

DEPARTMENT OF MECHANICAL ENGINEERING

COURSE STRUCTURE

For UG-R20

B. TECH - MECHANICAL ENGINEERING

(Applicable for batches admitted from 2020-2021)



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



DEPARTMENT OF MECHANICAL ENGINEERING

COURSE STRUCTURE

I Year - I SEMESTER

Sl. No	Course Code	Subjects	L	Т	P	Credits
1	BSC-1	Calculus & Differential Equations (M-I)	1			
2	BSC-2	Engineering Physics	3	0	0	3
3	ESC-1	Programming for Problem Solving	3	0	0	3
4	HSC-1	Communicative English	3	0	0	3
5	ESC-2	Engineering Drawing	3 2	0	0 2	3
6	BSC-L1	Engineering Physics Lab	0	0	3	1.5
7	ESC-L1	Programming for Problem Solving Using C Laboratory	0	0	3	1.5
8	HSC-L1	English Communication Skills Laboratory	0	0	3	1.5
9	MC -1	Environmental Science	2	0	0	0
		Total Credits				19.5

I Year - II SEMESTER

Sl.No	Course Code	Subjects	L	T	P	Credits
1	BSC-3	Linear Algebra & Numerical Methods (M-II)	3	0	0	3
2	BSC-4	Engineering Chemistry	3	0	0	3
3	ESC-3	Engineering Mechanics	3	0	0	3
4	ESC-4	Basic Electrical & Electronics Engineering	3	0	0	3
5	ESC-5	Thermodynamics	3	0	0	3
6	ESC-L2	Workshop Practice Lab	0	0	3	1.5
7	BSC-L2	Engineering Chemistry Laboratory	0	0	3	1.5
8	ESC-L3	Basic Electrical & Electronics Engineering Lab	0	0	3	1.5
9	MC-2	Constitution of India	2	0	0	0
		Total Credits				19.5

SRK INSTITUTE OF TECHNOLOGY



DEPARTMENT OF MECHANICAL ENGINEERING

I Voca I Composton		L	T	P	C
I Year - I Semester		2	0	0	0
	MENTAL SCIENCE				

	01		
earnin	g Ob	necti	ves:

The ob	iectives	of the	course	are to	impart:
THE CO	COLLICO	OT CITO	-course	cer e co	TTTTP COL C.

- ☐ Overall understanding of the natural resources.
- ☐ Basic understanding of the ecosystem and its diversity.
- ☐ Acquaintance on various environmental challenges induced due to unplanned anthropogenicactivities.
- ☐ 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-sports 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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DEPARTMENT OF MECHANICAL 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.

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; PearsonEducation, Chennai

Reference:

- 1. Text Book of Environmental Studies, Deeshita Dave & P. UdayaBhaskar, Cengage Learning.
- 2. A Textbook of Environmental Studies, Shaashi Chawla, TMH, New Delhi
- 3. Environmental Studies, Benny Joseph, Tata McGraw Hill Co, New Delhi
- 4. Perspectives in Environment Studies, Anubha Kaushik, C P Kaushik, New Age InternationalPublishers, 2014



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Department of Science and Humanities CLASS TIME TABLES

SRKIT / S & H /10.1

Academic Yea	r:2020-21		Cla	ss:ME		Semester	:1			
TIME	9.00-9.50	9.50-10.40	10.40-11.30	5 Min	11.35-12.25	12.25-1.15	1.15- 2.00	2.00-2.45	2.45-3.30	3.30 - 4.15
Hours / Day	1	2	, 3		4	5		6	7	8
MON		ED			СР	ENG] = [ES	M-I	COUNSELLING
TUE	M-I	ENG	EP	4	ES	M-I	O	EP	CP	SPORTS
WED		ENCLAD		RE	СР	ES	N	M-]		EP
THU	M-I	EP 🔩	M-I	1 =	CP	ENG]]		EP LAI	3
FRI	ENG	M-I	CP.		. M-I	EP	Ç A		CP LAI	B
SAT	EP -		ED		ED-			CP	EP	

English: N.Gayathri

Maths I: Mr.K.Basava Raju

Engg.Physics: Ms. B. Naga Jyothirmai

Programming for Problem Solving Using C: Ms. Sheik Rehana

Engg.Drawing: R.Kiran Kumar

Environmental Science: Dr.N.Sidevi

S&HHOD 8/2/2/

Labs

English Lab: N.Gayathri

Engg.Physics Lab: Mr. B. Naga Jyothirmai

Programming for Problem Solving Using C Lab: Ms. Sheik Rehana

PRINCIPAL



DEPARTMENT OF MECHANICAL ENGINEERING

COURSE STRUCTURE AND SYLLABUS

For

B. TECH MECHANICAL ENGINEERING

(Applicable for batches admitted from 2019-2020)



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



DEPARTMENT OF MECHANICAL ENGINEERING

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	P	Credits
1	BSC	Vector Calculus & Fourier Transforms	3			3
2	PCC-ME	Mechanics of Solids	3			3
3	PCC-ME	Material Science & Metallurgy	3			3
4	PCC-ME	Production Technology	3	-		3
5	PCC-ME	Thermodynamics	3	-		3
6	PCC-ME	Machine Drawing	1	-	3	2.5
7	PCC-Lab1	Metallurgy & Mechanics of Solids Lab		-	3	1.5
8	PCC-Lab2	Production Technology Lab	-		3	1.5
9	MC2101	Environmental Science	3			
10	PROJ-2101	Socially Relevant Project				0.5
		Total Credits	19		9	21

II YEAR II SEMESTER

S.No	Course Code	Course Title	L	T	P	Credits
1	BSC	Complex Variables & Statistical Methods	3	1	1	3
2	PCC-ME	Kinematics of Machinery	3	1	I	3
3	PCC-ME	Applied Thermodynamics	3	-	-	3
4	PCC-ME	Fluid Mechanics & Hydraulic Machines	3			3
5	PCC-ME	Metal Cutting & Machine Tools				3
6	PCC-ME	Design of Machine Members-I	3	-		3
7	PCC-Lab5	Fluid Mechanics & Hydraulic Machines Lab		1	3	1.5
8	PCC-Lab6	Machine Tools Lab			3	1.5
9	MC2201	Essence of Indian Traditional Knowledge	2		-	
		Total Credits	20		6	21

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DEPARTMENT OF MECHANICAL ENGINEERING

II Year - II Semester	L	T	P	C
	2	0	0	0
ESSENCE OF INDIAN T	RADITIONAL KNOWLEDGE	E		

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

IINIT

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:

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



DEPARTMENT OF MECHANICAL ENGINEERING

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

raditional 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:

- 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.

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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Jacob Comment



SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108. Department of Mechanical Engineering

CLASS TIME TABLE

SRKIT / ME / 10.1

Academic Year: 2020 - 21 Year: II ME

Semester: II

Class Incharge: V. Bala Chinalingam / D. Haritha Bramha

				SECTIO	W. E. F: 01/04/2021				
Time	9:00 to 9:50	9:50 to 10:40	10:45 to 11:35	11: 35 to 12:25		1:10 to 2:00	2:00 to 2:45	2:50 to 3:35	3:35 to 4:20
Period	1	2	3	4		5	6	7	8
MON	KOM	MCMT	FMHM	DMM-I	LUNCH	CVSM		FMHM LA	В
TUE	Dassualt	Systems	KOM	AT	N	DMM-I	FMHM	MCMT	Library
WED	MCMT	EITK	FMHM	AT	H	Counselling	KOM	DMM-I	CVSM
THU	FMHM	KOM	AT	MCMT		CVSM		MCMT LA	В
FRI	Dassualt	Systems	FMHM	DMM-I		KOM	CVSM	AT	DMM-I
SAT	MCMT	FMHM	KOM	AT		EITK	DMM-I	Sports	

:

Design Of Machine Members -I

Mr. R. Karun Kumar

Fluid Mechanics & Hydraulic Machines

Mr. P. Tarun Naga Venkatesh

Metal Cutting & Machine Tools

Ms. D. Haritha Bramha

Kinematics of Machines

Mr. V. Bala Chinalingam

Applied Thermodynamics

Mr. D. Sree Ram Prasad

Complex Variable & Statistical Methods

Ms. T. Prasanna

Essence of Indian Traditional Knowledge

Dr. N. Sridevi

FMHM LAB

Mr. V. Bala Chinalingam / V. Pavan Kumar

MCMT LAB

Mr. R. Karun Kumar / Haritha Bramha

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SRK INSTITUTE OF TECHNOLOGY

(Approved by AICTE & Affliated to JNTUK)
ISO 9001:2015 Certified Institutions
Enikepadu, Vijayawada 521108. (A.P.)

SRKIT/ME/10.1

Department of Mechanical Engineering

CLASS TIME TABLE

Academic Year: 2020 - 2021

Class: II ME I & II

Semester: I

				SECT	ION I				
Time	9:00 to 9:50	9:50 to 10:40	10:45 to 11:35	11: 35 to 12:25		1:10 to 2:00	2:00 to 2:45	2:50 to 3:35	3:35 to 4:20
Period	1	2	3	- 4		5	6	7	8
MON	TD	PT	MMS&N	IOS LAB	-	MMS	MOS	ES	SRP
·TUE	MOS	PT	VCFT	MMS	LUNCH	Counselling			
WED	VCFT	MOS	TD	VCFT	H		MD		Sports
THU	TD	MMS	MOS	ES		VCFT	PT	MOS *	MMS
FRI	VCFT	TD	MMS&N	IOS LAB		MD			Library
SAT	PT	ES	MMS	TD			PT LAB		

METALLURGY & MATERIAL SCIENCE

Mr. P. TARUN NAGA VENKATESH

PRODUCTION TECHNOLOGY

Mr. M. HARI KRISHNA

THERMODYNAMICS

Mr. D. SREE RAM PRASAD

MECHANICS OF SOLIDS

Mr. R. KIRAN KUMAR

VCFT

: Mr. K. BASAVARAJU

MACHINE DRAWING

Mr. G. DURGA PRASAD / Mr. R. KARUN KUMAR

ENVIRONMENT SCIENCE

Dr. N. SRIDEVI

SOCIAL RELEVANT PROJECT

Mr. P. MUTHAYYA

MMS & MOS LAB

Mr. V. PAVAN KUMAR

PRODUCTION TECHNOLOGY LAB

Mr. P. TARUN NAGA VENKATESH

HOD /Date

TRINCIPAL TECHNOLOGY INSTITUTE OF TECHNOLOGY



DEPARTMENT OFCIVIL ENGINEERING

COURSE STRUCTURE AND SYLLABUS

For

B. TECH CIVIL ENGINEERING

(Applicable for batches admitted from 2019-2020)



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



DEPARTMENT OFCIVIL ENGINEERING

I YEAR: I- SEMESTER

SI. No.	Course Code	Course Title	L	T	P	Credits
1	BS301	Complex Variables and Statistical Methods	3	0	0	3
2	PC301	Strength of Materials-I	3	0	0	3
3	PC302	Fluid Mechanics	3	0	0	3
4	ES301	Surveying and Geometrics'		0	0	3
5	PC303	Building Materials, Construction and Planning		0	0	3
6	PC304	Transportation Engineering-I	3	0	0	3
7	PC305	Strength of Materials Lab	0	0	3	1.5
8	PC306	Surveying Field Work – I	0	0	3	1.5
9	MC301	Constitution of India	2	0	0	0
		Total Credits				21

II YEAR: II- SEMESTER

Sl. No.	Course Code	Course Title	L	T	P	Credits
1	PC401	Strength of Materials-II	3	0	0	3
2	PC402	Hydraulics and Hydraulic Machinery	3	0	0	3
3	ES401	Engineering Geology	3	0	0	3
4	PC403	Transportation Engineering - II	3	0	0	3
5	PC404	Environmental Engineering - I	3	0	0	3
6	PC405	Engineering Geology Lab	0	0	2	1
7	PC406	Transportation Engineering Lab	0	0	3	1.5
8	PC407	Fluid Mechanics & Hydraulics Machinery Lab	0	0	3	1.5
9	MC401	Essence of Indian Traditional Knowledge/ Professional Ethics and Human Values	2	0	0	0
		Total Credits				19



DEPARTMENT OFCIVIL ENGINEERING

L T	P	C
2 0	0	0
	2 0	2 0 0
L 2	T 0	T P 0 0

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, LokSabha, RajyaSabha, 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: Organisation, 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 OFCIVIL ENGINEERING

UNIT-IV

A.Local Administration - District's Administration Head - Role and Importance, Municipalities - Mayor and role of Elected Representative - CEO of Municipal Corporation PachayatiRaj: Functions PRI: ZilaPanchayat, Elected officials and their roles, CEO ZilaPanchayat: 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 Zillapanchayat block level organisation

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 Commissiononerate
- Analyze role of state election commission
- Evaluate various commissions of viz SC/ST/OBC and women

References:

- Durga Das Basu, Introduction to the Constitution of India, Prentice Hall of India Pvt. Ltd.. New Delhi
- 2. SubashKashyap, Indian Constitution, National Book Trust
- 3. J.A. Siwach, Dynamics of Indian Government & Politics
- 4. D.C. Gupta, Indian Government and Politics
- 5. H.M.Sreevai, Constitutional Law of India, 4th edition in 3 volumes (Universal Law Publication)
- 6. J.C. Johari, Indian Government and Politics Hans
- 7. J. Raj IndianGovernment and Politics
- 8. M.V. Pylee, Indian Constitution Durga Das Basu, Human Rights in Constitutional Law, Prentice Hall of India Pvt. Ltd.. New Delhi
- Noorani, A.G., (South Asia Human Rights Documentation Centre), Challenges to Civil Right), Challenges to Civil Rights Guarantees in India, Oxford University Press 2012

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



DEPARTMENT OFCIVIL ENGINEERING

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 ie., 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



SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108 Department of Civil Engineering

CLASS TIME TABLE

SRKIT / CE / 10.1

Academic Year: 2020-21

Class: 11

Semester: I

w.e.f: 02-11-2020

		5	ECTIO	ON- I (Online)			
Period		2		3	T T	- 10	5
Time	9:00 -10:00	10:00 -11:00		· · · · · ·	4		
MON	SM-1	CVSM		11:15 -12:15	12:15 -01:15		02:00 -03.00 BMCP
TUE	TE-1	CVSM		TE-1	SG		SG
WED	FM	CVSM	BREAK	SM-1	FM BMCP	LUNCH	SG
THU	FM	CVSM		TE-1	BMCP	Ŧ	SG
FRI	SM-1	Col	,	FM	TE-I		SG
SAT	TE-1	CVSM		SM-1	FM		ВМСР

Subject

- 1.Strength of Materials (SM-1)
- 2. Building Material, Construction & Planning (BMCP)
- 3. Surveying & Geomatics (SG)
- 4.Fluid Mechanics (FM)
- 5. Transportation Engineering-I (TE-I)
- 6.Complex Variables & Statistical Methods (CVSM)
- 7. Constitution of India
- 8. SM Lab
- 9.Survey Lab

Faculty

Mrs. G.Sahithi

Mr. A Anoop Kumar

Mr. M Karthik Kumar

Mr. J Purna Chandra Rao

Mr. K Kiran

Mrs. T Prasanna& Mrs. Kalpana

Dr. N Sridevi

Mrs. G.Sahithi

Mr. M Karthik Kumar



DEPARTMENT OFCIVIL ENGINEERING

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SRK INSTITUTE OF TECHNOLOG'
ENIKEPADU, VIJAYAWADA



DEPARTMENT OFCIVIL ENGINEERING

I YEAR: I- SEMESTER

Sl. No.	Course Code	Course Title	L	T	P	Credits
1	BS301	Complex Variables and Statistical Methods	3	0	0	3
2	PC301	Strength of Materials-I	3	0	0	3
3	PC302	Fluid Mechanics	3	0	0	3
4	ES301	Surveying and Geometrics'	3	0	0	3
5	PC303	Building Materials, Construction and Planning	3	0	0	3
6	PC304	Transportation Engineering-I	3	0	0	3
7	PC305	Strength of Materials Lab	0	0	3	1.5
8	PC306	Surveying Field Work – I	0	0	3	1.5
9	MC301	Constitution of India	2	0	0	0
		Total Credits				21

II YEAR: II- SEMESTER

Sl. No.	Course Code	Course Title	L	T	P	Credits
1	PC401	Strength of Materials-II	3	0	0	3
2	PC402	Hydraulics and Hydraulic Machinery	3	0	0	3
3	ES401	Engineering Geology	3	0	0	3
4	PC403	Transportation Engineering - II	3	0	0	3
5	PC404	Environmental Engineering - I	3	0	0	3
6	PC405	Engineering Geology Lab	0	0	2	1
7	PC406	Transportation Engineering Lab	0	0	3	1.5
8	PC407	Fluid Mechanics & Hydraulics Machinery Lab	0	0	3	1.5
9	MC401	Essence of Indian Traditional Knowledge/ Professional Ethics and Human Values	2	0	0	0
		Total Credits				19



DEPARTMENT OFCIVIL ENGINEERING

II Year – II Semester	L	T	P	C
II Teal II Semester	2	0	0	0
Essence of Indian Knowled				
Professional Ethics and	Human Values			

Essence of Indian Knowledge Tradition Course Objectives

The course is introduced

- > To get a knowledge in Indian PhilosophicalFoundations.
- > To Know Indian Languages and Literature and the fine arts in India & TheirPhilosophy.
- > To explore the Science and Scientists of Medieval and ModernIndia

Course Outcomes

After successful completion of the course the students will be able to

- 1. Understand philosophy of Indianculture.
- 2. Distinguish the Indian languages and literature among differencetraditions.
- 3. Learn the philosophy of ancient, medieval and modernIndia.
- 4. Acquire the information about the fine arts inIndia.
- 5. Know the contribution of scientists of different eras.
- 6. The essence of Yogic Science for Inclusiveness of society.

UNIT-I

Introduction to Indian Philosophy: Basics of Indian Philosophy, culture, civilization, culture and heritage, general characteristics of culture, importance of culture in human literature, Indian culture, Ancient Indian, Medieval India, Modern India.

UNIT-II

Indian Philosophy & Literature: Vedas Upanishads, schools of Vedanta, and other religion Philosophical Literature. Philosophical Ideas the role of Sanskrit, significance of scriptures to current society, Indian Philosophies, literature of south India.

Indian languages and Literature-II: Northern Indian languages & Philosophical & cultural & literature.

UNIT-III

Religion and Philosophy: Religion and Philosophy in ancient India, Religion and Philosophy in Medieval India, Religious Reform Movements in Modern India (selected movements only)

UNIT - IV

Indian Fine Arts & Its Philosophy (Art, Technology & Engineering): Indian Painting, Indian handicrafts, Music, divisions of Indian classic music, modern Indian music, Dance and Drama, Indian Architecture (ancient, medieval and modern), Science and Technology in Indian, development of science in ancient, medieval and modern Indian.



DEPARTMENT OFCIVIL ENGINEERING

UNIT-V

Education System in India: Education in ancient, medieval and modern India, aims of education, subjects, languages, Science and Scientists of Ancient India, Scientists of Medieval India, Scientists of Modern India. The role Gurukulas in Education System, Value based Education.

Suggested Readings:

- 1. Kapil Kapoor, "Text and Interpretation: The India Tradition", ISBN: 81246033375,2005
- 2. "Science in Samskrit", Samskrita Bharti Publisher, ISBN-13:978-8187276333,2007
- 3. NCERT, "Position paper on Arts, Music, Dance and Theatre", ISBN 81-7450-494-X,2006
- 4. S. Narain, "Examination in Ancient India", Arya Book Depot, 1993
- 5. Satya Prakash, "Founders of Sciences in Ancient India", Vijay Kumar Publisher, 1989
- 6. M.Hiriyanna, "Essentials of Indian Philosophy", Motilal Banarsidass Publishers, ISBN-13: 978-8120810990,2014
- 7. Chatterjee. S & Dutta "An Introduction to IndianPhilosophy"

(or)

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. 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 II: 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 III: 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 IV: Engineers' Duties and Rights:

SRK INSTITUTE OF TECHNOLO ENIKEPADU, VIJAYAWADA



DEPARTMENT OFCIVIL ENGINEERING

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 V: 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.

Course Outcomes: 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.

TEXT BOOKS:

- 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.

REFERENCE BOOKS:

- 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 Human Values And Professional Ethics by Jayshree Suresh and B. S. Raghavan, S.Chand Publication



SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108 Department of Civil Engineering

CLASS TIME TABLE

SRKIT/CE/10.1

Academic Year: 2020-21

Class: II

Semester: II

W.E.F: 06-04-2021

				Sec	ction-	1			
Period	1	2	3	4		5	6	7	8
DAY	9:00 - 9:50	9:50 - 10:40	10:45 - 11:35	11:35 - 12:25		01:10 - 02.00	02:00 - 02:45	02:50 - 03:35	03:35 - 04:20
MON	EG	ННМ	PEHV	EE-I		SM-II	TE LAB	TEL	AB .
TUE	SM-II	EG	EE-I	TE-I	н	ннм	TE-I-(T)	RA	CE
WED	ннм	EG	EE-I	SM-II	LUNCH	TE-I	SM-II	SEMI	LIB
THU	TE-I	EE-I	EG	ННМ		SM-II	EG LAB	EG I	,AB
FRI	EE-I	EG-(T)	PEHV	TE-I		ННМ- (Т)	HHM LAB	ннм	LAB
SAT	EG	ннм	EE-I- (T)	TE-I		SM-II- (T)	COUNSEL	SPORTS	***

Subject

- 1. Strength of Materials-II (SM-II)
- 2.Environmental Engineering-I (EE-I)
- 3. Engineering Geology (EG)
- 4.Hydraulics & Hydraulic Machinery (HHM)
- 5. Transportation Engineering-II (TE-II)
- 6. Professional Ethics & Human Values (PEHV)
- 7.HHM Lab
- 8.TE Lab
- 9. EG Lab

Faculty

Mrs. G Sahithi

Ms. N. KranthiRekha

Dr. T Satyanarayana

Mr. M.Karthik Kumar

Mr. K. Kiran

MBA faculty (Mr.Srinivas)

Mr. M.Karthik Kumar

Mr. K Kiran

Dr. T satyanarayana/ Mrs. G Sahithi

HOD/Date 6 4 2 S. Sri Soum'
IQAC Coordinator/ Date
6 |4 |2|

PRINCIPAL

Mulles

SRKINTITUTE OF TECHNOLOG

Principal / Date



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

> PRINCIPAL SRX INSTITUTE OF TECHNOLOGY ENIKEPADU, VIJAYAWADA

Cullus ?



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



COURSE STRUCTURE-R19

II V II CEMECTED		L	T	P	C
II Year – II SEMESTER		3	0	0	0
PROFESSION	AL ETHICS AND HUMAN VA	LUES			

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.



COURSE STRUCTURE-R19

- 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.

UINIT 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.



COURSE STRUCTURE-R19

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

SRK INSTITUTE OF TECHNOLOGY VIJAYAWADA

SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108 Department of Electrical and Electronics Engineering

SRKIT/EEE/10.1

CLASS TIME TABLE

Academic Year: 2020-21

Class: II EEE (R19)

Semester: II

Day	9:00 to 9:50	9:50 to 10:40	10:45 to 11:35	11:35 to 12:25		1:10 to 2:00	2:00 to 2:45	2:50 to 3:35	3:35 to 4:20
MON	PS-I	DE	SS	EMI		EM-II	CS	PEHV	EM-II
TUE	EMI	EM-II	DE	PS-I	L		EM-	I LAB	
WED	DE	EMI	EM-II	CS	U	SS	PS-I	CS	EMI
THU	SS	DE	PS-I	CS	N	SS	PEHV	EMI	EM-II
FRI	CS	EMI	SS	EM-II	С		EDC	LAB	
SAT	SS	PS-I	DE	PEHV	H	DE	CS	PS-I	6) - 1 <u>-</u> 1111

Faculty:

Electrical Measurements and Instrumentation

: Mrs. T.Maha Lakshmi

Electrical Machines-II

: Mr. S.Nageswara Rao

Digital Electronics

: Mrs. CH.Gayathri

Control Systems

: Mrs. B.Indraja

Power Systems-I

: Mr. N.E.K.Chandra

Signals and Systems

: Mr. B. Vanajakshi

Professional Ethics and Human Values

: Mr.M.Sathis Kumar

Electrical Machines-I Lab

: Mr.S.Nageswara Rao/Mrs.T.Maha Lakshmi

Electronic Devices and Circuits Lab

: Mrs.B.Indraja/Mr. Atothilal

HOD/Date

PRINCIPAL 1319

ENIKEPADU. VIJAYAWADA

COURSE STRUCTURE AND SYLLABUS

For

MECHANICAL 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	Dynamics of Machinery	4			3
2	Metal Cutting & Machine Tools	4		-	3
3	Design of Machine Members-II	4			3
4	Operations Research	4		-	3
5	Thermal Engineering -II	4		-	3
6	Theory of Machines Lab	-		3	2
7	Machine Tools Lab			3	2
8	Thermal Engineering Lab	-		3	2
9	IPR & Patents		2	-	
	Total Credits				21

III YEAR - II Semester

S. No.	Subjects	L	T	P	Credits
1	Metrology	4		-	3
2	Instrumentation & Control Systems	4			3
3	Refrigeration & Air-conditioning	4			3
4	Heat Transfer	4			3
5	OPEN ELECTIVE 1. Entrepreneurship 2. Data Base Management System 3. Waste Water Management 4. Computer Graphics 5. Industrial Robotics 6. Green Engineering Systems	4			3
6	Heat Transfer Lab			3	2
7	Metrology & Instrumentation Lab	-		3	2
8	Computational Fluid Dynamics Lab			3	2
9MC	Professional Ethics & Human Values		3	-	
	Total Credits				21

L	T	P	(
0	3	0	0

PROFESSIONAL ETHICS & HUMAN VALUES

Course Objectives:

*To give basic insights and inputs to the student to inculcate Human values to grow as a responsible huma 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 – Fundamenta Duties - Aspirations and Harmony (I, We & Nature) – Gender Bias - Emotional Intelligence – Salovey – Maye 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 Standar Experiments — Learning from the Past - Engineers as Managers - Consultants and Leaders - Balanced Outloo on Law - Role of Codes - Codes and Experimental Nature of Engineering.

OUNIT IV: Engineers' Responsibilities towards Safety and Risk:

Concept of Safety - Safety and Risk - Types of Risks - Voluntary v/s Involuntary Risk - Consequences - Ris Assessment - Accountability - Liability - Reversible Effects - Threshold Levels of Risk - Delayed v/s Immediat 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 Loyalt - Consensus and Controversy - Professional and Individual Rights - Confidential and Proprietary Information Conflict of Interest-Ethical egoism - Collective Bargaining - Confidentiality - Gifts and Bribes - Probler solving-Occupational Crimes- Industrial Espionage- Price Fixing-Whistle Blowing.

SRK INSTITUTE OF TECHNOLOGS ENIKEPADU. VIJAYAWADA

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 i discharging professional duties.
- *It provides the student the sensitivity and global outlook in the contemporary world to fulfill the professional obligations effectively.

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- 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-PH 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 Jayashree Suresh and B. S. Raghavan, S.Chand Publications

SRK INSTITUTE OF TECHNOLOG ENKEPADU, VIJAYAWADA



SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108.

Department of Mechanical Engineering

SRKIT/ME/10.1

CLASS TIME TABLE

Academic Year: 2020-2021

Class: III ME I & II

Semester: II

Class Incharge: B. Nagendra

*				SECTIO	ΝI		W.	E. F: 01/0	4/2021
Ťime	9:00 to 9:50	9:50 to 10:40	10:45 to 11:35	11: 35 to 12:25		1:10 to 2:00	2:00 to 2:45	2:50 to 3:35	3:35 to 4:20
Period	1	2	3	4		5	6	7	8
MON	IR/CG	HT	DS/S	SPORTS	11	ICS	HT / MET / ICS LAB		
TUE	MET	IR/CG	ICS	HT	N	R&AC	PEHV	MET	R&AC
WED	IR/CG	R&AC	Library	Counselling	CH	HT	HT / MET / ICS LAB		LAB
THU	HT	IR/CG	HT	MET		R&AC	MET	ICS	Sports
FRI	IR/CG	ICS	DS/S	SPORTS		MET	CFD LAB		
SAT	ICS	IR/CG	HT	MET		PEHV	ICS	R&AC	-

Class Incharge: V. Pavan Kumar

				SECT	ION	04/2021			
Time	9:00 to 9:50	9:50 to 10:40	10:45 to 11:35	11: 35 to 12:25		1:10 to 2:00	2:00 to 2:45	2:50 to 3:35	3:35 to 4:20
Period	1	. 2	3	4		5	- 6	8	
MON	IR/CG	R&AC	MET	ICS	LI	HT	CFD LAB		
TUE	ICS	IR/CG	DS / SPC	ORTS	UNCH	MEŢ	HT/MET/ICS LAB		
WED	IR/CG	HT	HT	R&AC	H	ICS	MET PEHV St		Sports
THU	R&AC	IR/CG	Counselling	Library		HT	ICS	R&AC	MET
FRI	IR/CG	HT	MET	ICS		R&AC	HT/MET/ICS LAB		LAB
SAT	MET	IR/CG	DS / SPC	ORTS	1	HT	PEHV	ICS	-

Industrial Robotics

: Mr. R.Karun Kumar

Computer Graphics

: Mr. A.Stanly Kumar

Heat Transfer

Ms. Y.Durga Bhavani

Instrumentation and Control systems

Mr. G. Durga Prasad

Metrology

Mr. V. Pavan Kumar

Refrigeration and air conditioning

Mr. B. Nagendra

Professional Ethics and Human Values

: Ms. M.Indraja

MET/ICS LAB

Ms. P.Bhagya Lakshmi / Mr.U.Tanoj

HT LAB

: Mr.D.Sree Ram Prasad/Ms. Y.Durga Bhavani

CFD LAB

Mr. M. Hari Krishna/Mr. P.Tarun Naga Venkatesh

BRK INSTITUTE OF TECHNOLOG ENIKEPADU, VIJAYAWADA

G D / Dat



DEPARTMENT OF INFORMATION TECHNOLOGY COURSE STRUCTURE AND SYLLABUS

For

B. Tech INFORMATION TECHNOLOGY

(Applicable for batches admitted from 2019-2020)



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



DEPARTMENT OF INFORMATION TECHNOLOGY

II Year - I SEMESTER

S.No	Course Code	Courses	L	T	P	Credits
1	IT2101	Discrete Mathematical Structures	3	0	0	3
2	IT2102	Principles of Software Engineering	3	0	0	3
3	ES2101	Python Programming	3	0	0	3
4	IT2103	Data Structures	3	0	0	3
5	IT2104	Computer Organization	3	0	0	3
6	IT2105	Object Oriented Programming through C++	3	0	0	3
7	ES2102	Python Programming Lab	0	0	3	1.5
8	IT2106	Data Structures through C++ Lab	0	0	3	1.5
9	MC2101	Essence of Indian Traditional Knowledge	3	0	0	0
10	MC2102	Employability Skills - I*	2	0	0	0
		Total	23	0	6	21

II Year - II SEMESTER

S.No	Course Code	Courses	L	T	P	Credits
1	BS2201	Probability and Statistics	3	0	0	3
2	IT2201	Java Programming	2	1	0	3
3	IT2202	Operating Systems	3	0	0	3
4	IT2203	Database Management Systems	3	0	0	3
5	IT2204	Theory of Computation	3	0	0	3
6	IT2205	Java Programming Lab	0	0	3	1.5
7	IT2206	UNIX Operating Systems Lab	0	0	2	1
8	IT2207	Database Management Systems Lab	0	0	3	1.5
9	MC2201	Professional Ethics & Human Values	3	0	0	0
10	PR2201	Socially Relevant Project*	0	0	2	1
		Total	17	1	10	20



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

DEPARTMENT OF INFORMATION TECHNOLOGY

II Year – II Semester	L	T	P	C
11 Tear – 11 Semester	3	0	0	0
PROFESSIONAL ETI	IICS & 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.
- 3. Learn time management
- 4. Learn about the different professional roles.

PRINCIPAL SRK INSTITUTE OF TECHNOLOG' ENIKEPADU, VIJAYAWADA



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

DEPARTMENT OF INFORMATION TECHNOLOGY

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.

UINIT 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.

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-
- 7) "Indian Culture, Values and Professional Ethics" by PSR Murthy-BS Publication.



Enikepadu, Vijayawada 521108
(ISO 9001:2015 Certified Institution)
DEPARTMENT OF INFORMATION TECHNOLOGY
CLASS TIME TABLE

SRKIT / IT / 10.1

II/IV B. Tech - II SEM Time Table (2020 - 21)

W.E.F.: 05/04/2021

PERIOD	1	2	3	4		5	6	7	8
TIME/ DAY	9:00A.M to 09.50 A.M	09.50A.M to 10.40A.M	10.45 A.M to 11.35 A.M	11.35 A.M to 12.25P.M	Break	01.10P.M to 02.00P.M	02.00 P.M to 02.45 P.M	02.50P.M to 03.35 P.M	03.35P.M to 04.20 P.M
Mon	U	NIX OS LA	В	COUNSE LING	Lunch Br	тос	P&S	DBMS	OS(T)
TUE	TOC	JAVA	DBMS	P&S	P.M	SI	RP	TOC(T)	JAVA
WED	JAVA	os	тос	DBMS	to 01.10	JAVA	LAB/DBM	S LAB	SPORTS
THU	DBMS	S LAB/JAV	A LAB	LIBRAR Y	2.25P.M	P&S	JAVA(T)	os	PEHV
FRI	DBMS	os	JAVA	тос	12	DBMS	os	PEHV	P&S(T)
SAT	P&S	TOC	os	JAVA		DBMS(T)	P&S	COUNS ELING	-

NAME OF THE SUBJECT

OS

JAVA

P&S

DBMS

TOC

PE&HV

UNIX OS LAB

JAVA LAB

DBMS LAB

SRP

NAME OF THE FACULTY

Mrs. Amritha Mishra

Mr.G.D.K.Kishore

Mrs.G.Koteswaramma @

Mrs.A. Veda Sri

Mr.M.Ram Bhupal

Ms.Indraja(Mba)

Mrs. Amritha Mishra/ Mrs. Y. V. Nandini (2)

Mr.G.D.K.Kishore/ Mrs.A. Vedasri/

P.Sai Charitha

Mrs. A. Veda Sri/ Mr. G.D. K. Kishore

Mrs. Y. V. Nandini/S. Moshe Dayan

IT HOD

PRINCIPAL SRX INSTITUTE OF TECHNOLOGY

ENIKEPADU. VIJAYAWADA

COURSE STRUCTURE AND SYLLABUS

For

CIVIL ENGINEERING

(Applicable for batches admitted from 2016-2017)



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

IV Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Environmental Engineering - II	4		-	3
2	Water Resource Engineering - II	4		-	3
3	Geotechnical Engineering - II	4	<u>-</u>	-	3
4	Remote Sensing & GIS Applications	4			3
5	i. Finite Element Methods ii. Ground Improvement Techniques iii. Air Pollution & Control iv. Urban Hydrology v. Traffic Engineering	4		-	3
6	i. Advanced Structural Engineering ii. Advanced Foundation Engineering iii.Environmental Impact Assessment & Management iv.Ground Water Development v. Pavement Analysis and Design	4	- (-	3
7	IPR & Patents	-	2	-	_
8	GIS & CAD Lab			2	2
9	Irrigation Design & Drawing			2	2
	Total Credits				22

IV Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Estimation Specification & Contracts	4	-	-	3
2	Construction Technology & Management	4		-	3
3	Prestressed Concrete	4			3
4	i. Bridge Engineering ii. Soil Dynamics and Foundations iii. Solid and Hazardous Waste Management iv. Water Resources Systems Planning v. Urban Transportation Planning Engg	4	-	-	3
5	Seminar on Internship Project		3		2
6	Project		-		10
	Total Credits				24

Total Course Credits = 48+44+42+46=180

IV Year - I Semester

L	T	P	C
0	2	0	0

IPR & PATENTS

Objectives:

- *To know the importance of Intellectual property rights, which plays a vital role in advanced Technical and Scientific disciplines.
- *Imparting IPR protections and regulations for further advancement, so that the students can familiarize with the latest developments.

UNIT I: Introduction to Intellectual Property Rights (IPR)

Concept of Property - Introduction to IPR - International Instruments and IPR - WIPO - TRIPS - WTO -Laws Relating to IPR - IPR Tool Kit - Protection and Regulation - Copyrights and Neighboring Rights - Industrial Property - Patents - Agencies for IPR Registration - Traditional Knowledge - Emerging Areas of IPR - Layout 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 of Copyright – Copyright Ownership – Transfer and Duration – Right to Prepare Derivative Works –Rights of Distribution – Rights of Performers – Copyright Registration – Limitations – Infringement of Copyright – Relief 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 Process Patent - Patent Search - Patent Registration and Granting of Patent - Exclusive Rights - Limitations - Ownership and Transfer — Revocation of Patent - Patent Appellate Board - Infringement of Patent - Compulsory Licensing — Patent Cooperation Treaty - New developments in Patents - Software Protection and Computer related Innovations.

UNIT IV: Trademarks

Introduction to Trademarks – Laws Relating to Trademarks – Functions of Trademark – Distinction between Trademark and Property Mark – Marks Covered under Trademark Law - Trade Mark Registration – Trade Mark 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 Transactions - E-commerce - Data Security – Authentication and Confidentiality - Privacy - Digital Signatures – Certifying Authorities - Cyber Crimes - Prevention and Punishment – Liability of Network Providers.

· Relevant Cases Shall be dealt where ever necessary.

Outcome:

- * IPR Laws and patents pave the way for innovative ideas which are instrumental for inventions to seek Patents.
- *Student get an insight on Copyrights, Patents and Software patents which are instrumental for further advancements.

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.
- 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.



Enikepadu, Vijayawada 521108 Department of Civil Engineering

SRKIT / CE / 10.1

CLASS TIME TABLE

Academic Year: 2020-21

Class: IV

Semester: 1

w.e.f: 02-11-2020

			_	Sec	tion- I				
Period	1	2	3	4	T	Т-	T ,	7	8
DAY	9:00 - 9:50	9:50 - 10:40	10:45 - 11:35	11:35 -		5 01:10 -	6 02:00 -	02:50 -	03:35 - 04:20
MON	EE-II	RS&GIS	GWDM	WRE-II		GTE-II	02:45 GIT	03:35 IPR	COUNSE
TUE	EE-II	RS&GIS	WRE-II	GIT	1-	GTE-II	GWDM	RS&GIS-	GWDM- (T)
WED	EE-II	STA	AAD&GIS I	AB	LUNCH	GTE-II	WRE-II- (T)	GWDM	IPR
THU	EE-II	RS&GIS	WRE-II	GIT	1	GTE-II	GWDM	RA	CE
FRI	EE-II	RS&GIS	WRE-II	GIT		GTE-II		DDIS Drawin	ıg
SAT	EE-II- (T)	RS&GIS	GIT-(T)	GTE-II- (T)		LIBRA RY	WRE-II	SPORTS	***

Subject

- 1.Environmental Engineering-II (EE-II)
- 2. Water Resources Engineering-II (WRE-II)
- 3.Geo-Technical Engineering-II (GTE-II)
- 4. Ground Water Development Management (GWDM)
- 5.Remote Sensing & GIS (RS&GIS)
- 6.Ground Improvement Techniques (GIT)
- 7.Irrigation Design & Drawing (DDIS)
- 8.STAAD&GIS LAB

9.IPR

Faculty

Ms. N.KranthiRekha

Mr. J Purna Chandra Rao

Mrs.A Krishna Priya

Mr. K.ChandraPadmakar

Mr. A Anoop Kumar

Mr. K Kiran

Mrs.A Krishna Priya/Mr. J Purna Chandra Rao

Mr. A Anoop Kumar

Mrs. M Indraja (MBA)

HOD/pate / 02/11/20

Seri Gourdinator/Date
2/11/20

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Enikepadu, Vijayawada 521108 Department of Civil Engineering

CLASS TIME TABLE

SRKIT / CE / 10.1

Academic Year: 2020-21

Class: IV

Semester: I

w.e.f: 02-11-2020

				Sect	ion- I	I			
Period	1	2	3	4		5	6	7	8
DAY	9:00 - 9:50	9:50 - 10:40	10:45 - 11:35	11:35 - 12:25		01:10 - 02.00	02:00 - 02:45	02:50 - 03:35	03:35 - 04:20
MON	GTE-II	WRE-II	EE-II	RS&GIS		GIT		AAD&GIS I	.AB
TUE	GTE-II	WRE-II	EE-II	RS&GIS		GWDM		DDIS Drawin	g
WED	GTE-II	WRE-II	EE-II	RS&GIS	LUNCH	GIT	GWDM	IPR	COUNSE
THU	GTE-II	WRE-II	EE-II	RS&GIS	7	GWDM	GIT	RA	CE
TRI .	GTE-II	WRE-II	EE-II	RS&GIS		GIT	GWDM- (T)	LIBRAR Y	SPORTS
SAT	GTE-II- (T)	WRE-II- (T)	GWDM	EE-II-(T)		RS&GIS -(T)	GIT-(T)	IPR	***

Subject

- 1.Environmental Engineering-II (EE-II)
- 2. Water Resources Engineering-II (WRE-II)
- 3.Geo-Technical Engineering-II (GTE-II)
- 4. Ground Water Development Management (GWDM)
- 5.Remote Sensing & GIS (RS&GIS)
- 6.Ground Improvement Techniques (GIT)
- 7.Irrigation Design & Drawing (DDIS)
- 8.STAAD&GIS LAB

9.IPR

Faculty

Ms. N.KranthiRekha

Mr. J Purna Chandra Rao

Mrs.A Krishna Priya

Mr. K.ChandraPadmakar

Mr. M Karthik Kumar

Mrs. G. Sahithi

Mrs.A Krishna Priya/

Mr. J Purna Chandra Rao

Mr. A Anoop Kumar

Mrs. M Indraja (MBA)

HOD/Date 7

IQAC Coordinator Date

PRINCIPAL
SRK II NOTH E OF TECHNOLOGY
ENIVER DATE
Principal Pare

COURSE STRUCTURE AND SYLLABUS

For

ELECTRICAL AND ELECTRONICS ENGINEERING

(Applicable for batches admitted from 2016-2017)



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

PRINCIPAL

SRX INSTITUTE OF TECHNOLOG'

ENIKEPADU, VIJAYAWADA

PROFESSIONAL ETHICSAND 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.

SRK INSTITUTE OF TECHNOLOGY

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. Javakumaran 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

SRK INSTITUTE OF TECHNOLOGY VIJAYAWADA

SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108 Department of Electrical and Electronics Engineering

SRKIT/EEE/10.1

CLASS TIME TABLE

Academic Year: 2020-21

Class: III EEE

Semester: II

Day	9:00 to 9:50	9:50 to 10:40	10:45 to 1:35	11:35 to 12:25		1:10 to :00	2:00 to 2:45	2:50 to 3:35	3:35 to 4:20
MON	DS	PSA	EACM	МРМС			PELAB/ M	IPMC LAB	
TUE	MPMC	PEHV	PSA	PECD	L	MPMC	EACM	DS	ECAM
WED	PECD	PEHV	MPMC	EACM	U	PSA	DS	MPMC	PECD
THU	PSA	PECD	DS	MPMC	N		MPMC LA	B/ PE LAE	1
FRI	EACM	PECD	PEHV	PSA	С		DS	LAB	
SAT	PECD	DS	PSA	EACM	п	DS	ASSOCI	ATION	-

Faculty:

Power Electronic Controllers and Drives

: Mr. S.Nageswara Rao

Power System Analysis

: Mrs.T.Maha Lakshmi

Micro Processors and Micro Controllers

: Mrs. CH.Gayathri

Energy Audit and Conservation & Management

: Mr. N.E.K.Chandra P&

Data Structures

: Mr. M. Venkata Lakshmi

Professional Ethics and Human Values

: Mr.M.Sathis Kumar

Power Electronics Lab

: Mr.K.Satyanarayana/Mr.N.E.K.Chandra

Microprocessors & Microcontrollers Lab

: Mr.CH.Gayathri/Mr.P.Ravindra

Data Structures Lab

: Mr.M.Venkata Lakshmi /T.Venkateswara Rao

PRINCIPAL HOD/Date

COURSE STRUCTURE AND SYLLABUS

For

MECHANICAL ENGINEERING

(Applicable for batches admitted from 2016-2017)



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

L T P C 0 0

IPR & PATENTS

Objectives:

- *To know the importance of Intellectual property rights, which plays a vital role in advanced Technica and Scientific disciplines.
- *Imparting IPR protections and regulations for further advancement, so that the students can familiariz with the latest developments.

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 - Industria Property - Patents - Agencies for IPR Registration - Traditional Knowledge - Emerging Areas of IPR - Layou Designs and Integrated Circuits - Use and Misuse of Intellectual Property Rights.

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Introduction to Patents - Laws Relating to Patents in India - Patent Requirements - Product Patent and Proces
Patent - Patent Search - Patent Registration and Granting of Patent - Exclusive Rights - Limitations - Ownershi
and Transfer — Revocation of Patent - Patent Appellate Board - Infringement of Patent - Compulsory Licensin
— Patent Cooperation Treaty - New developments in Patents - Software Protection and Computer relate
Innovations.

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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

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Relevant Cases Shall be dealt where ever necessary.

Outcome:

- * IPR Laws and patents pave the way for innovative ideas which are instrumental for inventions to see Patents.
- *Student get an insight on Copyrights, Patents and Software patents which are instrumental for furthe advancements.

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.



(Approved by AICTE & Affliated to JNTUK)
ISO 9001:2015 Certified Institutions
Enikepadu, Vijayawada 521108. (A.P.)

SRKIT / ME / 10.1

Department of Mechanical Engineering

CLASS TIME TABLE

Academic Year: 2020 - 2021

Class: III ME I & II

Semester: I

				SECTIO	NI				
Time	9:00 to 9:50	9:50 to 10:40	10:45 to 11:35	11: 35 to 12:25		1:10 to 2:00	2:00 to 2:45	2:50 to 3:35	3:35 to 4:20
Period	1	2	3	4		5	6	7	8
MON	DMM-II	T	E / MCMT LA	AB	L	OR	IPR	DOM	Library
TUE	TE-II	DOM	MCMT	OR	S	MCMT	OR	Counselling	DMM-II
WED	DMM-II	DOM	OR	MCMT	H	TE-II	T	OM / MCMT I	AB
THU	DOM	OR	DMM-II	MCMT		TE-II	DMM-II	OR	Sports
FRI	DMM-II		TE / TOM LA	В		TE-II	OR	TE-II	MCMT
SAT	IPR	MCMT	DMM-II	OR		DOM	TE-II	MCMT	-

				SECTIO	II NO				
Time	9:00 to 9:50	9:50 to 10:40	10:45 to 11:35	11: 35 to 12:25		1:10 to 2:00	2:00 to 2:45-	2:50 to - 3:35	3:35 to 4:20
Period	1	2	3	4		5	6	7	8
MON	DOM	OR	DMM-II	DOM	2	DMM-II	MCMT	OR	Sports
TUE	DMM-II	OR	IPR	TE-II	LUNCH	DOM	r T	E / MCMT LA	В
WED	OR	MCMT	DMM-II	DOM	H	MCMT	TE-II	OR	TE-II
THU	DMM-II	IPR	TE-II	OR		DOM	TO	OM / MCMT LA	AB
FRI	IPR	DMM-II	MCMT	OR		Library	TE-II	Counselling	OR
SAT	OR		TE / TOM LA	ΔB		TE-II	OR	DMM-II	

DYNAMICS OF MACHINERY : Mr. V. BALA CHINALINGAM

METAL CUTTING & MACHINE TOOLS : Ms. D. HARITHA BRAMHA

DESIGN OF MACHINE MEMBERS – II : Mr. R. KARUN KUMAR

OPERATIONS RESEARCH : Ms. T. PRASANNA

THERMAL ENGINEERING – II : Ms. Y. DURGA BHAVANI

THEORY OF MACHINES LAB : Mr. V. BALA CHINALINGAM

MACHINE TOOLS LAB : Ms. D. HARITHA BRAHMA / Ms. P. BHAGYA LAKSHMI

Me V DURGA BHAVANI / Mr. D. SREE RAM PRASAD

THERMAL ENGINEERING LAB : WIS. Y. DUKGA BRAVARY MIT. D. SALD ALLES

IPR : Ms. M. INDRAJA

SRK INSTITUTE OF TECHNOLOGY AND STATE OF TECHNOLOGY AN

COURSE STRUCTURE AND SYLLABUS FOR

INFORMATION TECHNOLOGY

(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	Human Computer Interaction	4			3
2	Unix and Shell Programming	4			3
3	Advanced Java Programming	4			3
4	Database Management Systems	4			3
5	Operating Systems	4			3
6	Advanced Java Programming Lab				2
7	Unix and Operating Systems 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			3
2	Data Mining	4			3
3	Web Technologies	4		-	3
4	Software Testing Methodologies	4		-/2	3
5	i. Artificial Intelligence ii. Social Networks and Semantic Web iii.Digital Signal Processing iv.Embbeded Systems v. Robotics vi.Operations Research	4		-	3
6	Web Technologies Lab			3	2
7	Software Testing Lab			3	2
8	Data Mining Lab			3	2
9	IPR & Patents	-	2	-	
	Total Credits				21

INTELLECTUAL PROPERTY RIGHTS AND PATENTS

Objectives:

- *To know the importance of Intellectual property rights, which plays a vital role in advanced Technical and Scientific disciplines.
- *Imparting IPR protections and regulations for further advancement, so that the students can familiarize with the latest developments.

Unit I: Introduction to Intellectual Property Rights (IPR)

Concept of Property - Introduction to IPR - International Instruments and IPR - WIPO - TRIPS -WTO -Laws Relating to IPR - IPR Tool Kit - Protection and Regulation - Copyrights and Neighboring Rights - Industrial Property - Patents - Agencies for IPR Registration - Traditional Knowledge -Emerging Areas of IPR - Layout 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 of Copyright - Copyright Ownership - Transfer and Duration - Right to Prepare Derivative Works -Rights of Distribution - Rights of Performers - Copyright Registration -Limitations - Infringement of Copyright - Relief 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 Process Patent - Patent Search - Patent Registration and Granting of Patent -Exclusive Rights - Limitations - Ownership and Transfer - Revocation of Patent - Patent Appellate Board - Infringement of Patent - Compulsory Licensing - Patent Cooperation Treaty - New developments in Patents - Software Protection and Computer related Innovations.

UNIT IV: Trademarks

Introduction to Trademarks - Laws Relating to Trademarks - Functions of Trademark -Distinction between Trademark and Property Mark - Marks Covered under Trademark Law -Trade Mark Registration - Trade Mark 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

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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 Transactions - E-commerce - Data Security – Authentication and Confidentiality - Privacy - Digital Signatures – Certifying Authorities - Cyber Crimes - Prevention and Punishment – Liability of Network Providers.

Relevant Cases Shall be dealt where ever necessary.

Outcome:

- * IPR Laws and patents pave the way for innovative ideas which are instrumental for inventions to seek Patents.
- *Student get an insight on Copyrights, Patents and Software patents which are instrumental for further advancements.

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.



Enikepadu, Vijayawada 521108 (ISO 9001:2015 Certified Institution) DEPARTMENT OF INFORMATION TECHNOLOGY **CLASS TIME TABLE**

SRKIT / IT / 10.1

III/IV B. Tech - II SEM Time Table (2020 - 21) W.E.F.: 05/04/2021

PERIOD	1	2	3	4		5	6	7	8
TIME/ DAY	9:00A.M to 09.50 A.M	09.50A.M to 10.40A.M	10.45 A.M to 11.35 A.M	11.35 A.M to 12.25P.M	Break	01.10P.M to 02.00P.M	02.00 P.M to 02.45 P.M	02.50P.M to 03.35 P.M	03.35P.M to 04.20 P.M
Mon	CN	DM	WT	STM	Lunch Br	WT LAB/DM LAB			COUNSE LING
TUE	STM	IPR	DM	OR	P.M.L.	CN	WT(T)	STM	LIBRAR Y
WED		STM LAB	WT	01.10	DM(T)	OR	STM	IPR	
THU	DM	CN OR DM			2	ONLINE TRAINING COURSE			CN(T)
Fri	CN	DM LAB/WT LAB			12.25P.M	OR	WT	STM(T	COUNSE LING
SAT	WT	STM	OR	CN	-	DM	WT	OR(T)	-

NAME OF THE SUBJECT

DM

STM

CN

WT

OR

WT LAB

STM LAB

DM LAB

IPR

NAME OF THE FACULTY

Mrs.G.Sri Lakshmi

Mrs.A. Veda Sri

Mr.M.Suresh Babu

Mr.G.D.K.Kishore

Mrs. Y. V. Nandini

Mr.G.D.K.Kishore/ P.Sai Charitha

Mrs.G.Sri Lakshmi

Mr.M.Suresh Babu/ Mr.M.Ram Bhupal

Mrs.G.Sri Lakshm/ Mr.M.Suresh Babu

P.Sai Charitha

Ms.Indraja(Mba)

Tulling IT-HOD SRK INSTITUTE OF TECHNOLOGY ENIKEPADU, VIJAYAWADA

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	2 Unix Programming 3 Object Oriented Analysis and Design using UML				3
3					
4	Database Management Systems				3
5	Operating Systems				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	12.70	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.Embbeded 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

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PROFESSIONAL ETHICSAND 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.

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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.
- 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



Enikepadu, Vijayawada 521108 Approved by AICTE, Affiliated to JNTUK, Kakinada (ISO 9001:2015 Certified Institution)

Department of Computer Science and Engineering **CLASS TIME TABLE**

SRKIT / CSE / 10.1

Academic Year: 2020-2021

Class: III

Semester: I

Wef: 17-8-2020

			Section: A &	В		
Time	9:30 To 10:30	10:30 To 11:30	11:30 To 12:30		2:00 To 3:00	3:00 To 4:00
Period	1	2	3 .	LUNCH	5	6
MON	os	ČD	DBMS		UNIX PROG	OOAD
TUE	os	CD	DBMS		UNIX PROG	OOAD
WED	os	CD	DBMS		UNIX PROG	OOAD
THU	OS	PE&HV	DBMS		UNIX PROG	OOAD
FRI	OS	CD	DBMS		PE&HV	OOAD
SAT	os	CD	CD DBMS		UNIX PROG	PE&HV

SUBJECTS

FACULTY

Compiler Design

Dr. B. Asha Latha

Unix Programming

K. Srilakshmi

OOAD Using UML

D.V.V. Brahmachari

Database Management Systems

N. Sudhakar Reddy

Operating Systems

P. Usha Sree

Professional Ethics & Human Values

M. Indraja

UML Lab

DBMS Lab

OS/Linux Lab

D.V.V. Brahmachari/T.Ganesh Kumar N. Sudhakar Reddy/U.Hari Krishna

P. Usha Sree/ Ch.Satyanarayana

SRK INSTITUTE OF TECHNOLOG HOD /Date 17 ENIKEPADU. VIJAYAWADA