Week 1	L1	Multidisciplinary Nature of ES	Chalk / LCD	24-5-21
	L2	Stockholm Conference & Rio Summit	Chalk / LCD	25-5-21
Week 2	L3	Role of IT in Environment & Health	Chalk / LCD	1-6-21
	L4	Structure & Function of Ecosystem	Chalk / LCD	2-6-21
Week 3	L5	Characteristic Features of Forest & Grass Land Ecosystem	Chalk / LCD	8-6-21
	L6	Desert & Aquatic Ecosystem	Chalk / LCD	9-6-21
UNIT II		Natural Resources: Natural resources and associated problems.		
Week 4	L7	Natural Resources- Forest Resources	Chalk / LCD	15-6-21
	L8	Water Resources & Conflicts over Water	Chalk / LCD	16-6-21
Week 5	L9	Mineral Resources –Use and exploitation	Chalk / LCD	22-6-21
	L10	Food Resources –World Food Problems, Effects of Modern Agriculture.	Chalk / LCD	23-6-21
Week 6	L11	Energy Resources-Renewable & Non Renewable Energy Resources	Chalk / LCD	29-6-21
	L12	Land Resources- Land Slides, Soil Erosion, Waste Land reclamation.	Chalk / LCD	30-6-21
UNIT III		Biodiversity and its conservation		
Week 7	L13	Biodiversity- Values of Biodiversity	Chalk / LCD	13-7-21
	L14	India as a Mega Diversity Nation	Chalk / LCD	14-7-21
Week 8	L15	Threats to Biodiversity	Chalk / LCD	20-7-21
	L16	Man Wild Life Conflicts	Chalk / LCD	21-7-21
Week 9	L17	Endangered & Endemic Species of India	Chalk / LCD	27-7-21
	L18	Conservation of Biodiversity	Chalk / LCD	28-7-21
UNIT IV		Environmental Pollution		
Week 10	L19	Environmental Pollution –Air Pollution	Chalk / LCD	2-8-21
	L20	Causes, Effects, Control Measures of Water Pollution	Chalk / LCD	3-8-21



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Week 11	L21	Causes, Effects, Control Measures of Soil Pollution	Chalk / LCD	9-8-21
	UNIT V	Social Issues and the Environment		
	L22	Urban problems related to energy	Chalk / LCD	10-8-21
Week 12	L23	Resettlement & Rehabilitation of people	Chalk / LCD	16-8-21
	L24	Environmental Ethics	Chalk / LCD	17-8-21
Week 13	L25	Environmental Protection Act & Air Act	Chalk / LCD	23-8-21
	L26	Environmental Impact Assessment	Chalk / LCD	24-8-21

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					Lectures	Tutorials
MC1101	ENVIRONMENT SCIENCE	I -II Sem ECE-A	Mrs G Suneetha Rani	56	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Multidisciplinary nature of Environmental Studies		
Week 1	L1	Multidisciplinary Nature of ES	Chalk / LCD	24-5-21
	L2	Stockholm Conference & Rio Summit	Chalk / LCD	25-5-21
Week 2	L3	Role of IT in Environment & Health	Chalk / LCD	1-6-21
	L4	Structure & Function of Ecosystem	Chalk / LCD	2-6-21
Week 3	L5	Characteristic Features of Forest & Grass Land Ecosystem	Chalk / LCD	8-6-21
	L6	Desert & Aquatic Ecosystem	Chalk / LCD	9-6-21
UNIT II		Natural Resources: Natural resources and associated problems.		
Week 4	L7	Natural Resources- Forest Resources	Chalk / LCD	15-6-21
	L8	Water Resources & Conflicts over Water	Chalk / LCD	16-6-21
Week 5	L9	Mineral Resources –Use and exploitation	Chalk / LCD	22-6-21
	L10	Food Resources –World Food Problems, Effects of Modern Agriculture.	Chalk / LCD	23-6-21
Week 6	L11	Energy Resources-Renewable & Non Renewable Energy Resources	Chalk / LCD	29-6-21
	L12	Land Resources- Land Slides, Soil Erosion, Waste Land reclamation.	Chalk / LCD	30-6-21
UNIT III		Biodiversity and its conservation		
Week 7	L13	Biodiversity- Values of Biodiversity	Chalk / LCD	13-7-21
	L14	India as a Mega Diversity Nation	Chalk / LCD	14-7-21
Week 8	L15	Threats to Biodiversity	Chalk / LCD	20-7-21
	L16	Man Wild Life Conflicts	Chalk / LCD	21-7-21
Week 9	L17	Endangered & Endemic Species of India	Chalk / LCD	27-7-21
	L18	Conservation of Biodiversity	Chalk / LCD	28-7-21
UNIT IV		Environmental Pollution		
Week 10	L19	Environmental Pollution –Air Pollution	Chalk / LCD	2-8-21
	L20	Causes, Effects, Control Measures of Water Pollution	Chalk / LCD	3-8-21
Week	L21	Causes, Effects, Control Measures of Soil	Chalk / LCD	9-8-21



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11		Pollution		
	UNIT V	Social Issues and the Environment		
Week 12	L22	Urban problems related to energy	Chalk / LCD	10-8-21
	L23	Resettlement & Rehabilitation of people	Chalk / LCD	16-8-21
Week 13	L24	Environmental Ethics	Chalk / LCD	17-8-21
	L25	Environmental Protection Act & Air Act	Chalk / LCD	23-8-21
	L26	Environmental Impact Assessment	Chalk / LCD	24-8-21

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					Lectures	Tutorials
MC1101	ENVIRONMENT SCIENCE	I -II Sem ECE-B	Mrs G Suneetha Rani	55	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Multidisciplinary nature of Environmental Studies		
Week 1	L1	Multidisciplinary Nature of ES	Chalk / LCD	26-5-21
	L2	Stockholm Conference & Rio Summit	Chalk / LCD	27-5-21
Week 2	L3	Role of IT in Environment & Health	Chalk / LCD	2-6-21
	L4	Structure & Function of Ecosystem	Chalk / LCD	3-6-21
Week 3	L5	Characteristic Features of Forest & Grass Land Ecosystem	Chalk / LCD	4-6-21
	L6	Desert & Aquatic Ecosystem	Chalk / LCD	5-6-21
UNIT II		Natural Resources: Natural resources and associated problems.		
Week 4	L7	Natural Resources- Forest Resources	Chalk / LCD	10-6-21
	L8	Water Resources & Conflicts over Water	Chalk / LCD	11-6-21
Week 5	L9	Mineral Resources –Use and exploitation	Chalk / LCD	17-6-21
	L10	Food Resources –World Food Problems, Effects of Modern Agriculture.	Chalk / LCD	18-6-21
Week 6	L11	Energy Resources-Renewable & Non Renewable Energy Resources	Chalk / LCD	24-6-21
	L12	Land Resources- Land Slides, Soil Erosion, Waste Land reclamation.	Chalk / LCD	25-6-21
UNIT III		Biodiversity and its conservation		
Week 7	L13	Biodiversity- Values of Biodiversity	Chalk / LCD	26-6-21
	L14	India as a Mega Diversity Nation	Chalk / LCD	2-7-21
Week 8	L15	Threats to Biodiversity	Chalk / LCD	3-7-21
	L16	Man Wild Life Conflicts	Chalk / LCD	9-7-21
Week 9	L17	Endangered & Endemic Species of India	Chalk / LCD	10-7-21
	L18	Conservation of Biodiversity	Chalk / LCD	23-7-21
UNIT IV		Environmental Pollution		
Week 10	L19	Environmental Pollution –Air Pollution	Chalk / LCD	24-7-21
	L20	Causes, Effects, Control Measures of Water Pollution	Chalk / LCD	30-7-21



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Week 11	L21	Causes, Effects, Control Measures of Soil Pollution	Chalk / LCD	31-7-21
	UNIT V	Social Issues and the Environment		
	L22	Urban problems related to energy	Chalk / LCD	2-8-21
Week 12	L23	Resettlement & Rehabilitation of people	Chalk / LCD	3-8-21
	L24	Environmental Ethics	Chalk / LCD	10-8-21
Week 13	L25	Environmental Protection Act & Air Act	Chalk / LCD	16-8-21
	L26	Environmental Impact Assessment	Chalk / LCD	20-8-21

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					Lectures	Tutorials
MC	ENVIRONMENT SCIENCE	II -I Sem Mech-A	Mrs G Suneetha Rani Assistant Professor		26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Multidisciplinary nature of Environmental Studies		
Week 1	L1	Multidisciplinary Nature of ES	Chalk / LCD	2-11-2020
	L2	Stockholm Conference & Rio Summit	Chalk / LCD	4-11-2020
Week 2	L3	Role of IT in Environment & Health	Chalk / LCD	9-11-2020
	L4	Structure & Function of Ecosystem	Chalk / LCD	11-11-2020
Week 3	L5	Characteristic Features of Forest & Grass Land Ecosystem	Chalk / LCD	16-11-2020
	L6	Desert & Aquatic Ecosystem	Chalk / LCD	18-11-2020
UNIT II		Natural Resources: Natural resources and associated problems.		
Week 4	L7	Natural Resources- Forest Resources	Chalk / LCD	23-11-2020
	L8	Water Resources & Conflicts over Water	Chalk / LCD	25-11-2020
Week 5	L9	Mineral Resources –Use and exploitation	Chalk / LCD	30-11-2020
	L10	Food Resources –World Food Problems, Effects of Modern Agriculture.	Chalk / LCD	2-12-2020
Week 6	L11	Energy Resources-Renewable & Non Renewable Energy Resources	Chalk / LCD	7-12-2020
	L12	Land Resources- Land Slides, Soil Erosion, Waste Land reclamation.	Chalk / LCD	9-12-2020
UNIT III		Biodiversity and its conservation		
Week 7	L13	Biodiversity- Values of Biodiversity	Chalk / LCD	14-12-2020
	L14	India as a Mega Diversity Nation	Chalk / LCD	16-12-2020
Week 8	L15	Threats to Biodiversity	Chalk / LCD	21-12-2020
	L16	Man Wild Life Conflicts	Chalk / LCD	23-12-2020
Week 9	L17	Endangered & Endemic Species of India	Chalk / LCD	28-12-2020
	L18	Conservation of Biodiversity	Chalk / LCD	30-12-2020
UNIT IV		Environmental Pollution		
Week 10	L19	Environmental Pollution –Air Pollution	Chalk / LCD	4-1-2021
	L20	Causes, Effects, Control Measures of Water Pollution	Chalk / LCD	6-1-2021



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Week 11	L21	Causes, Effects, Control Measures of Soil Pollution	Chalk / LCD	11-1-2021
	UNIT V	Social Issues and the Environment		
	L22	Urban problems related to energy	Chalk / LCD	18-1-2021
Week 12	L23	Resettlement & Rehabilitation of people	Chalk / LCD	20-1-2021
	L24	Environmental Ethics	Chalk / LCD	3-2-2021
Week 13	L25	Environmental Protection Act & Air Act	Chalk / LCD	10-2-2021
	L26	Environmental Impact Assessment	Chalk / LCD	17-2-2021

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					Lectures	Tutorials
MC	ENVIRONMENT SCIENCE	II-I Sem Mech-B	Mrs G Suneetha Rani		26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Multidisciplinary nature of Environmental Studies		
Week 1	L1	Multidisciplinary Nature of ES	Chalk / LCD	2-11-2020
	L2	Stockholm Conference & Rio Summit	Chalk / LCD	4-11-2020
Week 2	L3	Role of IT in Environment & Health	Chalk / LCD	9-11-2020
	L4	Structure & Function of Ecosystem	Chalk / LCD	11-11-2020
Week 3	L5	Characteristic Features of Forest & Grass Land Ecosystem	Chalk / LCD	16-11-2020
	L6	Desert & Aquatic Ecosystem	Chalk / LCD	18-11-2020
UNIT II		Natural Resources: Natural resources and associated problems.		
Week 4	L7	Natural Resources- Forest Resources	Chalk / LCD	23-11-2020
	L8	Water Resources & Conflicts over Water	Chalk / LCD	25-11-2020
Week 5	L9	Mineral Resources –Use and exploitation	Chalk / LCD	30-11-2020
	L10	Food Resources –World Food Problems, Effects of Modern Agriculture.	Chalk / LCD	2-12-2020
Week 6	L11	Energy Resources-Renewable & Non Renewable Energy Resources	Chalk / LCD	7-12-2020
	L12	Land Resources- Land Slides, Soil Erosion, Waste Land reclamation.	Chalk / LCD	9-12-2020
UNIT III		Biodiversity and its conservation		
Week 7	L13	Biodiversity- Values of Biodiversity	Chalk / LCD	14-12-2020
	L14	India as a Mega Diversity Nation	Chalk / LCD	16-12-2020
Week 8	L15	Threats to Biodiversity	Chalk / LCD	21-12-2020
	L16	Man Wild Life Conflicts	Chalk / LCD	23-12-2020
Week 9	L17	Endangered & Endemic Species of India	Chalk / LCD	28-12-2020
	L18	Conservation of Biodiversity	Chalk / LCD	30-12-2020
UNIT IV		Environmental Pollution		
Week 10	L19	Environmental Pollution –Air Pollution	Chalk / LCD	4-1-2021
	L20	Causes, Effects, Control Measures of Water Pollution	Chalk / LCD	6-1-2021
Week 11	L21	Causes, Effects, Control Measures of Soil Pollution	Chalk / LCD	11-1-2021



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	UNIT V	Social Issues and the Environment		
	L22	Urban problems related to energy	Chalk / LCD	18-1-2021
Week 12	L23	Resettlement & Rehabilitation of people	Chalk / LCD	20-1-2021
	L24	Environmental Ethics	Chalk / LCD	3-2-2021
Week 13	L25	Environmental Protection Act & Air Act	Chalk / LCD	10-2-2021
	L26	Environmental Impact Assessment	Chalk / LCD	17-2-2021


Signature of the Faculty:


Signature of the HoD:

HOD - BS&H
Avanathi Institute of Engg. & Tech.
Cherukupalli (Vill), Bhogapuram (M)
Near Thagarapuvalasa
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DEPARTMENT OF BASIC SCIENCE & HUMANATIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	ENVIRONMENT SCIENCE	II -I Sem Mech-c	Mrs G Suneetha Rani		26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Multidisciplinary nature of Environmental Studies		
Week 1	L1	Multidisciplinary Nature of ES	Chalk / LCD	3-11-2020
	L2	Stockholm Conference & Rio Summit	Chalk / LCD	4-11-2020
Week 2	L3	Role of IT in Environment & Health	Chalk / LCD	9-11-2020
	L4	Structure & Function of Ecosystem	Chalk / LCD	12-11-2020
Week 3	L5	Characteristic Features of Forest & Grass Land Ecosystem	Chalk / LCD	16-11-2020
	L6	Desert & Aquatic Ecosystem	Chalk / LCD	18-11-2020
UNIT II		Natural Resources: Natural resources and associated problems.		
Week 4	L7	Natural Resources- Forest Resources	Chalk / LCD	23-11-2020
	L8	Water Resources & Conflicts over Water	Chalk / LCD	25-11-2020
Week 5	L9	Mineral Resources –Use and exploitation	Chalk / LCD	30-11-2020
	L10	Food Resources –World Food Problems, Effects of Modern Agriculture.	Chalk / LCD	31-11-2020
Week 6	L11	Energy Resources-Renewable & Non Renewable Energy Resources	Chalk / LCD	5-1-2021
	L12	Land Resources- Land Slides, Soil Erosion, Waste Land reclamation.	Chalk / LCD	7-1-2021
UNIT III		Biodiversity and its conservation		
Week 7	L13	Biodiversity- Values of Biodiversity	Chalk / LCD	19-1-2021
	L14	India as a Mega Diversity Nation	Chalk / LCD	21-1-2021
Week 8	L15	Threats to Biodiversity	Chalk / LCD	23-1-2021
	L16	Man Wild Life Conflicts	Chalk / LCD	25-1-2021
Week 9	L17	Endangered & Endemic Species of India	Chalk / LCD	28-1-2021
	L18	Conservation of Biodiversity	Chalk / LCD	3-2-2021
UNIT IV		Environmental Pollution		
Week 10	L19	Environmental Pollution –Air Pollution	Chalk / LCD	4-2-2021
	L20	Causes, Effects, Control Measures of Water Pollution	Chalk / LCD	5-2-2021
Week	L21	Causes, Effects, Control Measures of Soil	Chalk / LCD	8-2-2021



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11		Pollution		
	UNIT V	Social Issues and the Environment		
Week 12	L22	Urban problems related to energy	Chalk / LCD	11-2-2021
	L23	Resettlement & Rehabilitation of people	Chalk / LCD	11-2-2021
Week 13	L24	Environmental Ethics	Chalk / LCD	18-2-2021
	L25	Environmental Protection Act & Air Act	Chalk / LCD	18-2-2021
	L26	Environmental Impact Assessment	Chalk / LCD	19-2-2021

Signature of the Faculty:

Signature of the HoD:

HOD - BS&H
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DEPARTMENT OF BASIC SCIENCE AND HUMANITIES

CLASS TIME TABLE AY -2020-2021

CLASS:I BTECH IISEM

BRANCH: CSM

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MONDAY	AP	DS	DLD	M-II	L	PP LAB		
TUESDAY	DS	M-II	DS	PP	U	M-II	CI	DLD
WED	DLD		PP	DS	N	AP LAB/CRT		
THURSDAY	PP	M-II		AP	C	LIB	AP	SPORTS
FRIDAY	AP LAB/CRT			PP	H	DLD	PP	CI
SATURDAY	M-II	DS	AP	DS		DS LAB		

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Mrs.M.Indira	Assoc.Professor	Mathematics-II	BS&H
2	Mr.DharmaRaju	Asst.Professor	Python Programming	CSE
3	Dr.R.Swapna	Asst.Professor	Applied Physics	BS&H
4	Mr.H.Devaraj	Asst.Professor	Data Structure Through C	CSE
5	Mr.V.Suresh	Asst.Professor	Digital Logic Design	ECE
6	Dr.R.Swapna	Asst.Professor	Applied Physics Lab	BS&H
7	Mr.Dharma	Asst.Professor	Python Programming Lab	CSE
8	Mr.H.Devaraj	Asst.Professor	Data Structure Through C Lab	CSE
9	Mrs. R. Hema latha	Asst.Professor	CRT	BS&H
10	Mrs. N. Santhosi	Asst.Professor	Constitution of India	BS&H

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DEPARTMENT OF BASIC SCIENCE AND HUMAN ITIES

CLASS TIME TABLE AY -2020-2021

CLASS:I BTECH IISEM

BRANCH: CSD

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MONDAY	DS	PP LAB			L	AP	DLD	M-II
TUESDAY	PP	DLD		DS	U	AP LAB/CRT		
WED	DS	DS	AP	M-II	N	PP	CI	SPORTS
THURSDAY	M-II	M-II	PP	DS	C	DS LAB		
FRIDAY	DLD	AP	PP	LIB	H	AP	DLD	M-II
SATURDAY	PP	AP LAB/CRT				DS	M-II	CI

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Mr.G.Chinna Rao	Asst.Professor	Mathamatics – II	BS&H
2	Mr.A.Vasudeva Rao	Asst.Professor	Python Programming	CSE
3	Mr.K.Dhanunjaya	Asst.Professor	Applied Physics	BS&H
4	Mrs.M.Sakitha Sri	Asst.Professor	Data Structure Through C	CSE
5	Mrs.B.Sunitha	Asst.Professor	Digital Logic Design	ECE
6	Mr.K.Dhanunjaya	Asst.Professor	Applied Physics Lab	BS&H
7	Mr.A.Vasudeva Rao	Asst.Professor	Python Programming Lab	CSE
8	Mrs.M.Sakitha Sri	Asst.Professor	Data Structure Through C Lab	CSE
9	Mrs.R.Subha Laxmi	Asst.Professor	CRT	BS&H
10	Dr. E.Ranjit Kumar	Asst.Professor	Constitution of india	BS&H


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DEPARTMENT OF BASIC SCIENCE AND HUMANITIES

CLASS TIME TABLE AY -2020-2021

CLASS:I BTECH IISEM

BRANCH: EEE

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MONDAY	M-III	BC&ME	DS	AP	L	CI		ECA-I
TUESDAY	AP LAB			DS	U	BC&ME	ECA-I	M-III
WED	DS	AP		M-III	N	ECA-I	BC&ME	SPORTS
THURSDAY	AP	BC&ME	DS	M-III	C	DS LAB		
FRIDAY	ECA-I	DS	BC&ME	ECA-I	H	M-III	DS	LIB
SATURDAY	AP	M-III	BC&ME	AP		BC&ME LAB		

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Mr.G.Chinnayya	Asst.Professor	Mathamatics – III	BS&H
2	Dr.R.Swapna	Assoc.Professor	Applied Physics	BS&H
3	/Mr.V.Pradeep	Asst.Professor	Basic Civil & Mechanical Engineering	CIVIL & MECH
4	Mr. M.venkatesh	Asst.Professor	Electrical Circuit Analysis - I	EEE
5	Mrs.G.Kanaka Mahalakshmi	Asst.Professor	Data Structure Through C	CSE
6	Dr.R.Swapna	Assoc.Professor	Applied Physics Lab	BS&H
7	Mrs.G.Kanaka Mahalakshmi	Asst.Professor	Data Structure Through C Lab	CSE
8	/Mr.V.Pradeep	Asst.Professor	Basic Civil & Mechanical Engineering Lab	CIVIL & MECH
9	Mrs.N.Santhoshi	Asst.Professor	Constitution of india	BS&H


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DEPARTMENT OF BASIC SCIENCE AND HUMANITIES

CLASS TIME TABLE AY -2020-2021

CLASS: I BTECH IISEM

BRANCH: MECH

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MONDAY	EM	M-II	TD	BEEE	L	CI		BEEE
TUESDAY	M-II	TD	EM	EC	U	EC LAB		
WED	M-II	BEEE	EC	TD	N	EM	EC	LIB
THURSDAY	EM	WP LAB			C	M-II		TD
FRIDAY	EC	BEEE	EM		H	BEEE LAB		
SATURDAY	BEEE	M-II	EC	EC		TD		SPORTS

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Mrs.A.Pragna	Asst.Professor	Mathamatics – II	BS&H
2	Dr.K.Sandhya Rani	Assoc.Professor	Engineering Chemistry	BS&H
3	Mrs. T. Mahendra	Asst.Professor	Engineering Mechanics	MECH
4	Mr.V.Sudhakar	Asst.Professor	Basic Electrical & Electronics Engineering	EEE
5	Mr.G.Ramanjaneyulu	Asst.Professor	Thermodynamics	MECH
6	Mr.B. PraveenKumar	Asst.Professor	Engineering Chemistry Lab	BS&H
7	Mr.M.Venkatesh	Asst.Professor	Basic Electrical & Electronics Engineering	EEE
8	Mr.G.Ramu	Asst.Professor	Workshop Practice Lab	MECH
10	Mrs. D. Sravya Sri	Asst.Professor	Constitution of india	BS&H


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS TIME TABLE AY: 2020-21

CLASS:II B.Tech-I SEM

SEC-A

w.e.f: 02-11-2020

Class Incharge : Mr M.Ramesh								
DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MON	RVSP	STLD	SS	LUNCH	EDC	MEFA	JAVA	SPORTS
TUE	STLD	MEFA	EDC		CRT	EDC/STLD Lab		
WED	MEFA	SS			STLD	RVSP	EDC	Library
THU	JAVA		MEFA		STLD	Tutorial Classes		
FRI	EDC	RVSP	SS		STLD	STLD/EDC Lab		
SAT	SS	MEFA	CRT		CI	JAVA	RVSP	STLD

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT/LAB	DEPARTMENT
1	Mrs Ch.Vijaya Lakshmi	Asst. Prof.	Electronic Devices and Circuits	ECE
2	Ms K.Swetha	Asst. Prof.	Random Variables and Stochastic Processes	ECE
3	Mr P.Shyam Kumar	Asst. Prof.	Signals and Systems	ECE
4	Mr M.Ramesh	Asst. Prof.	Switching Theory and Logic Design	ECE
5	Ms M.Dimple	Asst. Prof.	Managerial Economics and Financial Analysis	MBA
6	Mr H.Deva Raju	Asst. Prof.	OOPS through JAVA	CSE
7	Mr S.Suman Dutta	Asst. Prof.	Constitution of INDIA	MBA
8	Mr M.Rupu Sundhar	Asst. Prof.	CRT	MBA



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9	Mr M.Ramesh/ Mr S.Daya Sagar	Asst. Prof.	Switching Theory and Logic Design Lab	ECE
10	Mrs Ch.Vijaya Lakshmi/ Mrs B.T.R. Prasuna	Asst. Prof.	Electronic Devices and Circuits Lab	ECE

HOD-ECE

Head of the Department,
Electronics and Communication Engineering
Avanthi Institute of Engg. & Technology
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS TIME TABLE AY: 2020-21

CLASS:II B.Tech-ISEM

SEC-B

w.e.f: 02-11-2020

Class Incharge: Mrs P.Prabavathi								
DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MON	MEFA	STLD	RVSP	LUNCH	SS	MEFA	EDC	SS
TUE	SS	RVSP	EDC		MEFA	CRT	MEFA	RVSP
WED	STLD	RVSP	MEFA		EDC	STLD/EDC Lab		
THU	EDC/STLD Lab				EDC	CI	CI	Library
FRI	RVSP	MEFA	EDC		STLD	CRT	STLD	SPORTS
SAT	JAVA	JAVA	EDC		STLD	Tutorial Classes		

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT/LAB	DEPARTMENT
1	Ms P.Prabavathi	Asst Prof	Electronic Devices and Circuits	ECE
2	Mrs Ch.Meera Madhuri	Asst Prof	Random Variables and Stochastic Processes	ECE
3	Mr R.Shiva	Asst Prof	Signals and Systems	ECE
4	Mr R.Shiva	Asst Prof	Switching Theory and Logic Design	ECE
5	Ms M.Anusha Kumari	Asst Prof	Managerial Economics and Financial Analysis	MBA
6	Ms E.Ramya Sree	Asst Prof	OOPS through JAVA	CSE



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7	Mr S.Suman Dutta	Asst Prof	Constitution of INDIA	MBA
8	Mr M.Rupu SUndhar	Asst Prof	CRT	MBA
9	Mr R.Shiva/ Mr P.Shyam Kumar	Asst Prof	Switching Theory and Logic Design Lab	ECE
10	Ms P.Prabavathi/ Ms K.Swetha	Asst Prof	Electronic Devices and Circuits Lab	ECE

HOD-ECE

Head of the Department,
Electronics and Communication Engineering
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KAKINADA-533003, Andhra Pradesh, India
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE STRUCTURE AND SYLLABUS

For

B.TECH – ELECTRICAL AND ELECTRONICS ENGINEERING

(Applicable for batches admitted from 2020-2021)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

KAKINADA-533003, Andhra Pradesh, India



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA-533003, Andhra Pradesh, India
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

I B.Tech – I SEMESTER

Sl. No	Course Components	Subjects	L	T	P	Credits
1	HSMC	Communicative English	3	0	0	3
2	BSC	Mathematics-I (Calculus and Differential Equations)	3	0	0	3
3	BSC	Mathematics-II (Linear Algebra and Numerical Methods)	3	0	0	3
4	ESC	Programming for Problem Solving Using C	3	0	0	3
5	ESC	Engineering Drawing & Design	1	0	4	3
6	HSMC	English Communication Skills Laboratory	0	0	3	1.5
7	BSC	Electrical Engineering Workshop	0	1	3	1.5
8	ESC	Programming for Problem Solving Using C Lab	0	0	3	1.5
Total Credits						19.5

I B.Tech – II SEMESTER

Sl. No	Course Components	Subjects	L	T	P	Credits
1	BSC	Mathematics-III (Vector Calculus, Transforms and PDE)	3	0	0	3
2	BSC	Applied Physics	3	0	0	3
3	ESC	Data Structures Through C	3	0	0	3
4	ESC	Electrical Circuit Analysis-I	3	0	0	3
5	ESC	Basic Civil and Mechanical Engineering	3	0	0	3
6	BSC	Applied Physics Lab	0	0	3	1.5
7	ESC	Basic Civil and Mechanical Engineering Lab	0	0	3	1.5
8	ESC	Data Structures through C Lab	0	0	3	1.5
9	Mandatory Course	Constitution of India	2	0	0	0
Total Credits						19.5



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

I Year II Semester	L	T	P	C
	2	0	0	0
CONSTITUTION OF INDIA				

Preamble:**Course Objectives:**

- To Enable the student to understand the importance of constitution
- To understand the structure of executive, legislature and judiciary
- To understand philosophy of fundamental rights and duties
- To understand the autonomous nature of constitutional bodies like Supreme Court and high court controller and auditor general of India and election commission of India.
- To understand the central and state relation financial and administrative.

UNIT-I

Introduction to Indian Constitution: Constitution meaning of the term, Indian Constitution - Sources and constitutional history, Features - Citizenship, Preamble, Fundamental Rights and Duties, Directive Principles of State Policy.

Learning outcomes:

After completion of this unit student will

- Understand the concept of Indian constitution
- Apply the knowledge on directive principle of state policy
- Analyze the History, features of Indian constitution
- Evaluate Preamble Fundamental Rights and Duties

UNIT-II

Union Government and its Administration Structure of the Indian Union: Federalism, Centre-State relationship, President: Role, power and position, PM and Council of ministers, Cabinet and Central Secretariat, Lok Sabha, Rajya Sabha, The Supreme Court and High Court: Powers and Functions;

Learning outcomes: -After completion of this unit student will

- Understand the structure of Indian government
- Differentiate between the state and central government
- Explain the role of President and Prime Minister
- Know the Structure of supreme court and High court

UNIT-III

State Government and its Administration Governor - Role and Position - CM and Council of ministers, State Secretariat: Organization, Structure and Functions

Learning outcomes: -After completion of this unit student will

- Understand the structure of state government
- Analyze the role Governor and Chief Minister
- Explain the role of state Secretariat
- Differentiate between structure and functions of state secretariat



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

UNIT-IV

A. Local Administration - District's Administration Head - Role and Importance, Municipalities - Mayor and role of Elected Representative - CEO of Municipal Corporation Pachayati Raj: Functions PRI: Zila Panchayat, Elected officials and their roles, CEO Zila Panchayat: Block level Organizational Hierarchy - (Different departments), Village level - Role of Elected and Appointed officials - Importance of grass root democracy

Learning outcomes: -After completion of this unit student will

- Understand the local Administration
- Compare and contrast district administration role and importance
- Analyze the role of Myer and elected representatives of Municipalities
- Evaluate Zilla panchayat block level organization

UNIT-V

Election Commission: Election Commission- Role of Chief Election Commissioner and Election Commissionerate State Election Commission, Functions of Commissions for the welfare of SC/ST/OBC and women

Learning outcomes: -After completion of this unit student will

- Know the role of Election Commission apply knowledge
- Contrast and compare the role of Chief Election commissioner and Commissionerate
- Analyze role of state election commission
- Evaluate various commissions of viz SC/ST/OBC and women

References:

1. Durga Das Basu, Introduction to the Constitution of India, 12th edition Prentice – Hall of India Pvt. Ltd. New Delhi 2011.
2. Subash Kashyap, Indian Constitution, 2nd edition, National Book Trust, 2011.
3. J.A. Siwach, Dynamics of Indian Government & Politics, 2nd edition, Sterling Pub Private Ltd.,1990.
4. D.C. Gupta, Indian Government and Politics, 8th edition, Vikas Publishing House Pvt Ltd., 2015.
5. H.M.Sreevai, Constitutional Law of India, 4th edition in 3 volumes (Universal Law Publication), 2015.
6. J.C. Johari, Indian Government and Politics Hans, 13th edition, Shoban Lal & Co.2012.
7. J. Raj Indian Government and Politics, 1st edition, SAGE Texts Publication, 2008.
8. M.V. Pylee, Indian Constitution Durga Das Basu, Human Rights in Constitutional Law, 3rd edition, Lexis Nexis Publications, 2008.
9. Noorani, A.G., (South Asia Human Rights Documentation Centre), Challenges to Civil Right), Challenges to Civil Rights Guarantees in India, Oxford University Press 2012

E-resources:

1. nptel.ac.in/courses/109104074/8
2. nptel.ac.in/courses/109104045/
3. nptel.ac.in/courses/101104065/
4. www.hss.iitb.ac.in/en/lecture-details
5. www.iitb.ac.in/en/event/2nd-lecture-institute-lecture-series-indian-constitution



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Course Outcomes:

At the end of the semester/course, the student will be able to have a clear knowledge on the following:

- Understand historical background of the constitution making and its importance for building a democratic India.
- Understand the functioning of three wings of the government i.e., executive, legislative and judiciary.
- Understand the value of the fundamental rights and duties for becoming good citizen of India.
- Analyze the decentralization of power between central, state and local self-government.
- Apply the knowledge in strengthening of the constitutional institutions like CAG, Election Commission and UPSC for sustaining democracy.
 1. Know the sources, features and principles of Indian Constitution.
 2. Learn about Union Government, State government and its administration.
 3. Get acquainted with Local administration and Pachayati Raj.
 4. Be aware of basic concepts and developments of Human Rights.
 5. Gain knowledge on roles and functioning of Election Commission



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DEPARTMENT OF BASIC SCIENCE & HUMANATIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Constitution of India	I –II Sem EEE	Mrs N Santoshi Assistant Professor	36	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to Indian Constitution		
Week 1	L1	Constitution meaning of the term	Chalk / LCD	26-5-21
	L2	Indian Constitution - Sources and constitutional history	Chalk / LCD	27-5-21
Week 2	L3	Features - Citizenship, Preamble	Chalk / LCD	2-6-21
	L4	Fundamental Rights and Duties	Chalk / LCD	3-6-21
Week 3	L5	Directive Principles of State Policy	Chalk / LCD	4-6-21
	L6	Directive Principles of State Policy	Chalk / LCD	5-6-21
UNIT II		Union Government and its Administration Structure of the Indian Union		
Week 4	L7	Federalism, CentreState relationship	Chalk / LCD	10-6-21
	L8	President: Role, power and position	Chalk / LCD	11-6-21
Week 5	L9	PM and Council of ministers	Chalk / LCD	17-6-21
	L10	Cabinet and Central Secretariat,	Chalk / LCD	18-6-21
Week 6	L11	Lok Sabha, Rajya Sabha	Chalk / LCD	24-6-21
	L12	The Supreme Court and High Court	Chalk / LCD	25-6-21
UNIT III		State Government and its Administration		
Week 7	L13	Governor - Role and Position	Chalk / LCD	26-6-21
	L14	CM and Council of ministers	Chalk / LCD	2-7-21
Week 8	L15	CM and Council of ministers	Chalk / LCD	3-7-21
	L16	State Secretariat: Organization	Chalk / LCD	9-7-21
Week 9	L17	State Secretariat: Structure	Chalk / LCD	10-7-21
	L18	State Secretariat: Functions	Chalk / LCD	23-7-21
UNIT IV		Local Administration		
Week 10	L19	District's Administration Head	Chalk / LCD	24-7-21
	L20	Role and Importance, Municipalities	Chalk / LCD	30-7-21
Week 11	L21	Mayor and role of Elected Representativ	Chalk / LCD	31-7-21
	L22	Pachayati Raj: Functions PRI, - Importance of grass root democracy	Chalk / LCD	
UNIT-V		Election Commission		



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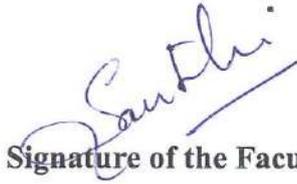
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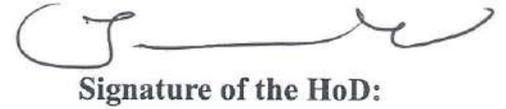
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Week 12	L23	Role of Chief Election Commissioner	Chalk / LCD	3-8-21
	L24	Election Commissionerate State Election Commission	Chalk / LCD	10-8-21
Week 13	L25	Functions of Commissions for the welfare of SC/ST	Chalk / LCD	16-8-21
	L26	Functions of Commissions for the welfare of /OBC and women	Chalk / LCD	20-8-21



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DEPARTMENT OF BASIC SCIENCE & HUMANATIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Constitution of India	I-II Sem CSM	Mrs N Santoshi	59	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to Indian Constitution		
Week 1	L1	Constitution meaning of the term	Chalk / LCD	26-5-21
	L2	Indian Constitution - Sources and constitutional history	Chalk / LCD	27-5-21
Week 2	L3	Features - Citizenship, Preamble	Chalk / LCD	2-6-21
	L4	Fundamental Rights and Duties	Chalk / LCD	3-6-21
Week 3	L5	Directive Principles of State Policy	Chalk / LCD	4-6-21
	L6	Directive Principles of State Policy	Chalk / LCD	5-6-21
UNIT II		Union Government and its Administration Structure of the Indian Union		
Week 4	L7	Federalism, CentreState relationship	Chalk / LCD	10-6-21
	L8	President: Role, power and position	Chalk / LCD	11-6-21
Week 5	L9	PM and Council of ministers	Chalk / LCD	17-6-21
	L10	Cabinet and Central Secretariat,	Chalk / LCD	18-6-21
Week 6	L11	Lok Sabha, Rajya Sabha	Chalk / LCD	24-6-21
	L12	The Supreme Court and High Court	Chalk / LCD	25-6-21
UNIT III		State Government and its Administration		
Week 7	L13	Governor - Role and Position	Chalk / LCD	26-6-21
	L14	CM and Council of ministers	Chalk / LCD	2-7-21
Week 8	L15	CM and Council of ministers	Chalk / LCD	3-7-21
	L16	State Secretariat: Organization	Chalk / LCD	9-7-21
Week 9	L17	State Secretariat: Structure	Chalk / LCD	10-7-21
	L18	State Secretariat: Functions	Chalk / LCD	23-7-21
UNIT IV		Local Administration		
Week 10	L19	District's Administration Head	Chalk / LCD	24-7-21
	L20	Role and Importance, Municipalities	Chalk / LCD	30-7-21
Week 11	L21	Mayor and role of Elected Representativ	Chalk / LCD	31-7-21
	L22	Pachayati Raj: Functions PRI, - Importance of grass root democracy	Chalk / LCD	
UNIT-V		Election Commission		



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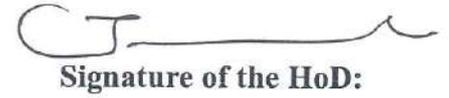
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Week 12	L23	Role of Chief Election Commissioner	Chalk / LCD	3-8-21
	L24	Election Commissionerate State Election Commission	Chalk / LCD	10-8-21
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	L26	Functions of Commissions for the welfare of /OB and women	Chalk / LCD	20-8-21


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Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Constitution of India	I-II Sem CSD	Dr E Ranjit Kumar	50	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to Indian Constitution		
Week 1	L1	Constitution meaning of the term	Chalk / LCD	26-5-21
	L2	Indian Constitution - Sources and constitutional history	Chalk / LCD	27-5-21
Week 2	L3	Features - Citizenship, Preamble	Chalk / LCD	2-6-21
	L4	Fundamental Rights and Duties	Chalk / LCD	3-6-21
Week 3	L5	Directive Principles of State Policy	Chalk / LCD	4-6-21
	L6	Directive Principles of State Policy	Chalk / LCD	5-6-21
UNIT II		Union Government and its Administration Structure of the Indian Union		
Week 4	L7	Federalism, CentreState relationship	Chalk / LCD	10-6-21
	L8	President: Role, power and position	Chalk / LCD	11-6-21
Week 5	L9	PM and Council of ministers	Chalk / LCD	17-6-21
	L10	Cabinet and Central Secretariat,	Chalk / LCD	18-6-21
Week 6	L11	Lok Sabha, Rajya Sabha	Chalk / LCD	24-6-21
	L12	The Supreme Court and High Court	Chalk / LCD	25-6-21
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Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Constitution of India	I -II Sem Mech	Mrs D Sravya Sree	77	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to Indian Constitution		
Week 1	L1	Constitution meaning of the term	Chalk / LCD	24-5-21
	L2	Indian Constitution - Sources and constitutional history	Chalk / LCD	25-5-21
Week 2	L3	Features - Citizenship, Preamble	Chalk / LCD	1-6-21
	L4	Fundamental Rights and Duties	Chalk / LCD	2-6-21
Week 3	L5	Directive Principles of State Policy	Chalk / LCD	8-6-21
	L6	Directive Principles of State Policy	Chalk / LCD	9-6-21
UNIT II		Union Government and its Administration Structure of the Indian Union		
Week 4	L7	Federalism, CentreState relationship	Chalk / LCD	15-6-21
	L8	President: Role, power and position	Chalk / LCD	16-6-21
Week 5	L9	PM and Council of ministers	Chalk / LCD	22-6-21
	L10	Cabinet and Central Secretariat,	Chalk / LCD	23-6-21
Week 6	L11	Lok Sabha, Rajya Sabha	Chalk / LCD	29-6-21
	L12	The Supreme Court and High Court	Chalk / LCD	30-6-21
UNIT III		State Government and its Administration		
Week 7	L13	Governor - Role and Position	Chalk / LCD	13-7-21
	L14	CM and Council of ministers	Chalk / LCD	14-7-21
Week 8	L15	CM and Council of ministers	Chalk / LCD	20-7-21
	L16	State Secretariat: Organization	Chalk / LCD	21-7-21
Week 9	L17	State Secretariat: Structure	Chalk / LCD	27-7-21
	L18	State Secretariat: Functions	Chalk / LCD	28-7-21
UNIT IV		Local Administration		
Week 10	L19	District's Administration Head	Chalk / LCD	2-8-21
	L20	Role and Importance, Municipalities	Chalk / LCD	3-8-21
Week 11	L21	Mayor and role of Elected Representativ	Chalk / LCD	9-8-21
	L22	Pachayati Raj: Functions PRI, - Importance of grass root democracy	Chalk / LCD	
UNIT-V		Election Commission		



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Week 12	L23	Role of Chief Election Commissioner	Chalk / LCD	16-8-21
	L24	Election Commissionerate State Election Commission	Chalk / LCD	17-8-21
Week 13	L25	Functions of Commissions for the welfare of SC/ST	Chalk / LCD	23-8-21
	L26	Functions of Commissions for the welfare of /OBC and women	Chalk / LCD	24-8-21

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DEPARTMENT OF MANAGEMENT STUDIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Constitution of India	II -I Sem ECE-A	Mr S Suman Datta Assistant Professor	60	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to Indian Constitution		
Week 1	L1	Constitution meaning of the term	Chalk / LCD	2-11-2020
	L2	Indian Constitution - Sources and constitutional history	Chalk / LCD	4-11-2020
Week 2	L3	Features - Citizenship, Preamble	Chalk / LCD	9-11-2020
	L4	Fundamental Rights and Duties	Chalk / LCD	11-11-2020
Week 3	L5	Directive Principles of State Policy	Chalk / LCD	16-11-2020
	L6	Directive Principles of State Policy	Chalk / LCD	18-11-2020
UNIT II		Union Government and its Administration Structure of the Indian Union		
Week 4	L7	Federalism, CentreState relationship	Chalk / LCD	23-11-2020
	L8	President: Role, power and position	Chalk / LCD	25-11-2020
Week 5	L9	PM and Council of ministers	Chalk / LCD	30-11-2020
	L10	Cabinet and Central Secretariat,	Chalk / LCD	2-12-2020
Week 6	L11	Lok Sabha, Rajya Sabha	Chalk / LCD	7-12-2020
	L12	The Supreme Court and High Court	Chalk / LCD	9-12-2020
UNIT III		State Government and its Administration		
Week 7	L13	Governor - Role and Position	Chalk / LCD	14-12-2020
	L14	CM and Council of ministers	Chalk / LCD	16-12-2020
Week 8	L15	CM and Council of ministers	Chalk / LCD	21-12-2020
	L16	State Secretariat: Organization	Chalk / LCD	23-12-2020
Week 9	L17	State Secretariat: Structure	Chalk / LCD	28-12-2020
	L18	State Secretariat: Functions	Chalk / LCD	30-12-2020
UNIT IV		Local Administration		
Week 10	L19	District's Administration Head	Chalk / LCD	4-1-2021
	L20	Role and Importance, Municipalities	Chalk / LCD	6-1-2021
Week 11	L21	Mayor and role of Elected Representative	Chalk / LCD	18-1-2021
	L22	Panchayati Raj: Functions PRL, - Importance of grass root democracy	Chalk / LCD	20-1-2021
UNIT-V		Election Commission		



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Week 12	L23	Role of Chief Election Commissioner	Chalk / LCD	3-2-2021
	L24	Election Commissionerate State Election Commission	Chalk / LCD	10-2-2021
Week 13	L25	Functions of Commissions for the welfare of SC/ST	Chalk / LCD	17-2-2021
	L26	Functions of Commissions for the welfare of /OBC and women	Chalk / LCD	17-2-2021

Signature of the Faculty:

Signature of the HoD:

Head of the Department

Master of Business Administration

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DEPARTMENT OF MANAGEMENT STUDIES

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Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Constitution of India	II -I Sem ECE-B	Mr S Suman Datta	60	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I				
Introduction to Indian Constitution				
Week 1	L1	Constitution meaning of the term	Chalk / LCD	3-11-2020
	L2	Indian Constitution - Sources and constitutional history	Chalk / LCD	5-11-2020
Week 2	L3	Features - Citizenship, Preamble	Chalk / LCD	10-11-2020
	L4	Fundamental Rights and Duties	Chalk / LCD	12-11-2020
Week 3	L5	Directive Principles of State Policy	Chalk / LCD	17-11-2020
	L6	Directive Principles of State Policy	Chalk / LCD	19-11-2020
UNIT II				
Union Government and its Administration Structure of the Indian Union				
Week 4	L7	Federalism, CentreState relationship	Chalk / LCD	24-11-2020
	L8	President: Role, power and position	Chalk / LCD	26-11-2020
Week 5	L9	PM and Council of ministers	Chalk / LCD	1-12-2020
	L10	Cabinet and Central Secretariat,	Chalk / LCD	3-12-2020
Week 6	L11	Lok Sabha, Rajya Sabha	Chalk / LCD	8-12-2020
	L12	The Supreme Court and High Court	Chalk / LCD	10-12-2020
UNIT III				
State Government and its Administration				
Week 7	L13	Governor - Role and Position	Chalk / LCD	15-12-2020
	L14	CM and Council of ministers	Chalk / LCD	17-12-2020
Week 8	L15	CM and Council of ministers	Chalk / LCD	22-12-2020
	L16	State Secretariat: Organization	Chalk / LCD	24-12-2020
Week 9	L17	State Secretariat: Structure	Chalk / LCD	29-12-2020
	L18	State Secretariat: Functions	Chalk / LCD	31-12-2020
UNIT IV				
Local Administration				
Week 10	L19	District's Administration Head	Chalk / LCD	5-1-2021
	L20	Role and Importance, Municipalities	Chalk / LCD	7-1-2021
Week 11	L21	Mayor and role of Elected Representativ	Chalk / LCD	19-1-2021
	L22	Pachayati Raj: Functions PRI, - Importance of grass root democracy	Chalk / LCD	21-1-2021
UNIT-V				
Election Commission				



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Week 12	L23	Role of Chief Election Commissioner	Chalk / LCD	28-1-2021
	L24	Election Commissionerate State Election Commission	Chalk / LCD	4-2-2021
Week 13	L25	Functions of Commissions for the welfare of SC/ST	Chalk / LCD	11-2-2021
	L26	Functions of Commissions for the welfare of /OBC and women	Chalk / LCD	18-2-2021

Signature of the Faculty:

Signature of the HoD:

Head of the Department

Master of Business Administration

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS TIME TABLE A.Y. : 2020-2021

CLASS: III B.Tech- I SEM

w.e.f: 02-11-2020

Class Incharge: Mr K.Suribabu								
DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MON	CAO	AWP	LICA	L U N C H	DICA	AWP	AWP	DC
TUE	LICA	AWP	DICA		Library	LICA/PDC Lab		
WED	PDC/DICA Lab				DC	Tutorial Classes		
THU	DICA	CAO	LICA		DC	LICA/DICA Lab		
FRI	DC	AWP	DICA		PE& HV		CRT	DC
SAT	AWP	CAO	DC		DICA	LICA	CRT	Sports

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT/LAB	DEPARTMENT
1	Mr K.Suribabu	Asst Prof	Computer Architecture and Organization	ECE
2	Mrs B.Suneetha	Asst Prof	Antenna and Wave Propagation	ECE
3	Mr V.Suresh	Asst Prof	Linear IC Applications	ECE
4	Mr B.Srinu	Asst Prof	Digital IC Applications	ECE



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5	Mrs B.T.R.Prasuna	Asst Prof	Digital Communications	ECE
6	Mr K.Suribabu/ Mr G.Venkata Santtyosh	Asst Prof	Pulse and Digital Circuits Lab	ECE
7	Mr V.Suresh/ Mr B.Sudha	Asst Prof	Linear IC Applications Lab	ECE
8	Mr B.Srinu/ Mr M.Vinay Kumar	Asst Prof	Digital IC Applications Lab	ECE
9	Mr. M. Roop Sundar	Asst Prof	Professional Ethics & Human Values	MBA

HOD-ECE

Head of the Department,
Electronics and Communication Engineering,
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CLASS TIME TABLE A.Y. -2020-21

CLASS: II BTECH IISEM

Class in- charge: U.V.Venkatalakshmi								
DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	EM&I	EM-II	CS	LUNCH	DE	PS-I	S&S	LIBRARY
TUE	CS	S&S	DE		EM-ILAB			
WED	DE	EM-II	EM&I		CS	PS-I	TUTORIAL CLASSES	
THU	PS-I	DE	PE&H V		EDCLAB			
FRI	EM-II		S&S		EM&I	DE	CS	CRT
SAT	S&S		PE&H V		PS-I	EM-II	EM&I	SPORTS

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	U.V.Venkatalakshmi	Asst.Professor	Electrical Measurements & Instrumentation	EEE
2	B.Ananad swaroop	Asst.Professor	Electrical Machines-II	EEE
3	D.Prasuna	Asst.Professor	Digital Electronics	ECE
4	B.Madhusudhana rao	Asst.Professor	Control Systems	EEE
5	A.Arjun Rao	Asso.Professor	Power Systems-I	EEE
6	K Swetha	Asst.Professor	Signals and Systems	ECE
7	M.Venkatesh	Asst.Professor	Electrical Machines -I Laboratory	EEE
8	K.Avinash kumar	Asst.Professor	Electronic Devices & Circuits Laboratory	ECE



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9	R.Vasanthaxmi	Asst.Professor	Professional Ethics and Human Values	MBA
10	Parvatheesam	Asst.Professor	Campus Recruitment Training	Training&Placement

HOD-EEE

Head of The Department
Department of Electrical and Electronics Engineering
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CLASS TIME TABLE A.Y. -2020-21

CLASS:III BTECH IISEM

Class in- charge: D.Dhana Prasad								
DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	PEC&D	MP&MC	PSA	LUNCH	Power Electronics Laboratory			
TUE	MP&MC	DS	PSA		PEC&D	EA&CM	CRT	LIBRARY
WED	PSA	EA&CM	PEC&D		MP&MC	DS	PE&HV	CRT
THU	DS	PSA	EA&CM		MPMC LAB			
FRI	PEC&D	MP&MC			TUTORIAL CLASSES		PE&HV	SPORTS
SAT	EA&CM	DS	PSA		Data Structures Laboratory			

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	Dr.S.N.V.Ganesh	Professor	Power Electronic Controllers & Drives	EEE
2	N.V.N.Anusha	Asst. Prof	Power System analysis	EEE
3	B.Sudha	Asst. Prof	Micro Processors and Micro controllers	ECE
4	M.Jayaram	Asst. Prof	Data Structures	CSE
5	G.Prasanth	Asst. Prof	Energy Audit and Conservation & Management	EEE
6	V.Sudhakar	Asst. Prof	Power Electronics Laboratory	EEE
7	S.Soujanya	Asst. Prof	Microprocessors & Microcontrollers Laboratory	ECE



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8	M.Jayaram	Asst. Prof	Data Structures Laboratory	CSE
9	R.Vasanthaxmi	Asst. Prof	Professional Ethics & Human Values	MBA
10	Rajini	Asst. Prof	Campus Recruitment Training	Training&Placement

HOD-EEE
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Department of Electrical and Electronics Engineering
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DEPARTMENT OF CIVIL ENGINEERING

CLASS TIME TABLE A.Y. :2020-2021

CLASS: II B. Tech -II SEM

w.e.f: 22-03-2021

Class In charge: R. Rohith								
DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MON	HHM	SM-II	TE-II	LUNCH	EG	EE-I	CRT	PE&HV
TUE	EG	TE-II	SM-II		EE-I	FM&HM lab		
WED	EE-I	TE-II	HHM		SM-II	EG Lab		
THU	TE Lab				SM-II	HHM	Library	EG
FRI	SM-II	EG	CRT		HHM		TE-II	SPORTS
SAT	TE-II	EG	PE&HV		HHM	EE-I	EE-I	SM-II

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT/LAB	DEPARTMENT
1	G. Anand	Asst Prof	Strength of Materials-II	Civil
2	P. Nirmala	Asst Prof	Hydraulics and Hydraulic Machinery	Civil
3	T. Harish	Asst Prof	Engineering Geology	Civil
4	M. Sumathi	Asst Prof	Transportation Engineering - II	Civil
5	P. S. S. Bharadwaj	Asst Prof	Environmental Engineering - I	Civil
6	R. Venkatesh	Asst Prof	Engineering Geology Lab	Civil



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7	R. Rohith	Asst Prof	Transportation Engineering Lab	Civil
8	Syed R. Sana	Asst Prof	Fluid Mechanics & Hydraulics Machinery Lab	Civil
9	K. Swetha	Asst Prof	Professional Ethics and Human Values	MBA
9	N. Rajani	Asst Prof	CRT	Training and Placement Cell

P. Subkatesh
HOD-CIVIL


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CLASS TIME TABLE A.Y. -2020-21

CLASS:II BTECH IISEM

SEC A

w.e.f.: 22-03-2021

DATE / TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
Monday	FLAT	P&S	DBMS	LUNCH	OS	JAVALAB		
Tuesday	Professional Ethics		DBMS		JAVA	FLAT	OS	P&S
Wednesday	FLAT	DBMS	P&S		JAVA	DBMSLAB		
Thursday	P&S	P&S	DBMS		FLAT	JAVA	CRT	SPORTS
Friday	JAVA	FLAT	OS		P&S	DBMS	JAVA	T
Saturday	UNIX LAB				JAVA	FLAT	OS	LIBRARY

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Yejjipurapu Ramesh Kumar	Assistant Professor	JAVA	CSE
2	P Satyanarayana	Assistant Professor	Formal Language and Automata Theory	CSE
3	Podugu Ravikumar	Assistant Professor	Operating Systems	CSE
4	Joga Rao	Associate Professor	Probability and Statistics	BS&H
5	Karra Meher Prasad	Assistant Professor	Database Management Systems	CSE
6	T.Srinivas	Associate Professor	Professional Ethics	MBA
7	T.Rajini	Assistant Professor	Campus Recruitment Training	Training & Placement
8	Badukonda Madhusudana Rao	Assistant Professor	UNIX LAB	CSE
9	Karra Meher Prasad	Assistant Professor	Database Management Systems LAB	CSE



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10	Yejjipurapu Ramesh Kumar	Assistant Professor	JAVA LAB	CSE
11	Yejjipurapu Ramesh Kumar	Assistant Professor	Class Incharge	CSE


HOD-CSE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CLASS TIME TABLE A.Y. -2020-21

CLASS:II BTECH IISEM

SEC B

w.e.f.: 22-03-2021

DATE/ TIME	9:30- 10:30	10:30- 11:20	11:20- 12:10	12:10- 1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
Monday	UNIX LAB			LUNCH	JAVA	P&S	DBMS	T
Tuesday	FLAT	DBMS	JAVA		OS	OS	P&S	LIBRARY
Wednesday	P&S	P&S	FLAT		DBMS	JAVA	CRT	SPORTS
Thursday	FLAT	JAVA	DBMS		OS	DBMS LAB		
Friday	PROFESSIONAL ETHICS		OS		DBMS	FLAT	P&S	JAVA
Saturday	JAVALAB				OS	DBMS	FLAT	P&S

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Mamidi Jayaram	Assistant Professor	JAVA	CSE
2	Karumajji Hymavathi	Assistant Professor	Formal Language and Automata Theory	CSE
3	V.Sarada	Assistant Professor	Operating Systems	CSE
4	G.Chinnayya	Assistant Professor	Probability and Statistics	BS&H
5	Galla Venkataswamy	Assistant Professor	Database Management Systems	CSE
6	T.Uma Mahesh	Associate Professor	Professional Ethics	MBA
7	T.Rajini	Assistant Professor	Campus Recruitment Training	Training & Placement



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8	Rajasekharam Bonthu	Assistant Professor	UNIX LAB	CSE
9	Galla Venkataswamy	Assistant Professor	Database Management Systems LAB	CSE
10	Karumajji Hymavathi	Assistant Professor	JAVA LAB	CSE
11	Galla Venkataswamy	Assistant Professor	Class Incharge	CSE


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CLASS TIME TABLE A.Y. -2020-21

CLASS:II BTECH IISEM

SEC C

w.e.f.: 22-03-2021

DATE/ TIME	9:30- 10:30	10:30- 11:20	11:20- 12:10	12:10- 1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
Monday	JAVA	OS	OS	LUNCH	DBMS	FLAT	P&S	SPORTS
Tuesday	DBMS	JAVA	FLAT		P&S	DBMS LAB		
Wednesday	JAVA LAB				DBMS	P&S	FLAT	T
Thursday	JAVA	DBMS	P&S		JAVA	OS	P&S	LIBRARY
Friday	UNIX LAB				DBMS	JAVA	CRT	FLAT
Saturday	OS	P&S	DBMS		FLAT	JAVA	PROFESSIONAL ETHICS	

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Gangu Dharmaraju	Assistant Professor	JAVA	CSE
2	Boodi Vineela	Assistant Professor	Formal Language and Automata Theory	CSE
3	G.Trinadha Rao	Assistant Professor	Operating Systems	CSE
4	G.Chinnayya	Assistant Professor	Probability and Statistics	BS&H
5	Surendra Kumar Choudary	Assistant Professor	Database Management Systems	CSE
6	T.Srinivas	Associate Professor	Professional Ethics	MBA
7	T.Rajini	Assistant Professor	Campus Recruitment Training	Training & Placement



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8	Payala Aruna	Assistant Professor	UNIX LAB	CSE
9	Surendra Kumar Choudary	Assistant Professor	Database Management Systems LAB	CSE
10	Gangu Dharmaraju	Assistant Professor	JAVA LAB	CSE
11	Gangu Dharmaraju	Assistant Professor	Class Incharge	CSE

HOD-CSE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CLASS TIME TABLE A.Y. -2020-21

CLASS:III BTECH ISEM

SEC A

w.e.f:02-11-2020

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	CD	UNIX	OS	LUNCH	OOAD	UML	DBMS	T
TUE	OS	UML	CD		UNIX	DBMS LAB		
WED	DBMS	UNIX	UML		UNIX	DBMS	CRT	LIBRARY
THU	UML	CD	OS		OS	OS LAB		
FRI	UNIX	DBMS	UML		UML	OOAD	PROFESSIONAL ETHICS	
SAT	OOAD	CD	UNIX		OOAD	OS	CD	SPORTS

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Nimmala Sakitha Sri	Associate Professor	Database Management Systems	CSE
2	Mishra Sangita	Assistant Professor	Compiler Design	CSE
3	Sambarika Prasad	Assistant Professor	UNIX	CSE
4	Boodi Vineela	Assistant Professor	Unified Modelling Language	CSE
5	V.Sarada	Assistant Professor	Object Oriented Analysis and Design	CSE
6	Dr. Annepu Balakrishna	Professor	Operating Systems	CSE
7	Dr. Annepu Balakrishna	Professor	Operating Systems LAB	CSE
8	Nimmala Sakitha Sri	Associate Professor	Database Management Systems LAB	CSE



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9	T.Srinivas	Associate Professor	Professional Ethics	MBA
10	Roop Sundar	Assistant Professor	Campus Recruitment Training	Training & Placement
11	Mishra Sangita	Assistant Professor	Class Incharge	CSE


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CLASS TIME TABLE A.Y. -2020-21

CLASS:III BTECH ISEM

SEC B

w.e.f:02-11-2020

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	CD	UNIX	DBMS	LUNCH	OOAD	UML	OS	SPORTS
TUE	OS	CD	UNIX		UML	OS LAB		
WED	UNIX	DBMS	OOAD		CD	UML	OOAD	LIBRARY
THU	DBMS	CD	OS		OS	DBMSLAB		
FRI	UNIX	DBMS	OOAD		DBMS	CRT	PROFESSIONAL ETHICS	
SAT	CD	UNIX	DBMS		OS	UML	OOAD	T

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Dr. G R S Murthy	Professor	Database Management Systems	CSE
2	Badukonda Madhusudana Rao	Assistant Professor	Compiler Design	CSE
3	Podugu Ravikumar	Assistant Professor	UNIX	CSE
4	Vasantha Murali Krishna	Assistant Professor	Unified Modelling Language	CSE
5	Mamidi Jayaram	Assistant Professor	Object Oriented Analysis and Design	CSE
6	Uma Mythraye	Assistant Professor	Operating Systems	CSE
7	Uma Mythraye	Assistant Professor	Operating Systems LAB	CSE
8	Dr. G R S Murthy	Professor	Database Management	CSE



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			Systems LAB	
9	T.Srinivas	Associate Professor	Professional Ethics	MBA
10	Roop Sundar	Assistant Professor	Campus Recruitment Training	Training & Placement
11	Uma Mythraye	Assistant Professor	Class Incharge	CSE

HOD-CSE

Head of the Department
Computer Science and Engineering
AVANTHI INSTITUTE OF ENGG & TECH
Cherukupally (V), Chittivalasa (SA)
Bhogapuram (M), Vizianagaram(D)-531162

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE STRUCTURE-R19

COURSE STRUCTURE AND SYLLABUS

For

B. TECH ELECTRICAL AND ELECTRONICS ENGINEERING

(Applicable for batches admitted from 2019-2020)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA

KAKINADA - 533 003, Andhra Pradesh, India



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KAKINADA – 533 003, Andhra Pradesh, India
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE STRUCTURE-R19

I Year – I SEMESTER

Sl No	Course Code	Subjects	L	T	P	Credits
1	HS1101	English	3	0	0	3
2	BS1101	Mathematics - I	3	0	0	3
3	BS1106	Applied Chemistry	3	0	0	3
4	ES1101	Programming for Problem Solving Using C	3	0	0	3
5	ES1103	Engineering Drawing	1	0	3	2.5
6	HS1102	English Lab	0	0	3	1.5
7	BS1107	Applied Chemistry Lab	0	0	3	1.5
8	ES1102	Programming for Problem Solving Using C Lab	0	0	3	1.5
9	MC1101	Environmental Science	3	0	0	0
Total Credits			16	0	12	19

I Year – II SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	BS1202	Mathematics – II	3	0	0	3
2	BS1203	Mathematics – III	3	0	0	3
3	BS1204	Applied Physics	3	0	0	3
4	ES1212	Fundamentals of Computers	3	0	0	3
5	ES1217	Electrical Circuit Analysis - I	3	0	0	3
6	ES1218	Electrical Engineering Workshop	0	0	3	1.5
7	BS1205	Applied Physics Lab	0	0	3	1.5
8	HS1203	Communication Skills Lab	0	1	2	2
9	PR1201	Engineering Exploration Project	0	0	2	1
Total Credits			15	1	10	21



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COURSE STRUCTURE-R19

II Year – I SEMESTER

S. No	Course Code	Subjects	Category	L	T	P	Credits
1		Electrical Circuit Analysis - II	EE	3	--	--	3
2		Electrical Machines-I	EE	3	--	--	3
3		Electronic Devices and Circuits	ES	3	--	--	3
4		Electro Magnetic Fields	EE	3	--	--	3
5		Thermal and Hydro Prime movers	ES	3	--	--	3
6		Managerial Economics & Financial Analysis	BS	3	--	--	3
7		Thermal and Hydro Laboratory	ES	--	--	3	1.5
8		Electrical Circuits Laboratory	EE	--	--	3	1.5
9		Essence of Indian Traditional Knowledge	MC	3	--	--	0
Total Credits				24	0	6	21

II Year – II SEMESTER

S. No	Course Code	Subjects	Category	L	T	P	Credits
1		Electrical Measurements & Instrumentation	EE	3	--	--	3
2		Electrical Machines-II	EE	3	--	--	3
3		Digital Electronics	ES	3	--	--	3
4		Control Systems	EE	3	--	--	3
5		Power Systems-I	EE	3	--	--	3
6		Signals and Systems	EE	3	--	--	3
7		Electrical Machines -I Laboratory	EE	--	--	3	1.5
8		Electronic Devices & Circuits Laboratory	EE	--	--	3	1.5
9		Professional Ethics and Human Values	MC	3	0	0	0
Total Credits				21	0	6	21



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COURSE STRUCTURE-R19

II Year – II SEMESTER	L	T	P	C
	3	0	0	0
PROFESSIONAL ETHICS AND HUMAN VALUES				

Course Objectives:

- To create an awareness on Engineering Ethics and Human Values.
- To instill Moral and Social Values and Loyalty
- To appreciate the rights of others
- To create awareness on assessment of safety and risk

Course outcomes:

Students will be able to:

- Identify and analyze an ethical issue in the subject matter under investigation or in a relevant field
- Identify the multiple ethical interests at stake in a real-world situation or practice
- Articulate what makes a particular course of action ethically defensible
- Assess their own ethical values and the social context of problems
- Identify ethical concerns in research and intellectual contexts, including academic integrity, use and citation of sources, the objective presentation of data, and the treatment of human subjects
- Demonstrate knowledge of ethical values in non-classroom activities, such as service learning, internships, and field work
- Integrate, synthesize, and apply knowledge of ethical dilemmas and resolutions in academic settings, including focused and interdisciplinary research.

UNIT I

Human Values: Morals, Values and Ethics-Integrity-Work Ethic-Service learning – Civic Virtue – Respect for others –Living Peacefully –Caring –Sharing –Honesty –Courage-Cooperation–Commitment – Empathy –Self Confidence Character –Spirituality.

Learning outcomes:

1. Learn about morals, values & work ethics.
2. Learn to respect others and develop civic virtue.
3. Develop commitment
4. Learn how to live peacefully

UNIT II

Engineering Ethics: Senses of 'Engineering Ethics-Variety of moral issued –Types of inquiry –Moral dilemmas –Moral autonomy –Kohlberg's theory-Gilligan's theory-Consensus and controversy –Models of professional roles-Theories about right action-Self-interest –Customs and religion –Uses of Ethical theories –Valuing time –Cooperation –Commitment.

Learning outcomes:

1. Learn about the ethical responsibilities of the engineers.
2. Create awareness about the customs and religions.



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3. Learn time management
4. Learn about the different professional roles.

UNIT III

Engineering as Social Experimentation: Engineering As Social Experimentation –Framing the problem –Determining the facts –Codes of Ethics –Clarifying Concepts –Application issues –Common Ground -General Principles –Utilitarian thinking respect for persons.

Learning outcomes:

1. Demonstrate knowledge to become a social experimenter.
2. Provide depth knowledge on framing of the problem and determining the facts.
3. Provide depth knowledge on codes of ethics.
4. Develop utilitarian thinking

UNIT IV

Engineers Responsibility for Safety and Risk: Safety and risk –Assessment of safety and risk –Risk benefit analysis and reducing risk-Safety and the Engineer-Designing for the safety Intellectual Property rights (IPR).

Learning outcomes:

1. Create awareness about safety, risk & risk benefit analysis.
2. Engineer's design practices for providing safety.
3. Provide knowledge on intellectual property rights.

UNIT V

Global Issues: Globalization –Cross-culture issues-Environmental Ethics –Computer Ethics –Computers as the instrument of Unethical behavior –Computers as the object of Unethical acts –Autonomous Computers-Computer codes of Ethics –Weapons Development -Ethics and Research –Analyzing Ethical Problems in research.

Learning outcomes:

1. Develop knowledge about global issues.
2. Create awareness on computer and environmental ethics
3. Analyze ethical problems in research.
4. Give a picture on weapons development.



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Text Books:

- 1) “Engineering Ethics includes Human Values” by M.Govindarajan, S.Natarajan and, V.S.Senthil Kumar-PHI Learning Pvt. Ltd-2009
- 2) “Engineering Ethics” by Harris, Pritchard and Rabins, CENGAGE Learning, India Edition, 2009.
- 3) “Ethics in Engineering” by Mike W. Martin and Roland Schinzinger –Tata McGraw-Hill–2003.
- 4) “Professional Ethics and Morals” by Prof.A.R.Aryasri, DharanikotaSuyodhana-Maruthi Publications.
- 5) “Professional Ethics and Human Values” by A.Alavudeen, R.Kalil Rahman and M.Jayakumaran-LaxmiPublications.
- 6) “Professional Ethics and Human Values” by Prof.D.R.Kiran-
“Indian Culture, Values and Professional Ethics” by PSR Murthy-BS Publication




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COURSE STRUCTURE AND SYLLABUS

For

COMPUTER SCIENCE AND ENGINEERING

(Applicable for batches admitted from 2016-2017)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA - 533 003, Andhra Pradesh, India

III Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Compiler Design	4	--	--	3
2	Unix Programming	4	--	--	3
3	Object Oriented Analysis and Design using UML	4	--	--	3
4	Database Management Systems	4	--	--	3
5	Operating Systems	4	--	--	3
6	Unified Modeling Lab	--	--	3	2
7	Operating System & Linux Programming Lab	--	--	3	2
8	Database Management System Lab	--	--	3	2
MC	Professional Ethics & Human Values	--	3	--	--
Total Credits					21

III Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Computer Networks	4	2	--	3
2	Data Warehousing and Mining	4	--	--	3
3	Design and Analysis of Algorithms	4	--	--	3
4	Software Testing Methodologies	4	--	--	3
5	Open Elective: i. Artificial Intelligence ii. Internet of Things iii. Cyber Security iv. Digital Signal Processing v. Embedded Systems vi. Robotics	4	--	--	3
6	Network Programming Lab	--	--	3	2
7	Software Testing Lab	--	--	3	2
8	Data Warehousing and Mining Lab	--	--	3	2
9	IPR & Patents	--	2	--	--
Total Credits					21

III Year – I Semester

L	T	P	C
0	3	0	0

PROFESSIONAL ETHICS AND HUMAN VALUES

Course Objectives:

***To give basic insights and inputs to the student to inculcate Human values to grow as a responsible human beings with proper personality.**

***Professional Ethics instills the student to maintain ethical conduct and discharge their professional duties.**

UNIT I: Human Values:

Morals, Values and Ethics – Integrity – Trustworthiness - Work Ethics – Service Learning – Civic Virtue – Respect for others – Living Peacefully – Caring – Sharing – Honesty – Courage – Value Time – Co-operation – Commitment – Empathy – Self-confidence – Spirituality-Character.

UNIT: II: Principles for Harmony:

Truthfulness – Customs and Traditions -Value Education – Human Dignity – Human Rights – Fundamental Duties - Aspirations and Harmony (I, We & Nature) – Gender Bias - Emotional Intelligence – Salovey – Mayer Model – Emotional Competencies – Conscientiousness.

UNIT III: Engineering Ethics and Social Experimentation:

History of Ethics - Need of Engineering Ethics - Senses of Engineering Ethics- Profession and Professionalism —Self Interest - Moral Autonomy – Utilitarianism – Virtue Theory - Uses of Ethical Theories - Deontology- Types of Inquiry –Kohlberg’s Theory - Gilligan’s Argument – Heinz’s Dilemma - Comparison with Standard Experiments — Learning from the Past – Engineers as Managers – Consultants and Leaders – Balanced Outlook on Law - Role of Codes – Codes and Experimental Nature of Engineering.

UNIT IV: Engineers’ Responsibilities towards Safety and Risk:

Concept of Safety - Safety and Risk – Types of Risks – Voluntary v/sInvoluntary Risk – Consequences - Risk Assessment – Accountability – Liability - Reversible Effects - Threshold Levels of Risk - Delayed v/sImmediate Risk - Safety and the Engineer – Designing for Safety – Risk-Benefit Analysis-Accidents.

UNIT V: Engineers' Duties and Rights:

Concept of Duty - Professional Duties – Collegiality - Techniques for Achieving Collegiality – Senses of Loyalty - Consensus and Controversy - Professional and Individual Rights – Confidential and Proprietary Information - Conflict of Interest-Ethical egoism - Collective Bargaining – Confidentiality - Gifts and Bribes - Problem solving-Occupational Crimes- Industrial Espionage- Price Fixing-Whistle Blowing.

UNIT VI: Global Issues:

Globalization and MNCs –Cross Culture Issues - Business Ethics – Media Ethics - Environmental Ethics – Endangering Lives - Bio Ethics - Computer Ethics - War Ethics – Research Ethics -Intellectual Property Rights.

- Related Cases Shall be dealt where ever necessary.

Outcome:

- *It gives a comprehensive understanding of a variety issues that are encountered by every professional in discharging professional duties.**
- *It provides the student the sensitivity and global outlook in the contemporary world to fulfill the professional obligations effectively.**

References:

1. Professional Ethics by R. Subramaniam – Oxford Publications, New Delhi.
2. Ethics in Engineering by Mike W. Martin and Roland Schinzinger - Tata McGraw-Hill – 2003.
3. Professional Ethics and Morals by Prof.A.R.Aryasri, DharanikotaSuyodhana - Maruthi Publications.
4. Engineering Ethics by Harris, Pritchard and Rabins, Cengage Learning, New Delhi.
5. Human Values & Professional Ethics by S. B. Gogate, Vikas Publishing House Pvt. Ltd., Noida.
6. Engineering Ethics & Human Values by M.Govindarajan, S.Natarajan and V.S.SenthilKumar-PHI Learning Pvt. Ltd – 2009.
7. Professional Ethics and Human Values by A. Alavudeen, R.Kalil Rahman and M. Jayakumaran – University Science Press.
8. Professional Ethics and Human Values by Prof.D.R.Kiran-Tata McGraw-Hill - 2013
9. Human Values And Professional Ethics by Jayshree Suresh and B. S. Raghavan, S.Chand Publications




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DEPARTMENT OF MANAGEMENT STUDIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Professional Ethics & Human Values	II-II CIVIL	Mrs K Swetha Assistant Professor	23	30	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Human Values		
Week 1	L1	Morals, Values and Ethics-Integrity-Work	Chalk / LCD	22-3-21
	L2	Civic Virtue – Respect for others	Chalk / LCD	23-3-21
	L3	Living Peacefully –Caring –Sharing	Chalk / LCD	24-3-21
Week 2	L4	Honesty -Courage-Cooperation–	Chalk / LCD	27-3-21
	L5	Commitment – Empathy	Chalk / LCD	30-3-21
	L6	Self Confidence Character –Spirituality.	Chalk / LCD	31-3-21
UNIT II		Engineering Ethics	Chalk / LCD	
Week 3	L7	Senses of 'Engineering Ethics	Chalk / LCD	1-4-21
	L8	Types of inquiry – Moral dilemmas –Moral autonomy	Chalk / LCD	3-4-21
	L9	Kohlberg's theory- Consensus and controversy	Chalk / LCD	5-4-21
Week 4	L10	Gilligan's theory-Consensus and controversy	Chalk / LCD	6-4-21
	L11	Models of professional roles	Chalk / LCD	8-4-21
	L12	Uses of Ethical theories –Valuing time	Chalk / LCD	12-4-21
UNIT III		Engineering as Social Experimentation		
Week 5	L13	Framing the problem –Determining the facts	Chalk / LCD	13-4-21
	L14	Codes of Ethics	Chalk / LCD	14-4-21
	L15	Application issues – Common Ground	Chalk / LCD	19-4-21
Week 6	L16	Utilitarian thinking respect for persons.	Chalk / LCD	20-4-21
	UNIT IV	Engineers Responsibility for Safety and Risk	Chalk / LCD	
	L17	Safety and risk	Chalk / LCD	26-4-21
	L18	Assessment of safety and risk	Chalk / LCD	27-4-21
Week	L19	Risk benefit analysis and reducing risk-Safety	Chalk / LCD	28-4-21



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7	L20	the Engineer-Designing for the safety	Chalk / LCD	3-5-21
	L21	Intellectual Property rights (IPR).	Chalk / LCD	4-5-21
Week 8	L22	Intellectual Property rights (IPR).	Chalk / LCD	6-5-21
	UNIT V	Global Issues	Chalk / LCD	
	L23	Globalization	Chalk / LCD	10-5-21
	L24	Cross-culture issues	Chalk / LCD	11-5-21
Week 9	L25	Environmental Ethics	Chalk / LCD	12-5-21
	L26	Computer Ethics	Chalk / LCD	17-5-21
	L27	Computers as the instrument of Unethical behavior	Chalk / LCD	18-5-21
Week 10	L28	Computers as the object of Unethical acts	Chalk / LCD	19-5-21
	L29	Computer codes of Ethics	Chalk / LCD	25-5-21
	L30	Analyzing Ethical Problems in research.	Chalk / LCD	1-6-21

K. Swetha.

Signature of the Faculty:

V. Sai Prasanth,

Signature of the HoD:
Head of the Department
Master of Business Administration
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DEPARTMENT OF MANAGEMENT STUDIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Professional Ethics & Human Values	II-II CSE-A	Mr T Srinivas Assistant Professor	55	30	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Human Values		
Week 1	L1	Morals, Values and Ethics-Integrity-Work	Chalk / LCD	23-3-21
	L2	Civic Virtue – Respect for others	Chalk / LCD	25-3-21
	L3	Living Peacefully –Caring –Sharing	Chalk / LCD	26-3-21
Week 2	L4	Honesty -Courage-Cooperation–	Chalk / LCD	30-3-21
	L5	Commitment – Empathy	Chalk / LCD	1-4-21
	L6	Self Confidence Character –Spirituality.	Chalk / LCD	2-4-21
UNIT II		Engineering Ethics	Chalk / LCD	
Week 3	L7	Senses of 'Engineering Ethics	Chalk / LCD	6-4-21
	L8	Types of inquiry – Moral dilemmas –Moral autonomy	Chalk / LCD	8-4-21
	L9	Kohlberg's theory- Consensus and controversy	Chalk / LCD	9-4-21
Week 4	L10	Gilligan's theory-Consensus and controversy	Chalk / LCD	13-4-21
	L11	Models of professional roles	Chalk / LCD	15-4-21
	L12	Uses of Ethical theories –Valuing time	Chalk / LCD	16-4-21
UNIT III		Engineering as Social Experimentation		
Week 5	L13	Framing the problem –Determining the facts	Chalk / LCD	20-4-21
	L14	Codes of Ethics	Chalk / LCD	22-4-21
	L15	Application issues – Common Ground	Chalk / LCD	23-4-21
Week 6	L16	Utilitarian thinking respect for persons.	Chalk / LCD	27-4-21
	UNIT IV	Engineers Responsibility for Safety and Risk	Chalk / LCD	
	L17	Safety and risk	Chalk / LCD	30-4-21
Week 7	L18	Assessment of safety and risk	Chalk / LCD	4-5-21
	L19	Risk benefit analysis and reducing risk-Safety	Chalk / LCD	6-5-21
	L20	the Engineer-Designing for the safety	Chalk / LCD	7-5-21



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	L21	Intellectual Property rights (IPR).	Chalk / LCD	11-5-21
Week 8	L22	Intellectual Property rights (IPR).	Chalk / LCD	13-5-21
	UNIT V	Global Issues	Chalk / LCD	
	L23	Globalization	Chalk / LCD	18-5-21
	L24	Cross-culture issues	Chalk / LCD	20-5-21
Week 9	L25	Environmental Ethics	Chalk / LCD	21-5-21
	L26	Computer Ethics	Chalk / LCD	25-5-21
	L27	Computers as the instrument of Unethical behavior	Chalk / LCD	27-5-21
Week 10	L28	Computers as the object of Unethical acts	Chalk / LCD	28-5-21
	L29	Computer codes of Ethics	Chalk / LCD	2-6-21
	L30	Analyzing Ethical Problems in research.	Chalk / LCD	9-6-21

Signature of the Faculty:

Signature of the HoD:

Head of the Department
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DEPARTMENT OF MANAGEMENT STUDIES

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Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Professional Ethics & Human Values	II-II CSE-B	Mr T Srinivas Asst.Prof	54	30	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Human Values		
Week 1	L1	Morals, Values and Ethics-Integrity-Work	Chalk / LCD	22-3-21
	L2	Civic Virtue – Respect for others	Chalk / LCD	23-3-21
	L3	Living Peacefully –Caring –Sharing	Chalk / LCD	24-3-21
Week 2	L4	Honesty -Courage-Cooperation–	Chalk / LCD	27-3-21
	L5	Commitment – Empathy	Chalk / LCD	30-3-21
	L6	Self Confidence Character –Spirituality.	Chalk / LCD	31-3-21
UNIT II		Engineering Ethics	Chalk / LCD	
Week 3	L7	Senses of 'Engineering Ethics	Chalk / LCD	1-4-21
	L8	Types of inquiry – Moral dilemmas –Moral autonomy	Chalk / LCD	3-4-21
	L9	Kohlberg's theory- Consensus and controversy	Chalk / LCD	5-4-21
Week 4	L10	Gilligan's theory-Consensus and controversy	Chalk / LCD	6-4-21
	L11	Models of professional roles	Chalk / LCD	8-4-21
	L12	Uses of Ethical theories –Valuing time	Chalk / LCD	12-4-21
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Week 5	L13	Framing the problem –Determining the facts	Chalk / LCD	13-4-21
	L14	Codes of Ethics	Chalk / LCD	14-4-21
	L15	Application issues – Common Ground	Chalk / LCD	19-4-21
Week 6	L16	Utilitarian thinking respect for persons.	Chalk / LCD	20-4-21
	UNIT IV	Engineers Responsibility for Safety and Risk	Chalk / LCD	21-4-21
	L17	Safety and risk	Chalk / LCD	26-4-21
Week	L18	Assessment of safety and risk	Chalk / LCD	27-4-21
	L19	Risk benefit analysis and reducing risk-Safety	Chalk / LCD	28-4-21



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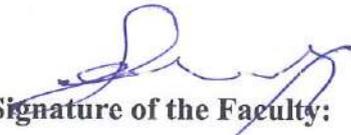
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7	L20	the Engineer-Designing for the safety	Chalk / LCD	3-5-21
	L21	Intellectual Property rights (IPR).	Chalk / LCD	4-5-21
Week 8	L22	Intellectual Property rights (IPR).	Chalk / LCD	6-5-21
	UNIT V	Global Issues	Chalk / LCD	10-5-21
	L23	Globalization	Chalk / LCD	11-5-21
	L24	Cross-culture issues	Chalk / LCD	12-5-21
Week 9	L25	Environmental Ethics	Chalk / LCD	17-5-21
	L26	Computer Ethics	Chalk / LCD	18-5-21
	L27	Computers as the instrument of Unethical behavior	Chalk / LCD	19-5-21
Week 10	L28	Computers as the object of Unethical acts	Chalk / LCD	25-5-21
	L29	Computer codes of Ethics	Chalk / LCD	1-6-21
	L30	Analyzing Ethical Problems in research.	Chalk / LCD	8-6-21


Signature of the Faculty:


Signature of the HoD:

Head of the Department
Master of Business Administration
AVANTHI INSTITUTE OF ENGG. & TECH.
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DEPARTMENT OF MANAGEMENT STUDIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Professional Ethics & Human Values	II-II CSE-C	Mr T Srinivas Asst.Prof	49	30	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Human Values		
Week 1	L1	Morals, Values and Ethics-Integrity-Work	Chalk / LCD	23-3-21
	L2	Civic Virtue – Respect for others	Chalk / LCD	25-3-21
	L3	Living Peacefully –Caring –Sharing	Chalk / LCD	26-3-21
Week 2	L4	Honesty -Courage-Cooperation–	Chalk / LCD	30-3-21
	L5	Commitment – Empathy	Chalk / LCD	1-4-21
	L6	Self Confidence Character –Spirituality.	Chalk / LCD	2-4-21
UNIT II		Engineering Ethics	Chalk / LCD	
Week 3	L7	Senses of 'Engineering Ethics	Chalk / LCD	6-4-21
	L8	Types of inquiry – Moral dilemmas –Moral autonomy	Chalk / LCD	8-4-21
	L9	Kohlberg's theory- Consensus and controversy	Chalk / LCD	9-4-21
Week 4	L10	Gilligan's theory-Consensus and controversy	Chalk / LCD	13-4-21
	L11	Models of professional roles	Chalk / LCD	15-4-21
	L12	Uses of Ethical theories –Valuing time	Chalk / LCD	16-4-21
UNIT III		Engineering as Social Experimentation		
Week 5	L13	Framing the problem –Determining the facts	Chalk / LCD	20-4-21
	L14	Codes of Ethics	Chalk / LCD	22-4-21
	L15	Application issues – Common Ground	Chalk / LCD	23-4-21
Week 6	L16	Utilitarian thinking respect for persons.	Chalk / LCD	27-4-21
	UNIT IV	Engineers Responsibility for Safety and Risk	Chalk / LCD	29-4-21
	L17	Safety and risk	Chalk / LCD	30-4-21
Week 7	L18	Assessment of safety and risk	Chalk / LCD	4-5-21
	L19	Risk benefit analysis and reducing risk-Safety	Chalk / LCD	6-5-21
	L20	the Engineer-Designing for the safety	Chalk / LCD	7-5-21



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Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Professional Ethics & Human Values	II-II EEE	Mr T Srinivas Assistant Professor	54	30	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Human Values		
Week 1	L1	Morals, Values and Ethics-Integrity-Work	Chalk / LCD	22-3-21
	L2	Civic Virtue – Respect for others	Chalk / LCD	23-3-21
	L3	Living Peacefully –Caring –Sharing	Chalk / LCD	24-3-21
Week 2	L4	Honesty -Courage-Cooperation–	Chalk / LCD	27-3-21
	L5	Commitment – Empathy	Chalk / LCD	30-3-21
	L6	Self Confidence Character –Spirituality.	Chalk / LCD	31-3-21
UNIT II		Engineering Ethics	Chalk / LCD	
Week 3	L7	Senses of 'Engineering Ethics	Chalk / LCD	1-4-21
	L8	Types of inquiry – Moral dilemmas –Moral autonomy	Chalk / LCD	3-4-21
	L9	Kohlberg's theory- Consensus and controversy	Chalk / LCD	5-4-21
Week 4	L10	Gilligan's theory-Consensus and controversy	Chalk / LCD	6-4-21
	L11	Models of professional roles	Chalk / LCD	8-4-21
	L12	Uses of Ethical theories –Valuing time	Chalk / LCD	12-4-21
UNIT III		Engineering as Social Experimentation		
Week 5	L13	Framing the problem –Determining the facts	Chalk / LCD	13-4-21
	L14	Codes of Ethics	Chalk / LCD	14-4-21
	L15	Application issues – Common Ground	Chalk / LCD	19-4-21
Week 6	L16	Utilitarian thinking respect for persons.	Chalk / LCD	20-4-21
	UNIT IV	Engineers Responsibility for Safety and Risk	Chalk / LCD	21-4-21
	L17	Safety and risk	Chalk / LCD	26-4-21
Week 7	L18	Assessment of safety and risk	Chalk / LCD	27-4-21
	L19	Risk benefit analysis and reducing risk-Safety	Chalk / LCD	28-4-21
	L20	the Engineer-Designing for the safety	Chalk / LCD	3-5-21



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Week 8	L21	Intellectual Property rights (IPR).	Chalk / LCD	4-5-21
	L22	Intellectual Property rights (IPR).	Chalk / LCD	6-5-21
	UNIT V	Global Issues	Chalk / LCD	10-5-21
	L23	Globalization	Chalk / LCD	11-5-21
Week 9	L24	Cross-culture issues	Chalk / LCD	12-5-21
	L25	Environmental Ethics	Chalk / LCD	17-5-21
	L26	Computer Ethics	Chalk / LCD	18-5-21
Week 10	L27	Computers as the instrument of Unethical behavior	Chalk / LCD	19-5-21
	L28	Computers as the object of Unethical acts	Chalk / LCD	25-5-21
	L29	Computer codes of Ethics	Chalk / LCD	1-6-21
	L30	Analyzing Ethical Problems in research.	Chalk / LCD	8-6-21

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Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Professional Ethics & Human Values	ECE III-I Sem	M Roopsundar Asst.Prof.	60	30	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Human Values		
Week 1	L1	Morals, Values and Ethics-Integrity-Work	Chalk / LCD	2-11-2020
	L2	Civic Virtue – Respect for others	Chalk / LCD	3-11-2020
	L3	Living Peacefully –Caring –Sharing	Chalk / LCD	4-11-2020
Week 2	L4	Honesty –Courage-Cooperation–	Chalk / LCD	9-11-2020
	L5	Commitment – Empathy	Chalk / LCD	11-11-2020
	L6	Self Confidence Character –Spirituality.	Chalk / LCD	12-11-2020
UNIT II		Engineering Ethics	Chalk / LCD	
Week 3	L7	Senses of 'Engineering Ethics	Chalk / LCD	16-11-2020
	L8	Types of inquiry – Moral dilemmas –Moral autonomy	Chalk / LCD	18-11-2020
	L9	Kohlberg's theory- Consensus and controversy	Chalk / LCD	23-11-2020
Week 4	L10	Gilligan's theory-Consensus and controversy	Chalk / LCD	25-11-2020
	L11	Models of professional roles	Chalk / LCD	26-11-2020
	L12	Uses of Ethical theories –Valuing time	Chalk / LCD	2-12-2020
UNIT III		Engineering as Social Experimentation		
Week 5	L13	Framing the problem –Determining the facts	Chalk / LCD	3-12-2020
	L14	Codes of Ethics	Chalk / LCD	4-12-2020
	L15	Application issues – Common Ground	Chalk / LCD	7-12-2020
Week 6	L16	Utilitarian thinking respect for persons.	Chalk / LCD	8-12-2020
	UNIT IV	Engineers Responsibility for Safety and Risk	Chalk / LCD	9-12-2020
	L17	Safety and risk	Chalk / LCD	14-12-2020
Week 6	L18	Assessment of safety and risk	Chalk / LCD	16-12-2020
	L19	Risk benefit analysis and reducing risk-Safety	Chalk / LCD	21-12-2020



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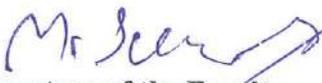
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7	L20	the Engineer-Designing for the safety	Chalk / LCD	23-12-2020
	L21	Intellectual Property rights (IPR).	Chalk / LCD	28-12-2020
Week 8	L22	Intellectual Property rights (IPR).	Chalk / LCD	29-12-2020
	UNIT V	Global Issues	Chalk / LCD	
	L23	Globalization	Chalk / LCD	30-12-2020
	L24	Cross-culture issues	Chalk / LCD	4-1-2021
Week 9	L25	Environmental Ethics	Chalk / LCD	6-1-2021
	L26	Computer Ethics	Chalk / LCD	11-1-2021
	L27	Computers as the instrument of Unethical behavior	Chalk / LCD	18-1-2021
Week 10	L28	Computers as the object of Unethical acts	Chalk / LCD	20-1-2021
	L29	Computer codes of Ethics	Chalk / LCD	3-2-2021
	L30	Analyzing Ethical Problems in research.	Chalk / LCD	10-2-2021


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Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Professional Ethics & Human Values	EEE III-II Sem	Mrs R Vasantha Laxmi Assistant Professor	58	30	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Human Values		
Week 1	L1	Morals, Values and Ethics-Integrity-Work	Chalk / LCD	2-11-2020
	L2	Civic Virtue – Respect for others	Chalk / LCD	3-11-2020
	L3	Living Peacefully –Caring –Sharing	Chalk / LCD	4-11-2020
Week 2	L4	Honesty -Courage-Cooperation–	Chalk / LCD	9-11-2020
	L5	Commitment – Empathy	Chalk / LCD	10-11-2020
	L6	Self Confidence Character –Spirituality.	Chalk / LCD	11-11-2020
UNIT II		Engineering Ethics	Chalk / LCD	
Week 3	L7	Senses of 'Engineering Ethics	Chalk / LCD	17-11-2020
	L8	Types of inquiry – Moral dilemmas –Moral autonomy	Chalk / LCD	18-11-2020
	L9	Kohlberg's theory- Consensus and controversy	Chalk / LCD	
Week 4	L10	Gilligan's theory-Consensus and controversy	Chalk / LCD	23-11-2020
	L11	Models of professional roles	Chalk / LCD	24-11-2020
	L12	Uses of Ethical theories –Valuing time	Chalk / LCD	25-11-2020
UNIT III		Engineering as Social Experimentation		
Week 5	L13	Framing the problem –Determining the facts	Chalk / LCD	2-12-2020
	L14	Codes of Ethics	Chalk / LCD	3-12-2020
	L15	Application issues – Common Ground	Chalk / LCD	7-12-2020
Week 6	L16	Utilitarian thinking respect for persons.	Chalk / LCD	8-12-2020
	UNIT IV	Engineers Responsibility for Safety and Risk	Chalk / LCD	9-12-2020
	L17	Safety and risk	Chalk / LCD	
Week 6	L18	Assessment of safety and risk	Chalk / LCD	14-12-2020
	L19	Risk benefit analysis and reducing risk-Safety	Chalk / LCD	15-12-2020



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7	L20	the Engineer-Designing for the safety	Chalk / LCD	16-12-2020
	L21	Intellectual Property rights (IPR).	Chalk / LCD	21-12-2020
Week 8	L22	Intellectual Property rights (IPR).	Chalk / LCD	22-12-2020
	UNIT V	Global Issues	Chalk / LCD	23-12-2020
	L23	Globalization	Chalk / LCD	28-12-2020
	L24	Cross-culture issues	Chalk / LCD	29-12-2020
Week 9	L25	Environmental Ethics	Chalk / LCD	30-12-2020
	L26	Computer Ethics	Chalk / LCD	3-1-2021
	L27	Computers as the instrument of Unethical behavior	Chalk / LCD	4-1-2021
Week 10	L28	Computers as the object of Unethical acts	Chalk / LCD	5-1-2021
	L29	Computer codes of Ethics	Chalk / LCD	6-1-2021
	L30	Analyzing Ethical Problems in research.	Chalk / LCD	18-1-2021

Signature of the Faculty:

Signature of the HoD:

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Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Professional Ethics & Human Values	CSE -A III-I Sem	Mr T Srinivas Assistant Professor	49	30	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Human Values		
Week 1	L1	Morals, Values and Ethics-Integrity-Work	Chalk / LCD	2-11-2020
	L2	Civic Virtue – Respect for others	Chalk / LCD	3-11-2020
	L3	Living Peacefully –Caring –Sharing	Chalk / LCD	4-11-2020
Week 2	L4	Honesty -Courage-Cooperation–	Chalk / LCD	9-11-2020
	L5	Commitment – Empathy	Chalk / LCD	11-11-2020
	L6	Self Confidence Character –Spirituality.	Chalk / LCD	12-11-2020
UNIT II		Engineering Ethics	Chalk / LCD	
Week 3	L7	Senses of 'Engineering Ethics	Chalk / LCD	16-11-2020
	L8	Types of inquiry – Moral dilemmas –Moral autonomy	Chalk / LCD	18-11-2020
	L9	Kohlberg's theory- Consensus and controversy	Chalk / LCD	23-11-2020
Week 4	L10	Gilligan's theory-Consensus and controversy	Chalk / LCD	25-11-2020
	L11	Models of professional roles	Chalk / LCD	26-11-2020
	L12	Uses of Ethical theories –Valuing time	Chalk / LCD	2-12-2020
UNIT III		Engineering as Social Experimentation		
Week 5	L13	Framing the problem –Determining the facts	Chalk / LCD	3-12-2020
	L14	Codes of Ethics	Chalk / LCD	4-12-2020
	L15	Application issues – Common Ground	Chalk / LCD	7-12-2020
Week 6	L16	Utilitarian thinking respect for persons.	Chalk / LCD	8-12-2020
	UNIT IV	Engineers Responsibility for Safety and Risk	Chalk / LCD	9-12-2020
	L17	Safety and risk	Chalk / LCD	14-12-2020
Week 6	L18	Assessment of safety and risk	Chalk / LCD	16-12-2020
	L19	Risk benefit analysis and reducing risk-Safety	Chalk / LCD	21-12-2020



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7	L20	the Engineer-Designing for the safety	Chalk / LCD	23-12-2020
	L21	Intellectual Property rights (IPR).	Chalk / LCD	28-12-2020
Week 8	L22	Intellectual Property rights (IPR).	Chalk / LCD	29-12-2020
	UNIT V	Global Issues	Chalk / LCD	
	L23	Globalization	Chalk / LCD	30-12-2020
	L24	Cross-culture issues	Chalk / LCD	4-1-2021
Week 9	L25	Environmental Ethics	Chalk / LCD	6-1-2021
	L26	Computer Ethics	Chalk / LCD	11-1-2021
	L27	Computers as the instrument of Unethical behavior	Chalk / LCD	18-1-2021
Week 10	L28	Computers as the object of Unethical acts	Chalk / LCD	20-1-2021
	L29	Computer codes of Ethics	Chalk / LCD	3-2-2021
	L30	Analyzing Ethical Problems in research.	Chalk / LCD	10-2-2021

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					Lectures	Tutorials
MC	Professional Ethics & Human Values	CSE-B III-I Sem	Mr T Srinivas Asst.Prof	49	30	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Human Values		
Week 1	L1	Morals, Values and Ethics-Integrity-Work	Chalk / LCD	2-11-2020
	L2	Civic Virtue – Respect for others	Chalk / LCD	3-11-2020
	L3	Living Peacefully –Caring –Sharing	Chalk / LCD	4-11-2020
Week 2	L4	Honesty -Courage-Cooperation-	Chalk / LCD	9-11-2020
	L5	Commitment – Empathy	Chalk / LCD	11-11-2020
	L6	Self Confidence Character –Spirituality.	Chalk / LCD	12-11-2020
UNIT II		Engineering Ethics	Chalk / LCD	
Week 3	L7	Senses of 'Engineering Ethics	Chalk / LCD	16-11-2020
	L8	Types of inquiry – Moral dilemmas –Moral autonomy	Chalk / LCD	18-11-2020
	L9	Kohlberg's theory- Consensus and controversy	Chalk / LCD	23-11-2020
Week 4	L10	Gilligan's theory-Consensus and controversy	Chalk / LCD	25-11-2020
	L11	Models of professional roles	Chalk / LCD	26-11-2020
	L12	Uses of Ethical theories –Valuing time	Chalk / LCD	2-12-2020
UNIT III		Engineering as Social Experimentation		
Week 5	L13	Framing the problem –Determining the facts	Chalk / LCD	3-12-2020
	L14	Codes of Ethics	Chalk / LCD	4-12-2020
	L15	Application issues – Common Ground	Chalk / LCD	7-12-2020
Week 6	L16	Utilitarian thinking respect for persons.	Chalk / LCD	8-12-2020
	UNIT IV	Engineers Responsibility for Safety and Risk	Chalk / LCD	9-12-2020
	L17	Safety and risk	Chalk / LCD	14-12-2020
Week 6	L18	Assessment of safety and risk	Chalk / LCD	16-12-2020
	L19	Risk benefit analysis and reducing risk-Safety	Chalk / LCD	21-12-2020



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7	L20	the Engineer-Designing for the safety	Chalk / LCD	23-12-2020
	L21	Intellectual Property rights (IPR).	Chalk / LCD	28-12-2020
Week 8	L22	Intellectual Property rights (IPR).	Chalk / LCD	29-12-2020
	UNIT V	Global Issues	Chalk / LCD	
	L23	Globalization	Chalk / LCD	30-12-2020
	L24	Cross-culture issues	Chalk / LCD	4-1-2021
Week 9	L25	Environmental Ethics	Chalk / LCD	6-1-2021
	L26	Computer Ethics	Chalk / LCD	11-1-2021
	L27	Computers as the instrument of Unethical behavior	Chalk / LCD	18-1-2021
Week 10	L28	Computers as the object of Unethical acts	Chalk / LCD	20-1-2021
	L29	Computer codes of Ethics	Chalk / LCD	3-2-2021
	L30	Analyzing Ethical Problems in research.	Chalk / LCD	10-2-2021

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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS: III BTECH I SEM

MECH-A

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	DOM	MCMT	DMM-II	LUNCH	TOM/TE-LAB			
TUE	MCMT	DOM	MCMT		OR	TUTORIAL CLASSES	LIBRARY	
WED	DMM-II	OR	TE-II		TE/MT LAB			
THU	OR	TE-II	DMM-II		DOM	MCMT	IPR	CRT
FRI	TE-II	OR	DMM-II		DOM	MCMT	OR	SPORTS
SAT	TE-II	TE-II	IPR		TOM/MT LAB			

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	P. Suresh Kumar	Assistant professor	Dynamics of Machinery	Mechanical
2	N Venkatesh	Assistant Professor	Metal Cutting & Machine Tools	Mechanical
3	K.Jaswanth	Assistant professor	Design of Machine Members-II	Mechanical
4	M.Venkatesh	Assistant professor	Operations Research	Mechanical



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5	K.Sarika	Assistant professor	Thermal Engineering -II	Mechanical
6	V.Vara Lakshmi	Assistant Professor	Theory of Machines Lab	Mechanical
7	B.Venkata Naidu	Assistant Professor	Machine Tools Lab	Mechanical
8	P.Anil Kumar	Assistance Professor	Thermal Engineering Lab	Mechanical
9	M.Anusha kumari	Assistant professor	IPR & Patents	M.B.A
10	B.Venkata Naidu	Assistant professor	Class Incharges	Mechanical

HOD-MECH

HOD

MECHANICAL DEPARTMENT
AVANTHI INSTITUTE OF ENGG. & TEC
Bhogapuram (M), Vizianagaram (Dist.)

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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS:III BTECH I SEM

MECH-B

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	DOM	MCMT	DMM-II	LUNCH	TOM/TE-LAB			
TUE	MCMT	DOM	MCMT		OR	TUTORIAL CLASSES	LIBRARY	
WED	DMM-II	OR	TE-II		TE/MT LAB			
THU	OR	TE-II	DMM-II		DOM	MCMT	IPR	CRT
FRI	TE-II	OR	DMM-II		DOM	MCMT	OR	SPORTS
SAT	TE-II	TE-II	IPR		TOM/MT LAB			

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	K.Deepthi	Assistant professor	Dynamics of Machinery	Mechanical
2	M.Raghava Rao	Associate professor	Metal Cutting & Machine Tools	Mechanical
3	L.Bhavani Shankar	Assistant Professor	Design of Machine Members-II	Mechanical
4	G.Ramanjanayulu	Assistant Professor	Operations Research	Mechanical
5	SHIEK HIDAYATULLA SHARIFF	Associate Professor	Thermal Engineering -II	Mechanical
6	K.Deepthi	Assistant Professor	Theory of Machines	Mechanical



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			Lab	
7	M.Raghava Rao	Associate professor	Machine Tools Lab	Mechanical
8	SHIEK HIDAYATULLA SHARIFF	Associate Professor	Thermal Engineering Lab	Mechanical
9	T.Srinivasa Rao	Associate professor	IPR & Patents	M.B.A
10	L.Bhavani Shankar	Assistant professor	Class Incharges	Mechanical

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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS:III BTECH I SEM

MECH-C

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	MCMT	DMM-II	DOM	LUNCH	OR	TUTORIAL CLASSES		SPORTS
TUE	DMM-II	MCMT	DOM		TE-II	IPR	OR	CRT
WED	DOM	MCMT			TE/MT LAB			
THU	OR	DOM	DMM-II		TOM/MT LAB			
FRI		MCMT	OR		TOM/TE-LAB			
SAT	OR	DMM-II	DOM		TE-II	MCMT	IPR	LIBRARY

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	P.Suresh	Assistant Professor	Dynamics of Machinery	Mechanical
2	T.Mahendra Rao	Assistance Professor	Metal Cutting & Machine Tools	Mechanical
3	L.Bhavani Shankar	Assistance Professoee	Design of Machine Members-II	Mechanical
4	G.Ramanjulayulu	Assistance Professor	Operations Research	Mechanical



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5	P.Anil Kumar	Assistance Professor	Thermal Engineering -II	Mechanical
6	T.Mahendra Rao	Assistance Professor	Theory of Machines Lab	Mechanical
7	P.Suresh	Assistance Professor	Machine Tools Lab	Mechanical
8	T.Mahendra Rao	Assistance Professor	Thermal Engineering Lab	Mechanical
9	S.Suman Datta	Assistance Professor	IPR & Patents	M.B.A
10	T.Mahendra Rao	Assistant professor	Class Incharges	Mechanical

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS:III BTECH I SEM

EEE

Class in- charge- D. Dhana Prasad								
DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	PS-II	IPR	PDC	LUNCH	EM LAB			
TUE	RES	PDC	S&S		PS-II	TUTORIAL CLASSES	S&S	LIBRARY
WED	S&S	S&S	PS-II		EM-II LAB			
THU	PDC	RES	PE		RES	IPR	PDC	CRT
FRI	PE	PS-II	PDC		S&S	PE	RES	SPORTS
SAT	PS-II	IPR	RES		CS LAB			

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	A.Arjun Rao	Asso.Prof.	Power Systems-II	EEE
2	D.Dhana Prasad	Asst.Prof	Renewable Energy Sources	EEE
3	S.S.Bhavani	Asst.Prof	Signals and Systems	ECE
4	S.Dayasagar	Asst.Prof	Pulse & Digital Circuits	ECE
5	Dr.S.N.V.Ganesh	Professor	Power Electronics	EEE
6	B.Anand swaroop	Asst.Prof	Electrical Machines-II Laboratory	EEE
7	V.Sudhakar	Asst.Prof	Control Systems Laboratory	EEE
8	G.Giridhar Reddy	Asst.Prof.	Electrical Measurements Laboratory	EEE



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9.	Rajini	Asst. Prof	Campus Recruitment Training	Training & Placement
10	S. Suman Datta	Asst. Prof	IPR& Patents	MBA


HOD-EEE


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CLASS TIME TABLE AY :2020-2021

CLASS:III B.Tech- II SEM

w.e.f:22-03-2021

Class Incharge: Mrs G.Bulie Divya								
DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MON	MPMC	MWE	VLSI	LUNCH	DSP	BME	CRT	Library
TUE	MWE	VLSI	MPMC		DSP	VLSI/MPMC Lab		
WED	MPMC/DC Lab				CRT	BME		MPMC
THU	VLSI	DSP	MPMC		BME	MWE	MPMC	SPORTS
FRI	DSP	MWE	VLSI		MWE	Tutorial Classes		
SAT	BME	MPMC	MWE		IPR& Patents	DC/VLSI Lab		

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT/LAB	DEPARTMENT
1	Mrs B.Suneetha	Asst Prof	Micro Processors and Micro Controllers	ECE
2	Mr B.Srinu	Asst Prof	Micro Wave Engineering	ECE
3	Mrs K.Syamala	Asst Prof	VLSI Design	ECE
4	Mrs G.Bulie Divya	Asst Prof	Digital Signal Processing	ECE
5	Mr V.Suresh	Asst Prof	Bio Medical Engineering	ECE



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6	Mrs N.Hema Latha	Asst Prof	CRT	BS&H
7	Mr S.Suman Dutta	Asst Prof	IPR& Patents	MBA
8	Mr B.Srinu/ Mr P.Shyam Kumar	Asst Prof	VLSI Design Lab	ECE
9	Mr K.Suribabu/ Ms G.Buela Divya	Asst Prof	Digital Communications Lab	ECE
10	Mrs B.Suneetha/ Mrs B.T. R.Prasuna	Asst Prof	Micro Processors and Micro Controllers Lab	ECE

HOD-ECE

Head of the Department
Electronics and Communication Engineering
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS:III BTECH II SEM

SEC A

w.e.f.: 22-03-2021

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	CN	DWDM	DAA	LUNCH	STM	CS	CS	SPORTS
TUE	CS	DAA	DWDM		CN	NP LAB		
WED	DWDM LAB				CN	STM	CS	LIBRARY
THU	STM	DWDM	CN		DAA	ST LAB		
FRI	CN	DWDM	DAA		STM	CRT	IPR & PATENTS	
SAT	DAA	STM	STM		CN	CS	T	

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Akula Swathi	Assistant Professor	Computer Networks	CSE
2	Pathivada Monika	Assistant Professor	Data Warehousing and data Mining	CSE
3	Gangiraju Kanaka Maha Lakshmi	Assistant Professor	Design Analysis and Algorithms	CSE
4	T.V.Prasad	Assistant Professor	Software Testing Management	CSE
5	Etyala Ramya Sree	Assistant Professor	Cyber Security	CSE
6	Roop Sundar	Assistant Professor	Campus Recruitment Training	Training & Placement
7	Etyala Ramya Sree	Assistant Professor	Network Programming LAB	CSE
8	T.V.Prasad	Assistant Professor	Software Testing LAB	CSE



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9	Pathivada Monika	Assistant Professor	Data Warehousing and data Mining LAB	CSE
10	Yerrayya Reddy	Associate Professor	IPR & PATENTS	MBA
11	Pathivada Monika	Assistant Professor	Class Incharge	CSE


HOD-CSE

Head of the Department
Computer Science and Engineering
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS:III BTECH II SEM

SEC B

w.e.f.: 22-03-2021

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	CN	DWDM	DAA	LUNCH	STM	CS	CS	LIBRARY
TUE	CS	DAA	DWDM		CN	NP LAB		
WED	DWDM LAB				CN	STM	CRT	SPORTS
THU	STM	DWDM	CN		DAA	ST LAB		
FRI	CN	DWDM	DAA		SIM	CS	T	
SAT	DAA	STM	STM		CN	CS	IPR & PATENTS	

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Rajasekharam Bonthu	Assistant Professor	Computer Networks	CSE
2	Sambarika Prasad	Assistant Professor	Data Warehousing and data Mining	CSE
3	Uma Mythraye	Assistant Professor	Design Analysis and Algorithms	CSE
4	Thota Paramesh	Assistant Professor	Software Testing Management	CSE
5	Mishra Sangita	Assistant Professor	Cyber Security	CSE
6	Roop Sundar	Assistant Professor	Campus Recruitment Training	Training & Placement
7	Mishra Sangita	Assistant Professor	Network Programming LAB	CSE



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8	Thota Paramesh	Assistant Professor	Software Testing LAB	CSE
9	Sambarika Prasad	Assistant Professor	Data Warehousing and data Mining LAB	CSE
10	Yerrayya Reddy	Associate Professor	IPR & PATENTS	MBA
11	Thota Paramesh	Assistant Professor	Class Incharge	CSE

HOD-CSE

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III Year - I Semester

S.No.	Subjects	L	T	P	Credits
1	Computer Architecture and Organization	4	--	--	3
2	Linear I C Applications	4	--	--	3
3	Digital I C Applications	4	--	--	3
4	Digital Communications	4	--	--	3
5	Antenna and Wave Propagation	4	--	--	3
6	Pulse and Digital Circuits Lab	--	--	3	2
7	Linear I C Applications Lab	--	--	3	2
8	Digital I C Applications Lab	--	--	3	2
MC	Professional Ethics & Human Values	--	3	--	--
Total Credits					21

III Year - II Semester

S.No.	Subjects	L	T	P	Credits
1	Micro Processors & Micro Controllers	4	--	--	3
2	Micro Wave Engineering	4	--	--	3
3	VLSI Design	4	--	--	3
4	Digital Signal Processing	4	--	--	3
5	OPEN ELECTIVE 1. OOPs through Java 2. Data Mining 3. Industrial Robotics 4. Power Electronics 5. Bio-Medical Engineering 6. Artificial Neural Networks	4	--	--	3
6	Micro Processors & Micro Controllers Lab	--	--	3	2
7	VLSI Lab	--	--	3	2
8	Digital Communications Lab	--	--	3	2
MC	IPR & Patents	--	2	--	--
Total Credits					21

III Year - II Semester

L	T	P	C
0	2	0	0

INTELLECTUAL PROPERTY RIGHTS AND PATENTS

UNIT I: Introduction to Intellectual Property Rights (IPR)

Concept of Property - Introduction to IPR – International Instruments and IPR - WIPO - TRIPS – WTO -Law Relating to IPR - IPR Tool Kit - Protection and Regulation - Copyrights and Neighboring Rights – Industr Property – Patents - Agencies for IPR Registration – Traditional Knowledge –Emerging Areas of IPR - Layc Designs and Integrated Circuits – Use and Misuse of Intellectual Property Rights.

UNIT II: Copyrights and Neighboring Rights

Introduction to Copyrights – Principles of Copyright Protection – Law Relating to Copyrights - Subject Matters Copyright – Copyright Ownership – Transfer and Duration – Right to Prepare Derivative Works –Rights Distribution – Rights of Performers – Copyright Registration – Limitations – Infringement of Copyright – Reli and Remedy – Case Law - Semiconductor Chip Protection Act.

UNIT III: Patents

Introduction to Patents - Laws Relating to Patents in India – Patent Requirements – Product Patent and Proce Patent - Patent Search - Patent Registration and Granting of Patent - Exclusive Rights – Limitations - Ownersh and Transfer — Revocation of Patent – Patent Appellate Board - Infringement of Patent – Double Patenting . Patent Cooperation Treaty – New developments in Patents – Software Protection and Computer related Innovation

UNIT IV: Trademarks

Introduction to Trademarks – Laws Relating to Trademarks – Functions of Trademark – Distinction betwe Trademark and Property Mark – Marks Covered under Trademark Law - Trade Mark Registration – Trade Ma Maintenance – Transfer of rights - Deceptive Similarities - Likelihood of Confusion - Dilution of Ownership Trademarks Claims and Infringement – Remedies – Passing Off Action.

UNIT V: Trade Secrets

Introduction to Trade Secrets – General Principles - Laws Relating to Trade Secrets - Maintaining Trade Secret Physical Security – Employee Access Limitation – Employee Confidentiality Agreements – Breach of Contract Law of Unfair Competition – Trade Secret Litigation – Applying State Law.

UNIT VI: Cyber Law and Cyber Crime

Introduction to Cyber Law – Information Technology Act 2000 - Protection of Online and Computer Transaction: E-commerce - Data Security – Authentication and Confidentiality - Privacy - Digital Signatures – Certifyi Authorities - Cyber Crimes - Prevention and Punishment – Liability of Network Providers.

- Relevant Cases Shall be dealt where ever necessary.

References:

1. Intellectual Property Rights (Patents & Cyber Law), Dr. A. Srinivas. Oxford University Press, New Delhi.
2. Deborah E.Bouchoux: Intellectual Property, Cengage Learning, New Delhi.
3. PrabhuddhaGanguli: Intellectual Property Rights, Tata Mc-Graw –Hill, New Delhi
4. Richard Stim: Intellectual Property, Cengage Learning, New Delhi.
5. Kompal Bansal &Parishit Bansal Fundamentals of IPR for Engineers, B. S. Publications (Press).
6. Cyber Law - Texts & Cases, South-Western's Special Topics Collections.
7. R.Radha Krishnan, S.Balasubramanian: Intellectual Property Rights, Excel Books. New Delhi.
8. M.Ashok Kumar and MohdIqbal Ali: Intellectual Property Rights, Serials Pub.




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DEPARTMENT OF MANAGEMENT STUDIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	IPR & Patents	III-II ECE	Mr S Suman Datta Assistant Professor	60	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to Intellectual Property Rights (IPR)		
Week 1	L1	Concept of Property - Introduction to IPR	Chalk / LCD	22-3-21
	L2	International Instruments and IPR - WIPO - TRIPS - WTO	Chalk / LCD	23-3-21
Week 2	L3	IPR Tool Kit - Protection and Regulation - Copyrights	Chalk / LCD	27-3-21
	L4	Industrial Property - Patents	Chalk / LCD	30-3-21
Week 3	L5	Traditional Knowledge - Emerging Areas of IPR	Chalk / LCD	6-4-21
	L6	Use and Misuse of Intellectual Property Rights	Chalk / LCD	13-4-21
UNIT II		Copyrights and Neighboring Rights		
Week 4	L7	Principles of Copyright Protection - Law Relating to Copyrights	Chalk / LCD	14-4-21
	L8	Subject Matters of Copyright	Chalk / LCD	14-4-21
Week 5	L9	Right to Prepare Derivative Works	Chalk / LCD	21-4-21
	L10	Copyright Registration - Limitations	Chalk / LCD	21-4-21
Week 6	L11	Infringement of Copyright - Relief and Remedy	Chalk / LCD	28-4-21
	L12	Semiconductor Chip Protection Act.	Chalk / LCD	29-4-21
UNIT III		Patents		
Week 7	L13	Introduction to Patents - Laws Relating to Patent in India	Chalk / LCD	5-5-21
	L14	Patent Requirements - Product Patent and Process Patent	Chalk / LCD	6-5-21
Week 8	L15	Patent Registration and Granting of Patent	Chalk / LCD	7-5-21
	L16	Exclusive Rights - Limitations - Ownership	Chalk / LCD	11-5-21
Week 9	L17	Patent Cooperation Treaty - New developments Patents	Chalk / LCD	12-5-21
	L18	Software Protection and Computer related Innovations.	Chalk / LCD	13-5-21



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UNIT IV		Trademarks		
Week 10	L19	Laws Relating to Trademarks – Functions of Trademark	Chalk / LCD	18-5-21
	L20	Marks Covered under Trademark Law - Trade Mark Registration	Chalk / LCD	25-5-21
Week 11	L21	Transfer of rights - Deceptive Similarities	Chalk / LCD	26-5-21
	L22	Trademarks Claims and Infringement – Remedies – Passing Off Action.	Chalk / LCD	2-6-21
UNIT V		Trade Secrets		
Week 12	L23	General Principles - Laws Relating to Trade Secrets	Chalk / LCD	5-6-21
	L24	Employee Access Limitation – Employee Confidentiality Agreements	Chalk / LCD	8-6-21
Week 13	L25	Law of Unfair Competition – Trade Secret Litigation	Chalk / LCD	9-6-21
	UNIT VI	Cyber Law and Cyber Crime		
	L26	Information Technology Act 2000, E-commerce - Data Security	Chalk / LCD	15-6-21
	L27	Confidentiality - Privacy - Digital Signatures	Chalk / LCD	18-6-21
	L28	Prevention and Punishment – Liability of Network Providers	Chalk / LCD	30-6-21

Signature of the Faculty:

Signature of the HOD:

Head of the Department
Master of Business Administration
AVANTHI INSTITUTE OF ENGG. & TECH.
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Vizianagaram (M), Vizianagaram (D)-531162



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DEPARTMENT OF MANAGEMENT STUDIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	IPR & Patents	III-I Mech-A	Mrs M Anusha Kumari	51	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to Intellectual Property Rights (IPR)		
Week 1	L1	Concept of Property - Introduction to IPR	Chalk / LCD	2-11-2020
	L2	International Instruments and IPR - WIPO - TRIPS - WTO	Chalk / LCD	3-11-2020
Week 2	L3	IPR Tool Kit - Protection and Regulation - Copyrights	Chalk / LCD	4-11-2020
	L4	Industrial Property - Patents	Chalk / LCD	9-11-2020
Week 3	L5	Traditional Knowledge - Emerging Areas of IPR	Chalk / LCD	11-11-2020
	L6	Use and Misuse of Intellectual Property Rights	Chalk / LCD	12-11-2020
UNIT II		Copyrights and Neighboring Rights		
Week 4	L7	Principles of Copyright Protection - Law Relating to Copyrights	Chalk / LCD	16-11-2020
	L8	Subject Matters of Copyright	Chalk / LCD	18-11-2020
Week 5	L9	Right to Prepare Derivative Works	Chalk / LCD	23-11-2020
	L10	Copyright Registration - Limitations	Chalk / LCD	25-11-2020
Week 6	L11	Infringement of Copyright - Relief and Remedy	Chalk / LCD	26-11-2020
	L12	Semiconductor Chip Protection Act.	Chalk / LCD	2-12-2020
UNIT III		Patents		
Week 7	L13	Introduction to Patents - Laws Relating to Patents in India	Chalk / LCD	3-12-2020
	L14	Patent Requirements - Product Patent and Process Patent	Chalk / LCD	4-12-2020
Week 8	L15	Patent Registration and Granting of Patent	Chalk / LCD	7-12-2020
	L16	Exclusive Rights - Limitations - Ownership	Chalk / LCD	8-12-2020
Week 9	L17	Patent Cooperation Treaty - New developments in Patents	Chalk / LCD	9-12-2020
	L18	Software Protection and Computer related Innovations.	Chalk / LCD	14-12-2020



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UNIT IV		Trademarks		
Week 10	L19	Laws Relating to Trademarks – Functions of Trademark	Chalk / LCD	21-12-2020
	L20	Marks Covered under Trademark Law - Trade Mark Registration	Chalk / LCD	23-12-2020
Week 11	L21	Transfer of rights - Deceptive Similarities	Chalk / LCD	28-12-2020
	L22	Trademarks Claims and Infringement – Remedies – Passing Off Action.	Chalk / LCD	29-12-2020
UNIT V		Trade Secrets		
Week 12	L23	General Principles - Laws Relating to Trade Secrets	Chalk / LCD	30-12-2020
	L24	Employee Access Limitation – Employee Confidentiality Agreements	Chalk / LCD	4-1-2021
Week 13	L25	Law of Unfair Competition – Trade Secret Litigation	Chalk / LCD	6-1-2021
	UNIT VI	Cyber Law and Cyber Crime	Chalk / LCD	11-1-2021
	L26	Information Technology Act 2000, E-commerce - Data Security	Chalk / LCD	18-1-2021
	L27	Confidentiality - Privacy - Digital Signatures	Chalk / LCD	20-1-2021
	L28	Prevention and Punishment – Liability of Network Providers	Chalk / LCD	3-2-2021

Signature of the Faculty:

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Head of the Department

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DEPARTMENT OF MANAGEMENT STUDIES

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Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	IPR & Patents	III-I Mech-B	Mrs T Srinivasa Rao Asst.prof	53	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to Intellectual Property Rights (IPR)		
Week 1	L1	Concept of Property - Introduction to IPR	Chalk / LCD	2-11-2020
	L2	International Instruments and IPR - WIPO - TRIPS - WTO	Chalk / LCD	3-11-2020
Week 2	L3	IPR Tool Kit - Protection and Regulation - Copyrights	Chalk / LCD	4-11-2020
	L4	Industrial Property - Patents	Chalk / LCD	9-11-2020
Week 3	L5	Traditional Knowledge - Emerging Areas of IPR	Chalk / LCD	11-11-2020
	L6	Use and Misuse of Intellectual Property Rights	Chalk / LCD	12-11-2020
UNIT II		Copyrights and Neighboring Rights		
Week 4	L7	Principles of Copyright Protection - Law Relating to Copyrights	Chalk / LCD	16-11-2020
	L8	Subject Matters of Copyright	Chalk / LCD	18-11-2020
Week 5	L9	Right to Prepare Derivative Works	Chalk / LCD	23-11-2020
	L10	Copyright Registration - Limitations	Chalk / LCD	25-11-2020
Week 6	L11	Infringement of Copyright - Relief and Remedy	Chalk / LCD	26-11-2020
	L12	Semiconductor Chip Protection Act.	Chalk / LCD	2-12-2020
UNIT III		Patents		
Week 7	L13	Introduction to Patents - Laws Relating to Patents India	Chalk / LCD	3-12-2020
	L14	Patent Requirements - Product Patent and Process Patent	Chalk / LCD	4-12-2020
Week 8	L15	Patent Registration and Granting of Patent	Chalk / LCD	7-12-2020
	L16	Exclusive Rights - Limitations - Ownership	Chalk / LCD	8-12-2020
Week 9	L17	Patent Cooperation Treaty - New developments in Patents	Chalk / LCD	9-12-2020
	L18	Software Protection and Computer related Innovations.	Chalk / LCD	14-12-2020
UNIT IV		Trademarks		



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Week 10	L19	Laws Relating to Trademarks – Functions of Trademark	Chalk / LCD	21-12-2020
	L20	Marks Covered under Trademark Law - Trade Mark Registration	Chalk / LCD	23-12-2020
Week 11	L21	Transfer of rights - Deceptive Similarities	Chalk / LCD	28-12-2020
	L22	Trademarks Claims and Infringement – Remedies Passing Off Action.	Chalk / LCD	29-12-2020
UNIT V		Trade Secrets		
Week 12	L23	General Principles - Laws Relating to Trade Secret	Chalk / LCD	30-12-2020
	L24	Employee Access Limitation – Employee Confidentiality Agreements	Chalk / LCD	4-1-2021
Week 13	L25	Law of Unfair Competition – Trade Secret Litigation	Chalk / LCD	6-1-2021
	UNIT VI	Cyber Law and Cyber Crime	Chalk / LCD	11-1-2021
	L26	Information Technology Act 2000, E-commerce - Data Security	Chalk / LCD	18-1-2021
	L27	Confidentiality - Privacy - Digital Signatures	Chalk / LCD	20-1-2021
	L28	Prevention and Punishment – Liability of Network Providers	Chalk / LCD	3-2-2021

Signature of the Faculty:

Signature of the HoD:

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DEPARTMENT OF MANAGEMENT STUDIES

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Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	IPR & Patents	III-I Mech-C	Mr S Suman Datta Asst.prof	46	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I				
Introduction to Intellectual Property Rights (IPR)				
Week 1	L1	Concept of Property - Introduction to IPR	Chalk / LCD	2-11-2020
	L2	International Instruments and IPR - WIPO - TRIPS - WTO	Chalk / LCD	3-11-2020
Week 2	L3	IPR Tool Kit - Protection and Regulation - Copyrights	Chalk / LCD	4-11-2020
	L4	Industrial Property - Patents	Chalk / LCD	9-11-2020
Week 3	L5	Traditional Knowledge - Emerging Areas of IPR	Chalk / LCD	11-11-2020
	L6	Use and Misuse of Intellectual Property Rights	Chalk / LCD	12-11-2020
UNIT II				
Copyrights and Neighboring Rights				
Week 4	L7	Principles of Copyright Protection - Law Relating to Copyrights	Chalk / LCD	16-11-2020
	L8	Subject Matters of Copyright	Chalk / LCD	18-11-2020
Week 5	L9	Right to Prepare Derivative Works	Chalk / LCD	23-11-2020
	L10	Copyright Registration - Limitations	Chalk / LCD	25-11-2020
Week 6	L11	Infringement of Copyright - Relief and Remedy	Chalk / LCD	26-11-2020
	L12	Semiconductor Chip Protection Act.	Chalk / LCD	2-12-2020
UNIT III				
Patents				
Week 7	L13	Introduction to Patents - Laws Relating to Patents in India	Chalk / LCD	3-12-2020
	L14	Patent Requirements - Product Patent and Process Patent	Chalk / LCD	4-12-2020
Week 8	L15	Patent Registration and Granting of Patent	Chalk / LCD	7-12-2020
	L16	Exclusive Rights - Limitations - Ownership	Chalk / LCD	8-12-2020
Week 9	L17	Patent Cooperation Treaty - New developments in Patents	Chalk / LCD	9-12-2020
	L18	Software Protection and Computer related Innovations	Chalk / LCD	14-12-2020
UNIT IV				
Trademarks				
Week	L19	Laws Relating to Trademarks - Functions of Trademarks	Chalk / LCD	21-12-2020



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10	L20	Marks Covered under Trademark Law - Trade Mark Registration	Chalk / LCD	23-12-2020
Week 11	L21	Transfer of rights - Deceptive Similarities	Chalk / LCD	28-12-2020
	L22	Trademarks Claims and Infringement – Remedies – Passing Off Action.	Chalk / LCD	29-12-2020
UNIT V		Trade Secrets		
Week 12	L23	General Principles - Laws Relating to Trade Secrets	Chalk / LCD	30-12-2020
	L24	Employee Access Limitation – Employee Confidentiality Agreements	Chalk / LCD	4-1-2021
Week 13	L25	Law of Unfair Competition – Trade Secret Litigation	Chalk / LCD	6-1-2021
	UNIT VI	Cyber Law and Cyber Crime	Chalk / LCD	11-1-2021
	L26	Information Technology Act 2000, E-commerce - Data Security	Chalk / LCD	18-1-2021
	L27	Confidentiality - Privacy - Digital Signatures	Chalk / LCD	20-1-2021
	L28	Prevention and Punishment – Liability of Network Providers	Chalk / LCD	3-2-2021

Signature of the Faculty:

Signature of the HoD:
Head of the Department

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DEPARTMENT OF MANAGEMENT STUDIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	IPR & Patents	III-I EEE	Mr S Suman Datta Asst.prof	58	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I				
Introduction to Intellectual Property Rights (IPR)				
Week 1	L1	Concept of Property - Introduction to IPR	Chalk / LCD	2-11-2020
	L2	International Instruments and IPR - WIPO - TRIPS - WTO	Chalk / LCD	3-11-2020
Week 2	L3	IPR Tool Kit - Protection and Regulation - Copyrights	Chalk / LCD	4-11-2020
	L4	Industrial Property - Patents	Chalk / LCD	9-11-2020
Week 3	L5	Traditional Knowledge - Emerging Areas of IPR	Chalk / LCD	11-11-2020
	L6	Use and Misuse of Intellectual Property Rights	Chalk / LCD	12-11-2020
UNIT II				
Copyrights and Neighboring Rights				
Week 4	L7	Principles of Copyright Protection - Law Relating to Copyrights	Chalk / LCD	16-11-2020
	L8	Subject Matters of Copyright	Chalk / LCD	18-11-2020
Week 5	L9	Right to Prepare Derivative Works	Chalk / LCD	23-11-2020
	L10	Copyright Registration - Limitations	Chalk / LCD	25-11-2020
Week 6	L11	Infringement of Copyright - Relief and Remedy	Chalk / LCD	26-11-2020
	L12	Semiconductor Chip Protection Act.	Chalk / LCD	2-12-2020
UNIT III				
Patents				
Week 7	L13	Introduction to Patents - Laws Relating to Patents in India	Chalk / LCD	3-12-2020
	L14	Patent Requirements - Product Patent and Process Patent	Chalk / LCD	4-12-2020
Week 8	L15	Patent Registration and Granting of Patent	Chalk / LCD	7-12-2020
	L16	Exclusive Rights - Limitations - Ownership	Chalk / LCD	8-12-2020
Week 9	L17	Patent Cooperation Treaty - New developments in Patents	Chalk / LCD	9-12-2020
	L18	Software Protection and Computer related Innovations	Chalk / LCD	14-12-2020
UNIT IV				
Trademarks				
Week	L19	Laws Relating to Trademarks - Functions of Trademark	Chalk / LCD	21-12-2020



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10	L20	Marks Covered under Trademark Law - Trade Mark Registration	Chalk / LCD	23-12-2020
Week 11	L21	Transfer of rights - Deceptive Similarities	Chalk / LCD	28-12-2020
	L22	Trademarks Claims and Infringement – Remedies – Passing Off Action.	Chalk / LCD	29-12-2020
UNIT V		Trade Secrets		
Week 12	L23	General Principles - Laws Relating to Trade Secrets	Chalk / LCD	30-12-2020
	L24	Employee Access Limitation – Employee Confidential Agreements	Chalk / LCD	4-1-2021
Week 13	L25	Law of Unfair Competition – Trade Secret Litigation	Chalk / LCD	6-1-2021
	UNIT VI	Cyber Law and Cyber Crime		11-1-2021
	L26	Information Technology Act 2000, E-commerce - Data Security	Chalk / LCD	18-1-2021
	L27	Confidentiality - Privacy - Digital Signatures	Chalk / LCD	20-1-2021
	L28	Prevention and Punishment – Liability of Network Providers	Chalk / LCD	3-2-2021

Signature of the Faculty:

Signature of the HoD:

Head of the Department
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DEPARTMENT OF MANAGEMENT STUDIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	IPR & Patents	III-II ECE	Mr S Suman Datta	59	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to Intellectual Property Rights (IPR)		
Week 1	L1	Concept of Property - Introduction to IPR	Chalk / LCD	22-3-21
	L2	International Instruments and IPR - WIPO - TRIPS - WTO	Chalk / LCD	23-3-21
Week 2	L3	IPR Tool Kit - Protection and Regulation - Copyrights	Chalk / LCD	27-3-21
	L4	Industrial Property - Patents	Chalk / LCD	30-3-21
Week 3	L5	Traditional Knowledge - Emerging Areas of IPR	Chalk / LCD	6-4-21
	L6	Use and Misuse of Intellectual Property Rights	Chalk / LCD	13-4-21
UNIT II		Copyrights and Neighboring Rights		
Week 4	L7	Principles of Copyright Protection - Law Relating to Copyrights	Chalk / LCD	20-4-21
	L8	Subject Matters of Copyright	Chalk / LCD	27-4-21
Week 5	L9	Right to Prepare Derivative Works	Chalk / LCD	4-5-21
	L10	Copyright Registration - Limitations	Chalk / LCD	18-5-21
Week 6	L11	Infringement of Copyright - Relief and Remedy	Chalk / LCD	19-5-21
	L12	Semiconductor Chip Protection Act.	Chalk / LCD	19-5-21
UNIT III		Patents		
Week 7	L13	Introduction to Patents - Laws Relating to Patents in India	Chalk / LCD	25-5-21
	L14	Patent Requirements - Product Patent and Process Patent	Chalk / LCD	25-5-21
Week 8	L15	Patent Registration and Granting of Patent	Chalk / LCD	1-6-21
	L16	Exclusive Rights - Limitations - Ownership	Chalk / LCD	2-6-21
Week 9	L17	Patent Cooperation Treaty - New developments in Patents	Chalk / LCD	8-6-21
	L18	Software Protection and Computer related Innovations	Chalk / LCD	11-6-21
UNIT IV		Trademarks		
Week	L19	Laws Relating to Trademarks - Functions of Trademarks	Chalk / LCD	15-6-21



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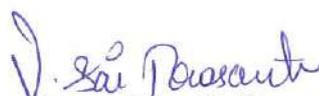
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10	L20	Marks Covered under Trademark Law - Trade Mark Registration	Chalk / LCD	23-6-21
Week 11	L21	Transfer of rights - Deceptive Similarities	Chalk / LCD	24-6-21
	L22	Trademarks Claims and Infringement – Remedies – Passing Off Action.	Chalk / LCD	25-6-21
UNIT V		Trade Secrets		
Week 12	L23	General Principles - Laws Relating to Trade Secrets	Chalk / LCD	25-6-21
	L24	Employee Access Limitation – Employee Confidentiality Agreements	Chalk / LCD	26-6-21
Week 13	L25	Law of Unfair Competition – Trade Secret Litigation	Chalk / LCD	28-6-21
	UNIT VI	Cyber Law and Cyber Crime	Chalk / LCD	
	L26	Information Technology Act 2000, E-commerce - Data Security	Chalk / LCD	29-6-21
	L27	Confidentiality - Privacy - Digital Signatures	Chalk / LCD	30-6-21
	L28	Prevention and Punishment – Liability of Network Providers	Chalk / LCD	30-6-21


Signature of the Faculty:


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DEPARTMENT OF MANAGEMENT STUDIES

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COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	IPR & Patents	III-II CSE-A	Mr Yerrayya Naidu Asst.prof	49	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to Intellectual Property Rights (IPR)		
Week 1	L1	Concept of Property - Introduction to IPR	Chalk / LCD	22-3-21
	L2	International Instruments and IPR - WIPO - TRIPS - WTO	Chalk / LCD	23-3-21
Week 2	L3	IPR Tool Kit - Protection and Regulation - Copyrights	Chalk / LCD	27-3-21
	L4	Industrial Property - Patents	Chalk / LCD	30-3-21
Week 3	L5	Traditional Knowledge - Emerging Areas of IPR	Chalk / LCD	6-4-21
	L6	Use and Misuse of Intellectual Property Rights	Chalk / LCD	13-4-21
UNIT II		Copyrights and Neighboring Rights		
Week 4	L7	Principles of Copyright Protection - Law Relating to Copyrights	Chalk / LCD	20-4-21
	L8	Subject Matters of Copyright	Chalk / LCD	27-4-21
Week 5	L9	Right to Prepare Derivative Works	Chalk / LCD	4-5-21
	L10	Copyright Registration - Limitations	Chalk / LCD	18-5-21
Week 6	L11	Infringement of Copyright - Relief and Remedy	Chalk / LCD	19-5-21
	L12	Semiconductor Chip Protection Act.	Chalk / LCD	19-5-21
UNIT III		Patents		
Week 7	L13	Introduction to Patents - Laws Relating to Patents in India	Chalk / LCD	25-5-21
	L14	Patent Requirements - Product Patent and Process Patent	Chalk / LCD	25-5-21
Week 8	L15	Patent Registration and Granting of Patent	Chalk / LCD	1-6-21
	L16	Exclusive Rights - Limitations - Ownership	Chalk / LCD	2-6-21
Week 9	L17	Patent Cooperation Treaty - New developments in Patents	Chalk / LCD	8-6-21
	L18	Software Protection and Computer related Innovation	Chalk / LCD	11-6-21
UNIT IV		Trademarks		
Week	L19	Laws Relating to Trademarks - Functions of Trademark	Chalk / LCD	15-6-21



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10	L20	Marks Covered under Trademark Law - Trade Mark Registration	Chalk / LCD	23-6-21
Week 11	L21	Transfer of rights - Deceptive Similarities	Chalk / LCD	24-6-21
	L22	Trademarks Claims and Infringement – Remedies – Passing Off Action.	Chalk / LCD	25-6-21
UNIT V		Trade Secrets		
Week 12	L23	General Principles - Laws Relating to Trade Secrets	Chalk / LCD	25-6-21
	L24	Employee Access Limitation – Employee Confidentiality Agreements	Chalk / LCD	26-6-21
Week 13	L25	Law of Unfair Competition – Trade Secret Litigation	Chalk / LCD	28-6-21
	UNIT VI	Cyber Law and Cyber Crime	Chalk / LCD	
	L26	Information Technology Act 2000, E-commerce - Data Security	Chalk / LCD	29-6-21
	L27	Confidentiality - Privacy - Digital Signatures	Chalk / LCD	30-6-21
	L28	Prevention and Punishment – Liability of Network Providers	Chalk / LCD	30-6-21


Signature of the Faculty:


Signature of the HoD:
Head of the Department
Department of Business Administration
AVANTHI INSTITUTE OF ENGG. & TECH.
Cherukupally (V), Near Tagarapuvalasa Bridge
Vizianagaram (M), Vizianagaram (D)-531162

DEPARTMENT OF MANAGEMENT STUDIES

Avanthi Institute of Engineering and Technology



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COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	IPR & Patents	III-II CSE-B	Mr Yerrayya Naidu Asst.prof	49	26	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to Intellectual Property Rights (IPR)		
Week 1	L1	Concept of Property - Introduction to IPR	Chalk / LCD	22-3-21
	L2	International Instruments and IPR - WIPO - TRIPS - WTO	Chalk / LCD	23-3-21
Week 2	L3	IPR Tool Kit - Protection and Regulation - Copyrights	Chalk / LCD	27-3-21
	L4	Industrial Property - Patents	Chalk / LCD	30-3-21
Week 3	L5	Traditional Knowledge - Emerging Areas of IPR	Chalk / LCD	6-4-21
	L6	Use and Misuse of Intellectual Property Rights	Chalk / LCD	13-4-21
UNIT II		Copyrights and Neighboring Rights		
Week 4	L7	Principles of Copyright Protection - Law Relating to Copyrights	Chalk / LCD	20-4-21
	L8	Subject Matters of Copyright	Chalk / LCD	27-4-21
Week 5	L9	Right to Prepare Derivative Works	Chalk / LCD	4-5-21
	L10	Copyright Registration - Limitations	Chalk / LCD	18-5-21
Week 6	L11	Infringement of Copyright - Relief and Remedy	Chalk / LCD	19-5-21
	L12	Semiconductor Chip Protection Act.	Chalk / LCD	19-5-21
UNIT III		Patents		
Week 7	L13	Introduction to Patents - Laws Relating to Patents India	Chalk / LCD	25-5-21
	L14	Patent Requirements - Product Patent and Process Patent	Chalk / LCD	25-5-21
Week 8	L15	Patent Registration and Granting of Patent	Chalk / LCD	1-6-21
	L16	Exclusive Rights - Limitations - Ownership	Chalk / LCD	2-6-21
Week 9	L17	Patent Cooperation Treaty - New developments in Patents	Chalk / LCD	8-6-21
	L18	Software Protection and Computer related Innovations.	Chalk / LCD	11-6-21
UNIT IV		Trademarks		
Week	L19	Laws Relating to Trademarks - Functions of	Chalk / LCD	15-6-21



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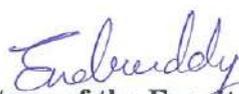
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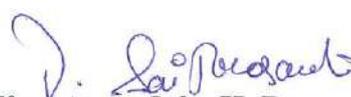
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10		Trademark		
	L20	Marks Covered under Trademark Law - Trade Mark Registration	Chalk / LCD	23-6-21
Week 11	L21	Transfer of rights - Deceptive Similarities	Chalk / LCD	24-6-21
	L22	Trademarks Claims and Infringement – Remedies Passing Off Action.	Chalk / LCD	25-6-21
UNIT V		Trade Secrets		
Week 12	L23	General Principles - Laws Relating to Trade Secrets	Chalk / LCD	25-6-21
	L24	Employee Access Limitation – Employee Confidentiality Agreements	Chalk / LCD	26-6-21
Week 13	L25	Law of Unfair Competition – Trade Secret Litigation	Chalk / LCD	28-6-21
	UNIT VI	Cyber Law and Cyber Crime	Chalk / LCD	
	L26	Information Technology Act 2000, E-commerce - Data Security	Chalk / LCD	29-6-21
	L27	Confidentiality - Privacy - Digital Signatures	Chalk / LCD	30-6-21
	L28	Prevention and Punishment – Liability of Network Providers	Chalk / LCD	30-6-21


Signature of the Faculty:


Signature of the HoD:
Head of the Department
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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS:II BTECH

IISEM-A

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	CVSM	KOM	ATD	LUNCH	KOM	FMHM/MT LAB		
TUE	KOM	CVSM	MCMT		ATD	TUTORIAL	SPORTS	
WED	ATD	CVSM	EITK		DMM-I	FMHM/MT LAB		
THU	FMHM	KOM	EITK		DMM-I	FMHM	DASSUALT	
FRI	MCMT	DMM-I	FMHM		ATD	CVSM	KOM	LIB
SAT	DMM-I	FMHM			MCMT	FMHM/MT LAB		

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	K.T.Danial Mohan	Assistance Professor	Complex Variables & Statistical Methods	BS&H
2	Deepthi K	Assistance Professor	Kinematics of Machinery	Mechanical
3	Shiek Hidayatulla Shariff	Associate Professor	Applied Thermo Dynamics	Mechanical
4	Dr.Avinash Ben	Professor	Fuild Mechanics & Hydraulic mechanics	Mechanical
5	M.Raghava Rao	Associate Professor	Metal Cutting & Machine Tools	Mechanical
6	K.Jaswanth	Assistance Professor	Design of Machine Members-I	Mechanical
7	P.Rama Krishna	Assistance Professor	Fluid Mechanics & Hydraulic Machines Lab	Mechanical
8	K.Jaswanth	Assistance	Machine Tools Lab	Mechanical



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		Professor		
9	P.Rama Krishna	Assistance Professor	DASSUALT	Mechanical
10	G. Sunitha Rani	Assistance Professor	Essence of Indian Traditional Knowledge	BS&H
11	Deepthi K	Assistance Professor	Class Incharge	Mechanical

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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS:II BTECH II

SEM-B

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	CVSM	KOM	ATD	LUNCH	EITK	TUTORIAL		SPORTS
TUE	KOM	CVSM	MCMT		KOM	FMHM/MT LAB		
WED	ATD	CVSM	EITK		DMM-I	FMHM/MT LAB		
THU	DMM-I	FMHM			DMM-I	FMHM	DASSUALT	
FRI	MCMT	DMM-I	FMHM		MCMT	FMHM/MT LAB		
SAT	FMHM	KOM	CVSM		ATD	CVSM	KOM	LIB

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	K.T.Danial Mohan	Assistance Professor	Complex Variables & Statistical Methods	BS&H
2	Puli Suresh Kumar	Assistance Professor	Kinematics of Machinery	Mechanical
3	P Rama Krishna	Assistance Professor	Applied Thermo Dynamics	Mechanical
4	Sunil.Jena	Assistance Professor	Fluid Mechanics&Hydraulic mechanics	Mechanical
5	V.Madhu Vamsi	Associate Profesdsor	Metal Cutting & Machine Tools	Mechanical
6	K.Mohan Pradeep	Assistance Professor	Design of Machine Members-I	Mechanical
7	Sunil.Jena	Assistance Professor	Fluid Mechanics & Hydraulic Machines Lab	Mechanical



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8	V.Madhu Vamsi	Associate Professor	Machine Tools Lab	Mechanical
9	J.Jagadeesh	Associate Professor	DASSUALT	Mechanical
10	G. Sunitha Rani	Assistance Professor	Essence of Indian Traditional Knowledge	BS&H
11	P Rama Krishna	Assistance Professor	Class Incharge	Mechanical

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DEPARTMENT OF MECHANICAL ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS:II BTECH II

SEM-C

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	CVSM	KOM	ATD	LUNCH	CVSM	TUTROAL	DMM-I	SPORTS
TUE	KOM	CVSM	MCMT		EITK	FMHM/MT LAB		
WED	ATD	CVSM	MCMT		EITK	FMHM/MT LAB		
THU	DMM-I	FMHM			DMM-I	FMHM	DASSUALT	
FRI	MCMT	DMM-I	FMHM		MCMT	FMHM/MT LAB		
SAT	FMHM	KOM	CVSM		ATD	TUTROAL	KOM	LIB

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	K.T.Danial Mohan	Assistance Professor	Complex Variables & Statistical Methods	BS&H
2	Deepthi K	Assistance Professor	Kinematics of Machinery	Mechanical
3	P Rama Krishna	Assistance Professor	Applied Thermo Dynamics	Mechanical
4	Dr. Raja santosh	Professor	Fluid Mechanics & Hydraulic mechanics	Mechanical
5	M Raghava Rao	Associate Professor	Metal Cutting & Machine Tools	Mechanical
6	B.Venkata Naidu	Assistance Professor	Design of Machine Members-I	Mechanical
7	K.Sarika	Assistance Professor	Fluid Mechanics & Hydraulic Machines Lab	Mechanical
8	B.Venkata Naidu	Assistance	Machine Tools Lab	Mechanical



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		Professor		
9	K.Srinu	Assistance professor	DASSUALT	Mechanical
10	G. Sunitha Rani	Assistance Professor	Essence of Indian Traditional Knowledge	BS&H
11	B.Venkata Naidu	Assistance Professor	Class Incharge	Mechanical


HOD-MECH

MECHANICAL DEPARTMENT
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS:II BTECH ISEM

Class in- charge- U.V.Lakshmi								
DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	ECA-II	EM-I	BED	LUNCH	EMF	TUTORIAL CLASSES		LIBRARY
TUE	EM-I	BED	EMF		EC LAB			
WED	BED	EMF	EITK		MEFA	THPM	ECA-II	EMF
THU	EMF	THPM	MEFA		T & H LAB			
FRI	THPM	MEFA	EITK		BED	THPM	EM-I	CRT
SAT	MEFA	ECA-II	EM-I		EITK	ECA-II	BED	SPORTS

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	U.V.Lakshmi	Asst.Professor	Electrical Circuit Analysis -II	EEE
2	M. Venkatesh	Asst.Professor	Electrical Machines - I	EEE
3	K.Avinash kumar	Asst.Professor	Basic Electronics Devices	ECE
4	B.Madhusudhana rao	Asst.Professor	Electro Magnetic Field	EEE
5	A.M.V.Praveen	Asst.Professor	Thermal & Hydro Prime Movers	MECH
6	R.Vasanthlaxmi	Asst.Professor	Manegerial Economics & Financial analysis	MBA
7	A.M.V.Praveen	Asst.Professor	Thermal and Hydro Laboratory	MECH
8	M. Venkatesh	Asst.Professor	Electrical Circuits Laboratory	EEE



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9	Parvatheesam	Asst. Prof	Campus Recruitment Training	Training&Placement
10	G. Sunitha Rani	Asst. Prof	Essence of India Traditional Knowledge	BS&H

HOD-EEE

Head of the Department
Department of Electrical and Electronics Engineering
Avanathi Institute of Engg. & Tech.
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS: II BTECH ISEM SEC A

w.e.f: 02-11-2020

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	MFCS	DS	SE	LUNCH	EITK	C++	CO	LIBRARY
TUE	SE	MFCS	DS		CO	PP LAB		
WED	PP	DS	C++		MFCS	ITR	T	
THU	SE	PP	EITK		CRT	DS LAB		
FRI	MFCS	CO	DS		PP	C++	EMPLOYABILITY SKILLS	
SAT	C++	SE	EITK		CO	C++	PP	SPORTS

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	T.V.Prasad	Assistant Professor	Mathematical Foundations for Computer Science	CSE
2	Chipurapalli Sravanthi	Assistant Professor	Software Engineering	CSE
3	Seerapu Kesava Rao	Associate Professor	Python Programming	CSE
4	Dr. Akula Chandra Sekhar	Professor	Data Structures	CSE
5	Yejjipurapu Ramesh Kumar	Assistant Professor	C++	CSE
6	P Satyanarayana	Assistant Professor	Computer Organisation	CSE
7	E.Ranjth Kumar	Assistant Professor	ITR	BS&H
8	U.UmaMahesh	Assistant Professor	Employability Skills	MBA
9	Parvatheesam	Assistant Professor	Campus Recruitment Training	Training & Placement



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10	Dr. Akula Chandra Sekhar	Professor	Data Structures Lab	CSE
11	Seerapu Kesava Rao	Associate Professor	Python Programming Lab	CSE
12	G. Sunitha Rani	Assistant Professor	Essence of Indian Traditional Knowledge	BS&H
13	P Satyanarayana	Assistant Professor	Class Incharge	CSE


HOD-CSE

Head of the Department
Computer Science and Engineering
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS: II BTECH ISEM SEC B

w.e.f: 02-11-2020

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	PP	C++	CO	LUNCH	EITK	DS	SE	LIBRARY
TUE	PP	DS	C++		CO	DS LAB		
WED	SE	MFCS	DS		MFCS	CRT	DS	SPORTS
THU	MFCS	EITK	DS		CO	PP LAB		
FRI	SE	PP	MFCS		EITK	C++	EMPLOYABILITY SKILLS	
SAT	CO	C++	PP		C++	ITR		T

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Sangitha Mishra	Assistant Professor	Mathematical Foundations for Computer Science	CSE
2	Galla Venkataswamy	Assistant Professor	Software Engineering	CSE
3	Karumajji Hymavathi	Assistant Professor	Python Programming	CSE
4	G.Trinadha Rao	Assistant Professor	Data Structures	CSE
5	Surendra Kumar Choudary	Assistant Professor	C++	CSE
6	Payala Aruna	Assistant Professor	Computer Organisation	CSE
7	Dr.E.Ranjitha Kumar	Professor	ITR	BS&H
8	K.Uma Mahesh	Assistant Professor	Employability Skills	MBA
9	Parvatheesam	Assistant Professor	Campus Recruitment Training	Training & Placement
10	Karumajji Hymavathi	Assistant Professor	Data Structures Lab	CSE



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11	Etyala Ramya Sree	Assistant Professor	Python Programming Lab	CSE
12	G. Sunitha Rani	Assistant Professor	Essence of Indian Traditional Knowledge	BS&H
13	G.Trinadha Rao	Assistant Professor	Class Incharge	CSE

HOD CSE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CLASS TIME TABLE AY -2020-21

CLASS: II BTECH ISEM SEC C

w.e.f: 02-11-2020

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	PP	DS	C++	LUNCH	CO	C++	EITK	SPORTS
TUE	SE	PP	MFCS		CO	DS LAB		
WED	MFCS	DS	SE		MFCS	ITR		T
THU	SE	EITK	DS		CO	CRT	EMPLOYABILITY SKILLS	
FRI	MFCS	CO	DS		EITK	PP LAB		
SAT	MFCS	CO	DS		PP	C++	CO	LIBRARY

S.No.	Name Of The Faculty	Designation	Subject Name	Department
1	Pathivada Mounika	Assistant Professor	Mathematical Foundations for Computer Science	CSE
2	Uma Mythraye	Assistant Professor	Software Engineering	CSE
3	Gangu Dharmaraju	Assistant Professor	Python Programming	CSE
4	Karra Meher Prasad	Assistant Professor	Data Structures	CSE
5	Thota Paramesh	Assistant Professor	C++	CSE
6	Rajasekharam Bonthu	Assistant Professor	Computer Organisation	CSE
7	Dr.E.Ranjitha Kumar	Professor	ITR	BS&H
8	K.Uma Mahesh	Assistant Professor	Employability Skills	MBA
9	Parvatheesam	Assistant	Campus Recruitment Training	Training &



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		Professor		Placement
10	Gangu Dharmaraju	Assistant Professor	Data Structures Lab	CSE
11	Karra Meher Prasad	Assistant Professor	Python Programming Lab	CSE
12	G. Sunitha Rani	Assistant Professor	Essence of Indian Traditional Knowledge	BS&H
13	Karra Meher Prasad	Assistant Professor	Class Incharge	CSE


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Cherukupally (V), Chittivalasa (SAO),
Bhogapuram (M),
Vizianagaram (Dist.)-531162



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE STRUCTURE-R19

II Year – I SEMESTER

S. No	Course Code	Subjects	Category	L	T	P	Credits
1		Electrical Circuit Analysis - II	EE	3	--	--	3
2		Electrical Machines-I	EE	3	--	--	3
3		Electronic Devices and Circuits	ES	3	--	--	3
4		Electro Magnetic Fields	EE	3	--	--	3
5		Thermal and Hydro Prime movers	ES	3	--	--	3
6		Managerial Economics & Financial Analysis	BS	3	--	--	3
7		Thermal and Hydro Laboratory	ES	--	--	3	1.5
8		Electrical Circuits Laboratory	EE	--	--	3	1.5
9		Essence of Indian Traditional Knowledge	MC	3	--	--	0
Total Credits				24	0	6	21

II Year – II SEMESTER

S. No	Course Code	Subjects	Category	L	T	P	Credits
1		Electrical Measurements & Instrumentation	EE	3	--	--	3
2		Electrical Machines-II	EE	3	--	--	3
3		Digital Electronics	ES	3	--	--	3
4		Control Systems	EE	3	--	--	3
5		Power Systems-I	EE	3	--	--	3
6		Signals and Systems	EE	3	--	--	3
7		Electrical Machines -I Laboratory	EE	--	--	3	1.5
8		Electronic Devices & Circuits Laboratory	EE	--	--	3	1.5
9		Professional Ethics and Human Values	MC	3	0	0	0
Total Credits				21	0	6	21



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE STRUCTURE-R19

II Year – I SEMESTER		L	T	P	C
		3	0	0	0
ESSENCE OF INDIAN TRADITIONAL KNOWLEDGE					

Course Objectives:

To facilitate the students with the concepts of Indian traditional knowledge and to make them understand the Importance of roots of knowledge system

- The course aim of the importing basic principle of third process reasoning and inference sustainability is at the course of Indian traditional knowledge system
- To understand the legal framework and traditional knowledge and biological diversity act 2002 and geographical indication act 2003
- The courses focus on traditional knowledge and intellectual property mechanism of traditional knowledge and protection
- To know the student traditional knowledge in different sector

Course Outcomes:

After completion of the course, students will be able to:

- Understand the concept of Traditional knowledge and its importance
- Know the need and importance of protecting traditional knowledge
- Know the various enactments related to the protection of traditional knowledge
- Understand the concepts of Intellectual property to protect the traditional knowledge

UNIT I

Introduction to traditional knowledge: Define traditional knowledge, nature and characteristics, scope and importance, kinds of traditional knowledge, the physical and social contexts in which traditional knowledge develop, the historical impact of social change on traditional knowledge systems. Indigenous Knowledge (IK), characteristics, traditional knowledge vis-à-vis indigenous knowledge, traditional knowledge Vs western knowledge traditional knowledge vis-à-vis formal knowledge

Learning Outcomes:

At the end of the unit, the student will able to:

- Understand the traditional knowledge.
- Contrast and compare characteristics importance kinds of traditional knowledge.
- Analyze physical and social contexts of traditional knowledge.
- Evaluate social change on traditional knowledge.

UNIT II

Protection of traditional knowledge: the need for protecting traditional knowledge Significance of TK Protection, value of TK in global economy, Role of Government to harness TK.

Learning Outcomes:

At the end of the unit, the student will able to:

- Know the need of protecting traditional knowledge.
- Apply significance of tk protection.



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COURSE STRUCTURE-R19

- Analyze the value of tk in global economy.
- Evaluate role of government

UNIT III

Legal framework and TK: A: The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, Plant Varieties Protection and Farmers Rights Act, 2001 (PPVFR Act); B: The Biological Diversity Act 2002 and Rules 2004, the protection of traditional knowledge bill, 2016. Geographical indications act 2003.

Learning Outcomes:

At the end of the unit the student will able to:

- Understand legal framework of TK.
- Contrast and compare the ST and other traditional forest dwellers
- Analyze plant variant protections
- Evaluate farmers right act

UNIT IV

Traditional knowledge and intellectual property: Systems of traditional knowledge protection, Legal concepts for the protection of traditional knowledge, Certain non IPR mechanisms of traditional knowledge protection, Patents and traditional knowledge, Strategies to increase protection of traditional knowledge, global legal FORA for increasing protection of Indian Traditional Knowledge.

Learning Outcomes:

At the end of the unit, the student will able to:

- Understand TK and IPR
- Apply systems of TK protection.
- Analyze legal concepts for the protection of TK.
- Evaluate strategies to increase the protection of TK.

UNIT V

Traditional knowledge in different sectors: Traditional knowledge and engineering, Traditional medicine system, TK and biotechnology, TK in agriculture, Traditional societies depend on it for their food and healthcare needs, Importance of conservation and sustainable development of environment, Management of biodiversity, Food security of the country and protection of TK.

Learning Outcomes:

At the end of the unit, the student will able to:

- Know TK in different sectors.
- Apply TK in engineering.
- Analyze TK in various sectors.
- Evaluate food security and protection of TK in the country.



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COURSE STRUCTURE-R19

Reference Books:

- 1) Traditional Knowledge System in India, by Amit Jha, 2009.
- 2) Traditional Knowledge System and Technology in India by Basanta Kumar Mohanta and Vipin Kumar Singh, PratibhaPrakashan 2012.
- 3) Traditional Knowledge System in India by Amit Jha Atlantic publishers, 2002
- 4) "Knowledge Traditions and Practices of India" Kapil Kapoor, Michel Danino

e-Resources:

- 1) <https://www.youtube.com/watch?v=LZP1StpYEPM>
- 2) <http://nptel.ac.in/courses/121106003/>




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DEPARTMENT OF BASIC SCIENCE & HUMANITIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Essence of Indian Traditional Knowledge	II-I EEE	Mrs G Suneetha Rani Assistant Professor	39	39	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to traditional knowledge		
Week 1	L1	Define traditional knowledge,	Chalk / LCD	2-11-2020
	L2	Define traditional nature and characteristics	Chalk / LCD	3-11-2020
	L3	scope and importance	Chalk / LCD	4-11-2020
Week 2	L4	kinds of traditional knowledge	Chalk / LCD	9-11-2020
	L5	the physical and social contexts in which traditional knowledge develop	Chalk / LCD	10-11-2020
	L6	the historical impact of social change on traditional knowledge system	Chalk / LCD	11-11-2020
Week 3	L7	the historical impact of social change on traditional knowledge system	Chalk / LCD	16-11-2020
	L8	Indigenous Knowledge (IK), characteristics, traditional knowledge vis-à-vis indigenous knowledge	Chalk / LCD	17-11-2020
	L9	traditional knowledge Vs western knowledge traditional knowledge vis-à-vis formal knowledge	Chalk / LCD	18-11-2020
UNIT II		Protection of traditional knowledge		
Week 4	L10	The need for protecting traditional knowledge	Chalk / LCD	23-11-2020
	L11	Significance of TK Protection	Chalk / LCD	24-11-2020
	L12	value of TK in global economy,	Chalk / LCD	25-11-2020
Week 5	L13	Role of Government to harness TK	Chalk / LCD	30-11-2020
	L14	Significance global economy	Chalk / LCD	2-12-2020
	L15	Harnessing TK	Chalk / LCD	3-12-2020
Week 6	L16	Analyze the value of tk in global economy	Chalk / LCD	7-12-2020
	L17	role of government	Chalk / LCD	8-12-2020
	L18	Significance of tk protection.	Chalk / LCD	9-12-2020
UNIT III		Legal framework and TK		



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Week 7	L19	the Scheduled Tribes and Other Traditional Forest Dwellers	Chalk / LCD	14-12-2020
	L20	Plant Varieties Protection	Chalk / LCD	15-12-2020
	L21	Farmers Rights Act,		16-12-2020
Week 8	L22	The Biological Diversity Act 2002	Chalk / LCD	21-12-2020
	L23	the protection of traditional knowledge bill,	Chalk / LCD	22-12-2020
	L24	Geographical indications act 2003	Chalk / LCD	23-12-2020
Week 9	L25	legal framework of TK	Chalk / LCD	28-12-2020
	L26	other traditional forest dwellers	Chalk / LCD	29-12-2020
	L27	plant variant protections	Chalk / LCD	30-12-2020
UNIT IV		Traditional knowledge and intellectual property:		
Week 10	L28	Systems of traditional knowledge protection	Chalk / LCD	4-1-2021
	L29	Legal concepts for the protection of traditional knowledge	Chalk / LCD	5-1-2021
	L30	Certain non IPR mechanisms	Chalk / LCD	6-1-2021
Week 11	L31	traditional knowledge protection,	Chalk / LCD	18-1-2021
	L32	Patents and traditional knowledge, Strategies to increase protection of traditional knowledge	Chalk / LCD	19-1-2021
	L33	global legal FORA for increasing protection of Indian Traditional Knowledge.	Chalk / LCD	20-1-2021
UNIT V		Traditional knowledge in different sectors		
Week 12	L34	Traditional knowledge and engineering	Chalk / LCD	25-1-2021
	L35	Traditional medicine system, TK	Chalk / LCD	27-1-2021
	L36	and biotechnology, TK in agriculture, Traditional societies depend on it for their food and healthcare needs	Chalk / LCD	1-2-2021
Week 13	L37	Importance of conservation	Chalk / LCD	8-2-2021
	L38	sustainable development of environment	Chalk / LCD	10-2-2021
	L39	Management of biodiversity, Food security of the country and protection of TK	Chalk / LCD	17-2-2021

Signature of the Faculty:

Signature of the HoD:

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Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Essence of Indian Traditional Knowledge	II-I CSE-A	Mrs G Suneetha Rani Asst.Prof.	59	39	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to traditional knowledge		
Week 1	L1	Define traditional knowledge,	Chalk / LCD	3-11-2020
	L2	Define traditional nature and characteristics	Chalk / LCD	5-11-2020
	L3	scope and importance	Chalk / LCD	10-11-2020
Week 2	L4	kinds of traditional knowledge	Chalk / LCD	10-11-2020
	L5	the physical and social contexts in which traditional knowledge develop	Chalk / LCD	12-11-2020
	L6	the historical impact of social change on traditional knowledge system	Chalk / LCD	17-11-2020
Week 3	L7	the historical impact of social change on traditional knowledge system	Chalk / LCD	19-11-2020
	L8	Indigenous Knowledge (IK), characteristics, traditional knowledge vis-à-vis indigenous knowledge	Chalk / LCD	24-11-2020
	L9	traditional knowledge Vs western knowledge traditional knowledge vis-à-vis formal knowledge	Chalk / LCD	25-11-2020
UNIT II		Protection of traditional knowledge		
Week 4	L10	The need for protecting traditional knowledge	Chalk / LCD	26-11-2020
	L11	Significance of TK Protection	Chalk / LCD	27-11-2020
	L12	value of TK in global economy,	Chalk / LCD	1-12-2020
Week 5	L13	Role of Government to harness TK	Chalk / LCD	3-12-2020
	L14	Significance global economy	Chalk / LCD	4-12-2020
	L15	Harnessing TK	Chalk / LCD	6-12-2020
Week 6	L16	Analyze the value of tk in global economy	Chalk / LCD	8-12-2020
	L17	role of government	Chalk / LCD	10-12-2020



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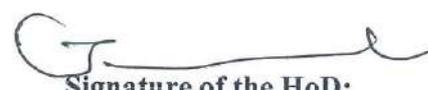
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	L18	Significance of tk protection.	Chalk / LCD	13-12-2020
UNIT III		Legal framework and TK		
Week 7	L19	he Scheduled Tribes and Other Traditional Forest Dwellers	Chalk / LCD	15-12-2020
	L20	Plant Varieties Protection	Chalk / LCD	15-12-2020
	L21	Farmers Rights Act,		17-12-2020
Week 8	L22	The Biological Diversity Act 2002	Chalk / LCD	22-12-2020
	L23	he protection of traditional knowledge bill,	Chalk / LCD	22-12-2020
	L24	Geographical indications act 2003	Chalk / LCD	24-12-2020
Week 9	L25	legal framework of TK	Chalk / LCD	29-12-2020
	L26	other traditional forest dwellers	Chalk / LCD	31-12-2020
	L27	plant variant protections	Chalk / LCD	31-12-2020
UNIT IV		Traditional knowledge and intellectual property:		
Week 10	L28	Systems of traditional knowledge protection	Chalk / LCD	5-1-2021
	L29	Legal concepts for the protection of traditional knowledge	Chalk / LCD	7-1-2021
	L30	Certain non IPR mechanisms	Chalk / LCD	19-1-2021
Week 11	L31	traditional knowledge protection,	Chalk / LCD	27-1-2021
	L32	Patents and traditional knowledge, Strategi to increase protection of traditional knowledge	Chalk / LCD	28-1-2021
	L33	global legal FORA for increasing protection of Indian Traditional Knowledge.	Chalk / LCD	4-2-2021
UNIT V		Traditional knowledge in different sectors		
Week 12	L34	Traditional knowledge and engineering	Chalk / LCD	4-2-2021
	L35	Traditional medicine system, TK	Chalk / LCD	11-2-2021
	L36	and biotechnology, TK in agriculture, Traditional societies depend on it for their food and healthcare needs	Chalk / LCD	12-2-2021
Week 13	L37	Importance of conservation	Chalk / LCD	15-2-2021
	L38	sustainable development of environment	Chalk / LCD	16-2-2021
	L39	Management of biodiversity, Food security the country and protection of TK	Chalk / LCD	18-2-2021


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Signature of the HoD:
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DEPARTMENT OF BASIC SCIENCE & HUMANITIES

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					Lectures	Tutorials
MC	Essence of Indian Traditional Knowledge	II-I CSE-B	Mrs G Suneetha Rani Asst.Prof.	59	39	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I				
		Introduction to traditional knowledge		
Week 1	L1	Define traditional knowledge,	Chalk / LCD	2-11-2020
	L2	Define traditional nature and characteristics	Chalk / LCD	3-11-2020
	L3	scope and importance	Chalk / LCD	4-11-2020
Week 2	L4	kinds of traditional knowledge	Chalk / LCD	9-11-2020
	L5	the physical and social contexts in which traditional knowledge develop	Chalk / LCD	10-11-2020
	L6	the historical impact of social change on traditional knowledge system	Chalk / LCD	11-11-2020
Week 3	L7	the historical impact of social change on traditional knowledge system	Chalk / LCD	16-11-2020
	L8	Indigenous Knowledge (IK), characteristics, traditional knowledge vis-à-vis indigenous knowledge	Chalk / LCD	17-11-2020
	L9	traditional knowledge Vs western knowledge traditional knowledge vis-à-vis formal knowledge	Chalk / LCD	18-11-2020
UNIT II				
		Protection of traditional knowledge		
Week 4	L10	The need for protecting traditional knowledge	Chalk / LCD	23-11-2020
	L11	Significance of TK Protection	Chalk / LCD	24-11-2020
	L12	value of TK in global economy,	Chalk / LCD	25-11-2020
Week 5	L13	Role of Government to harness TK	Chalk / LCD	30-11-2020
	L14	Significance global economy	Chalk / LCD	2-12-2020
	L15	Harnessing TK	Chalk / LCD	3-12-2020
Week 6	L16	Analyze the value of tk in global economy	Chalk / LCD	7-12-2020
	L17	role of government	Chalk / LCD	8-12-2020
	L18	Significance of tk protection.	Chalk / LCD	9-12-2020
UNIT III				
		Legal framework and TK		



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Week 7	L19	the Scheduled Tribes and Other Traditional Forest Dwellers	Chalk / LCD	14-12-2020
	L20	Plant Varieties Protection	Chalk / LCD	15-12-2020
	L21	Farmers Rights Act,		16-12-2020
Week 8	L22	The Biological Diversity Act 2002	Chalk / LCD	21-12-2020
	L23	the protection of traditional knowledge bill,	Chalk / LCD	22-12-2020
	L24	Geographical indications act 2003	Chalk / LCD	23-12-2020
Week 9	L25	legal framework of TK	Chalk / LCD	28-12-2020
	L26	other traditional forest dwellers	Chalk / LCD	29-12-2020
	L27	plant variant protections	Chalk / LCD	30-12-2020
UNIT IV		Traditional knowledge and intellectual property		
Week 10	L28	Systems of traditional knowledge protection	Chalk / LCD	4-1-2021
	L29	Legal concepts for the protection of traditional knowledge	Chalk / LCD	5-1-2021
	L30	Certain non IPR mechanisms	Chalk / LCD	6-1-2021
Week 11	L31	traditional knowledge protection,	Chalk / LCD	18-1-2021
	L32	Patents and traditional knowledge, Strategies to increase protection of traditional knowledge	Chalk / LCD	19-1-2021
	L33	global legal FORA for increasing protection of Indian Traditional Knowledge.	Chalk / LCD	20-1-2021
UNIT V		Traditional knowledge in different sectors		
Week 12	L34	Traditional knowledge and engineering	Chalk / LCD	25-1-2021
	L35	Traditional medicine system, TK	Chalk / LCD	27-1-2021
	L36	and biotechnology, TK in agriculture, Traditional societies depend on it for their food and healthcare needs	Chalk / LCD	1-2-2021
Week 13	L37	Importance of conservation	Chalk / LCD	8-2-2021
	L38	sustainable development of environment	Chalk / LCD	10-2-2021
	L39	Management of biodiversity, Food security of the country and protection of TK	Chalk / LCD	17-2-2021


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					Lectures	Tutorials
MC	Essence of Indian Traditional Knowledge	II-II Mech-A	Mrs G Suneetha Rani Asst.Prof.	55	39	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to traditional knowledge		
Week 1	L1	Define traditional knowledge,	Chalk / LCD	2-11-2020
	L2	Define traditional nature and characteristics	Chalk / LCD	3-11-2020
	L3	scope and importance	Chalk / LCD	4-11-2020
Week 2	L4	kinds of traditional knowledge	Chalk / LCD	9-11-2020
	L5	the physical and social contexts in which traditional knowledge develop	Chalk / LCD	10-11-2020
	L6	he historical impact of social change on traditional knowledge system	Chalk / LCD	11-11-2020
Week 3	L7	he historical impact of social change on traditional knowledge system	Chalk / LCD	16-11-2020
	L8	Indigenous Knowledge (IK), characteristics, traditional knowledge vis-à-vis indigenous knowledge	Chalk / LCD	17-11-2020
	L9	traditional knowledge Vs western knowledge traditional knowledge vis-à-vis formal knowledge	Chalk / LCD	18-11-2020
UNIT II		Protection of traditional knowledge		
Week 4	L10	The need for protecting traditional knowledge	Chalk / LCD	23-11-2020
	L11	Significance of TK Protection	Chalk / LCD	24-11-2020
	L12	value of TK in global economy,	Chalk / LCD	25-11-2020
Week 5	L13	Role of Government to harness TK	Chalk / LCD	30-11-2020
	L14	Significance global economy	Chalk / LCD	2-12-2020
	L15	Harnessing TK	Chalk / LCD	3-12-2020
Week 6	L16	Analyze the value of tk in global economy	Chalk / LCD	7-12-2020
	L17	role of government	Chalk / LCD	8-12-2020
	L18	Significance of tk protection.	Chalk / LCD	9-12-2020
UNIT III		Legal framework and TK		



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Week 7	L19	he Scheduled Tribes and Other Traditional Forest Dwellers	Chalk / LCD	14-12-2020
	L20	Plant Varieties Protection	Chalk / LCD	15-12-2020
	L21	Farmers Rights Act,		16-12-2020
Week 8	L22	The Biological Diversity Act 2002	Chalk / LCD	21-12-2020
	L23	he protection of traditional knowledge bill,	Chalk / LCD	22-12-2020
	L24	Geographical indications act 2003	Chalk / LCD	23-12-2020
Week 9	L25	legal framework of TK	Chalk / LCD	28-12-2020
	L26	other traditional forest dwellers	Chalk / LCD	29-12-2020
	L27	plant variant protections	Chalk / LCD	30-12-2020
UNIT IV		Traditional knowledge and intellectual property		
Week 10	L28	Systems of traditional knowledge protection	Chalk / LCD	4-1-2021
	L29	Legal concepts for the protection of traditional knowledge	Chalk / LCD	5-1-2021
	L30	Certain non IPR mechanisms	Chalk / LCD	6-1-2021
Week 11	L31	traditional knowledge protection,	Chalk / LCD	18-1-2021
	L32	Patents and traditional knowledge, Strategies increase protection of traditional knowledge	Chalk / LCD	19-1-2021
	L33	global legal FORA for increasing protection of Indian Traditional Knowledge.	Chalk / LCD	20-1-2021
UNIT V		Traditional knowledge in different sectors		
Week 12	L34	Traditional knowledge and engineering	Chalk / LCD	25-1-2021
	L35	Traditional medicine system, TK	Chalk / LCD	27-1-2021
	L36	and biotechnology, TK in agriculture, Traditional societies depend on it for their food and healthcare needs	Chalk / LCD	1-2-2021
Week 13	L37	Importance of conservation	Chalk / LCD	8-2-2021
	L38	sustainable development of environment	Chalk / LCD	10-2-2021
	L39	Management of biodiversity, Food security of the country and protection of TK	Chalk / LCD	17-2-2021


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DEPARTMENT OF BASIC SCIENCE & HUMANITIES

COURSE PLAN- One copy to be submitted to the HOD one week before commencement of the Semester

Course Code	Course Title	Class/ Semester	Name of the Faculty/ Designation	No. of Students	Total periods / Semester / Year	
					Lectures	Tutorials
MC	Essence of Indian Traditional Knowledge	II-II Mech-B	Mrs G Suneetha Rani Asst.Prof.	52	39	00

Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to traditional knowledge		
Week 1	L1	Define traditional knowledge,	Chalk / LCD	3-11-2020
	L2	Define traditional nature and characteristics	Chalk / LCD	5-11-2020
	L3	scope and importance	Chalk / LCD	10-11-2020
Week 2	L4	kinds of traditional knowledge	Chalk / LCD	10-11-2020
	L5	the physical and social contexts in which traditional knowledge develop	Chalk / LCD	12-11-2020
	L6	the historical impact of social change on traditional knowledge system	Chalk / LCD	17-11-2020
Week 3	L7	the historical impact of social change on traditional knowledge system	Chalk / LCD	19-11-2020
	L8	Indigenous Knowledge (IK), characteristics, traditional knowledge vis-à-vis indigenous knowledge	Chalk / LCD	24-11-2020
	L9	traditional knowledge Vs western knowledge traditional knowledge vis-à-vis formal knowledge	Chalk / LCD	25-11-2020
UNIT II		Protection of traditional knowledge		
Week 4	L10	The need for protecting traditional knowledge	Chalk / LCD	26-11-2020
	L11	Significance of TK Protection	Chalk / LCD	27-11-2020
	L12	value of TK in global economy,	Chalk / LCD	1-12-2020
Week 5	L13	Role of Government to harness TK	Chalk / LCD	3-12-2020
	L14	Significance global economy	Chalk / LCD	4-12-2020
	L15	Harnessing TK	Chalk / LCD	6-12-2020
Week 6	L16	Analyze the value of tk in global economy	Chalk / LCD	8-12-2020
	L17	role of government	Chalk / LCD	10-12-2020
	L18	Significance of tk protection.	Chalk / LCD	13-12-2020
UNIT III		Legal framework and TK		



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Week 7	L19	he Scheduled Tribes and Other Traditional Forest Dwellers	Chalk / LCD	15-12-2020
	L20	Plant Varieties Protection	Chalk / LCD	15-12-2020
	L21	Farmers Rights Act,		17-12-2020
Week 8	L22	The Biological Diversity Act 2002	Chalk / LCD	22-12-2020
	L23	he protection of traditional knowledge bill,	Chalk / LCD	22-12-2020
	L24	Geographical indications act 2003	Chalk / LCD	24-12-2020
Week 9	L25	legal framework of TK	Chalk / LCD	29-12-2020
	L26	other traditional forest dwellers	Chalk / LCD	31-12-2020
	L27	plant variant protections	Chalk / LCD	31-12-2020
UNIT IV		Traditional knowledge and intellectual property		
Week 10	L28	Systems of traditional knowledge protection	Chalk / LCD	5-1-2021
	L29	Legal concepts for the protection of traditional knowledge	Chalk / LCD	7-1-2021
	L30	Certain non IPR mechanisms	Chalk / LCD	19-1-2021
Week 11	L31	traditional knowledge protection,	Chalk / LCD	27-1-2021
	L32	Patents and traditional knowledge, Strategies to increase protection of traditional knowledge	Chalk / LCD	28-1-2021
	L33	global legal FORA for increasing protection of Indian Traditional Knowledge.	Chalk / LCD	4-2-2021
UNIT V		Traditional knowledge in different sectors		
Week 12	L34	Traditional knowledge and engineering	Chalk / LCD	4-2-2021
	L35	Traditional medicine system, TK	Chalk / LCD	11-2-2021
	L36	and biotechnology, TK in agriculture, Traditional societies depend on it for their food and healthcare needs	Chalk / LCD	12-2-2021
Week 13	L37	Importance of conservation	Chalk / LCD	15-2-2021
	L38	sustainable development of environment	Chalk / LCD	16-2-2021
	L39	Management of biodiversity, Food security of the country and protection of TK	Chalk / LCD	18-2-2021

Signature of the Faculty:

Signature of the HoD:

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Avanthi Institute of Engg. & Tech.
Cherukupalli (Vill), Bhogapuram (M)
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					Lectures	Tutorials
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Week No	Lecture No.	Topic to be covered	Teaching Aid	Date on which completed*
UNIT I		Introduction to traditional knowledge		
Week 1	L1	Define traditional knowledge,	Chalk / LCD	2-11-2020
	L2	Define traditional nature and characteristics	Chalk / LCD	3-11-2020
	L3	scope and importance	Chalk / LCD	4-11-2020
Week 2	L4	kinds of traditional knowledge	Chalk / LCD	9-11-2020
	L5	the physical and social contexts in which traditional knowledge develop	Chalk / LCD	10-11-2020
	L6	he historical impact of social change on traditional knowledge system	Chalk / LCD	11-11-2020
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	L11	Significance of TK Protection	Chalk / LCD	24-11-2020
	L12	value of TK in global economy,	Chalk / LCD	25-11-2020
Week 5	L13	Role of Government to harness TK	Chalk / LCD	30-11-2020
	L14	Significance global economy	Chalk / LCD	2-12-2020
	L15	Harnessing TK	Chalk / LCD	3-12-2020
Week 6	L16	Analyze the value of tk in global economy	Chalk / LCD	7-12-2020
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	L18	Significance of tk protection.	Chalk / LCD	9-12-2020
UNIT III		Legal framework and TK		



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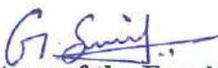
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	L20	Plant Varieties Protection	Chalk / LCD	15-12-2020
	L21	Farmers Rights Act,		16-12-2020
Week 8	L22	The Biological Diversity Act 2002	Chalk / LCD	21-12-2020
	L23	he protection of traditional knowledge bill,	Chalk / LCD	22-12-2020
	L24	Geographical indications act 2003	Chalk / LCD	23-12-2020
Week 9	L25	legal framework of TK	Chalk / LCD	28-12-2020
	L26	other traditional forest dwellers	Chalk / LCD	29-12-2020
	L27	plant variant protections	Chalk / LCD	30-12-2020
UNIT IV		Traditional knowledge and intellectual property:		
Week 10	L28	Systems of traditional knowledge protection	Chalk / LCD	4-1-2021
	L29	Legal concepts for the protection of traditional knowledge	Chalk / LCD	5-1-2021
	L30	Certain non IPR mechanisms	Chalk / LCD	6-1-2021
Week 11	L31	traditional knowledge protection,	Chalk / LCD	18-1-2021
	L32	Patents and traditional knowledge, Strategies to increase protection of traditional knowledge	Chalk / LCD	19-1-2021
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