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

DETAILS OF SYLLABUS IN CURRICULUM

COURSES OFFERED IN CURRICULUM

A.Y:-2022-23

BRANCH	SEM -I	SEM-II
CIVIL-II (R20)	Constitution of India	
CIVIL-III (R20)	Professional Ethics and Human Values	
ECE-I (R20)		Environmental Science
ECE-II (R20)		Constitution of India
ECE-III (R20)	Indian Traditional Knowledge	
CSE-I (R20)		Environment Science
CSE-II (R20)	Constitution of India	
AIML-I (R20)	Environmental Science	Constitution of India
AIML-II(R20)	Essence of Indian Traditional Knowledge	
CSE-AI-I (R20)	Environmental Science	Constitution of India

PRINCIPAL
KRISHNA CHAITANYA INSTITUTE
OF TECHNOLOGY & SCIENCES
Devarajugattu (Village)
Peddaraveedu Mdl, Prakasam Dt. A P

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

DEPARTMENT OF CIVIL ENGINEERING

II Year – I SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	BSC301	Mathematics -III (Vector Calculus, Transforms and PDE)	3	0	0	3
2	PCC301	Strength of Materials - I	3	0	0	3
3	PCC302	Fluid Mechanics	3	0	0	3
4	PCC302	Surveying and Geometrics	3	0	0	3
5	PCC303	Highway Engineering	3	0	0	3
6	PCC304	Concrete Technology Lab	0	0	3	1.5
7	PCC305	Highway Engineering Lab	0	0	3	1.5
8	PCC306	Surveying Field Work – I (Lab)	0	0	3	1.5
9	SC301	**Skill oriented course***	1	0	2	2
10	MC301	Constitution of India	2	0	0	0
		Total Credits				**21.5**

II YEAR – II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	PC401	Complex Variables and Statistical Methods	3	0	0	3
2	PC402	Strength of Materials -II	3	0	0	3
3	ES401	Hydraulics and Hydraulic Machinery	3	0	0	3
4	PC403	Environmental Engineering	3	0	0	3
5	PC404	Managerial Economics & Financial Analysis	3	0	0	3
6	PC405	Environmental Engineering Lab	0	0	3	1.5
7	PC406	Strength of Material Lab	0	0	3	1.5
8	PC407	Fluid Mechanics & Hydraulics Machinery Lab	0	0	3	1.5
9	SC401	**Skill oriented course***	1	0	2	2
		Total Credits				**21.5**
	Honors/ Minor courses **(The hours distribution can be 3-0-2 or 3-1-0 also)**		3	1	0	4

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

DEPARTMENT OF CIVIL ENGINEERING

II Year - I Semester		L	T	P	C
		2	0	0	0
	CONSTITUTION OF INDIA (MC)				

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

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

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DEPARTMENT OF CIVIL ENGINEERING

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:
1. 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 andPolitics 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
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

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

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

DEPARTMENT OF CIVIL 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

KRISHNA CHAITANYA INSTITUTE OF TECHNOLOGY AND SCIENCES

DEVARAJUGATTU, MARKAPUR
Department of Civil Engineering
2022-2023

II -I B.TECH- CIVIL   **Room No : C304**   **W.E.F:05-09-2022**

DAY/ TIME	9.30 - 10.20	10.20- 11.20	11.20 - 11.30	11.30 - 12.20	12.20 - 01.10	01.10- 2.00	2.00-2.50 TUTORIAL	2.50 - 3.40	3.40 - 3.50	3.50 - 4.40
MON	SG	M-III	BREAK	M-III	SOC	LUNCH	SOM-I	FM	BREAK	HE
TUE	HE	FM		SG	SG		SFW-I LAB	SFW-I LAB		SFW-I LAB
WED	SOM-I	HE		HE	FM		CT LAB	CT LAB		CT LAB
THU	FM	SG		SOM-I	CI		HE LAB	HE LAB		HE LAB
FRI	SG	FM		FM	M-III		SOM-I	HE		HE
SAT	M-III	LIB		SOM-I	SOM-I		SG	SPORTS		SPORTS

NOTE: Tutorials will be taken by the concerned faculty in **C304** Room.

SUBJECTCODE	SUBJECT NAME	FACULTY
BS301	Mathematics -III (Vector Calculus, Transforms and PDE	Mr A V SRINIVAS
PCC301	Strength of Materials - I	Mr G VENKATESWARLU
PCC302	Fluid Mechanics	Mr V PRANAY
PCC302	Surveying and Geometrics	Ms LIKITHA
PCC303	Highway Engineering	Mr N RICHARD
PCC304	Concrete Technology Lab	Mr K RAMUDU
PCC305	Highway Engineering Lab	Mr N RICHARD
PCC306	Surveying Field Work – I (Lab)	Ms LIKITHA
SC301	**Skill oriented course***	Mr K RAMUDU
MC301	Constitution of India	Mr .G.VENKATESWARLU
INT	INT/LIB	Mr K RAMUDU
SEM	SEMINAR/DAA	Mr KANNAM NAYUDU
SPORTS	SPORTS	Mr N.RANGA SWAMY

Class-In charge   **HOD**   **PRINCIPAL**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF CIVIL ENGINEERING

III YEAR – I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	PC501	Professional Core courses (STRUCTURAL ANALYSIS)	3	0	0	3
2	PC502	Professional Core courses (DESIGN AND DRAWING OF REINFORCED CONCRETE STRUCTURES)	3	0	0	3
3	PC503	Professional Core courses (GEOTECHNICAL ENGINEERING-1)	3	0	0	3
4	OE501	Open Elective Course/Job Oriented elective (OE-1)	3	0	0	3
5	PE501	Professional Elective courses	3	0	0	3
6	PC504	Professional Core courses Lab Survey Camp (Field work)	0	0	3	1.5
7	PC505	Professional Core courses Lab (GEOTECHNICAL ENGINEERING LAB)	0	0	3	1.5
8	PC501	Skill advanced course/ soft skill course* Design of Special Structure, Chimney, Hinge Tanks designs, spill ways etc.,	1	0	2	2
9	MC501	Mandatory Course (AICTE Suggested) Professional Ethics and Human Values	2	0	0	0
10	PR501	Summer Internship 2Months (Mandatory) after second year (to be evaluated during V semester)	0	0	3	1.5
		Total Credits				**21.5**
Honors/ Minor courses **(The hours distribution can be 3-0-2 or 3-1-0 also)**			3	1	0	4

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA – 533 003, Andhra Pradesh, India
DEPARTMENT OF CIVIL ENGINEERING

III Year – I Semester	Mandatory course	L	T	P	C
		2	0	0	0
MC (501) PROFESSIONAL ETHICS AND HUMAN VALUES					

Course Objectives: To give basic insights and inputs to the student to inculcate Human values to grow as 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/s Involuntary Risk –Consequences - Risk Assessment – Accountability – Liability - Reversible Effects - Threshold Levels of Risk - Delayed v/s Immediate Risk - Safety and the Engineer – Designing for Safety – Risk-Benefit Analysis-Accidents.

UNIT IV: 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 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.

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KAKINADA – 533 003, Andhra Pradesh, India
DEPARTMENT OF CIVIL ENGINEERING

- Related Cases Shall is 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. Subramanian – 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 Rabin's, 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.SenthilKumarPHI 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.

KRISHNA CHAITANYA INSTITUTE OF TECHNOLOGY AND SCIENCES

DEVARAJUGATTU, MARKAPUR
Department of Civil Engineering
2022-2023

III -I B.TECH- CIVIL   **Room No : C319**   **W.E.F:01-08-2022**

DAY/ TIME	9.30 - 10.20	10.20- 11.20	11.20 - 11.30	11.30 - 12.20	12.20 - 01.10	01.10- 2.00	2.00-2.50 TUTORIAL	2.50 - 3.40	3.40 - 3.50	3. 50 - 4.40
MON	SA	DDRCS	BREAK	RS&GIS	RES	LUNCH	GT-I LAB		BREAK	GT-I LAB
TUE	RES	EITK		SA	GTE-1		SA	DAA		DAA
WED	RS&GIS			DDRCS			RS&GIS	RES		SA
THU	SA	EITK		GTE-1			Survey Field work			Survey Field work
FRI	DDRCS			RS&GIS			DDRCS	SPORTS		SPORTS
SAT	RES	RS&GIS		SA			DSS	DSS		DSS

NOTE: Tutorials will be taken by the concerned faculty in C319 Room.

SUBJECTCODE	SUBJECT NAME	FACULTY
PC501	Structural analysis	Mr N Richard
PC502	Design and drawing of reinforced concrete stru	Mr K Ramudu
PC503	Geotechnical Engineering-I	Dr Ch Kannama Naidu /
OE501	Open Elective Course/Job Oriented Elective (OE-1)	Mr G Venkateswarlu
PE501	Professional Elective course - I	Dr E Neela Priya
PC504	Professional Core courses Lab Survey Camp (Field work)	Mr EV Chandra Sekhar
PC505	Geotechnical Engineering Lab	Mr EV Chandra Sekhar/K Srinivas
PC501	Skill advanced course: Design of Special Structure, Chimney, Hinge Tanks, spill ways etc.,	Mr N Richard
MC501	Essence of Indian Traditional Knowledge	Mr K Manohar
PR501	Summer Internship 2Months (Mandatory) after second year (to be evaluated during V semester)	Mr K Ramudu
INT	INT/LIB	Mr K RAMUDU
SEM	SEMINAR/DAA	Mr KANNAM NAYUDU
SPORTS	SPORTS	Mr N.RANGA SWAMY

Class-In charge   **HOD**   **PRINCIPAL**

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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE STRUCTURE

I Year –I SEMESTER

S. No.	Category	Subjects	L	T	P	Credits
1	HS	Communicative English	3	0	0	3
2	BS	Mathematics –I(Calculus)	3	0	0	3
3	BS	Applied Chemistry	3	0	0	3
4	ES	Programming for Problem Solving Using C	3	0	0	3
5	BS	Engineering Drawing	2	0	2	3
6	LC	English Communication Skills Laboratory	0	0	3	1.5
7	LC	Applied Chemistry Lab	0	0	3	1.5
8	LC	Programming for Problem Solving Using C Lab	0	0	3	1.5
					Total Credits	**19.5**

I Year – II SEMESTER

S. No	Category	Subjects	L	T	P	Credits
1	BS	Mathematics –II (Linear Algebra and Numerical Methods)	3	0	0	3
2	BS	Applied Physics	3	0	0	3
3	ES	Object Oriented Programming through Java	2	0	2	3
4	ES	Network Analysis	3	0	0	3
5	ES	Basic Electrical Engineering	3	0	0	3
6	LC	Electronic workshop Lab	0	0	3	1.5
7	LC	Basic Electrical Engineering Lab	0	0	3	1.5
8	LC	Applied Physics Lab	0	0	3	1.5
9	MC	Environmental Science	3	0	0	0.0
					Total Credits	**19.5**

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

DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE

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-sports of biodiversity - Threats to biodiversity: habitat loss, man-wildlife conflicts. - Endangered and endemic species of India – Conservation of biodiversity: conservation of biodiversity.

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

DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE

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

Reference Books:
1) Text Book of Environmental Studies, Deeshita Dave & P. UdayaBhaskar, Cengage Learning.
2) A Textbook of Environmental Studies, ShaashiChawla, TMH, New Delhi
3) Environmental Studies, Benny Joseph, Tata McGraw Hill Co, New Delhi
4) Perspectives in Environment Studies, AnubhaKaushik, C P Kaushik, New Age International Publishers, 2014

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES

Devarajugattu – Post, MARKAPUR, Peddaraveedu – Mandal, Prakasam Dist – 523320
(Approved by A.I.C.T.E, New Delhi , Affiliated to JNTUK, Kakinada&
Accredited by NAAC)

| Phone: 08596-200332 | | Mobile : 9666301310 |
| Fax : 08596-22555 | Web : kits-anna.com | Email:principal@kits-anna.com |

DEPARTMENT OF HUMANITIES AND SCIENCES
TIME TABLE

CLASS : **I/II ECE**	Regulation : **R20**
Batch : **2022-2026**	Academic Year:**2022-2023**
Class Room:**C216**	W.e.f :**27-02-2023**

#(S)STUDY HOURS WILL BE TAKEN BY THE CONCERNED FACULTY IN C219 ROOM

CLASS INCHARGE : **Mr.A.V.SRINIVASA RAO**

DAY/TIME	9.30-10.20	10.20-11.10	11.10-11.20	11.20-12.10	12.10-1.00	1.00-2.00 (TUTORIAL)	2.00-2.50	2.50-3.00	3.00-3.50	3.50-4.40
MON	AP	NA	BREAK	LIBRARY	LUNCH BREAK	M-II(T)	AP /BEE LAB	BREAK	AP LAB/BEE LAB	
TUE	JAVA	M-II		BEE		AP	NA		SPORTS	
WED	BEE LAB/EWS LAB			BEE/EWS LAB		NA	M-II		BEE	JAVA
THU	M-II	AP		ES		BEE	JAVA		AP	NA
FRI	NA	JAVA		BEE		M-II	EWS/AP LAB		EWS LAB/ AP LAB	
SAT	BEE	M-II		NA		JAVA	BEE		ES	AP

THEORY						
S.NO	**Sub Code**	**Subject**	**Credits**	**Name of the Faculty**	**Dept**	
1	M-II	Mathematics –II	3	**Mr.A.V.SRINIVASA RAO**	H&S	
2	AP	Applied Physics	3	**Mr.K.KISHORE BABU**	H&S	
3	JAVA	Object Oriented Programming through Java	3	**Mr.P.PULLAIAH**	CSE	
4	NA	Network Analysis	3	**Mr.A.BALA CHANDRA**	EEE	
5	BEE	Basic Electrical Engineering	3	**Mr.B.RAJU**	EEE	
6	ES	Environmental Science	0	**Mr.T.SRINIVASULU**	CIVIL	
PRACTICAL						
7	EWS LAB	Electronic workshop Lab	1.5	**Mr.G.NAGARJUNA**	ECE	
8	BEE LAB	Basic Electrical Engineering Lab	1.5	**Mr.B.RAJU**	EEE	
9	AP LAB	Applied Physics Lab	1.5	**Mrs.N.RANI TEJASWI**	H&S	
ACTIVITIES						
10	SPORTS	Sports and Games		**Mr.N.Rangaswami/ Mr.M.Anjani**		H&S
11	LIBRARY	Library		**Mrs.P.Damayanthi/Mr.O.Anjaneyulu**		H&S

CLASS I/C

HOD

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OF TECHNOLOGY & SCIENCES
DEVARAJUGATTU(Vill) 523 320
Peddaraveedu(Mdl), Prakasam

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY:: KAKINADA
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

II Year –I Semester

S. No	Category	Name of the Subject	L	T	P	Credits
1	PC	Electronic Devices and Circuits	3	1	0	3
2	PC	Switching Theory and Logic Design	3	1	0	3
3	PC	Signals and Systems	3	1	0	3
4	BS	Mathematics-III (Transforms and Vector Calculus)	3	1	0	3
5	BS	Random Variables and Stochastic Processes	3	1	0	3
6	LC	OOPS through Java Lab	0	0	2	1.5
7	LC	Electronic Devices and Circuits -Lab	0	0	2	1.5
8	LC	Switching Theory and Logic Design–Lab	0	0	2	1.5
9	SC	Python Programming	0	0	4	2
				Total Credits		**21.5**

II Year – II Semester

S. No	Category	Name of the subject	L	T	P	Credits
1	PC	Electronic Circuit Analysis	3	1	0	3
2	PC	Digital IC Design	3	1	0	3
3	PC	Analog Communications	3	0	0	3
4	ES	Linear control Systems	3	1	0	3
5	HS	Management and Organizational Behavior	3	0	0	3
6	LC	Electronic Circuit Analysis Lab	0	0	3	1.5
7	LC	Analog Communications Lab	0	0	3	1.5
8	LC	Digital IC Design Lab	0	0	3	1.5
9	SC	Soft Skills	0	0	4	2
10	MC	Constitution of India	3	0	0	0
				Total Credits		**21.5**
		Honors/Minor courses (The hours distribution can be 3-0-2 or 3-1-0 also)				**4**

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KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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

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

Course Outcomes:

At the end of the 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

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

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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

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

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KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

References:
1) Durga Das Basu, Introduction to the Constitution of India, Prentice Hall of India Pvt. Ltd.
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 andPolitics 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
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

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY& SCIENCES

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NAAC ACCREDITED INSTITUTION

CLASS TIME TABLE
Department of Electronics and Communication Engineering

Academic Year:2022-2023   w.e.f: 06/02/2023   Batch: 2021-2025

Year: II (R20)   Semester: II   Section: A   Class Room: A 307

CLASS INCHARGE:- Mr. K.CH.MALLA REDDY

DAY /HOURS	1	2		3	4		5	6		7
	9:30 10:20	10:20 11:20	11:20 11:30	11:30 12:20	12.2 1:10	1:10 2:00	2:00 02:50	2:50 3:40	3:40 3.5	3:50 4:40
MON	ECA	LCS (T)	BREAK	DICD	AC	LUNCH BREAK	MOB	DICD		ECA
TUE	DICD	LCS	BREAK	MOB	ECA(T)	LUNCH BREAK	ECA/AC LAB			
WED	AC	MOB	BREAK	LIB	DICD(T)	LUNCH BREAK	ECA/DICD LAB			
THUR	DICD	SOFT SKILLS				LUNCH BREAK	ECA	AC	BREAK	ECA
FRI	LCS	AC/DICD LAB				LUNCH BREAK	AC(T)	COI	BREAK	MOB
SAT	LCS	MOB(T)		COI	AC	LUNCH BREAK	LCS	SPORTS		

THEORY				
S.N	**Subject**	**Credits**	**Name of the Faculty**	**Dept**
1	Electronic Circuit Analysis	3	Mr. K.CH MALLA REDDY	ECE
2	Linear control Systems	3	Mr.D.SATYANARAYANA	ECE
3	Digital IC Design	3	Mrs. SWARUPA RANI	ECE
4	Analog Communications	3	Dr. P PRASANNA MURALI KRISHNA	ECE
5	Management and Organizational Behavior	3	Mr. B.PRABHAKER	MBA
6	Constitution Of India	-	Mr. G.VENKATESWARLU	H&S
PRACTICALS				
1	Electronic Circuit Analysis Lab	1.5	Mr. K.CH MALLA REDDY / Mr.V RAMA SUBBA REDDY	ECE
2	Analog Communications Lab	1.5	Mr. A.PRASAD/ Mr.B BALARAJU	ECE
3	Digital IC Design Lab	1.5	Mr S SIVA KRISHNA/ Mr. T ASHOK REDDY	ECE
4	Soft Skills	2	Mr. P.KESAVA	H&S
5	LIBRARY		Mrs. SWARUPA RANI	ECE

CLASS INCHARGE   HOD   PRINCIPAL

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NAAC ACCREDITED INSTITUTION

CLASS TIME TABLE
Department of Electronics and Communication Engineering

Academic Year:2022-2023	w.e.f: 06/02/2023	Batch: 2021-2025

Year: II (R20)	Semester: II	Section: B	Class Room: A 306

CLASS INCHARGE: - Mr. D.SATYANARAYANA

DAY /HOURS	1	2		3	4		5	6		7
	9:30 10:20	10:20 11:20	11:20 11:30	11:30 12:20	12.2 1:10	1:10 2:00	2:00 02:50	2:50 3:40	3:40 3.5	3:50 4:40
MON	AC	MOB(T)	BREAK	ECA	LCS	L U N C H B R E A K	MOB	SPORTS		
TUE	ECA	AC		DICD	LCS(T)		SOFT SKILLS			
WED	DICD	ECA/AC LAB					MOB	COI		LIB
THUR	LCS	AC	BREAK	DICD	AC		AC/DICD LAB			
FRI	ECA	AC (T)		LCS	MOB		ECA	LCS	BREAK	DICD(T)
SAT	COI	ECA/DICD LAB					DICD	MOB		ECA(T)

THEORY				
S.N	Subject	Credits	Name of the Faculty	Dept
1	Electronic Circuit Analysis	3	Mr. K.CH MALLA REDDY	ECE
2	Linear control Systems	3	Mr. D.SATYANARAYANA	ECE
3	Digital IC Design	3	Mrs. SWARUPA RANI	ECE
4	Analog Communications	3	Dr. P PRASANNA MURALI KRISHNA	ECE
5	Management and Organizational Behavior	3	Mr. SK.RAFI	MECH
6	Constitution Of India	-	Mr. G.VENKATESWARLU	H&S
PRACTICALS				
1	Electronic Circuit Analysis Lab	1.5	Mr. V RAMA SUBBA REDDY/ B BALARAJU	ECE
2	Analog Communications Lab	1.5	Mr. K RANJITH KUMAR/ Mr. T PRAVEEN KUMAR	ECE
3	Digital IC Design Lab	1.5	Mrs. SWARUPA RANI / Mr. S SIVA KRISHNA	ECE
4	Soft Skills	2	Mr. P.KESAVA	H&S
5	LIBRARY		Mr. N.B.JILANI	ECE

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY:: KAKINADA
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

III Year - I Semester

S. No	Category	Name of the subject	L	T	P	Credits
1	PC	Analog ICs and Applications	3	0	0	3
2	PC	Electromagnetic Waves and Transmission Lines	3	0	0	3
3	PC	Digital Communications	3	0	0	3
4	OE1	Open Elective Course/Job oriented elective-1	2	0	2	3
5	PE1	Professional Elective courses -1	3	0	0	3
6	LC	Analog ICs and Applications LAB	0	0	3	1.5
7	LC	Digital Communications Lab	0	0	3	1.5
8	SC	Data Structures using Java Lab	0	0	4	2
9	MC	Indian Traditional Knowledge	2	0	0	0
		Summer Internship 2 Months (Mandatory) after second year (to be evaluated during V semester	0	0	0	1.5
		Total credits				**21.5**
		Honors/Minor courses (The hours distribution can be 3-0-2 or 3-1-0 also)				**4**

PE1:	OE1:
1. Antenna and Wave Propagation 2.Electronic Measurements and Instrumentation 3.Computer Architecture & Organization	Candidate should select the subject from list of subjects offered by other departments

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KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

III 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 knowledgesystem
- To understand the legal framework and traditional knowledge and biological diversity act 2002 and geographical indication act2003
- The courses focus on traditional knowledge and intellectual property mechanism of traditional knowledge andprotection
- To know the student traditional knowledge in differentsector

Course Outcomes:

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

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

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 traditionalknowledge.
- Contrast and compare characteristics importance kinds of traditionalknowledge.
- Analyze physical and social contexts of traditionalknowledge.
- Evaluate social change on traditionalknowledge.

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 traditionalknowledge.
- Apply significance of tkprotection.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

- Analyze the value of tk in globaleconomy.
- Evaluate role ofgovernment

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 ofTK.
- Contrast and compare the ST and other traditional forestdwellers
- Analyze plant variantprotections
- Evaluate farmers rightact

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 ableto:

- Understand TK andIPR
- Apply systems of TKprotection.
- Analyze legal concepts for the protection ofTK.
- Evaluate strategies to increase the protection ofTK.

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 differentsectors.
- Apply TK inengineering.
- Analyze TK in varioussectors.
- Evaluate food security and protection of TK in thecountry.

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KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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, PratibhaPrakashan2012.
3) Traditional Knowledge System in India by Amit Jha Atlantic publishers,2002
4) "Knowledge Traditions and Practices of India" Kapil Kapoor, MichelDanino

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

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Fax : 08596-22555	Web : kits-anna.com	Email:principal@kits-anna.com

CLASS TIME TABLE
Department of Electronics and Communication Engineering

Academic Year:2022-2023	w.e.f: 01/08/2022	Batch: 2020-2024

Year: III (R20) **Semester: I** **Section: A** **Class Room: A 306**

CLASS INCHARGE:- Mr. N.B.JILANI

DAY / HOURS	1 09:30 10:20	2 10:20 11:20	11:20 11:30	3 11:30 12:20	4 12.20 01:10	01:10 2:00	5 02:00 02:50	6 02:50 03:40	3:40 3.50	7 03:50 04:40
MON	EMI	AICA		EMTL (T)	DC	L U N C H B R E A K	AICA/DC LAB			
TUE	AICA	OS		EMTL	DC (T)		EMTL	SPORTS		
WED	EMTL	DC/AICA LAB					AICA	EMI (T)	B R E A K	LIB
THUR	OS	EMI	B R E A K	ITK	EMI		OS (T)	DC		EMTL
FRI	EMI	EMTL		AICA (T)	OS		DATA STRUCTURES USING JAVA LAB			
SAT	DC	AICA		OS	DC		EMTL	ITK		OS

THEORY				
S.N	Subject	Credits	Name of the Faculty	Dept
1	ANALOG IC APPLICATIONS	3	Mr. N.B.JILANI	ECE
2	ELECTRONIC MEASUREMENTS AND INSTRUMENTATION	3	Mr. A. PRASAD	ECE
3	ELECTRO MAGNETIC WAVES AND TRANSMISSION LINES	3	Mr. S VENKATA KRISHNA	CSE
4	DIGITAL COMMUNICATION	3	Mr. M. RAMANA REDDY	ECE
5	OPERATING SYSTEMS	3	Dr. P. SAMSON ENOSH BABU	CSE
6	INDIAN TRADITIONAL KNOWLEDGE	-	Mr. P.MANOHAR	S&H
PRACTICALS				
1	ANALOG IC APPLICATIONS LAB	1.5	Mrs. M HARITHA/ Mr. T ASHOK REDDY	ECE
2	DIGITAL COMMUNICATIONS LAB	1.5	Mr. B.AJANTA REDDY/ Mr. V RAMA SUBBA REDDY	ECE
3	DATA STRUCTURES USING JAVA LAB	1.5	Mrs. J.MAHA LAKSHMI/ Miss P.SIREESHA	CSE
4	LIBRARY		Mr. N.B.JILANI	ECE

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Phone: 08596-200332		Mobile : 9666301310
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CLASS TIME TABLE
Department of Electronics and Communication Engineering

Academic Year:2022-2023	w.e.f: 01/08/2022		Batch: 2020-2024
Year: III (R20)	Semester: I	Section: B	Class Room: A 310

CLASS INCHARGE:- Mr. M. RAMANA REDDY

DAY / HOURS	1	2		3	4		5	6		7
	09:30 10:20	10:20 11:20	11:20 11:30	11:30 12:20	12.20 01:10	01:10 2:00	02:00 02:50	02:50 03:40	3:40 3.50	03:50 04:40
MON	EMTL	DC	BREAK	EMI	AICA (T)	LUNCH BREAK	DATA STRUCTURES USING JAVA LAB			
TUE	EMI	ITK		LIB	OS (T)		AICA	DC	BREAK	OS
WED	DC	OS		EMTL (T)	OS		DC	ITK		EMTL
THUR	AICA	EMTL		AICA	DC (T)		OS	SPORTS		
FRI	AICA	AICA/DC LAB					EMTL	EMI		DC
SAT	EMTL	EMI		EMI (T)	AICA		DC/AICA LAB			

THEORY				
S.N	Subject	Credits	Name of the Faculty	Dept
1	ANALOG IC APPLICATIONS	3	Mr. N.B. JILANI	ECE
2	ELECTRONIC MEASUREMENTS AND INSTRUMENTATION	3	Mr. A. PRASAD	ECE
3	ELECTRO MAGNETIC WAVES AND TRANSMISSION LINES	3	Mr. G NAGARJUNA	ECE
4	DIGITAL COMMUNICATION	3	Mr. M. RAMANA REDDY	ECE
5	OPERATING SYSTEMS	3	Mrs. J.MAHALAKSHMI	CSE
6	INDIAN TRADITIONAL KNOWLEDGE	-	Mr. P.MANOHAR	S&H
PRACTICALS				
1	ANALOG IC APPLICATIONS LAB	1.5	Mr.T ASHOK REDDY/ Mr T PRAVEEN KUMAR	ECE
2	DIGITAL COMMUNICATIONS LAB	1.5	MR. V RAMA SUBBA REDDY / Mr. S VENKATA KRISHNA	ECE
4	DATA STRUCTURES USING JAVA LAB	1.5	Mrs. J.MAHALAKSHMI/ Miss P.SIREESHA	CSE
3	LIBRARY		Mr. M. RAMANA REDDY	ECE

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KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE STRUCTURE

S. No	Course Code	Courses	L	T	P	Credits
**I Year – I SEMESTER**						
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**		

S. No	Course Code	Courses	L	T	P	Credits
**I Year – II SEMESTER**						
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:
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-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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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.
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 an**y 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

Reference Books:
1) Text Book of Environmental Studies, Deeshita Dave & P. Udaya Bhaskar, 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 International Publishers, 2014

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES

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Phone: 08596-200332		Mobile : 9666301310
Fax : 08596-22555	Web : kits-anna.com	Email:principal@kits-anna.com

DEPARTMENT OF HUMANITIES AND SCIENCES
TIME TABLE

CLASS : **I/II CSE-A**   Regulation : **R20**
Batch : **2022-2026**   Academic Year:**2022-2023**
Class Room:**C213**   W.e.f :**27-02-2023**

#(S)STUDY HOURS WILL BE TAKEN BY THE CONCERNED FACULTY IN C219 ROOM
CLASS INCHARGE : Mr.T.SRINIVASULU

DAY/ TIME	9.30-10.20	10.20-11.10	11.10-11.20	11.20-12.10	12.10-1.00	1.00-2.00 (TUTORIAL)	2.00-2.50	2.50-3.00	3.00-3.50	3.50-4.40
MON	PYTH LAB		BREAK	PYTH LAB	LUNCH BREAK	AC	CO	BREAK	PYTH	DS
TUE	AC	M-II		PYTH		CO	AC LAB		AC LAB	
WED	DS	PYTH		CO		ES	CO		SPORTS	
THU	AC LAB			AC LAB		DS	M-II		AC	CO
FRI	M-II	ES		DS		PYTH	DS LAB		DS LAB	
SAT	CO	PYTH		AC		M-II	LIBRARY		PYTH	DS

THEORY						
S.NO	Sub Code	Subject		Credits	Name of the Faculty	Dept
1	M-II	Mathematics –II		3	**Dr.J.V.RAMANA REDDY**	H&S
2	AC	Applied Chemistry		3	**Mr.T.SRINIVASULU**	H&S
3	CO	Computer Organization		3	**Mr.K.RANJITH KUMAR/ Mr.T.UDAY KIRAN**	ECE/CSE
4	PYTH	Python Programming		3	**Mr.M.GNANA VARDHAN**	CSE
5	DS	Data Structures		3	**Dr.P.SAMSON ANOSH**	CSE
6	ES	Environmental science		0	**Dr.A.VARA PRASAD**	H&S
PRACTICAL						
7	AC LAB	Applied Chemistry Lab		1.5	**Mr.T.SRINIVASULU**	H&S
8	PYTH LAB	Python Programming Lab		1.5	**Mr.M.GNANA VARDHAN**	CSE
9	DS LAB	Data Structures Lab		1.5	**Dr.P.SAMSON ANOSH**	CSE
ACTIVITIES						
10	SPORTS	Sports and Games			**Mr.N.Rangaswami/ Mr.M.Anjani**	H&S
11	LIBRARY	Library			**Mrs.P.Damayanthi/Mr.O.Anjaneyulu**	H&S

T.Srinivasulu
CLASS I/C

HOD

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Peddaraveedu(Mdl), Prakasam Dist.

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DEPARTMENT OF HUMANITIES AND SCIENCES
TIME TABLE

CLASS : **I/II CSE-B**   Regulation : **R20**
Batch : **2022-2026**   Academic Year:**2022-2023**
Class Room:**C212**   W.e.f :**27-02-2023**

#(S)STUDY HOURS WILL BE TAKEN BY THE CONCERNED FACULTY IN C219 ROOM
CLASS INCHARGE : **Mrs.CH.SRAVANI**

DAY/ TIME	9.30-10.20	10.20-11.10	11.10-11.20	11.20-12.10	12.10-1.00	1.00-2.00 (TUTORIAL)	2.00-2.50	2.50-3.00	3.00-3.50	3.50-4.40
MON	DS	AC		CO		M-II	LIBRARY		AC	CO
TUE	PYTH	M-II		AC		CO	PYTH LAB		PYTH LAB	
WED	AC LAB		BREAK	AC LAB	LUNCH BREAK	M-II	DS	BREAK	CO	PYTH
THU	DS LAB			DS LAB		PYTH	M-II		DS	ES
FRI	CO	PYTH		M-II		AC	DS		SPORTS	
SAT	ES	CO		PYTH		DS	AC LAB		AC LAB	

THEORY					
S.NO	Sub Code	Subject	Credits	Name of the Faculty	Dept
1	M-II	Mathematics –II	3	**Mrs.CH.SRAVANI**	H&S
2	AC	Applied Chemistry	3	**Mr.G.KASI REDDY**	H&S
3	CO	Computer Organization	3	**Dr.SK.ALTHAF HUSSAIN /Mr.A.M.BHARTH KUMAR**	CSE/ECE
4	PYTH	Python Programming	3	**Mr.M.GNANA VARDHAN**	CSE
5	DS	Data Structures	3	**Dr.J.MAHA LAKSHMI**	CSE
6	ES	Environmental Science	0	**Mr.K.N.ISRARUL HAQ**	H&S
PRACTICAL					
7	AC LAB	Applied Chemistry Lab	1.5	**Mr.G.KASI REDDY**	H&S
8	PYTH LAB	Python Programming Lab	1.5	**Mr.K.RAJ KIRAN**	CSE
9	DS LAB	Data Structures Lab	1.5	**Dr.J.MAHA LAKSHMI**	CSE
ACTIVITIES					
10	SPORTS	Sports and Games		**Mr.N.Rangaswami/ Mr.M.Anjani**	H&S
11	LIBRARY	Library		**Mrs.P.Damayanthi/Mr.O.Anjaneyulu**	H&S

CLASS I/C

HOD

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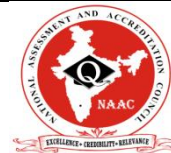Peddaraveedu(Mdl), Prakasam Dist.

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DEPARTMENT OF HUMANITIES AND SCIENCES
TIME TABLE

CLASS : **I/II CSE-C**   Regulation   : **R20**
Batch   : **2022-2026**   Academic Year:**2022-2023**
Class Room:**C211**   W.e.f   :**27-02-2023**

#(S)STUDY HOURS WILL BE TAKEN BY THE CONCERNED FACULTY IN C219 ROOM
CLASS INCHARGE : **Dr.P.MANOHAR**

DAY/ TIME	9.30-10.20	10.12-11.10	11.10-11.20	11.20-12.10	12.10-1.00	1.00-2.00 (TUTORIAL)	2.00-2.50	2.50-3.00	3.00-3.50	3.50-4.40
MON	CO	PYTH	BREAK	AC	LUNCH BREAK	DS	AC LAB	BREAK	AC LAB	
TUE	ES	CO		PYTH		AC	DS		SPORTS	
WED	AC	M-II		CO		PYTH	DS LAB		DS LAB	
THU	DS	CO		PYTH		ES	LIBRARY		M-II	CO
FRI	AC LAB			AC LAB		M-II	AC		DS	PYTH
SAT	M-II	DS		PYTH		CO	PYTH LAB		PYTH LAB	

		THEORY			
S.NO	Sub Code	Subject	Credits	Name of the Faculty	Dept
1	M-II	Mathematics –II	3	**Mr.P.RAMA MOHAN**	H&S
2	AC	Applied Chemistry	3	**Dr.A.VARA PRASAD**	H&S
3	CO	Computer Organization	3	**Mr.G.ULLESH KUMAR /Mr.SK.ALI MOON**	ECE/CSE
4	PYTH	Python Programming	3	**Mr.A.N.V.NAVEEN KUMAR**	CSE
5	DS	Data Structures	3	**Dr.P.V.RAVI KUMAR**	CSE
6	ES	Environmental Science	0	**Mr.G.KASI REDDY**	H&S
		PRACTICAL			
7	AC LAB	Applied Chemistry Lab	1.5	**Dr.A.VARA PRASAD**	H&S
8	PYTH LAB	Python Programming Lab	1.5	**Mr.A.N.V.NAVEEN KUMAR**	CSE
9	DS LAB	Data Structures Lab	1.5	**Dr.P.V.RAVI KUMAR**	CSE
		ACTIVITIES			
10	SPORTS	Sports and Games		**Mr.N.Rangaswami/ Mr.M.Anjani**	H&S
11	LIBRARY	Library		**Mrs.P.Damayanthi/Mr.O.Anjaneyulu**	H&S

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

S. No	Course Code	Courses	L	T	P	Credits
		II Year – I SEMESTER				
1	BS	Mathematics III	3	0	0	3
2	CS	Object Oriented Programming through C++	3	0	0	3
3	CS	Operating Systems	3	0	0	3
4	CS	Software Engineering	3	0	0	3
5	CS	Mathematical Foundations of Computer Science	3	0	0	3
6	CS	Object Oriented Programming through C++ Lab	0	0	3	1.5
7	CS	Operating Systems Lab	0	0	3	1.5
8	CS	Software Engineering Lab	0	0	3	1.5
9	SO	**Skill oriented Course - I** Applications of Python-NumPy **OR** 2) Web Application Development Using Full Stack -Frontend Development – Module-I	0	0	4	2
10	MC	Constitution of India	2	0	0	0
Total Credits						**21.5**

S. No	Course Code	Courses	L	T	P	Credits
		II Year – II SEMESTER				
1	BS	Probability and Statistics	3	0	0	3
2	CS	Database Management Systems	3	0	0	3
3	CS	Formal Languages and Automata Theory	3	0	0	3
4	ES	Java Programming	3	0	0	3
5	HS	Managerial Economics and Financial Accountancy	3	0	0	3
6	CS	Database Management Systems Lab	0	0	2	1
7	CS	R Programming Lab	0	1	2	2
8	ES	Java Programming Lab	0	0	3	1.5
9	SO	**Skill Oriented Course - II** Applications of Python-Pandas **OR** 2) Web Application Development Using Full Stack -Frontend Development –Module-II	0	0	4	2
Total Credits						**21.5**
10	Minor	Operating Systems$	3	0	2	3+1
11	Honors	Any course from the Pool, as per the opted track	4	0	0	4

$- Integrated Course

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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

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

Course Outcomes:

At the end of the 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

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

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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

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

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

References:
1) Durga Das Basu, Introduction to the Constitution of India, Prentice Hall of India Pvt. Ltd.
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 andPolitics 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
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
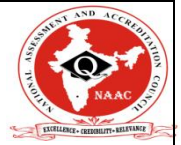
e-Resources:
1) nptel.ac.in/courses/109104074/8
2) nptel.ac.in/courses/109104045/
3) nptel.ac.in/courses/101104065/
4) www.hss.iitb.ac.in/en/lecture-details
5) www.iitb.ac.in/en/event/2nd-lecture-institute-lecture-series-indian-constitution

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CLASS TIME TABLE

Academic Year:2022-2023   Regulation (R 20)   w.e.f:12/09/2022
Year: II CSE-A   Semester: I   Room: A-212

DAY/TIME	9.30-10.20	10.20-11.20	11.20-11.30	11.30-12.20	12.20-01.10	1.10-2.00	2.00-2.50 (Tutorial)	2.50-3.40	3.40-3.50	3.50-4.40
MON	SE	OS	B R E A K	C++	M III	L U N C H	SE LAB		B R E A K	SE LAB
TUE	C++	M III		MFCS	OS		SOC LAB			SOC LAB
WED	MFCS	SE		M III	MFCS		C++	SPORTS		SPORTS
THU	M III	MFCS		OS	SE		C++	COI		LIB
FRI	MFCS	C++		SE	M III		OS LAB			OS LAB
SAT	OS	C++LAB		C++ LAB			SE	OS		COI

CLASS IN CHARGE: Mr. G.RAVINDRA KUMAR

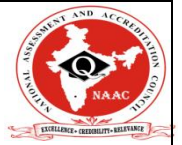| S.NO	SUB CODE	SUBJECT	CREDITS	NAME OF THE FACULTY	DEPT
1	M III	MATHEMATICS III	3	MR. A LASKHMI REDDY	BSH
2	OOPS C++	OBJECT ORIENTED PROGRAMMING THROUGH C++	3	MR. E RAJESH	CSE
3	OS	OPERATING SYSTEMS	3	MR. G. RAVINDRA KUMAR	CSE
4	SE	SOFTWARE ENGINEERING	3	MS. SK YASMIN SULATNA	CSE
5	MFCS	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	3	DR. J.V. RAMANA REDDY	BSH
6	OOPS C++ LAB	OBJECT ORIENTED PROGRAMMING THROUGH C++ LAB	1.5	MR.E RAJESH	CSE
7	OS LAB	OPERATING SYSTEMS LAB	1.5	MR.G. RAVINDRA KUMAR	CSE
8	SE LAB	SOFTWARE ENGINEERING LAB	1.5	MS. SK YASMIN SULATNA	CSE
9	SOC LAB	SKILL ORIENTED COURSE -I	2	MRS. K SIRISHA	CSE
10	COI	CONSTITUTION OF INDIA		MR.G.VENKATESWARLU	BSH
11	CSP	COMMUNITY SERVICE PROJECT		MR. E. RAJESH	CSE
12	LIB	LIBRARY		MR. O ANJANEYULU	CSE
13	SPORTS	SPORTS		MR. N RANGA SWAMI	BSH

HOD

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CLASS TIME TABLE

Academic Year:2022-2023   Regulation (R 20)   w.e.f:12/09/2022
Year: II CSE-B   Semester: I   Room: A-211

DAY/ TIME	9.30-10.20	10.20-11.20	11.20-11.30	11.30-12.20	12.20-01.10	1.10-2.00	2.00-2.50 (Tutorial)	2.50-3.40	3.40-3.50	3.50-4.40
MON	MFCS	OS	B R E A K	MIII	SE	L U N C H	C++	SPORTS	B R E A K	SPORTS
TUE	M III	C++		LIB	MFCS		SOC LAB			SOC LAB
WED	C++	MFCS		OS	SE		M III	OS		COI
THU	SE	OS LAB		OS LAB			SE LAB			SE LAB
FRI	OS	SE		C++	MFCS		M III	OS		COI
SAT	C++	M III		MFCS	SE		C++ LAB			C++ LAB

CLASS IN CHARGE: MR. E.RAJESH

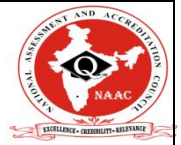| S.NO	SUB CODE	SUBJECT	CREDITS	NAME OF THE FACULTY	Dept
1	M III	MATHEMATICS III	3	MR. A LASKHMI REDDY	BSH
2	OOPS C++	OBJECT ORIENTED PROGRAMMING THROUGH C++	3	MR. E RAJESH	CSE
3	OS	OPERATING SYSTEMS	3	DR. J. V. ANIL KUMAR	CSE
4	SE	SOFTWARE ENGINEERING	3	MS. SK YASMIN SULATNA	CSE
5	MFCS	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	3	DR. J.V. RAMANA REDDY	BSH
6	OOPS C++ LAB	OBJECT ORIENTED PROGRAMMING THROUGH C++ LAB	1.5	MR. E RAJESH	CSE
7	OS LAB	OPERATING SYSTEMS LAB	1.5	MR.G. CHINNA TALLURI	CSE
8	SE LAB	SOFTWARE ENGINEERING LAB	1.5	MS. SK YASMIN SULATNA	CSE
9	SOC LAB	SKILL ORIENTED COURSE -I	2	MRS. K DURGA BHAVANI	CSE
10	COI	CONSTITUTION OF INDIA		MRS. B PRASANTHI	BSH
11	CSP	COMMUNITY SERVICE PROJECT		MR.E.RAJESH	CSE
12	LIB	LIBRARY		MR. O ANJANEYULU	CSE
13	SPORTS	SPORTS		MR. N RANGA SWAMI	BSH

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CLASS TIME TABLE
Academic Year:2022-2023   Regulation (R 20)   w.e.f:12/09/2022
Year: II CSE-C   Semester: I   Room: A-210

DAY/TIME	9.30-10.20	10.20-11.20	11.20-11.30	11.30-12.20	12.20-01.10	1.10-2.00	2.00-2.50 (TUTORIAL)	2.50-3.40	3.40-3.50	3.50-4.40
MON	M III	MFCS	B R E A K	C++	OS	L U N C H	SE LAB		B R E A K	SE LAB
TUE	C++	SE		OS	MFCS		M III	SPORTS		SPORTS
WED	C++	C++ LAB		C++ LAB			OS	MFCS		SE
THU	OS	M III		MFCS	COI		COI	LIB		SE
FRI	M III	C++		SE	COI		SOC LAB			SOC LAB
SAT	SE	OS		M III	MFCS		OS LAB			OS LAB

CLASS IN CHARGE: Ms. SK.YASMIN SULTHANA

S.NO	SUB CODE	SUBJECT	CREDITS	NAME OF THE FACULTY	Dept
1	M III	MATHEMATICS III	3	MR. B.V.POLIREDDY	BSH
2	OOPS C++	OBJECT ORIENTED PROGRAMMING THROUGH C++	3	MR. M.JAGADEESH REDDY	CSE
3	OS	OPERATING SYSTEMS	3	DR. J MAHALAKSHMI	CSE
4	SE	SOFTWARE ENGINEERING	3	MR. M. SRINIVASA REDDY	CSE
5	MFCS	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	3	DR. J.V. RAMANA REDDY	BSH
6	OOPS C++ LAB	OBJECT ORIENTED PROGRAMMING THROUGH C++ LAB	1.5	M.JAGADEESH REDDY	CSE
7	OS LAB	OPERATING SYSTEMS LAB	1.5	DR. J MAHALAKSHMI	CSE
8	SE LAB	SOFTWARE ENGINEERING LAB	1.5	MR. M. SRINIVASA REDDY	CSE
9	SOC LAB	SKILL ORIENTED COURSE -I	2	MR .G. MAHESH	CSE
10	COI	CONSTITUTION OF INDIA		MRS. B PRASANTHI	BSH
11	CSP	COMMUNITY SERVICE PROJECT		MS. SK YASMIN SULATNA	CSE
12	LIB	LIBRARY		MR. O ANJANEYULU	BSH
13	SPORTS	SPORTS		MR. N RANGA SWAMI	BSH

HOD

Principal
KRISHNA CHAITANYA INSTITUTE
OF TECHNOLOGY & SCIENCES
DEVARAJUGATTU(Vill) 523 320
Peddaraveedu(Mdl), Prakasam Dist.

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

DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

COURSE STRUCTURE

S. No	Course Code	Courses	L	T	P	Credits
		I Year – I SEMESTER				
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**

S. No	Course Code	Courses	L	T	P	Credits
		I Year – II SEMESTER				
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-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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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.
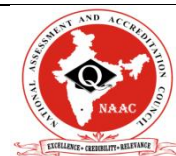3) Environmental Studies, P. N. Palanisamy, P. Manikandan, A. Geetha, and K. Manjula Rani; Pearson Education, Chennai

Reference Books:
1) Text Book of Environmental Studies, Deeshita Dave & P. UdayaBhaskar, Cengage Learning.
2) A Textbook of Environmental Studies, ShaashiChawla, TMH, New Delhi
3) Environmental Studies, Benny Joseph, Tata McGraw Hill Co, New Delhi
4) Perspectives in Environment Studies, AnubhaKaushik, C P Kaushik, New Age International Publishers, 2014

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES

Devarajugattu – Post, MARKAPUR, Peddaraveedu – Mandal, Prakasam Dist – 523320
(Approved by A.I.C.T.E, New Delhi , Affiliated to JNTUK, Kakinada&Accrediated by NAAC)
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Fax　　: 08596-22555　　　Web : kits-anna.com　　　Email:principal@kits-anna.com

DEPARTMENT OF HUMANITIES AND SCIENCES
TIME TABLE

CLASS: I/I AIML　　　　　　Regulation (R 20)　　　　　Batch: 2022-2026

Academic Year:2022-2023　　Class Room:C210　　　　　W.e.f :17-10-2022

CLASS INCHARGE : Mr.T.SRINIVASULU

#(S)STUDY HOURS WILL BE TAKEN BY THE CONCERNED FACULTY IN C217 ROOM

DAY/ TIME	9.30-10.20	10.20-11.10	11.1-11.20	11.20-12.10	12.10-1.00	1.00-2.00 (TUTORIAL)	2.00-2.50	2.50-3.00	3.00-3.50	3.50-4.40
MON	ENG	M-I	BREAK	LIBRARY	LUNCH BREAK	ENG	AC	BREAK	ES	PPSC
TUE	M-I	ENG		AC		M-I	PPSC		SPORTS	
WED	ECS/AC LAB			ECS/AC LAB		AC	ES		AC	PPSC
THU	M-I	PPSC		ENG		PPSC	CE WS LAB		CE WS LAB	
FRI	ENG	M-I		AC		AC	PPSC LAB		PPSC LAB	
SAT	PPSC	ENG		AC		M-I	AC/ECS LAB		AC/ECS LAB	

THEORY						
S.NO	Sub Code	Subject	Credits	Name of the Faculty	Dept	
1	ENG	Communicative English	3	Mrs.B.PRASANTHI	H&S	
2	M-I	Mathematics - I	3	Mr.A.V.SRINIVASA RAO	H&S	
3	AC	Applied Chemistry	3	Mr.T.SRINIVASULU	H&S	
4	PPSC	Programming for Problem Solving Using C	3	Mr.M.GNANA VARDHAN	CSE	
5	ES	Environmental Science	0	Ms.N.RANI TEJASWI	H&S	
PRACTICAL						
5	ENG LAB	English Communication Skills Lab	1.5	Mrs.B.PRASANTHI	H&S	
6	AC LAB	Applied Chemistry Lab	1.5	Dr.A.VARAPRASAD	H&S	
7	CEWS LAB	Computer Engineering Workshop	1.5	Mr.T.UDAYA KIRAN	CSE	
8	PPSC LAB	Programming for Problem Solving Using C Lab	1.5	Mr.M.GNANA VARDHAN	CSE	
ACTIVITIES						
9	SPORTS AND GAMES			Mr.N.RANGASWAMI / Mr.ANJANI	H&S	
10	LIBRARY			Mrs.P.DAMAYANTHI	H&S	

T. Srinivasulu
CLASS I/C

HOD

PRINCIPAL
KRISHNA CHAITANYA
OF TECHNOLOGY & SC
DEVARAJUGATTU(VILL) 52
Peddaraveedu(Mdl), Prakasam Dist.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA

KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

I Year – II Semester		L	T	P	C
		2	0	0	0
	CONSTITUTION OF INDIA (MC1201)				

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

Course Outcomes:
At the end of the 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

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

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DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

- Know the Structure of supreme court and High courtUNIT 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

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:

1) Durga Das Basu, Introduction to the Constitution of India, Prentice Hall of India Pvt. Ltd.
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 andPolitics 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
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

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KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

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

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES

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Accrediated by NAAC)

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Fax : 08596-22555 Web : kits-anna.com	Email:principal@kits-anna.com

DEPARTMENT OF HUMANITIES AND SCIENCES
TIME TABLE

CLASS : **I/II AIML**	Regulation : **R20**
Batch : **2022-2026**	Academic Year:**2022-2023**
Class Room:**C210**	W.e.f :**27-02-2023**

#(S)STUDY HOURS WILL BE TAKEN BY THE CONCERNED FACULTY IN C219 ROOM

CLASS INCHARGE : **Mr.R.SAI PRATHAP**

DAY/ TIME	9.30-10.20	10.20-11.10	11.10 - 11.20	11.20-12.10	12.10-1.00	1.00-2.00 (TUTORIAL)	2.00-2.50	2.50-3.00	3.00-3.50	3.50-4.40
MON	M-II	AP	BREAK	DS	LUNCH BREAK	DLD	DS	BREAK	PYTH	DLD
TUE	DS LAB			DS LAB		M-II	AP		PYTH	DS
WED	AP LAB			AP LAB		DS	M-II		DLD	PYTH
THU	DS	LIBRARY		M-II		AP	PYTH LAB		PYTH LAB	
FRI	PYTH	AP		DLD		PYTH	DLD		SPORTS	
SAT	AP LAB			AP LAB		M-II	COI		AP	DLD

		THEORY				
S.NO	Sub Code	Subject	Credits	Name of the Faculty	Dept
1	M-II	Mathematics – II	3	**Mrs.CH.SRAVANI**	H&S
2	AP	Applied Physics	3	**Mr.R.SAI PRATHAP**	H&S
3	DLD	Digital Logic Design	3	**Mrs.D.SWATHI**	ECE
4	PYTH	Python Programming	3	**Dr.B.V.SRINIVASULU**	CSE
5	DS	Data Structures	3	**Mrs.M.SRINIVASA REDDY**	CSE
6	COI	Constitution of India	0	**Mr.CH.S.N.RAJESWAR**	H&S
		PRACTICAL			
7	AP LAB	Applied Physics Lab	1.5	**Mr.R.SAI PRATHAP**	H&S
8	PYTH LAB	Python Programming Lab	1.5	**Dr.B.V.SRINIVASULU**	CSE
9	DS LAB	Data Structures Lab	1.5	**Mrs.M.SRINIVASA REDDY**	CSE
		ACTIVITIES			
10	SPORTS	Sports and Games		**Mr.N.Rangaswami/ Mr.M.Anjani**	H&S
11	LIBRARY	Library		**Mrs.P.Damayanthi/Mr.O.Anjaneyulu**	H&S

CLASS I/C

HOD

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KRISHNA CHAITANYA INSTITUTE
OF TECHNOLOGY & SCIENCES
DEVARAJUGATTU(Vill) 523 320
Peddaraveedu(Mdl), Prakasam D....

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

S. No	Course Code	Courses	L	T	P	Credits
		II Year – I SEMESTER				
1	BS	Mathematics III	3	0	0	3
2	CS	Mathematical Foundations of Computer Science	3	0	0	3
3	CS	Introduction to Artificial Intelligence and Machine Learning	3	0	0	3
4	CS	Object Oriented Programming with Java	3	0	0	3
5	CS	Database Management Systems	3	0	0	3
6	CS	Introduction to Artificial Intelligence and Machine Learning Lab	0	0	3	1.5
7	CS	Object Oriented Programming with Java Lab	0	0	3	1.5
8	CS	Database Management Systems Lab	0	0	3	1.5
9	SO	Mobile App Development	0	0	4	2
10	MC	Essence of Indian Traditional Knowledge	2	0	0	0
		Total Credits				**21.5**

S. No	Course Code	Courses	L	T	P	Credits
		II Year – II SEMESTER				
1	BS	Probability and Statistics	3	0	0	3
2	CS	Computer Organization	3	0	0	3
3	CS	Data Warehousing and Mining	3	0	0	3
4	ES	Formal Languages and Automata Theory	3	0	0	3
5	HS	Managerial Economics and Financial Accountancy	3	0	0	3
6	CS	R Programming Lab	0	0	3	1.5
7	CS	Data Mining using Python Lab	0	0	3	1.5
8	ES	Web Application Development Lab	0	0	3	1.5
9	SO	Natural Language Processing with Python	0	0	4	2
		Total Credits				**21.5**
10	Minor	Introduction to Artificial Intelligence and Machine Learning $	3	0	2	**4**

$- Integrated Course

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

DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

II Year - I Semester		L	T	P	C
		2	0	0	0
	ESSENCE OF INDIAN TRADITIONAL KNOWLEDGE				

Course Objectives:
- The course aims at imparting basic principles of thought process, reasoning and inferencing. Sustainability is at the core of Indian Traditional Knowledge Systems connecting society and nature.
- Holistic life style of Yogic-science and wisdom capsules in Sanskrit literature are also important in modern society with rapid technological advancements and societal disruptions.
- The course focuses on introduction to Indian Knowledge System, Indian perspective of modern scientific world-view and basic principles of Yoga and holistic health care system

Course Outcomes:
Upon successful completion of the course, the student will be able to:
- Understand the significance of Indian Traditional Knowledge
- Classify the Indian Traditional Knowledge
- Compare Modern Science with Indian Traditional Knowledge system.
- Analyze the role of Government in protecting the Traditional Knowledge
- Understand the impact of Philosophical tradition on Indian Knowledge System.

Unit I
Introduction to Traditional Knowledge: Define Traditional Knowledge- Nature and Characteristics- Scope and Importance- kinds of Traditional Knowledge- The historical impact of social change on Traditional Knowledge Systems- Value of Traditional knowledge in global economy.

Unit II
Basic structure of Indian Knowledge System: Astadash Vidya- 4 Ved - 4 Upaved (Ayurved, Dhanurved, Gandharva Ved & Sthapthya Adi), 6 vedanga (Shisha, Kalppa, Nirukha,Vykaran, Jyothisha & Chand),4 upanga (Dharmashastra, Meemamsa, purana & Tharka Shastra).

Unit III
Modern Science and Indian Knowledge System-Indigenous Knowledge, Characteristics- Yoga and Holistic Health care-cases studies.

Unit IV
Protection of Traditional Knowledge: The need for protecting traditional knowledge -Significance of Traditional knowledge Protection-Role of government to harness Traditional Knowledge.

Unit V
Impact of Traditions: Philosophical Tradition (Sarvadarshan) Nyaya, Vyshepec, Sankhya, Yog, Meemamsa, Vedantha, Chavanka, Jain & Boudh - Indian Artistic Tradition - Chitrakala, Moorthikala, Vasthukala , Sthapthya, Sangeetha, NruthyaYevamSahithya

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KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

Reference Books :

1. Traditional Knowledge System in India, by AmitJha, 2009.

2. Traditional Knowledge System and Technology in India by Basanta Kumar Mohanta and Vipin Kumar Singh, PratibhaPrakashan 2012.

3. Sivaramakrishnan (Ed.), Cultural Heritage of India-course material, BharatiyaVidya

4. Swami Jitatmanand, Holistic Science and Vedant, BharatiyaVidyaBhavan

5. Yoga Sutra of Patanjali, Ramakrishna Mission, Kolkata.

6. Pramod Chandra, India Arts, Howard Univ. Press, 1983.

7. Krishna Chaitanya, Arts of India, Abhinav Publications, 1987.

Web Resources:

1. https://www.wipo.int/wipo_magazine/en/2017/01/article_0004.html

2. http://iks.iitgn.ac.in/wp-content/uploads/2016/01/Indian-Knowledge-Systems-Kapil-Kapoor.pdf

3.https://www.wipo.int/edocs/mdocs/tk/en/wipo_grtkf_ic_21/wipo_grtkf_ic_21_ref_facilitators_text.pdf

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES

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Web : kits-anna.com   Email:principal@kits-anna.com

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CLASS TIME TABLE

Academic Year:2022-2023   Regulation (R 20)   w.e.f:12/09/2022
Year: II CSE- AI&ML   Semester: I   Room: A-210

DAY/ TIME	9.30-10.20	10.20-11.20	11.20-11.30	11.30-12.20	12.20-01.10	1.10-2.00	2.00-2.50	2.50-3.40	3.40-3.50	3.50-4.40
MON	DBMS	AI&ML		M III	EITK		AI&ML	DBMS		MFCS
TUE	JAVA	DBMS		MFCS	M III		JAVA LAB			JAVA LAB
WED	AI&ML	M III	B R E A K	DBMS	JAVA	L U N C H	DBMS LAB		B R E A K	DBMS LAB
THU	JAVA	JAVA		M III	MFCS		AI&ML LAB			AI&ML LAB
FRI	DBMS	MFCS		JAVA	M III		AI&ML	MFCS		EITK
SAT	AI/ML	SOC LAB		SOC LAB			MFCS	SPORTS		SPORTS

CLASS IN CHARGE: Mr. .R.SRINIVASULU

S.NO	SUB CODE	SUBJECT	CREDITS	NAME OF THE FACULTY	Dept
1	M III	MATHEMATICS III	3	MRS. G.LAKSHMI LAVANYA	BSH
2	MFCS	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	3	Dr .B.V.SRINIVASULU	CSE
3	AI&ML	INTRODUCTION TO ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	3	DR.P.SAMSON ANOSH BABU	CSE
4	OOPJ	OBJECT ORIENTED PROGRAMMING WITH JAVA	3	MRS.M.TEJESWANI	CSE
5	DBMS	DATABASE MANAGEMENT SYSTEMS	3	MR.B.NARESH KUMAR	CSE
6	AI&ML LAB	INTRODUCTION TO ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING LAB	1.5	DR.P.SAMSON ANOSH BABU	CSE
7	OOPJ LAB	OBJECT ORIENTED PROGRAMMING WITH JAVA LAB	1.5	MRS.M.TEJESWANI	CSE
8	DBMS LAB	DATABASE MANAGEMENT SYSTEMS LAB	1.5	MR. CH UDAY	CSE
9	MAD LAB	MOBILE APP DEVELOPMENT	2	MR R.SRINIVASULU	CSE
10	EITK	ESSENCE OF INDIAN TRADITIONAL KNOWLEDGE		MR. CH.S.N RAJESWAR	BSH
11	CSP	COMMUNITY SERVICE PROJECT		MR.R.SRINIVASULU	CSE
12	LIB	LIBRARY		MR. O ANJANEYULU	BSH
13	SPORTS	SPORTS		MR. N RANGA SWAMI	BSH

HOD

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

DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE

COURSE STRUCTURE

I Year – I SEMESTER

S. No	Course Code	Subjects	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			**15**	**0**	**13**	**19.5**

I Year – II SEMESTER

S. No	Course Code	Subjects	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			**17**	**0**	**9**	**19.5**

*Internal Evaluation

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DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE

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-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 CSE - ARTIFICIAL INTELLIGENCE

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

Reference Books:

1) Text Book of Environmental Studies, Deeshita Dave & P. UdayaBhaskar, Cengage Learning.
2) A Textbook of Environmental Studies, ShaashiChawla, TMH, New Delhi
3) Environmental Studies, Benny Joseph, Tata McGraw Hill Co, New Delhi
4) Perspectives in Environment Studies, AnubhaKaushik, C P Kaushik, New Age International Publishers, 2014

KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES

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DEPARTMENT OF HUMANITIES AND SCIENCES
TIME TABLE

CLASS: I/I CSE-AI   Regulation (R 20)   Batch: 2022-2026
Academic Year:2022-2023   Class Room:C209   W.e.f :17-10-2022

CLASS INCHARGE : Mr.G.VENKATESWARLU

#(S)STUDY HOURS WILL BE TAKEN BY THE CONCERNED FACULTY IN C217 ROOM

DAY/ TIME	9.30-10.20	10.20-11.10	11.1-11.20	11.20-12.10	12.10-1.00	1.00-2.00 (TUTORIAL)	2.00-2.50	2.50-3.00	3.00-3.50	3.50-4.40
MON	ECS/AC LAB		BREAK	AC/ECS LAB	LUNCH BREAK	M-I(T)	ENG	BREAK	PPSC	AC
TUE	AC	PPSC		ENG		ES	AC/ECS LAB		AC/ECS LAB	
WED	CE WS LAB			CE WS LAB		M-I	LIBRARY		PPSC	M-I
THU	AC	PPSC		M-I		ENG(T)	AC		SPORTS	
FRI	ENG	PPSC		M-I		PPSC(T)	ENG		AC	M-I
SAT	PPSC LAB			PPSC LAB		AC(T)	ENG		M-I	ES

THEORY					
S.NO	Sub Code	Subject	Credits	Name of the Faculty	Dept
1	ENG	Communicative English	3	Mr.G.VENKATESWARLU	H&S
2	M-I	Mathematics - I	3	Mrs.CH.SRAVANI	H&S
3	AC	Applied Chemistry	3	Mr.T.SRINIVASULU	H&S
4	PPSC	Programming for Problem Solving Using C	3	Dr.J.V.ANIL KUMAR	CSE
5	ES	Environmental Science	0	Ms.N.RANI TEJASWI	H&S
PRACTICAL					
5	ENG LAB	English Communication Skills Lab	1.5	Mr.G.VENKATESWARLU	H&S
6	AC LAB	Applied Chemistry Lab	1.5	Mr.T.SRINIVASULU	H&S
7	CEWS LAB	Computer Engineering Workshop	1.5	Mr.SK.ALIMOON	CSE
8	PPSC LAB	Programming for Problem Solving Using C Lab	1.5	Dr.J.V.ANIL KUMAR	CSE
ACTIVITIES					
9	SPORTS AND GAMES			Mr.N.RANGASWAMI / Mr.ANJANI	H&S
10	LIBRARY			Mrs.P.DAMAYANTHI	H&S

CLASS I/C   HOD

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KAKINADA – 533 003, Andhra Pradesh, India

DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE

I Year - II Semester		L	T	P	C
		2	0	0	0
	CONSTITUTION OF INDIA (MC1201)				

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

Course Outcomes:
At the end of the 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

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;

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DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE

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

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:
1) Durga Das Basu, Introduction to the Constitution of India, Prentice Hall of India Pvt. Ltd.
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 andPolitics 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
9) Noorani, A.G., (South Asia Human Rights Documentation Centre), Challenges to Civil

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DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE

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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DEPARTMENT OF HUMANITIES AND SCIENCES
TIME TABLE

CLASS : **I/II CSE-AI**   Regulation   : **R20**
Batch   : **2022-2026**   Academic Year: **2022-2023**
Class Room: **C209**   W.e.f   : **27-02-2023**

#(S)STUDY HOURS WILL BE TAKEN BY THE CONCERNED FACULTY IN C219 ROOM
CLASS INCHARGE : Mr.A.LAKSHMI REDDY

DAY/ TIME	9.30-10.20	10.20-11.10	11.10 - 11.20	11.20-12.10	12.10-1.00	1.00-2.00 (TUTORIAL)	2.00-2.50	2.50-3.00	3.00-3.50	3.50-4.40
MON	M-II	DS	BREAK	AP	LUNCH BREAK	DLD	DS LAB	BREAK	DS LAB	
TUE	AP LAB			AP LAB		M-II	DS		DLD	PYTH
WED	PYTH LAB			PYTH LAB		COI	M-II		PYTH	AP
THU	DLD	PYTH		AP		PYTH	AP LAB		AP LAB	
FRI	DS	M-II		DLD		M-II	PYTH		SPORTS	
SAT	AP	LIBRARY		DLD		AP	PYTH		DLD	DS

THEORY					
S.NO	Sub Code	Subject	Credits	Name of the Faculty	Dept
1	M-II	Mathematics – II	3	**Mr.A.LAKSHMI REDDY**	H&S
2	AP	Applied Physics	3	**Mr.K.KISHORE BABU**	H&S
3	DLD	Digital Logic Design	3	**Mr.M.VIJAY BHASKAR**	ECE
4	PYTH	Python Programming	3	**Mr.R.V.GIRISH CHANDRA**	CSE
5	DS	Data Structures	3	**Mr.E.RAJESH**	CSE
6	COI	Constitution of India	0	**Mr.G.VENKATESWARLU**	H&S
PRACTICAL					
7	AP LAB	Applied Physics Lab	1.5	**Mrs.N.RANI TEJASWI**	H&S
8	PYTH LAB	Python Programming Lab	1.5	**Mr.R.V.GIRISH CHANDRA**	CSE
9	DS LAB	Data Structures Lab	1.5	**Mr.E.RAJESH**	CSE
ACTIVITIES					
10	SPORTS	Sports and Games		**Mr.N.Rangaswami/ Mr.M.Anjani**	H&S
11	LIBRARY	Library		**Mrs.P.Damayanthi/Mr.O.Anjaneyulu**	H&S

CLASS I/C

HOD

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