1.3.1

ACADEMIC ENRICHMENT

DURING A.Y:2018-2019



SRI VENKATESWARA

COLLEGE OF ENGINEERING & TECHNOLOGY

ISO 9001:2015 Certified

(Approved by AICTE, New Delhi, Affiliated to JNTUGV, Vizianagaram)

Office: +9109705576693, email:principal_svcet@yahoo.com

Website: www.svcet.net



SRI VENKATESWARA COLLEGE OF ENGINEERING & TECHNOLOGY

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Office: +91 9705576693 , email: principal_sycet@yahoo.com, website: www.sycet.info

1.3.1. Institution integrates crosscutting issues relevant to Professional Ethics, Diversity and Inclusion, Human Values, Environment and Sustainability into the Curriculum Response:

Sri Venkateswara College of Engineering and Technology is committed to provide comprehensive and inclusive education to the student. Sri Venkateswara College of Engineering and Technology inculcates value added effective educational courses appertained to professional ethics, human values, environmental & sustainability into the curriculum for the improvement of health of local & global communities. As an institution of higher learning, it is our responsibility to construct a strong foundation in our students. Social engagement orients student's academic experiences to help them become critically engaged citizens, dedicated & contributing to the public good as our students are the NATION BUILDERS & THE AGENTS OF CHANGE.

1. Professional Ethics:

At Sri Venkateswara College of Engineering and Technology we believe in ethical behavior can give a significant identity to the student. We aim to produce graduates who not only excel in their respective fields but also uphold the highest standards of loyalty, discipline, professionalism and dedication. Our curriculum gives top priority for professional ethics. We also encourage open discussions and debates on ethical dilemmas to enhance critical thinking and moral reasoning.

2. Diversity and Inclusion:

Sri Venkateswara College of Engineering and Technology believe that a diversified produces a noble learning environment and prepares students to thrive in an inter connected. We organize different celebrations for different cultures, traditions and perspectives. Our college mainly focuses on present social issues discrimination, bias, and marginalization.

3. Human Values:

In our educational institution, we give utmost priority for strong human values. In our curriculum courses on character development, empathy, compassion, and self-awareness are included. This curriculum motivates the students to develop their personal growth and positive relationships. We encourage the students for their contribution to the society. We motivate the students towards the community services.

4. Environment and Sustainability:

At our Sri Venkateswara College of Engineering and Technology, we give the top priority for environment protection. We adopt suitable practices to protect the environment. Our campus is design to be ecofriendly and we actively encourage energy conservation, waste management and recycling. Students participate in environmental awareness campaigns, tree-planting drives, and projects that promote sustainable development.

5. Faculty Development:

The objective of faculty development in our college is improvising knowledge of faculty. For this purpose, our college conducts faculty development programs like workshops, seminars and training sessions with necessary tools and knowledge by inviting the resource persons from various disciplines.

In conclusion, SRI VENKATESWARA COLLEGE OF ENGINEERING AND TECHNOLOGY, SRIKAKULAM, ANDHRA PRADESH is committed to creating professionalism for students for the development of all round personality. It is our motto to develop the student as future leaders. By integrating crosscutting issues relevant to professional ethics, diversity and inclusion, human values, environment, and sustainability into our curriculum. We always put our efforts to produce graduates make a positive impact on society and contribute to a better and more sustainable world. We believe that education is not only about developing the knowledge but also creating responsible citizens of India. Our main objective is to prepare the students to face any challenge in their real-life situations.

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

- I. Environmental Science
- II. Professional Ethics & Human Values
- III. Essence of Indian Traditional Knowledge
- IV. Universal Human Values -1 Understanding Harmony
- V. Universal Human Values 2 Understanding Harmony
- VI. Constitution of India

VII. Research Methodology & IPR

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	N I	Name of the Course	I	11	Ш	IV
S.No.	Program Name	T(ame oz 1				
		Environmental Science	✓			
	CIVIL	Constitution of India		✓		
1	ENGINEERING	Professional Ethics & Human			✓	
		Values				

S.No.	Program Name	Name of the Course	I	II	Ш	IV
5.110.		Constitution of India	✓			
		Professional Ethics & Human		✓		
•	ELECTRICAL &	Values Research Methodology			✓	
2	ELECTRONICS ENGINEERING	Environmental Science			✓	
		Universal Human Values – 2 - Understanding Harmony				✓

	Namo	Name of the Course	I	II	III	IV
S.No. 3	Program Name MECHANICAL ENGINEERING	Environmental Science Constitution of India Essence of Indian Traditional Knowledge Professional Ethics & Human Values Research Methodology &	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓	√	
		Intellectual Property Rights Universal Human Values – 2 - Understanding Harmony			V	✓



S.No.	Program Name	Name of the Course	I	II	Ш	IV
	FLECTRONICS	Environmental Science	✓			
		Constitution of India Essence of Indian Traditional		✓	✓	
4		Knowledge Research Methodology			✓	
		Universal Human Values				✓

~ ~ .	D Nome	Name of the Course	I	II	III	IV
S.No.	Program Name	Traine of the Court				
		Environmental Science	✓	,		
5	5 COMPUTER SCIENCE AND ENGINEERING	Constitution of India		✓		
		Universal Human Values – 2 - Understanding Harmony				✓

S.No.	Program Name	Name of the Course	I	II	Ш	IV
	ARTIFICIAL INTELLIGENCE & MACHINE	Environmental Science	✓		v	
		Constitution of India	✓			
6		Essence of Indian Traditional Knowledge		✓		
	LEARNING	Universal Human Values – 2 - Understanding Harmony				✓

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Name of The Course	Description
Environment Science	Based on this course, the Engineering graduates will understand/evaluate/develop technologies on the basis of ecological principles and environmental regulations which in turn helps in sustainable development.
Professional Ethics & Human Values	The Constitution of India is not only a legal document but it is also reflects social, political and economic perspectives of the Indian society, It reflects India's legacy of "diversity". It has been said that Indian constitution reflects ideals of its freedom movement; however, few critics have argued that it does not truly incorporate our own ancient legal heritage and cultural values. No law can be "static" and therefore the Constitution of India has also been amended more than one hundred times. These amendments reflect political, social and economic developments since the year 1950. The Indian judiciary and particularly the Supreme Court of India has played an historic role as the guardian of people. It has been protecting not only basic ideals of the Constitution but also strengthened the same through progressive interpretations of the text of the Constitution. To enable the students to create an awareness on Engineering Ethics and human values, to install Moral and Social Values and loyalty and to appreciate the right of others.
Research Methodology & Intellectual Property Rights	This course offers on Introduction to Intellectual property: international organizations, agencies and treaties, importance of intellectual property rights. Low of copy rights: Fundamental of copy right law, originality of material, Rights of reproduction, rights to perform the work publicly, copy right ownership issues, copy right registration, notice of copy right, international copy right law, law of patents: Foundation of patent law, patent searching process, ownership rights

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COURSE STRUCTURE AND SYLLABUS

For UG - R20

B. TECH - CIVIL ENGINEERING

(Applicable for batches admitted from 2020-2021)



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



COURSE STRUCTURE

I Year - I SEMESTER

S. No	CourseCode	Subjects	L	T	P	Credits
tana a	BSC1101	Mathematics – I (Calculus & Differential Equations)	3	0	0	3
2	HSMC1101	Communicative English	3	0	0	3
3	BSC1102	Engineering Physics	3	0	0	3
4	ESC1101	Engineering Drawing	1	0	4	3
; 5	ESC1102	Engineering Geology (Integrated) (Theory & Lab)	2	0	2	3
6	HSMC1102	English Communication Skills Laboratory	0	0	3	1.5
7	BSC1103	Engineering Physics Lab	0	0	3	1.5
8	ESC1103	Basics of Civil Engg. Work Shop (Lab)	0	0	3	1.5
		Total Credits			19.5	

I Year - II SEMESTER

S. No	Course Code	Subjects	L	Т	P	Credits
1	BSC1201	Mathematics – II (Linear Algebra & Numerical Methods)	3	0	0	3
2	BSC1202	Engineering Chemistry	3	0	- 0	3
3,	ESC1201	Engineering Mechanics	3	0	0	3
4	ESC1202	Programming for Problem Solving Using C	3	0	0	3
5	ESC1203	Building Materials and Concrete Technology	3	0	0	3
6	BSC1203	Engineering Chemistry Lab	0	0	3	1.5
7	ESC1204	Programming for problem Solving Using C Lab	О	0	3	1.5
8	ESC1205	Building Planning and Computer Aided Building Drawing	, O	0	3	1.5
9	MC1201	Environmental Science (M. C)	2	0	0	0
	-"	Total Credits			19.5	

^{*}Breakup of credits for Engineering Graphics/Engineering Workshop shall be 1-0-4 (as perAICTE model curriculum)

Universities/Institutions may swap a few courses between 1st and 2nd semesters to balance the workload of teaching and laboratory schedule.

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II Year – I SEMESTER

S. No	Course Code	Course Title	L	Т	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
	9	Total Credits				21.5

II YEAR - II SEMESTER

S. No.	Course	Course Title	L	Ţ	. 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
(The		Ionors/ Minor courses tribution can be 3-0-2 or 3-1-0 also)	3	1	0	4





III YEAR – I SEMESTER

S. No.	Course Code	Course Title	L	Т	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
T)	he hours d	Honors/ Minor courses istribution can be 3-0-2 or 3-1-0 also)	3	1	0	4

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III YEAR – II SEMESTER

S. N	0.	Course Code	Course Title	L	T	P	Credits
. 1		PC601	Professional Core courses (DESIGN AND DRAWING OF STEEL STRUCTURES)	3	0	0	3
2		PC602	Professional Core courses (WATER RESOURCE ENGINEERING)	3	0	0	3
3		PC603	Professional Core courses (GEOTECHNICAL ENGINEERING-II)	3	0	0	3
4		PE601	Professional Elective courses	3	0	0	3
5		OE601	Open Elective Course/Job oriented elective (OE-2)	3	0	0	3
6		PC604	Professional Core courses Lab (ESTIMATION, COSTING AND CONTRACTS)	0	0	3	1.5
7		PC605	Professional Core courses Lab (REMOTE SENSING & GIS LAB)	0	0	3	1.5
8		PC606	Professional Core courses Lab CIVIL ENGINEERING PRACTICE	0	0	3	1.5
9		SC601	Skill advanced course/ soft skill course* Computational Tools	1	0	2	2
10		MC601	Mandatory course (AICTE) (EMPLOYABILITY SKILLS)	2	0	0	0
11		PR601	Industrial/Research Internship (Mandatory) 2 Months	0	0	3	1.5
57		 -	Total Credits				23
(7	The		Honors/ Minor courses stribution can be 3-0-2 or 3-1-0 also)	3	1	0	4

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IV YEAR - I SEMESTER

S. No.	Course Code	Course Title	L	Т	P	Credits
1	PE701	Professional Elective -III	3	0	0	3
2	PE702	Professional Elective -IV	3	0	0	3
3	PE703	Professional Elective -V	3	0	0	3
4	OE701	Open Elective Courses/ Job oriented elective (OE-III)	2	0	2	3
5	OE702	Open Elective Course/Job oriented elective (OE-IV)	2	0	2	3
6	HSC701	*Humanities and Social Science Elective	3	0	0	3
7	SC701	Skill advanced course/ soft skill course* Project planning, town planning,	1	0	2	2
8	PR701	Industrial/Research Internship 2 Months (Mandatory) after third year (to be evaluated during VII semester)	0	0	3	1.5
		Total Credits				21.5
(The		onors/ Minor courses ribution can be 3-0-2 or 3-1-0 also)	3	1	0	4

*There is a provision for the Universities/Institutions to implement AICTE mandatory course "Universal Human Values 2: Understanding Harmony" under Humanities and social science Elective in seventh semester for 3 credits.

IV YEAR - II SEMESTER

S.NO	CATEGORY	COURSE TITLE	L	T	P/D	C
1	Major Project	PROJ	-	-	-	12
			INTERNSI	HIP (6 Mc	onths)	
		- an	Total Cred	dits	80 S	12

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I Year - II Semester		\mathbf{L}	T	P	C
1 Tell II Selliester	.1	2	0	0	0
ENVIRONM	TAL SCIENCE (M	C1201)	2 2 2		

Learning 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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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:

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

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II Year - I Semester		L	T	P	C
		2	0	0	0
	CONSTITUTION OF INDIA (MC)	200	1		

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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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 and Politics Hans
- 7. J. Raj IndianGovernment and Politics
- 8. M.V. Pylee, Indian Constitution Durga Das Basu, Human Rights in Constitutional Law, Prentice Hall of India Pvt. Ltd.. New Delhi
- 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

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III Year – I Semester	Mandatory course	L	T 0	P 0	C 0
	,	2			

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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• 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.

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ETCHERLA, Srikakulam-532410 (A.P.)



III Year – II Semester	MANDATORY COURSE	L	T	P	C
III I cui II Scinestei		2	0	0	0
	MC-EMPLOYABILITY SKILLS			e-	

Preamble: This course is introduced to enhance the soft and hard skills of students based on industry need and helping the student to get the employment in the competitive industrial environment.

Course Objective: In this course the student should understand:

(i) Aptitude skill, (ii) Soft skills, (iii) Skills required for campus placement interview

Unit 1: Aptitude Skills Quantitative Aptitude:

Numbers, HCF and LCM, Problems on ages, Averages, Ratio and Proportion, Percentages, Profit and Loss Partnership, Interest calculations, Time and Work, Time and Distance, Pipes and Cisterns, Mensuration.

Reasoning:

Number and Letter Analogy, Coding and decoding, Odd Man out, Symbols and Notations, Permutations an Combinations, Probability, Data Interpretation, Data Sufficiency, Clocks and Calendars, Deductions, Logica Connectives, Venn Diagrams, Cubes, Binary Logic, Ordering and Sequencing, Blood relations - Syllogisms Seating arrangement, Analytical Reasoning

Unit 2: Skills - I

Soft Skills: An Introduction - Definition and Significance of Soft Skills; Process, Importance an Measurement of Soft Skill Development. Self-Discovery: Discovering the Self; Setting Goals; Beliefs, Values Attitude, Virtue. Goal Setting-Vision Vs Mission Vs Goals, SMART Technique to Goal Setting, SWO Analysis. Self Esteem: Types of Self Esteem, Causes of Low Self Esteem, Merits of Positive Self Esteem an Steps to build a positive Self Esteem; Art of Compromise, Learn to Say: 'I Don't Know', Being organized Showing Self-awareness, Self-Assessment for Attainable Career Objectives.

Attitude & Confidence: Attitude Vs Skills Vs Knowledge, Attitude Vs Behavior, Developing Positiv Attitude and Confidence; Fear- Public Speaking, Steps to Overcome Fear, developing Positive Thinking an Attitude; Driving out Negativity; Meaning and Theories of Motivation; Enhancing Motivation Levels Adjusting Your Attitude-Arrogance has no Place in the Workplace, Cultural Sensitivity in the Workplace Corporate Culture: Learning How to Fit In . Motivational Talk: Team Work, Team Vs Group, Stages in Team Building, Mistakes to avoid and Lessons to Learn.

Unit 3: Skills – II:

Interpersonal Communication: Interpersonal relations: communication models, process and Barriers; tear communication; developing interpersonal relationships through effective Communication; essential forms writing skills; corporate communication styles – assertion, Persuasion, negotiation. Listening: Listening V Hearing, Possible reasons for why people do not Listen at times, Active Listening Vs Passive Listening Listening effect on relationships. Public Speaking: Skills, Methods, Strategies and Essential tips for effectiv public speaking. Group Discussion: Importance, Planning, Elements, Skills assessed; effectively disagreeing Initiating, Summarizing and Attaining the Objective. On-Verbal Communication: Importance and Elements;



Body Language-Postures, gestures, eye contact.

Teamwork and Leadership Skills: Concept of Teams; Building effective teams; Concept of Leadership an honing Leadership skills. Presentation Skills: Types, Content, Audience Analysis, Essential Tips — Before During and After, Overcoming Nervousness. Etiquette and Manners: Social and Business. Time Management Concept, Essentials, Tips.

Unit 4: Personality Development: Meaning, Nature, Features, Stages, Models; Learning Skills; Adaptabilit Skills. Decision-Making and Problem-Solving Skills: Meaning, Types and Models, Group and Ethica Decision-Making, Problems and Dilemmas in application of these skills. Conflict Management: Conflict Definition, Nature, Types and Causes; Methods of Conflict Resolution

Stress Management: Stress - Definition, Nature, Types, Symptoms and Causes; Stress Analysis Models an Impact of Stress; Measurement and Management of Stress. Leadership and Assertiveness Skills: A Goo Leader; Leaders and Managers; Leadership Theories; Types of Leaders; Leadership Behavior; Assertivenes Skills. Emotional Intelligence: Meaning, History, Features, Components, Intrapersonal and Management Excellence; Strategies to enhance Emotional Intelligence.

Unit 5: Group Discussions (GD):

Stages of a GD, GD Vs Debate, Skills assessed in a GD, Blunders to be avoided, Dos & Don'ts, GD Practice Conducting practice sessions and Brain Storming Sessions, Evaluation, feedback on their performance Resume Preparation: Resume Templates, Steps followed for resume preparation, Common mistakes in resume; Covering letter Campus Placements Skills: Stages of Campus Placement, Skills assessed in Campu Placements, Changing scenario and its Challenges & How to get ready, Motivational Talk on Positiv Thinking: Beliefs, Thoughts, Actions, Habits & Results (Success);

Interview Skills: Types of Interview, Interviewer and Interviewe – in-depth perspectives; Before, during an after the Interview; Tips for Success, Dress code and Grooming, Dos & Don'ts, Skills assessed in an Interview Mistakes to be avoided, How to equip oneself to excel; How to handle the typical Interview Questions; Moc Interviews: Unconventional HR questions, Practice sessions with Feedback, Simulated Testing: Previou model papers of companies, Business Terminology: Financial Terms such as Debt, Equity, Share, Workin Capital, Turnover, Net worth etc.; Vision, Mission, Objectives, Goals, Targets.

Course Outcomes: After studying this course the student should able

- (i) To solve aptitude and reasoning problems,
- (ii) Apply the soft skills in dealing the issues related to Employability
- (iii) Successful in getting employment in campus placement interview

References:

- 1) B. K. Mitra, Personality Development and Soft Skills, Oxford University Press, 2011.
- 2) S.P. Dhanavel, English and Soft Skills, Orient Blackswan, 2010.
- 3) R.S.Aggarwal, A Modern Approach to Verbal & Non-Verbal Reasoning, S.Chand & Company Ltd., 2018.
- 4) Raman, Meenakshi & Sharma, Sangeeta, Technical Communication Principles and Practice, Oxford University Press, 2011.

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IV-Year – I Semester	HUMANITIES AND SOCIAL	L
	SCIENCE ELECTIVE	3

L T P C 3 0 0 3

HSC701-INTELLECTUAL PROPERTY RIGHTS AND PATENTS

Course Outcomes (CO):

After studying these units, the student is expected to be able to:

- i) understood the significance of innovations, distinguish different kinds of IPRs and know the legislative framework, practice and procedure relating to Patents, Copyrights, Trademarks, Designs, Trade Secrets, Geographical Indications, Traditional Knowledge and certain emerging areas.
- ii) understood the various components of copyright law, its protection and enforcement to know the application of copyright law, its duration, advantages and the issues of 'fair use' and 'plagiarism' in the digital era.
- iii) Understood the Patent law in India and its global instruments and spell out the procedural requirements of novelty, non-obviousness and inventive step involved in obtaining a Patent, its exclusive rights besides assignment and licensing patterns and how the patent does benefit the society.
- iv) understood the conceptual and legal framework, procedural requirements relating to Trade Marks and its infringement and gives an insight how the Trademark is commercially advantageous to its owner and to prevent unfair competition and further safeguarding the trade secrets of the business enterprises.
- v) Understood the importance of E-commerce, data security, online transactions and how the confidentiality and privacy can be safeguarded through the digital signatures and the prevention and punishment of cybercrimes under the law.

SYLLABUS:

Unit I: Introduction to Intellectual Property Rights (IPR)

Concept of Property - Introduction to IPR - IPR Tool Kit - International Instruments and IPR - WIPO - TRIPS - WTO - IPR Laws - IPR Protection and Regulation - Copyrights and Neighboring Rights - Industrial Property - Patents - Designs - Traditional Knowledge - Geographical Indications - Emerging Areas of IPR.

Law of Unfair Competition - Competition Commission.

Unit II: Copyrights and Neighboring Rights

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

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Unit III: Patents

Introduction to Patents - Patent Laws in India — Patent Requirements — Product Patent and Process Patent - Patent Search - Registration and Grant of Patent — Exclusive and Monopoly Rights — Limitations - Ownership - Transfer — Revocation of Patent — Patent Appellate Board - Infringement of Patent — Double Patenting — Compulsory Licensing - Patent Cooperation Treaty — New developments - Software Protection and Computer related Innovations.

Unit IV: Trademarks & Trade Secrets

Introduction to Trademarks – Trademark Laws – Functions of Trademark – Marks Covered under Trademark Law - Trade Mark Registration – Maintenance – Transfer - Deceptive Similarities - Infringement – Remedies.

Introduction to Trade Secrets – Laws Relating to Trade Secrets – Safeguarding Trade Secrets – Physical Security – Employee Access Limitation – Confidentiality Agreements – Breach of Contract – Remedies.

Unit V: Cyber Laws and Cyber Crime

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

Texts Books:

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

Sri Venkateswara College of Engineering & Technology

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING COURSE STRUCTURE &

SYLLABUS-R20 (Along with HONORS and MINORS)

(Applicable for batches admitted from 2020-2021)



UNIVERSITY COLLEGE OF ENGINEERING VIZIANAGARAM (A)
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
VIZIANAGARAM - 535 003, ANDHRA PRADESH, INDIA



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

R20 Course Structure Semester I (First Year)

S. No	Course Code	Course Title	L	T	P	C
1	R2011BS01	Calculus and Differential Equations	3	0	0	3
2	R2012BS04	Applied Physics	3	0	0	3
3	R2011ES13	Problem Solving and Programming using C	3	0	0	3
4	R2011ES02	Electrical Engineering Workshop	1	0	4	3
5	R2012ES04	Electrical Circuit Analysis-I	3	0	0	3
6	R2012ES05A	Basic Electrical Simulation Lab	0	0	3	1.5
7	R2012BS04A	Applied Physics Lab	0	0	3	1.5
8	R2011ES13A	Problem Solving and Programming using C Lab	0	0	3	1.5

Total Credits= 19.5

Semester II (First Year)

S. No	Course Code	Course Title	L	T	P	C
1	R2012BS02	Linear Algebra and Numerical Methods	3 ,	0	0	3
2	R2011BS06	Applied Chemistry	3	0	0	3
3	R2012HS01	Communicative English	3	0	0	3
4	R2011ES11	Electronic Devices & Circuits	3	0	0	3
5	R2012ES06	Engineering Drawing	1	0	4	3
6	R2011BS06A	Applied Chemistry lab	0	0	3	1.5
7	R2012HS01A	English Communication Skills Lab	0	0	3	1.5
8	R2011ES11A	Electronic Devices & Circuits Lab	0	0	3	1.5
9	R2012MC01	Environmental Science	2	0	0	0

Total Credits = 19.5

Courses offered to oth	Courses offered to other departments by EEE							
Basic Electrical & Electronics Engineering	CE, MECH, Metallurgy							
Basic Electrical & Electronics Engineering lab	CE, MECH, Metallurgy							
Basic Electrical Machines	ECE							
Basic Electrical Machines lab	ECE							
	Sri Venkateswa							

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

R20 Course Structure Semester III (Second Year)

S. No	Course Code	Course Category	Course Title	L	T	P	C
1	R2021BS01	BSC	Vector Calculus, Transforms and PDE	3	0	0	3
2	R202102PC01	PCC	Electrical Circuit Analysis –II	3	0	0	3
3	R202102PC02	PCC	DC Machines & Transformers	3	0	0	3
4	R202102PC03	PCC	Electrical Measurements & Instrumentation	3	0	0	3
5	R202102PC04	PCC	Digital Electronics	3	0	0	3
6	R202102PC01A	PCC-LAB	Electrical Measurements & Instrumentation Lab	0	0	3	1.5
7	R202102PC02A	PCC-LAB	Electrical Circuits Lab	0	0	3	1.5
8	R202102PC03A	PCC-LAB	Digital Electronics Lab	0	0	3	1.5
9	R202102SC01	SC	Python Programming/ Certificate Course*	2	0	0	2
10	R2021MC01	MC	Professional Ethics & Human values	2	0	0	0
			1	To	tal Cr	edits-	=21.5

Note: * any certificate course offered by industries/Professional bodies/APSSDC or any other accredited bodies asapproved by the BoS.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

R20 Course Structure

Semester IV (Second Year)

S. No	Course Code	Course Category	Course Title	L	Т	P	C
1	R202202ES01	ESC	Thermal & Hydro Prime Movers	3	0	0	3
2	R202202PC01	PCC	Control Systems	3	0	0	3
3	R202202PC02	PCC	Induction and synchronous machines	3	0	0	3
4	R202202PC03	PCC	Electrical power generation & economic concepts	3	0	0	3
5	R2022HS01	HSC	Management and organizational behavior	3	0	0	3
6	R202102ES01A	ES-LAB	Thermal & Hydro Prime Movers Lab	0	0	3	1.5
7	R202102PC01A	PCC- LAB	DC Machines and Transformers Lab	0	0	3	1.5
8	R202102PC02A	PCC- LAB	Control Systems Lab	0	0	3	1.5
9	R202202SC01	SC	Signals & Systems/ Certificate Course*	2	0	0	2
				To	tal Cı	edits	=21.5
Hono	rs/Minor courses (Tl	ne hours dist	ribution can be 3-0-2 or 3-1-0 also)	4	0	0	4
			ng summer vacation	ii .			

Note: * any certificate course offered by industries/Professional bodies/APSSDC or any other accredited bodies asapproved by the BoS.

Category	Credits
Humanities and Social Sciences	03
Professional Core Courses	12
Skill Oriented Courses	02
Engineering Science Courses	4.5 PRINCEAL
TOTAL CREDITS	21.5 Sri Venkateswara Conege of Engineering ETCHERLA, Srikakulam-5324
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

R20 Course Structure

Semester V (Third Year)

S. No	Course Code	Course	Course Title	L	T	P	C
e e		Category			*		7 2
1	R203102PC01	PCC	Power Electronics	3	0	0	3 ,
2	R203102PC02	PCC	Transmission & Distribution of Electrical Power	3	0	0	3
3	R203102PC03	PCC	Electromagnetic field theory	3	0	0	3
4	R203102OE01	OE/JOC	Open Elective -I	3	0	0	3
5	R203102PE01	PEC	Professional Elective-I	3	0	0	3
6	R203102PC01A	PCC-LAB	Induction and Synchronous Machines Lab	0	0	3	1.5
7	R203102PC02A	PCC-LAB	Electrical Simulation Lab	0	0	3	1.5
8	R203102SC01	SC	Advanced Communication Skills Lab -II/ Certificate Course on soft skills*	1	0	2	2
9	R2031MC01	MC	Indian constitution	2	0	0	0
	mer Internship 2 m g V semester)	onths (Manda	atory) after second year (to be evaluated	0	0	0	1.5
				Tota	l Cred	lits =	21.5
Hono	ors/Minor courses (The hours dis	stribution can be 3-0-2 or 3-1-0 also)	4	0	0	4

Note: * any certificate course offered by industries/Professional bodies/APSSDC or any other accredited bodies asapproved by the BoS.

Category	Credits	1 15 5 1
Professional Elective Courses	03	
Professional Core Courses	12	
Open Elective Course/ Job oriented	03	
course		P
Skill advanced course/ Soft skill	02	
course	PRINTER OF THE PRINTE	TP & Carring & Technology
Summer Internship	1.5 Lotorwara College	537410 (A.P)
TOTAL CREDITS	1.5 21.5 Sri Venkateswara College ETCHERLA, Sriki	akulam-33.



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA ELECTRICAL AND ELECTRONICS ENGINEERING (EEE) R20 Course Structure

Semester VI (Third Year)

S. No	Course Code	Course Category	Course Title	L	T	P	C
1	R203202PC01	PCC	Microprocessors and Microcontrollers	3	0	0	3
2	R203202PC02	PCC	Power System Analysis	3	0	0	3
3	R203202PC03	PCC	Power system protection	3	0	0	3
4	R203202PE01	PEC	Professional Elective-II	3	0	0	3
5	R2032020E01	OE/JOC	Open Elective –II	3	0	0	3
6	R203202PC01A	PCC-LAB	Power Electronics Lab	0	0	3	1.5
7	R203202PC02A	PCC-LAB	Power Systems Lab	0	0	3	1.5
8	R203202PC03A	PCC-LAB	Microprocessors and Microcontrollers Lab	0,	0	3	1.5
9	R203202SC01	SC	Renewable Energy Sources/ Certificate Course*	2	0	0	2
10	R2032MC01	MC	IPR & Patents	2	0	0	0
		* 0		T	otal C	redits	= 21.5

Note: * any certificate course offered by industries/Professional bodies/APSSDC or any other accredited bodies asapproved by the BoS.

Honors/Minor courses (The hours distribution can	4	0	0	4
be 3-0-2 or 3-1-0 also)				

Industrial/ Research Internship (Mandatory) 2 months during summer vacation

Category	Credits	a 1
Professional Elective Courses	03	
Professional Core Courses	13.5	
Open Elective Course/ Job oriented	03	0
course		
Skill advanced course/ Soft skill	02	
course	PRINC	IPAL minne Technology
TOTAL CREDITS	21.5 Laboratora College C	Engineering (A.P)
	21.5 Sri Venkateswara College C ETCHERLA, Srikak	m/sm-2254



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

R20 Course Structure Semester VII (Fourth Year)

S. No	Course Code	Course Category	Course Title	L	Т	P	C
1,	R204102PE01	PEC	Professional Elective-III	3	0	0	3
2	R204102PE02	PEC	Professional Elective-IV	3	0	0	3
3	R204102PE03	PEC	Professional Elective-V	3	0	0	3.
4	R204102OE01	OE/JOC	Open Elective -III	3	0	0	3
5	R204102OE02	OE/JOC	Open Elective -IV	3	0	0	3
6	R204102HS01	HSC	Universal Human Values-2: Understanding Harmony	3	0	0	3
7	R204102SC01	SC	Microgrid Technologies/ Certificate Course*	2	0	0	2
Industrial / Research Internship 2 months (Mandatory) after third year(to be evaluated during VII semester)				0	0	0	3
	* *	2		To	otal C	redits	= 23
Hono	rs/Minor courses	(The hours di	istribution can be 3-0-2 or 3-1-0 also)	4	0	0	4

Note: * any certificate course offered by industries/Professional bodies/APSSDC or any other accredited bodies asapproved by the BoS.

Category	Credits
Professional Elective Courses	09
Open Elective Course/ Job oriented course	06
Skill advanced course/ Soft skill course	02
Humanities and Social Science Elective	03
Industrial / Research Internship	03
TOTAL CREDITS	23 PRINCIPAL

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R20 Course Structure

Semester VIII (Fourth Year)

S. No	Course Code	Course Category	Course Title	L	T	P	C
1	R204202PR01	Major project/ PROJ	Project work, seminar and internship in industry	0	0	0	12
		IN	TERNSHIP (6 MONTHS)	1			
	a :e:			T	otal C	redits	s = 12

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B.Tech - Department of EEE- R20 Syllabus JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA UNIVERSITY COLLEGE OF ENGINEERING VIZIANAGARAM (AUTONOMOUS) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

	v		L	T	P	C
I Year-I/II Semester			2	0	0	0
Nam	e of the Sub	ject: Environmenta	al Science			

(Common to All branches)

Course Objectives:

The objectives of this course is to acquire knowledge on the

- (i) The natural resources and their sustenance of the life and recognize the need to conserve the natural resources.
- (ii) The concepts of ecosystem and its functions in the environment. The need for protecting the producers and consumers and their role in the food web.
 - (iii)The biodiversity of India and the threats to biodiversity, and the conservation practices to protect the biodiversity.
 - (iv) Various attributes of the pollution and their impacts and measures to reduce or control the pollution along with waste management.
 - (v)Social issues both rural and urban environment and the possible means to combat the challenges.

UNIT - I: MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES 7hrs

Definition, Scope and Importance - Need for public Awareness.

Natural Resources: Renewable and non-renewable 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 - 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 agriculture and overgrazing, effects of modem agriculture, fertilizer-pesticide problems, water logging, salinity.

UNIT - II: ECOSYSTEMS, BIODIVERSITY AND ITS CONSERVATION 7hrs

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 the ecosystems.

Biodiversity and its Conservation: Definition: genetic, species and ecosystem diversity – Bio geographical classification of India - Value of biodiversity: consumptive use, Productive use, social, ethical aesthetic and option values - Biodiversity at global, National and local levels - India as a mega-diversity nation of Hot-sports of biodiversity - Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts - Endangered and endemic species of India - Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

UNIT - III Environmental Pollution and solid waste Management

6hrs

Environmental pollution: Definition, Cause, effects and control measures of: Air Pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, nuclear hazards.

Solid Waste Management: Causes, effects and control measures of urban and industrial wastes -Role of an individual in prevention of pollution, Disaster management: floods, earthquake, cyclone and landslides.

UNIT - IV: SOCIAL ISSUES AND THE ENVIRONMENT

6hrs

Social Issues and the Environment: From Unsustainable to Sustainable development - 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 - Climate change, global warming, acid rain and ozone layer depletion, Wasteland reclamation — Consumerism and waste products. - Environment Protection Act. - Air (Prevention and Control of Pollution) Act. - Water (prevention and control of Pollution) Act. - Wildlife Protection Act. - Forest Conservation Act.

UNIT - V: HUMAN POPULATION AND THE ENVIRONMENT

6hrs

Human population and the Environment: Population growth, variation among nations' Population explosion - Family Welfare programme. - Environment and human health - Human Rights - Value Education - HIV/AIDS - Women and Child Welfare - Role of information Technology in Environment and human health.

Field Work: Visit to a local area to document environmental assets River/forest

Grassland/hill/mountain - Visit to a local polluted site-Urban/Rural/Industrial/Agricultural Study of common plants, insects, and birds - river, hill slopes.

Course Outcomes:

The students should be able to:

- (i)Gain a higher level of personal involvement and interest in understanding and solving environmental problems.
 - (ii)Comprehend environmental problems from multiple perspectives with emphasis on human modern lifestyles and developmental activities.
- (iii)Demonstrate knowledge relating to the biological systems involved in the major global environmental problems of the 2lst century.
- (iv) Influence their society in proper utilization of goods and services, Recognize the interconnectedness of human dependence on the earth's ecosystems.
 - (v)Learn the management of environmental hazards and to mitigate disasters and have a clear understanding of environmental concerns and follow sustainable development practices.

Text Books:

- (i)Text book of Environmental Studies for Undergraduate Courses by Erach Bharucha for University Grants Commission, Universities Press.
- (ii)Environmental Studies by Palaniswamy Pearson education.
- (iii) Environmental Studies by Dr.S. Azeem Unnisa, Academic Publishing Company.

Reference Books:

- (i)Textbook of Environmental Science by Deeksha Dave and E.Sai Baba Reddy, Cengage Publications.
- (ii)Text book of Environmental Sciences and Technology by M.Anji Reddy, BS Publication Reddy, Publication Redd
- (iii)Comprehensive Environmental studies by J.P.Sharma, Laxmi publications.

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B.Tech - Department of EEE- R20 Syllabus

- (iv) Environmental sciences and engineering J. Glynn Henry and Gary W. Heinke Prentice hall India Private limited.
- (v) A Text Book of Environmental Studies by G.R.Chatwal, Himalaya Publishing House.
- (vi) Introduction to Environmental engineering and science by Gilberl M. Masters and Wendell P.Ela - Prentice hall of India Private limited

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B.Tech - Department of EEE- R20 Syllabus JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA UNIVERSITY COLLEGE OF ENGINEERING VIZIANAGARAM (AUTONOMOUS) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

II Year - I Semester		L	T	P	C
	ESSIONAL ETHICS AND HUMAN VA	2	0	0	0

Course Objectives:

- i. This course is aimed at familiarizing researchers with the nuances of Intellectual Property Rights (IPR) so as to help them integrate the IPR process in their research activities.
- ii.IPR internalization process to help the researchers to set targeted objectives in their research project and also to design and implement their research to clearly differentiate their work vis-a-vis the existing state of knowledge/prior art.
- iii. To give the PhD Students "hands- on -training" in literature, including patent search and documentation of research activities that would aid an IPR expert to draft, apply and prosecute IPR applications.
- iv. To make the PhD students familiar with basics of IPR and their implications in Research, development and commercialization.
- v. Facilitate the students to explore career options in IPR.

Unit I: Introduction to Intellectual Property Rights (IPR)

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

Unit II: Copyrights and Neighboring Rights

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

UNIT III: Patents

Introduction to Patents - Laws Relating to Patents in India - Patent Requirements - Product Patent and Process Patent - Patent Search - Patent Registration and Granting of Patent - Exclusive Rights - Limitations - Ownership and Transfer — Revocation of Patent - Patent Appellate Board - Infringement of Patent Compulsory Licensing —

Patent Cooperation Treaty – New developments in Patents – Software Protection and Computer related Innovations

UNIT IV: Trademarks

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

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UNIT V: Trade Secrets & Cyber Law and Cyber Crime

Introduction to Trade Secrets - General Principles - Laws Relating to Trade Secrets -

Maintaining Trade Secret – Physical Security – Employee Access Limitation – Employee Confidentiality

Agreements - Breach of Contract - Law of Unfair Competition - Trade Secret Litigation - Applying State Law.

Cyber Law - Information Technology Act 2000 - Protection of Online and Computer Transactions -

E-commerce - Data Security - Authentication and Confidentiality - Privacy - Digital Signatures - Certifying

Authorities - Cyber Crimes - Prevention and Punishment - Liability of Network Providers.

Course Outcomes:

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

iii. Apply intellectual property law principles (including copyright, patents, designs and trademarks) to real problems and analyse the social impact of intellectual property law and policy

iv. Analyse ethical and professional issues which arise in the intellectual property law context

v.students should be able to Write reports on project work and critical reflect on their own learning.

References:

i.Intellectual Property Rights (Patents & Cyber Law), Dr. A. Srinivas. Oxford University Press, New Delhi.

ii.Deborah E.Bouchoux: Intellectual Property, Cengage Learning, New Delhi.

iii.PrabhuddhaGanguli: Intellectual Property Rights, Tata Mc-Graw -Hill, New Delhi

iv.Richard Stim: Intellectual Property, Cengage Learning, New Delhi.

v.Kompal Bansal & Parishit Bansal Fundamentals of IPR for Engineers, B. S. Publications (Press).

vi. Cyber Law - Texts & Cases, South-Western's Special Topics Collections.

ii.R.Radha Krishnan, S.Balasubramanian: Intellectual Property Rights, Excel Books. New Delhi.

viii.M.Ashok Kumar and MohdIqbal Ali: Intellectual Property Rights, Serials Pub.

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III Year - I Semester	\mathbf{L}	T	P	C
	2	0	0	0
INDIAN	ONSTITIUTION (MC)			

Course Objectives:

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

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.

UNIT-II

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

UNIT-III

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

UNIT-IV

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

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.

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. ii.
- Understand the value of the fundamental rights and duties for becoming good citizen of India. iii.
- Analyze the decentralization of power between central, state and local self-government. iv.
- Apply the knowledge in strengthening of the constitutional institutions like CAG, Election Commission V. 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. PRINCIPAL
 - Sri Venkataswara College of Engineering&Technology 3. Get acquainted with Local administration and Pachayati Raj. ETCHERLA, Srikakulam-532410 (A.P)

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- 4. Be aware of basic concepts and developments of Human Rights.
- 5. Gain knowledge on roles and functioning of Election Commission

References:

- i. Durga Das Basu, Introduction to the Constitution of India, Prentice Hall of India Pvt. Ltd.. New Delhi
- ii. SubashKashyap, Indian Constitution, National Book Trust
- iii. J.A. Siwach, Dynamics of Indian Government & Politics
- iv. D.C. Gupta, Indian Government and Politics
- v. H.M.Sreevai, Constitutional Law of India, 4th edition in 3 volumes (Universal Law Publication)
- vi. J.C. Johari, Indian Government and Politics Hans
- vii. J. Raj IndianGovernment and Politics
- viii. M.V. Pylee, Indian Constitution Durga Das Basu, Human Rights in Constitutional Law, Prentice Hall of India Pvt. Ltd.. New Delhi
- ix. 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:

- i. nptel.ac.in/courses/109104074/8
- ii. nptel.ac.in/courses/109104045/
- iii. nptel.ac.in/courses/101104065/
- iv. www.hss.iitb.ac.in/en/lecture-details

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III Year - II Semester		L	T	P	C
		2	0	0	0
	IPR & PATENTS (MC)				, .

Objectives:

- i. This course is aimed at familiarizing researchers with the nuances of Intellectual Property Rights (IPR) so as to help them integrate the IPR process in their research activities.
- ii. IPR internalization process to help the researchers to set targeted objectives in their research project and also to design and implement their research to clearly differentiate their work vis-a-vis the existing state of knowledge/ prior art.
- iii. To give the PhD Students "hands- on -training" in literature, including patent search and documentation of research activities that would aid an IPR expert to draft, apply and prosecute IPR applications.
- iv. To make the PhD students familiar with basics of IPR and their implications in Research, development and commercialization.
- v. Facilitate the students to explore career options in IPR.

Unit I: Introduction to Intellectual Property Rights (IPR)

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

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UNIT V: Trade Secrets & Cyber Law and Cyber Crime

Introduction to Trade Secrets - General Principles - Laws Relating to Trade Secrets -

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Maintaining Trade Secret – Physical Security – Employee Access Limitation – Employee Confidentiality Agreements – Breach of Contract – Law of Unfair Competition – Trade Secret Litigation – Applying State Law. Cyber Law – Information Technology Act 2000 - Protection of Online and Computer Transactions – E-commerce - Data Security – Authentication and Confidentiality - Privacy - Digital Signatures – Certifying Authorities - Cyber Crimes - Prevention and Punishment – Liability of Network Providers.

Outcomes:

- i. IPR Laws and patents pave the way for innovative ideas which are instrumental for inventions to seek Patents.
- ii. Student gets an insight on Copyrights, Patents and Software patents which are instrumental for further advancements.
- Apply intellectual property law principles (including copyright, patents, designs and trademarks) to real problems and analyse the social impact of intellectual property law and policy
- iv. Analyse ethical and professional issues which arise in the intellectual property law context
- v. students should be able to Write reports on project work and critical reflect on their own learning.

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- iii. PrabhuddhaGanguli: Intellectual Property Rights, Tata Mc-Graw -Hill, New Delhi.
- iv. Richard Stim: Intellectual Property, Cengage Learning, New Delhi.
- v. Kompal Bansal & Parishit Bansal Fundamentals of IPR for Engineers, B. S. Publications (Press).
- vi. Cyber Law Texts & Cases, South-Western's Special Topics Collections.
- vii. R.Radha Krishnan, S.Balasubramanian: Intellectual Property Rights, Excel Books. New Delhi.
- viii. M.Ashok Kumar and MohdIqbal Ali: Intellectual Property Rights, Serials Pub.

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~	1	P	C
3	0	0	3
	3	3 0	3 0 0

Course Objectives:

- i. To Development of a holistic perspective based on self-exploration about themselves(human being), family, society and nature/existence.
- ii. To Understanding (or developing clarity) of the harmony in the human being, family, society and nature/existence
- iii. Understanding the harmony in the society (society being an extension of family): Resolution, Prosperity, fearlessness (trust) and co-existence as comprehensive Human Goals
- iv. To Strengthening of self-reflection.
- v. To Development of commitment and courage to act.

Unit-I: Need, Basic Guidelines, Content and Process for Value Education

Purpose and motivation for the course, recapitulation from Universal Human Values-I - Self-Exploration—what is it? - Its content and process; 'Natural Acceptance' and Experiential Validation- as the process for self-exploration - Continuous Happiness and Prosperity- A look at basic Human Aspirations - Right understanding, Relationship and Physical Facility- the basic requirements forfulfilment of aspirations of every human being with their correct priority - Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario - Method to fulfil the above human aspirations: understanding and living in harmonyat various levels.

Unit-II: Understanding Harmony in the Human Being - Harmony in Myself!

Understanding human being as a co-existence of the sentient 'I' and the material Body' - Understanding the needs of Self ('I') and 'Body' - happiness and physical facility - Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer) - Understanding the characteristics and activities of 'I' and harmony in 'I' - Understanding the harmony of I with the Body: Sanyam and Health; correct appraisal of Physical needs, meaning of Prosperity in detail - Programs to ensure Sanyam and Health.

Unit-III: Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship

Understanding values in human-human relationship; meaning of Justice (nine universal values in relationships) and program for its fulfilment to ensure mutual happiness; Trust and Respect as the foundational values of relationship - Understanding the meaning of Trust; Difference between intention and competence - Understanding the meaning of Respect, Difference between respect and differentiation; the other salient values in relationship - Understanding the harmony in the society (society being an extension of family): Resolution, Prosperity, fearlessness (trust) and co-existence as comprehensive Human Goals - Visualizing a universal harmonious order in society- Undivided Society, Universal Orderfrom family to world family.

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Unit-IV: Understanding Harmony in the Nature and Existence - Whole existence as Coexistence

Understanding the harmony in the Nature - Interconnectedness and mutual fulfillment among the four orders of nature-recyclability and self-regulation in nature - Understanding Existence as Co-existence of mutually interacting units in all-pervasive space - Holistic perception of harmony at all levels of existence.

Unit-V: Implications of the above Holistic Understanding of Harmony on Professional Ethics

Natural acceptance of human values - Definitiveness of Ethical Human Conduct
Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order - Competence
in professional ethics: a. Ability to utilize the professional competence for augmenting universal human
order b. Ability to identify the scope and characteristics of people friendly and eco-friendly production
systems, c. Ability to identify and develop appropriate technologies and management patterns for above
production systems. - Case studies of typical holistic technologies, management models and production
systems - Strategy for transition from the present state to Universal Human Order: a. At the level of
individual: as socially and ecologically responsible engineers, technologists and managers b. At the level
of society: as mutually enriching institutions and organizations.

Course Outcomes:

- i. Students are expected to become more aware of themselves, and their surroundings(family, society, nature)
- ii. They would become more responsible in life, and in handling problems withsustainable solutions, while keeping human relationships and human nature in mind.
- iii. They would have better critical ability.
- iv. They would also become sensitive to their commitment towards what they have understood (human values, human relationship and human society).
- v. It is hoped that they would be able to apply what they have learnt to their own self in different day-to-day settings in real life, at least a beginning would be made in this direction.

TEXT BOOKS:

- R R Gaur, R Asthana, G P Bagaria, "A Foundation Course in Human Values and Professional Ethics", 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-47-1
- ii. R R Gaur, R Asthana, G P Bagaria, "Teachers' Manual for A Foundation Course in Human Values and Professional Ethics", 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-53-2

REFERENCES:

- i. Jeevan Vidya: Ek Parichaya, A Nagaraj, Jeevan Vidya Prakashan, Amar kantak, 1999.
- ii. A. N. Tripathi, "Human Values", New Age Intl. Publishers, New Delhi, 2004.
- iii. The Story of Stuff (Book).
- iv. Mohandas Karamchand Gandhi "The Story of My Experiments with Truth"
- v. E. FSchumacher. "Small is Beautiful"
- vi. Slow is Beautiful -Cecile Andrews
- vii. J C Kumarappa "Economy of Permanence"
- viii. Pandit Sunderlal "Bharat Mein Angreji Raj"
- ix. Dharampal, "Rediscovering India"
- x. Mohandas K. Gandhi, "Hind Swaraj or Indian Home Rule"
- xi. India Wins Freedom Maulana Abdul Kalam Azad
- xii. Vivekananda Romain Rolland(English)
- xiii. Gandhi Romain Rolland (English)

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COURSE STRUCTURE

For UG - R20

B. TECH - MECHANICAL ENGINEERING

(Applicable for batches admitted from 2020-2021)



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



COURSE STRUCTURE

I Year - I SEMESTER

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

I Year – II SEMESTER

Sl.No	Course Code	Subjects	L	T	P	Credits
1	BSC-3	Linear Algebra & Numerical Methods (M-II)	3	0	0	3
2	BSC-4	Engineering Chemistry	3	0	0	3
3	ESC-3	Engineering Mechanics	3	0	0 .	3
4	ESC-4	Basic Electrical & Electronics Engineering	3	0	0	3
5	ESC-5	Thermodynamics	3	0	0	3
6	ESC-L2	Workshop Practice Lab	0	0	3	1.5
7	BSC-L2	Engineering Chemistry Laboratory	0	.0	3	1.5
8	ESC-L3	Basic Electrical & Electronics Engineering Lab	0	0	3	1.5
9	MC-2	Constitution of India	2	0	0	0
	1110 2	Total Credits				19.5

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II YEAR I SEMESTER

S. No.	Course Code	Course Title	\mathbf{L}_{z}	T	P	Credits
1	BSC-5	Vector Calculus, Fourier Transforms and PDE(M-III)	3	0	0	3
2	PCC-1	Mechanics of Solids	3	0	0	3
3	PCC-2	Fluid Mechanics & Hydraulic Machines	3	0	0	3
4	PCC-3	Production Technology	3	0	0	3
5	PCC-4	Kinematics of Machinery	3	0	0	3
6	PCC-L1	Computer Aided Engineering Drawing Practice	0	0	3	1.5
7	PCC-L2	Fluid Mechanics & Hydraulic Machines Lab	0	0	3	1.5
8	PCC-L3	Production Technology Lab	0	0	3	1.5
9	SOC-1	Drafting and Modeling Lab	0	0	4	2
10	MC-3	Essence of Indian Traditional Knowledge	2	0	0	0
		Total Credits		,		21.5

II YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	ESC-6	Material Science & Metallurgy	3	0	0	3
2	BSC-6	Complex Variables and Statistical Methods	3	0	0	3
3	PCC-5	Dynamics of Machinery	3	0	0	3
4	PCC-6	Thermal Engineering-I	3	0	0	3
5	HSC-2	Industrial Engineering and Management	3	0	0	3
6	ESC-L4	Mechanics of Solids and Metallurgy Lab	0	0	3	1.5
7	PCC-L6	Machine Drawing Practice	0	0	3	1.5
8	PCC-L7	Theory of Machines Lab	0	0	3	1.5
9	SOC-2	Python Programming Lab	1	0	2	2
		Total Credits				21.5
	Honors/N	linor courses	4	0	0	4

^{*} At the end of II Year II Semester, students must complete summer internship spanning between 1 to 2 months (Minimum of 6 weeks), @ Industries/ Higher Learning Institutions/ APSSDC.

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III B.TECH I SEMESTER

- T	0.1.	Course Title		Hou	rs	Credits
No	Code		L	T	P	
1	PCC-7	Thermal Engineering-II	3	0	0	3
2	PCC-8	Design of Machine Members-I	3	0	0	3
3		Machining, Machine Tools & Metrology	3	0	0	
4	OE-1	Sustainable Energy Technologies Operations Research	3	0	0	3
5	PE-1	3. Nano Technology4. Thermal Management of Electronic systems1. Finite Element Methods	3	0	0	3
J	T L-T	2. Industrial Robotics 3. Advanced Materials	-			
		4. Renewable Energy Sources5. Mechanics of Composites6. MOOCs (NPTEL/ Swayam) Course (12 Week duration)				
6	PCC-L	6 Machine Tools Lab	0	0		3 1.5
7	PCC-L	7 Thermal Engineering Lab	0	0		3 1.5
8		Advanced Communication Skills Lab	1			2 2
0	MC -	4 Professional Ethics and Human Values	2	. 0	-	0 0
Eva	luation of	Summer Internship which is completed at the end of II B.Tech II Semester				1.:
3 3	* * * * * * * * * * * * * * * * * * * *	Gemeere	Tota	l cr	edit	s 21.
		Honors/Minor courses	4	4 (0	0 4





III B.TECH II SEMESTER

S.No	Code	Course Title		Ho	urs	Credits
			L	T	P	
1	PCC-10	Heat Transfer	3	0	0	3
2	PCC-11	Design of Machine Members-II	3	0	0	3
3	PCC-12	Introduction to Artificial Intelligence and Machine Learning	3	0	0	3
4	PE-2	1.Automobile Engineering 2.Smart Manufacturing 3.Advanced Mechanics of Solids 4.Statistical Quality Control	3	0	0	3
		5.Industrial Hydraulics and Pneumatics 6.MOOCs (NPTEL/ Swayam) Course (12 Week duration)				
5	OE-2	1.Industrial Robotics2.Essentials of Mechanical Engineering3.Advanced Materials4.Introduction to Automobile Engineering	3	0	0	3
6	PCC-L8	Heat Transfer Lab	0	0	3	1.5
7	PCC-L9	CAE&CAM Lab	0	0	3	1.5
- 8	PCC-L10	Measurements & Metrology Lab	0	0	3	1.5
9	SOC-4	Artificial Intelligence and Machine Learning Lab	0		4	2
10	MC - 5	Research Methodology and IPR	2	0	0	0
Ä.			Tot		edits	21.5
6.2		Honors/Minor courses		4 (0	4

* At the end of III Year II Semester, students shall complete summer internship spanning between 1 to 2 months at Industries/ Higher Learning Institutions/ APSSDC.

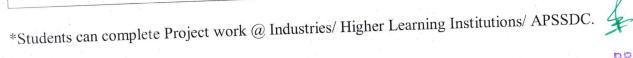
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	ECH I SEM	Course Title		Ho	urs		
.No	Code	Course Tree	L	T	P		
1	PE-3	1. Mechanical Vibrations	3	0	0		. 3
1		2. Operations Research					
		3. Unconventional Machining Processes					
		4. Computational Fluid Dynamics					
(F)		4. Computational Find Dynamics					
		5. Gas Dynamics and Jet Propulsion6. MOOCs (NPTEL/Swayam) Course (12 Week duration)					
	- DE 4	Automation in Manufacturing	3	0	()	3
2	PE-4	1. Automation in Manufactures	1-				
		2. Power Plant Engineering					
		3. Big Data Analytics	-				
		4. Production Planning and Control					
	4 ×	5. Condition Monitoring					
		6.MOOCs (NPTEL/Swayam) Course (12 Week duration)	+3	3 ()	0	3
3	PE-5	Advanced Manufacturing Processes	-				
		2. Mechatronics			-		
	0 pt	3. Refrigeration & Air-Conditioning					
- (-1		4. Additive Manufacturing					
		5 N. D. stanctive Evaluation					
		6. MOOCs (NPTEL/Swayam) Course (12 Week duration)	-	3	0	0	3
4	OE-3	1. Additive Manufacturing					
	OB 5	2 Mechatronics					
		3. Finite Element Methods4. Introduction to Artificial Intelligence & Machine Learning					
				3	0	0	3
5	OE-4	0					
	÷.						
		4 Operations Management				_	2
	TIGG 2	Universal Human Values: Understanding Harmony		3	0	0	3
6		T 1-		0	0	4	3
7	SOC-5	1 to dot the end of III B Lech II Selliester	T - 4			lite	23
Eval	uation of Sur	milet internant man a series in a series i	Tot	T-	o	0	4
	- C	Honors/Minor courses		4	U	U	

IV B.TECH II SEMESTER

Cred	veek	urs per v	Но	Course Title	Code		S
	P	T	L		Coue	Category	No.
12	16	4	0	D 'ast worls*			
12			Total credits	Project work*	PROJ	Major Project	1







		L	T	P	C
I Year - I Semester		2	0	0	0
	ENVIRONMENTAL SCIENCE	¥			

Learning O	bjectives:
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	Learning Objectives.
	The objectives of the course are to impart:
	Overall understanding of the natural resources.
	Pagic understanding of the ecosystem and its diversity.
	Acquaintance on various environmental challenges induced due to
	unplanned anthronogenic activities.
П	As understanding of the environmental impact of developmental activities.
	Awareness on the social issues, environmental legislation and global treaties.
1	I I II MI VII VI

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 andother 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.

Biodiversity and its conservation: Definition: genetic, species and ecosystem diversityclassification - 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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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 awareness. Environmental Management: Impact -Public legislation. environmental Assessment and its significance various stages of EIA, preparation of EMP and EIS, Environmental audit. Ecotourism, Green Campus - Green business and Green politics. The student should Visit an Industry / Ecosystem and submit a report individually on any issues related to Environmental Studies course and make a power point presentation.

Text Books:

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

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

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		L	T	P	C
I Year - II Semester		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 courtcontroller and auditor general of India and election commission of India.
- > To understand the central and state relation financial and administrative.

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

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 CentralSecretariat, 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

State Government and its Administration Governor - Role and Position - CM and Councilof 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

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 PRINCIPAL

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

Course Outcomes:

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

- Understand historical background of the constitution making and its importance forbuilding ademocratic 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.

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5. Gain knowledge on roles and functioning of Election Commission.



DEPARTMENT OF MECHANICAL ENGINEERING

	L	T	P	C
II Year - I Semester	2	0	0	0
	TRADITIONAL KNOWL	EDGE		

Course Objectives:

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

- The course aim of the importing basic principle of third process reasoning and inference sustainability is at the course of Indian traditional knowledge system
- To understand the legal framework and traditional knowledge and biological diversity act 2002 and geographical indication act2003
- The courses focus on traditional knowledge and intellectual property mechanism of traditional knowledge and protection
- To know the student traditional knowledge in different sector

Course Outcomes:

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

- Understand the concept of Traditional knowledge and 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

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.

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.

UNIT IV

Traditional knowledge and intellectual property: Systems of traditional knowledge protection engineering & Texture of the tradition engineering & Texture of the traditio Legal concepts for the protection of traditional knowledge, Certain non IPR mechanisms of am-532410 (traditional knowledge protection, Patents and traditional knowledge, Strategies to increase protection of traditional knowledge, global legal FORA for increasing protection of Indian Traditional Knowledge.



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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.

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/



	L	T	P	C
III Year - I Semester	2	0	0	0
PROFESSION	ETHICS AND HUMAN VALUE	S		

Course objective:

- 1) To understand the concepts of human values.
- 2) To gain knowledge about the principles of engineering ethics.
- 3) To interpret engineering as social experimentation.
- 4) To understand engineers' responsibility for safety and risk.
- 5) To gain knowledge about the engineers' rights and responsibilities.

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

UNIT-II:

ENGINEERING ETHICS:

The History of Ethics-Purposes for Engineering Ethics-Engineering Ethics-Consensus and Controversy -Professional and Professionalism -Professional Roles to be played by an Engineer Self Interest, Customs and Religion-Uses of Ethical Theories-Professional Ethics-Types of Inquiry -Engineering and Ethics-Kohlberg's Theory – Gilligan's Argument –Heinz's Dilemma.

UNIT-III:

ENGINEERING AS SOCIAL EXPERIMENTATION:

Comparison with Standard Experiments - Knowledge gained - Conscientiousness - Relevant Information – Learning from the Past – Engineers as Managers, Consultants, and Leaders Accountability - Role of Codes - Codes and Experimental Nature of Engineering.

UNIT-IV:

ENGINEERS' RESPONSIBILITY FOR SAFETY AND RISK:

Safety and Risk, Concept of Safety - Types of Risks - Voluntary v/s Involuntary Risk- Short term v/s Long term Consequences- Expected Probability- Reversible Effects- Threshold Levels for Risk-Delayed v/s Immediate Risk- Safety and the Engineer - Designing for Safety - Risk-Benefit Analysis-Accidents.

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UNIT-V:

ENGINEERS' RESPONSIBILITIES AND RIGHTS:

Collegiality-Techniques for Achieving Collegiality –Two Senses of Loyalty-obligations of Loyalty-misguided Loyalty – professionalism and Loyalty-Professional Rights –Professional Responsibilities – confidential and proprietary information-Conflict of Interest-solving conflict problems – Self-interest, Customs and Religion- Ethical egoism-Collective bargaining-Confidentiality-Acceptance of Bribes/Gifts-when is a Gift and a Bribe-examples of Gifts v/s Bribes-problem solving-interests in other companies-Occupational Crimes-industrial espionage-price fixing-endangering lives-Whistle Blowing-types of whistle blowing-when should it be attempted-preventing whistle blowing.

TEXT BOOKS:

- 1) Engineering Ethics and Human Values by M.Govindarajan, S.Natarajan and V.S.SenthilKumar-PHI Learning Pvt. Ltd-2009.
- 2) Professional Ethics and Morals by Prof.A.R.Aryasri, Dharanikota, Suyodhana-Maruthi Publications.

REFERENCE BOOKS:

- 1) Professional Ethics and Human Values by A.Alavudeen, R.Kalil Rahman and M.Jayakumaran-Laxmi Publications.
- 2) Professional Ethics and Human Values by Prof. D. R. Kiran, TMH.
- 3) Indian Culture, Values and Professional Ethics by P.S.R. Murthy-BS Publication.
- 4) Ethics in Engineering by Mike W. Martin and Roland Schinzinger-Tata McGraw-Hill 2003.
- 5) Engineering Ethics by Harris, Pritchard and Robins, CENGAGE Learning, Indian Edition, 2009.

Course outcomes: At the end of the course, student will be able to

CO1: Judge the concepts of human values.

CO2: Justify knowledge about the principles of engineering ethics.

CO3: Interpret engineering as social experimentation.

CO4: Realize engineers' responsibility for safety and risk.

CO5: Learn about the engineers' rights and responsibilities.

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KAKINADA-533003, Andhra Pradesh, India

DEPARTMENTE CONTINUE DE LA TRANSPORTE DE

Course objectives:

- 1) To understand the objectives and characteristics of a research problem.
- 2) To analyze research related information and to follow research ethics
- 3) To understand the types of intellectual property rights.
- 4) To learn about the scope of patent rights.
- 5) To understand the new developments in IPR.

UNIT - I

Research problem: Meaning of research problem, Sources of research problem, Criteria Characteristics of a good research problem, Errors in selecting a research problem, Scope and objectives of research problem. Approaches of investigation of solutions for research problem, data collection, analysis, interpretation, Necessary instrumentations

Literature study: Effective literature studies approaches, analysis Plagiarism, Research ethics, Technical writing: Effective technical writing, how to write report, Paper Developing a Research Proposal, Format of research proposal, a presentation and assessment by a review committee

UNIT-III

Nature of Intellectual Property: Patents, Designs, Trade and Copyright.

Process of Patenting and Development: technological research, innovation, patenting, development. International Scenario: International cooperation on Intellectual Property. Procedure for grants of patents, Patenting under PCT.

Patent Rights: Scope of Patent Rights. Licensing and transfer of technology. Patent information and databases. Geographical Indications.

New Developments in IPR: Administration of Patent System. New developments in IPR; IPR of Biological Systems, Computer Software etc, Traditional knowledge Case Studies, IPR and IITs.

TEXT BOOKS:

1) Stuart Melville and Wayne Goddard, "Research methodology: an introduction for science & engineering students""

2) Wayne Goddard and Stuart Melville, "Research Methodology: An Introduction"

3) Ranjit Kumar, 2nd Edition, "Research Methodology: A Step by Step Guide for beginners"

REFERENCES:

1) Halbert, "Resisting Intellectual Property", Taylor & Francis Ltd ,2007.

2) Mayall, "Industrial Design", McGraw Hill, 1992.

3) Niebel, "Product Design", McGraw Hill, 1974.

4) Asimov, "Introduction to Design", Prentice Hall, 1962.

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- 5) Robe**DEP ARETEMENTEO B. MECHIANICIA A. ENGINE ERING**ctual Property in New Technological Age", 2016.
- 6) T. Ramappa, "Intellectual Property Rights Under WTO", S. Chand, 2008

Course Outcomes: At the end of the course, student will be able to

CO1: Understand objectives and characteristics of a research problem

CO2: Analyze research related information and to follow research ethics.

CO3: Understand the types of intellectual property rights.

CO4: Learn about the scope of IPR.

CO5:Understand the new developments in IPR.







DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE STRUCTURE AND SYLLABUS For UG – R20

B. TECH - ELECTRONICS AND COMMUNICATION ENGINEERING

(Applicable for batches admitted from 2020-2021)



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
	ES	Programming for Problem Solving Using C	3	0	0	3
4	BS	Engineering Drawing	2	0	2	3
5	LC	English Communication Skills Laboratory	0	0	3	1.5
6	LC	Applied Chemistry Lab	0	0	3	1.5
7		Programming for Problem Solving Using C Lab	0	0	3	1.5
8	LC	Flogramming for Florida.	Total Credits		19.:	

S. No	II SEMES' 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
9		0	To	tal C	redits	19.

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II Year –I Semester

. 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 0	3
3	PC	Signals and Systems	3	1	0 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
	SC	Python Programming	0	0	4	2
9			,	Total C	redits	21.5

II Year – II Semester

S. No	Category	Name of the subject	L	T	P	Credits
	<u> </u>	Electronic Circuit Analysis	3	1	0	3
1	PC	Digital IC Design	3	1	0	3
2	PC PC	Analog Communications	3	0	0	3
3	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	0
10	MC	Constitution of India	3	otal Cr	0	21.5
		rs/Minor courses (The hours distribution can be 3-0-2			euits	4

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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
	Summe	r Internship 2 Months (Mandatory) after second year (to be evaluated during V semester	0	0	0	1.5
			Γ	otal c	redits	21.5
-	Hone	ors/Minor courses (The hours distribution can be 3-0-2	or 3-1-0	also)		4

<u>PE1:</u>	OE1:
 Antenna and Wave Propagation Electronic Measurements and Instrumentation Computer Architecture & Organization 	Candidate should select the subject from list of subjects offered by other departments

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III Year -II Semester

S. No	Category	Name of the subject	L	T	P	Credits
1	PC	Microprocessor and Microcontrollers	3	1	0	3
2	PC	VLSI Design	3	0	0	3
3	PC	Digital Signal Processing	3	0	0	3
4	PE2	Professional Elective courses - 2	3	0	0	3
5	OE 2	Open Elective Course/Job oriented elective -2	2	0	2	3
6	LC	Microprocessor and Microcontrollers - Lab	0	0	3	1.5
7	LC	VLSI Design Lab	0	0	3	1.5
8 .	LC	Digital Signal Processing Lab	0	0	3	1.5
9	SC	ARM based/ Aurdino based Programming	1	0	2	2
10	MC	Research Methodology	2	0	0	0
10	11.10		1	otal c	redits	21.5
	Ho	nors/Minor courses (The hours distribution can be 3-0-	2 or 3-1-0) also)		4

Industrial/Research Internship (Mandatory) 2 Months during summer vacation

<u>PE2:</u>	<u>OE2:</u>
Microwave Engineering Mobile & Cellular Communication Embedded Systems ACMOS Analog IC Design	Candidate should select the subject from list of subjects offered by other departments





JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY:: KAKINADA DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING IV Year –I Semester

S. No	Category	Name of the subject	L	Т	P	Credits	
1	PE P	Professional Elective courses -3	3	0	0	3	
2	PE	Professional Elective courses -4	3	0	0	3	
3	PE	Professional Elective courses -5	3	0	0	3	
4	OE	Open Elective Courses/ Job oriented elective -3	2	0	2	3	
5	OE	Open Elective Courses/ Job oriented elective -4	2	0	2	3	
6	HS	*Humanities and Social Science Elective	3	0	0	3	
7	SC	Designer tools (HFSS, Microwave Studio CST. Cadence Virtuoso. Synopsys, Mentor Graphics, Xilinx.)	1	0	2	2	
Indu	strial/Res	earch Internship 2 Months (Mandatory) afterthird ar (to be evaluated during VII semester	0	0	0	3	
	Total credits						
	Honors/Minor courses (The hours distribution can be 3-0-2 or 3-1-0 also)						

<u>PE 3:</u>	PE5:
 Optical Communication Digital Image Processing Low Power VLSI Design 	1. Radar engineering 2.Pattern recognition & Machine Learning 3.Internet of Things
<u>PE4:</u>	
1.Satellite Communications 2.Soft Computing Techniques 3.Digital IC Design using CMOS	

IV Year - II Semester

S. No.	Category	Code	Course Title	Hours per week			Credits
1	Major Project	PROJ	Project work, seminar and internship inindustry	_	-	-	12
		1	INTERNSHIP (6 MONTHS)				
					Total o	credits	12

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I Year - II Semester		L	T	P	C
		3	0	0	0
	ENVIRONMENTAL SCIENCE				

Course Objective:

Engineering drawing being the principal method of communication for engineers, the objective is to introduce the students, the techniques of constructing the various types of polygons, curves and scales. The objective is also to visualize and represent the 3D objects in 2D planes with proper dimensioning, scaling etc.

Unit I

Objective: To introduce the students to use drawing instruments and to draw polygons, Engg. Curves.

Polygons: Constructing regular polygons by general methods, inscribing and describing polygons on circles.

Curves: Parabola, Ellipse and Hyperbola by general and special methods, cycloids, involutes, tangents

&normals for the curves.

Scales: Plain scales, diagonal scales and vernier scales

Unit II

Objective: To introduce the students to use orthographic projections, projections of points & simple lines. To make the students draw the projections of the lines inclined to both the planes.

Orthographic Projections: Reference plane, importance of reference lines, projections of points in various quadrants, projections of lines, line parallel to both the planes, line parallel to one plane and inclined to other

Projections of straight lines inclined to both the planes, determination of true lengths, angle of inclination and

traces.

Unit III

Objective: The objective is to make the students draw the projections of the plane inclined toboth the planes. Projections of planes: regular planes perpendicular/parallel to one reference plane and inclined to the other reference plane; inclined to both the reference planes.

Unit IV

Objective: The objective is to make the students draw the projections of the various types of solids in different positions inclined to one of the planes.

Projections of Solids – Prisms, Pyramids, Cones and Cylinders with the axis inclined to both the planes.

Unit V

Objective: The objective is to represent the object in 3D view through isometric views. The student will be able to represent and convert the isometric view to orthographic view and vice versa.

Conversion of isometric views to orthographic views; Conversion of orthographic views to isometric views. Computer Aided Design, Drawing practice using Auto CAD, Creating 2D&3D drawings of objects using Auto CAD

Note: In the End Examination there will be no question from CAD.

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TEXT BOOKS:

1. Engineering Drawing by N.D. Butt, Chariot Publications

2. Engineering Drawing by Agarwal & Agarwal, Tata McGraw Hill Publishers

REFERENCE BOOKS:

1. Engineering Drawing by K.L.Narayana& P. Kannaiah, Scitech Publishers

2. Engineering Graphics for Degree by K.C. John, PHI Publishers

3. Engineering Graphics by PI Varghese, McGrawHill Publishers

4. Engineering Drawing + AutoCad - K Venugopal, V. Prabhu Raja, New Age

Course Outcome: The student will learn how to visualize 2D & 3D objects.

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Sri Venkateswara College of Engineering&Technology
ETCHERLA, Srikakulam-532410 (A.P)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE STRUCTURE AND SYLLABUS For UG -R20

B. TECH - COMPUTER SCIENCE & ENGINEERING

(Applicable for batches admitted from 2020-2021)



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



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE STRUCTURE

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

	I Year – II SEMESTER						
S. No	Course Code	Courses	L	Т	P	Credits	
. 1	BS	Mathematics – II (Linear Algebra And Numerical Methods)	3	0	0	3	
2	BS	Applied Chemistry	3	0	0	3	
. 3	ES	Computer Organization	3	0	0	3	
4	ES	Python Programming	3	0	0	3	
5	ES	Data Structures	3	0	0	3	
6	BS	Applied Chemistry Lab	0	0	3 .	1.5	
7 1	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	
1 a		Total Credits]	19.5	

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

	II Year – I SEMESTER								
S. No	Course Code	Courses	L	Т	P	Credits			
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			

	II Year – II SEMESTER							
S. No	Course Code	Courses	L	Т	P	Credits		
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				= a	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

		III B. Tech – I Semester)	
S.No	Course Code	Courses	Но	urs pe	r week	Credits	
			L	T	P	C	
1	PC	Computer Networks	3	0	0	3	
2	PC	Design and Analysis of Algorithms	3	0	0	3	
3	PC	Data Warehousing and Data Mining	3	0	0	3	
4	Open Elective / Job Oriented	Open Elective-I Open Electives offered by other departments/ Optimization in Operations Research (Job oriented course)	3	0	0	3	
5	PE	Professional Elective-I Artificial Intelligence Software Project Management Distributed Systems Advanced Unix Programming	3	0	0	3	
6	PC	Data Warehousing and Data Mining Lab	0	0	3	1.5	
7	PC	Computer Networks Lab	0	0	3	1.5	
8	SO	Skill Oriented Course – III 1. Animation course: Animation Design OR 2. Continuous Integration and Continuous Delivery using DevOps	0	0	4	2	
9	MC	Employability Skills-I	2	0	0	0	
10	PR	Summer Internship 2 Months (Mandatory) after second year (to be evaluated during V semester	0	0	0	1.5	
		Total credits				21.5	
11	Minor	Database Management Systems ^{\$}	3	0	2	3+1	
12	Honors	Any course from the Pool, as per the opted track	4	0	, 0	4	

\$- Integrated Course





DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

		III B. Tech – II Semester				
S.No	Course Code	Commence	Но	week	Credits	
			L	T	P	C
1	PC	Machine Learning	3	0	0	3
2	PC	Compiler Design	3	0	0	3
3	PC	Cryptography and Network Security	3	0	0	3
4	PE	Professional Elective-II 1.Mobile Computing 2.Big Data Analytics 3.Object Oriented Analysis and Design 4.Network Programming	3	0	0	3
5	Open Elective /Job Oriented	Open Elective-II Open Electives offered by other departments/ MEAN Stack Development (Job Oriented)	3	0	0	3
6	PC	Machine Learning using Python Lab	0	0	3	1.5
7	PC	Compiler Design Lab	0	0	3	1.5
8	PC	Cryptography and Network Security Lab	0	0	3	1.5
9	SO	Skill Oriented Course - IV 1.Big Data:Spark OR 2.MEAN Stack Technologies-Module I (HTML 5, JavaScript, Node.js, Express.js and TypeScript)	0	0	4	2
10	MC	Employability skills-II	2	0	0	0
N 1	1	Total credits	0.5	•	4	21.5
	Industrial/I	Research Internship(Mandatory) 2 Months	during	g summ	er vaca	
11	Minor	Data Structures and Algorithms ^{\$}	3	0	2	3+1
12	Honors	Any course from the Pool, as per the opted track	4	0	0	4
	Mine	or course through SWAYAM	-	-	-	2

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

	~	IV B. Tech –I Semester					
S.No	Course Code	Course Title		ırsperv	veek	Credits	
			L	T	P	C	
1	PE	Professional Elective-III 1.Cloud Computing 2.Neural Networks and Soft Computing	3	0	0	3	
		3.Ad-hoc and Sensor Networks 4.Cyber Security & Forensics				1	g 2:
2	PE	Professional Elective-IV 1. Deep Learning Techniques 2. Social Networks & Semantic Web 3. Computer Vision 4.MOOCS-NPTEL/SWAYAM%	3	0	0	3	
3	PE	Professional Elective-V 1.Block-Chain Technologies 2.Wireless Network Security 3.Ethical Hacking 4.MOOCS-NPTEL/SWAYAM%	3	0	0	3	
4	Open Elective /Job Oriented	Open Elective-III Open Electives offered by other departments/ API and Microservices (Job Oriented Course)	3	0	0	3	
5	Open Elective /Job Oriented	Open Elective-IV Open Electives offered by other departments/ Secure Coding Techniques (Job Oriented Course)	3	0	0	3	
6	HS	Universal Human Values 2: Understanding Harmony	3	0	0	3	
7	SO	1.PYTHON: Deep Learning OR 2.MEAN Stack Technologies-Module II- Angular JS and MongoDB OR 3.APSSDC offered Courses	0	0	4	2	
8	PR	Industrial/Research Internship 2 months (Mandatory) after third year (to be evaluated during VII semester	0	0	0	3	
1		Total credits			***************************************	23	
11	Minor	Software Engineering ^{\$} / any other from PART-B (For Minor)	3	0	2	3+1	
12	Honors	Any course from the Pool, as per the opted track	4	0	0	4	
	Minor	course through SWAYAM	-	-	-	2	

^{\$-} Integrated Course

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^{% -} MOOC Course



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

I Year – II Semester		L	T	P	C
1 Tear – II Semester		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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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 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. 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
- Perspectives in Environment Studies, Anubha Kaushik, C P Kaushik, New Age International Publishers, 2014

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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 selfgovernment.
- 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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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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

(]	T	L		IV Year – I Semester
		0	3		TV Tear = 1 Semester
	**	0	3	MAN VALUES 2: UNDERSTANDING HA	TIME DOAL THE

Human Values Courses

This course also discusses their role in their family. It, very briefly, touches issues related to their role in the society and the nature, which needs to be discussed at length in one more semester forwhich the foundation course named as "H-102 Universal Human Values 2: Understanding Harmony" is designed which may be covered in their III or IV semester. During the Induction Program, students would get an initial exposure to human values through Universal Human Values – I. This exposure is to be augmented by this compulsory full semester foundation course.

Universal Human Values 2: Understanding Harmony

Course code: HSMC (H-102)

Credits: L-T-P-C 2-1-0-3 or 2L:1T:0P 3 credits

Pre-requisites: None. Universal Human Values 1 (desirable)

1. Objective:

The objective of the course is four fold:

- 1. Development of a holistic perspective based on self-exploration about themselves (human being), family, society and nature/existence.
- 2. Understanding (or developing clarity) of the harmony in the human being, family, society and nature/existence
- 3. Strengthening of self-reflection.
- 4. Development of commitment and courage to act.

2. Course Topics:

The course has 28 lectures and 14 practice sessions in 5 modules:

Module 1: Course Introduction - Need, Basic Guidelines, Content and Process for Value Education

- 1. Purpose and motivation for the course, recapitulation from Universal Human Values-I
- 2. Self-Exploration—what is it? Its content and process; 'Natural Acceptance' and Experiential Validation- as the process for self-exploration
- 3. Continuous Happiness and Prosperity- A look at basic Human Aspirations
- 4. Right understanding, Relationship and Physical Facility- the basic requirements for fulfilment of aspirations of every human being with their correct priority
- 5. Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario
- 6. Method to fulfil the above human aspirations: understanding and living in harmony at various levels. Include practice sessions to discuss natural acceptance in human being as the innate acceptance for living with responsibility (living in relationship, harmony and co-existence) rather than asarbitrariness in choice based on liking-disliking

Module 2: Understanding Harmony in the Human Being - Harmony in Myself!

- 4. Understanding human being as a co-existence of the sentient 'I' and the material 'Body'
- 5. Understanding the needs of Self ('1') and 'Body' happiness and physical facility
- 6. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer)
- 7. Understanding the characteristics and activities of 'I' and harmony in 'I'
- 8. Understanding the harmony of I with the Body: Sanyam and Health; correct appraisal of Physical needs, meaning of Prosperity in detail
- 9. Programs to ensureSanyam and Health.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Include practice sessions to discuss the role others have played in making material goods available to me. Identifying from one's own life. Differentiate between prosperity and accumulation. Discuss program for ensuring health vs dealing with disease

Module 3: Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship

- 10. Understanding values in human-human relationship; meaning of Justice (nine universal values in relationships) and program for its fulfilment to ensure mutual happiness; Trust and Respect as the foundational values of relationship
- 11. Understanding the meaning of Trust; Difference between intention and competence
- 12. Understanding the meaning of Respect, Difference between respect and differentiation; the other salient values in relationship
- 13. Understanding the harmony in the society (society being an extension of family): Resolution, Prosperity, fearlessness (trust) and co-existence as comprehensive Human Goals
- 14. Visualizing a universal harmonious order in society- Undivided Society, Universal Order- from family to world family.

Include practice sessions to reflect on relationships in family, hostel and institute as extended family, real life examples, teacher-student relationship, goal of education etc. Gratitude as a universal value in relationships. Discuss with scenarios. Elicit examples from students' lives

Module 4: Understanding Harmony in the Nature and Existence - Whole existence as Coexistence

- 18. Understanding the harmony in the Nature
- 19. Interconnectedness and mutual fulfilment among the four orders of nature- recyclability and self-regulation in nature
- 20. Understanding Existence as Co-existence of mutually interacting units in all-pervasive space
- 21. Holistic perception of harmony at all levels of existence.

Include practice sessions to discuss human being as cause of imbalance in nature (film "Home" can be used), pollution, depletion of resources and role of technology etc.

Module 5: Implications of the above Holistic Understanding of Harmony on Professional Ethics

- 22. Natural acceptance of human values
- 23. Definitiveness of Ethical Human Conduct
- 24. Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order
- 25. Competence in professional ethics: a. Ability to utilize the professional competence for augmenting universal human order b. Ability to identify the scope and characteristics of people- friendly and eco-friendly production systems, c. Ability to identify and develop appropriate technologies and management patterns for above production systems.
- 26. Case studies of typical holistic technologies, management models and production systems
- 27. Strategy for transition from the present state to Universal Human Order: a. At the level of individual: as socially and ecologically responsible engineers, technologists and managers b. At the level of society: as mutually enriching institutions and organizations
- 28. Sum up.

Include practice Exercises and Case Studies will be taken up in Practice (tutorial) Sessions eg. To discuss the conduct as an engineer or scientist etc.

3. READINGS:

3.1 Text Book

1. Human Values and Professional Ethics by R R Gaur, R Sangal, G P Bagaria, Excel Books, New Delhi, 2010

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DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

COURSE STRUCTURE AND SYLLABUS

For UG - R20

B. Tech - COMPUTER SCIENCE AND ENGINEERING with Specialization

Common to

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

(Applicable for batches admitted from 2020-2021)



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



DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

COURSE STRUCTURE

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

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

*Internal Evaluation

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DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

		II Year – I SEMESTER	9 9		R I	31
S. No	Course Code	Courses	L	T	P	Credits
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

		II Year – II SEMESTER		9		-
S. No	Course Code	Courses	L	T	P	Credits
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
\$- Int	egrated Co	urce			7	19 ~

\$- Integrated Course

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DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

		III B. Tech – I Semester				
S.No	Course Code	Courses	Ho	urs per	week	Credits
			L	T	P	C
1	PC	Compiler Design	3	0	0	3
2	PC	Operating Systems	3	0	0	3
3	PC	Machine Learning	3	0	0	3
45 34		Open Elective-I			1	
=	Open	Open Electives offered by other				2.7
4	Elective/Job	departments/	3	0	0	3
	Oriented	Optimization in Operations Research(Job				
	9 5	oriented course)				
		Professional Elective-I				
		1. Software Engineering			1.5	
		2. Computer Vision		0	-	
		3. Data Visualization	:4.,			
5	PE	4. DevOps	3	0	0	3
		5. Machine Learning for				
+1		Engineering and Science Applications				
		(NPTEL)				a) a
	<u> </u>	(https://nptel.ac.in/courses/106106198)				
6	PC	Operating Systems & Compiler Design Lab	0	0	3	1.5
7	PC	Machine Learning Lab	0	0	3	1.5
		Skill Oriented Course - III	-			1.0
8	SO	Continuous Integration and	0	0	4	2
	I a m	Continuous Delivery using DevOps				2
9	MC	Employability Skills-I	2	0	0	0
	2 2 3 I	Summer Internship 2 Months				
10	PR	(Mandatory) after second year(to be	0	0	0	1.5
		evaluated during V semester				1.0
	ti - ' ' ' ' ' ' '	Total credits				21.5
11.	Minor	Machine Learning ^{\$}	3	0	2	4

\$- Integrated Course

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		III B. Tech – II Semester				10/10
S.No	Course Code	Courses	Но	urs per	week	Credits
			L	T	P	3 3 3 3 3 3 1.5 1.5 1.5
1	PC	Computer Networks	3	0	0	3
2	PC	Deep Learning	3	0	0	3
3	PC	Design and Analysis of Algorithms	3	0	0	3
4	PE	Professional Elective-II 1. Software Project Management 2. Distributed Systems 3. Internet of Things 4. Network Programming	3	0	0	3
5	Open Elective/Job Oriented	Open Elective-II Open Electives offered by other departments/ MEAN Stack Development (Job Oriented Course)	3	0	0	3
6	PC	Computer Networks Lab	0	0	3	1.5
7	PC	Algorithms for Efficient Coding Lab	0	0	3	
8	PC	Deep Learning with Tensorflow	0	0	3	
9	SO	Skill Oriented Course - IV MEAN Stack Technologies-Module I- HTML 5, JavaScript, Node.js, Express.js and TypeScipt OR Big Data: Apache Spark	0	0	4	
10	MC	Employability skills-II	2	0	0	0
		Total credits				21.5
I	ndustrial/Resea	arch Internship(Mandatory) 2 Months	during	g summe	er vacat	
11	Minor	Deep Learning ^{\$}	3	0	2	4
	Minor cou	urses through SWAYAM	0	0	0	2

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S.No	Course Code	IV B. Tech –I Semester (Tentative)	**			10 11
5.110	Course Code	Course Title	L	rs per	week P	Credits
	19	Professional Elective-III	L	1	P	
I	PE	 1.Reinforcement Learning 2.Soft Computing 3. Cryptography and Network Security 4. Block Chain Technologies 5. Speech Processing 	3 7	0	0	3
		Professional Elective-IV				
2	PE	 Robotic Process Automation Cloud Computing Big Data Analytics NOSQL Databases Video Analytics 	3	0	0	3
		Professional Elective-V				
3	PE	 Social Network Analysis Recommender Systems AI Chatbots Object Oriented Analysis and Design Semantic Web 	3	0	0	3
4	Open Elective /Job Oriented	Open Elective-III Open Electives offered by other departments/API and Microservices (Job Oriented Course)	3	0	0	3
5	Open Elective /Job Oriented	Open Elective-IV Open Electives offered by other departments/Secure Coding Techniques (Job Oriented Course)	3	0	0	3
6	HS	Universal Human Values 2: Understanding Harmony	3	0	0	3
7	SO	1.Machine Learning with Go (Infosys Spring Board) OR 2.MEAN Stack Technologies-Module II-Angular JS and MongoDB	0	0	4	2
8	PR	Industrial/Research Internship 2 months (Mandatory) after third year (to be evaluated during VII semester	0	0	0	3
4		Total credits				23
9	Minor	Reinforcement Learning	4	0	0	4

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		IV B. Tech –II Semester				
S.No	Course Code	Course Title	Hou	rs per w	eek	Credits
			L	T	P	C
1	Project	Major Project Work, Seminar, Internship	-	-	-	12
	2 2	Total credits			-	12

SUGGESTED COURSES MINOR ENGINEERING IN B.TECH.CSE- AI

Eligibility for Minor in CSE-AI: -

Note:

1. TWO, NPTEL courses of EIGHT week duration covering a total of 4 credits (offered by CSE Department only), Student can register at any time after the completion of II B.Tech. I Sem.

S.No.	Subject Title	Credits
1	Introduction to Artificial Intelligence and Machine Learning	4
2	Machine Learning	4
3	Deep Learning	4
4	Reinforcement Learning	4
	MOOCS Courses ** 1. Introduction to Soft Computing(NPTEL)	
	(https://nptel.ac.in/courses/106105173) 2. Digital Speech Processing (NPTEL)	
5	(https://nptel.ac.in/courses/117105145) 3. Cloud Computing (NPTEL)	4
	(https://nptel.ac.in/courses/106105167)	
	4. Practical Machine Learning with Tensorflow (NPTEL)	
	(https://nptel.ac.in/courses/106106213)	
	Total	20

^{**}Choose 02 MOOCS courses @ 2credits each from SWAYAM/NPTEL

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-	1	P	C
2	0	0	0
	2	2 0	2 0 0

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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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

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DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

I Year – II Semester		L	T	P	C
T Tour II Semester		2	0	0	0
8	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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• 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 and Politics Hans
- 7) J. Raj IndianGovernment and Politics
- 8) M.V. Pylee, Indian Constitution Durga Das Basu, Human Rights in Constitutional Law, Prentice Hall of India Pvt. Ltd.. New Delhi
- 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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II Year - I Semester		L	T	P	C
11 1 car - 1 Semester		2	0	0	0
ESSE	NCE 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 worldview 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 1

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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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, Bharatiya Vidya
- 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

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DEPARTMENT OF CSE - ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

IV B Tech I Sem		L	T	P	C
TV B Tech I Sem		3	0	0	3
UNIVERSAL	HUMAN VALUES 2: UNDERSTANDING HA	RM	ONY		

Human Values Courses

This course also discusses their role in their family. It, very briefly, touches issues related to their role in the society and the nature, which needs to be discussed at length in one more semester for which the foundation course named as "H-102 Universal Human Values 2: Understanding Harmony" is designed which may be covered in their III or IV semester. During the Induction Program, students would get an initial exposure to human values through Universal Human Values – I. This exposure is to be augmented by this compulsory full semester foundation course.

Universal Human Values 2: Understanding Harmony

Course code: HSMC (H-102)

Credits: L-T-P-C 2-1-0-3 or 2L:1T:0P 3 credits

Pre-requisites: None. Universal Human Values 1 (desirable)

1. Objective:

The objective of the course is four fold:

- 1. Development of a holistic perspective based on self-exploration about themselves (human being), family, society and nature/existence.
- 2. Understanding (or developing clarity) of the harmony in the human being, family, society and nature/existence
- 3. Strengthening of self-reflection.
- 4. Development of commitment and courage to act.

2. Course Topics:

The course has 28 lectures and 14 practice sessions in 5 modules:

Module 1: Course Introduction - Need, Basic Guidelines, Content and Process for Value Education

- 1. Purpose and motivation for the course, recapitulation from Universal Human Values-I
- 2. Self-Exploration—what is it? Its content and process; 'Natural Acceptance' and Experiential Validationas the process for self-exploration
- 3. Continuous Happiness and Prosperity- A look at basic Human Aspirations
- 4. Right understanding, Relationship and Physical Facility- the basic requirements for fulfilment of aspirations of every human being with their correct priority
- 5. Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario
- 6. Method to fulfil the above human aspirations: understanding and living in harmony at various levels. Include practice sessions to discuss natural acceptance in human being as the innate acceptance for living with responsibility (living in relationship, harmony and co-existence) rather than as arbitrariness in choice based on liking-disliking

Module 2: Understanding Harmony in the Human Being - Harmony in Myself!

- 7. Understanding human being as a co-existence of the sentient 'I' and the material 'Body'
- 8. Understanding the needs of Self ('I') and 'Body' happiness and physical facility
- 9. Understanding the Body as an instrument of 'I' (I being the doer, seer and enjoyer)
- 10. Understanding the characteristics and activities of 'I' and harmony in 'I'
- 11. Understanding the harmony of I with the Body: Sanyam and Health; correct appraisal of Physical needs, meaning of Prosperity in detail

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12. Programs to ensureSanyam and Health.

Include practice sessions to discuss the role others have played in making material goods available to me. Identifying from one's own life. Differentiate between prosperity and accumulation. Discuss program for ensuring health vs dealing with disease

Module 3: Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship

13. Understanding values in human-human relationship; meaning of Justice (nine universal values in relationships) and program for its fulfillment to ensure mutual happiness; Trust and Respect as the foundational values of relationship

14. Understanding the meaning of Trust; Difference between intention and competence

- 15. Understanding the meaning of Respect, Difference between respect and differentiation; the other salient values in relationship
- 16. Understanding the harmony in the society (society being an extension of family): Resolution, Prosperity, fearlessness (trust) and co-existence as comprehensive Human Goals
- 17. Visualizing a universal harmonious order in society- Undivided Society, Universal Order- from family to world family.

Include practice sessions to reflect on relationships in family, hostel and institute as extended family, real life examples, teacher-student relationship, goal of education etc. Gratitude as a universal value in relationships. Discuss with scenarios. Elicit examples from students' lives

Module 4: Understanding Harmony in the Nature and Existence - Whole existence as Coexistence

18. Understanding the harmony in the Nature

- 19. Interconnectedness and mutual fulfillment among the four orders of nature- recyclability and self-regulation in nature
- 20. Understanding Existence as Co-existence of mutually interacting units in all-pervasive space
- 21. Holistic perception of harmony at all levels of existence.

Include practice sessions to discuss human being as cause of imbalance in nature (film "Home" can be used), pollution, depletion of resources and role of technology etc.

Module 5: Implications of the above Holistic Understanding of Harmony on Professional Ethics

22. Natural acceptance of human values

23. Definitiveness of Ethical Human Conduct

24. Basis for Humanistic Education, I manistic Constitution and Humanistic Universal Order

25. Competence in professional ethi a. Ability to utilize the professional competence for augmenting universal human order b. Ability to dentify the scope and characteristics of people- friendly and eco-friendly production systems, c. Ability to identify and develop appropriate technologies and management patterns for above production systems.

26. Case studies of typical holistic technologies, management models and production systems

27. Strategy for transition from the present state to Universal Human Order: a. At the level of individual: as socially and ecologically responsible engineers, technologists and managers b. At the level of society: as mutually enriching institutions and organizations

28. Sum up.

Include practice Exercises and Case Studies will be taken up in Practice (tutorial) Sessions eg. To discuss the conduct as an engineer or scientist etc.



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Office: +91 7901467802, email: principal_svcet@yahoo.com, website: www.svcet.info

7.1.1 Measures initiated by the institution for the promotion of gender equity during the year

Sri Venkateswara College of Engineering and Technology involves teaching gender sensitivity and encouraging behavior modification to eliminate gender discrimination. Gender sensitization helps promote equality for men and women by challenging stereotypes and questioning personal attitudes and beliefs.

Specific facilities provided for women in terms of:

- a. Safety and security
- b. Counseling
- c. Common rooms
- d. Surveillance system
- e. Hostels
- f. Health care center
- g. Girls rest Room

To create gender equity in students and staff, the institute provides equal opportunities to staff and students in all the activities viz., administrative, teaching, co-curricular, extracurricular, sports, committees and cultural etc.

Annual gender sensitization action plan:

In our continued efforts to have a gender discrimination free campus and boost women empowerment, the institute plans to organize programs on the following topics.

- Conduct programs on women empowerment and employment opportunities.
- Conduct awareness workshops on health, hygiene, nutrition.
- Conduct motivational talk by women entrepreneurs, achievers in different fields.
- Counseling girl students to make them independent.



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Specific facilities provided for women in terms of:

a. Safety and security

The institute is committed to ensure safety and security to all the students especially to girl students and strictly follow the safety norms in all aspects.

- Both girl's hostel & boys hostels are provided with fire extinguishers.
- The entire institute is surrounded with a compound wall and looked after by trained security 24x7.
- Girls' hostel is equipped with physical fitness equipment.
- Main gate, laboratories, roads, corridors, hostels are equipped with CC cameras
 are under surveillance monitored at the security office.
- Separate doctors are recruited and available in boys and girls hostels.
- Separate restrooms are provided to girl students.
- Separate dining rooms are provided to girl students in the canteen..
- Lady faculty members are appointed as bus in-charges.
- The college is providing sanitary napkins.

b. Counseling

All the departments have women staff to regularly counsel and address any issues facing by the girl students. For the constructive mentoring and development of students every class is assisted with a class-in-charge.

c. Common rooms

Ladies waiting halls are available in the college campus and first aid facility is available in both the hostels.

CC Cameras & Its Surveillance

The cc cameras covered the girls hostel, the college canteen, the main gate, class rooms and at reception counter, and all are observed by centralized and decentralized surveillance systems.



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Girls Hostel:

Girl's hostel is surrounded by CC cameras in East, West, South and North corners. The surveillance is being monitored by the staff in the hostel.

Security:

Sri Venkateswara College of Engineering and Technology has sufficient Security Personnel. They are more committed and loyal to the organization.

Food Court:

There are facilities of canteen, Food Court, Bakery & cool drinks and Stationary facilities. There is a unique facility of separate dining rooms allotted to Boys, Girls and faculty in the Bakery & Cool Drinks store.

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LIST OF THE GENDER EQUITY PROMOTION PROGRAMS

S.No	Academic Year	Title of the Program	Date
1	1001	International Women's Day	08.03.2023
2	la .	Gender equality at work place	06.01.2023
3	2022-23	Awareness on using DISA app	12.11.2022
4		World Teacher's Day	15.10.2022
5		International Girl Child day	11.10.2022
6		Cultural Competitions for women	27.06.2022
7		Health and Hygiene for women	19.04.2022
8	2021-22	Cancer Care	06.04.2022
9		Legal Awareness	22.02.2022
10		Women Safety	14.12.2021
11		Mahila E-Haat	03.11.2021
12	2020-21	COVID Vaccination for Women	24.03.2021
13		International Women's Day	07.03.2020
14		Women of The New Milinium Series – Hackathon	25.11.2019
15		A Talk on Woman Safety in public places	22.08.2019
16	2019-20	Skills Development for Financial Independence	06.08.2019
17	*	Yoga Day For Women	21.06.2019
18		Professional development with innovative thinking	11.04.2019
19		International Women's Day	08.03.2019
20	2018-19	Personality Development	19.12.2018
21		Women Empowerment	12.07.2018
22	,	Yoga Day	21.06.2018

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ETCHERLA, STIKAKULEM-532410 (A.P.)



COLLEGE OF ENGINEERING & TECHNOLOGY

ISO 9001: 2015 Certified
(Approved by AICTE, New Delhi, Affiliated to JNTUGV, Vizianagaram)

DATE: 01.03.2023

CIRCULAR

All the Women faculty and girl students are here by informed that, the institute is going to organize a program on "International Women's Day on" 8th March 2023 at seminar hall. So you are required to enroll your names with the program coordinator V.Suryakala (9542999192) and must assemble at Seminar Hall at 02:00PM.

Copy to Honorable Management for favor of information.

Department	IQAC	CE	EEE	ME	ECE	CSE	AIML	BS&H	MBA	OFFICE	N.B	FILE
Signature	The		NW	/X	Der		R	m	14/	4	G	M



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1919705576693. email: principal_svcet@yahoo.com, website: www.svcet.info

PROGRAM REPORT

DATE:09.03.2023

Program Name

: International Women's Day

Date of activity

: 08.03.2023

Venue

:Seminar Hall

Report:

Sri Venkateswara Engineering &Technology (SVCET) organized a program on International Women's Day.V.Suryakala assistant professor organized this program.Many events competitions were conucted.Along with principal Dr.S.C.V.Ramna and Naidu, HODs, Women Staff and all the girl students participated in this program. All the winners were given away prizes. The coordinator thanked the gathering.

C. LHERLA, Srikakulam-532410 (A.P)



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Office: +91 9705576693, email: principal_svcet@yahoo.com, website: www.svcet.info

Program Name

: International Women's Day

Date

: 08/03/2023

S.No.	Name of Participant	Student Reg. No.	Year & Branch	Signature
1	BEVARA NAGAMANI	19MT1A0404	IV/ECE	B. Abgenow
2	BONELA PRAMEELA RANI	19MT1A0405	IV/ECE	B. Promallipen
3	DANETI SWATHI	19MT1A0410	IV/ECE	D. Sulathi
4	DEVARASETTI TANUJA	19MT1A0411	IV/ECE	0
5	DOLA PRASANTHI KUMARI	19MT1A0413	IV/ECE	D. Tanuja D. Psiasanthi kumo
6	GARA LEELARANI	19MT1A0414	IV/ECE	Gileela Rani
7	GUNUPURU GOWREESWARI	19MT1A0416	IV/ECE	
8	GUNUPURU SULOCHANA	19MT1A0417	IV/ECE	Gr. Grownes Swari
9	MAMIDI LAVANYA	19MT1A0423	IV/ECE	M. Lavania
10	MANDALA YAMUNA	19MT1A0424	IV/ECE	
11	PATNANA SANDHYARANI	19MT1A0427	IV/ECE	P. Sandhyarani
12	POLIPALLI YASHASWANI	19MT1A0428	IV/ECE	P. yas haswasi
13	POTNURU PRIYANKA	19MT1A0430	IV/ECE	P. Priyanka
14	REKHALA SWATHI	19MT1A0431	IV/ECE	R. Smathi
15	SANGIREDDI SAILAKSHMI	19MT1A0432	IV/ECE	c. Sailakehini
16	SATHIVADA SAI BHAVANIKA	19MT1A0433	IV/ECE	S. Sai Bhavanika
17	ULLAKULA JHANSI	19MT1A0436	IV/ECE	U. Than of
18	ABOTHULA SAI THUNAJA	19MT1A0501	IV/CSE	A. Sai thunaja
19	ADAPAKA PURNIMA	19MT1A0502	IV/CSE	A Dally WOX
20	CHINTADA SHARMILA	19MT1A0505	IV/CSE	C. sharmila
21	GANDETI ASWINI	19MT1A0512	IV/CSE	G-Aswini
22	GIRADA SRAVANI	19MT1A0514	IV/CSE	G. Sáculoni
23	KADA PUJA	19MT1A0516	IV/CSE	K. DUTA
24	KALAGA MOUNIKA	19MT1A0517	IV/CSE	K Mounika
25	KALAMATA GOWRI	19MT1A0518	IV/CSE	K. Gowai.
26	KANCHARANA YAMINI	19MT1A0519	IV/CSE	k vamini
27	KANITHI BHARGAVI	19MT1A0520	IV/CSE	K. Bhargani
28	KARANAM SIREESHA	19MT1A0521	IV/CSE	K. Sincesha
29	KOKKIRI ANUSHA	19MT1A0522	IV/CSE	K. Anushpe
30	KOLLI SRUTHI	19MT1A0523	IV/CSE	K. SRuthi



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S.No.	Name of Participant	Student Reg. No.	Year & Branch	Signature
31	BHAIRI NEERAJA	19MT1A0202	IV/EEE	B. Necrasa.
32	GODDU DIVYA	19MT1A0204	IV/EEE	G. Rilyon
33	LINGALA DEVI	19MT1A0206	IV/EEE	i Deud
34	MUDDADA INDIRA	19MT1A0207	IV/EEE	M. Indina
35	BANALA DHANALAKSHMI	19MT1A0402	IV/ECE	B. Dhanalakshmi
36	BEVARA NAGAMANI	19MT1A0404	IV/ECE	B. Nagaman;
37	BONELA PRAMEELA RANI	19MT1A0405	IV/ECE	B. Prameela Ran
38	DANETI SWATHI	19MT1A0410	IV/ECE	D. Supthi
39	DEVARASETTI TANUJA	19MT1A0411	IV/ECE	D. Tanuja
40	DOLA PRASANTHI KUMARI	19MT1A0413	IV/ECE	Di Parasanthi Kumani
41	GARA LEELARANI	19MT1A0414	IV/ECE	Gr. Leela van?
42	GUNUPURU GOWREESWARI	19MT1A0416	IV/ECE	G. GOWDIESWOR
43	GUNUPURU SULOCHANA	19MT1A0417	IV/ECE	G. Sulochana
44	MAMIDI LAVANYA	19MT1A0423	IV/ECE	m. Ilayanaya
45	UPPADA LAKSHMI	19MT1A0549	IV/CSE	m. Lavanya
46	URJANA SONIA	19MT1A0550	IV/CSE	Sonia
47	URLAPU SIREESHA	19MT1A0551	IV/CSE	4, Sisser
48	VADDI SREELEKHA	19MT1A0552	IV/CSE	V. Sreelekha
49	AKUNDIRATNASREE	21MT1E0001	II / MBA	A. SREE
50	ANARASI ALISHA PATRO	21MT1E0004	II / MBA	tio
51	ANUSHA PANDEY	21MT1E0005	II / MBA	P. Angha.
52	BANGARU SURYA BHARGAVI	21MT1E0006	II / MBA	BoRhowaari
53	ANTHARAKONDA JYOTHI	21MT1E0008	II / MBA	A. Tuotti

CO ORDINATOR

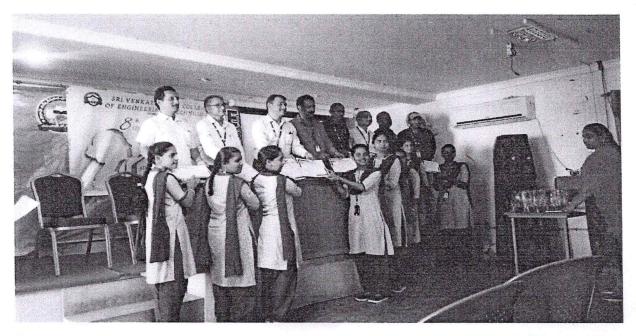
PRINCIPAL

PRINCIPAL
Sri Venkateswara College of Engineering & Technology
ETCHERLA, Srikakulam-532410 (A.P)



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INTERNATIONAL WOMEN'S DAY





PHINCIPAL Sri Venka PRING I PLATE ny ineering & Technology ETCHERLA, Srikakulam-532410 (A.P)

COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AJCTE, New Delhi, Affiliated to JNTUGV, Vizianagaram)

Office:+91 9705576693. email: principal_svect@yahoo.com, website: www.svect.info

DATE: 30.12.2022

CIRCULAR

All the Women staff members and girl students are here by informed that, the institute will organize an awareness program on "Gender equality at work place", on 06.01.2023. So you are required to enroll your names with the program coordinator V.Suryakala (9542999192) and must assemble at Seminar Hall at 10:00 AM.

Copy to Honorable Management for favor of information.

Department	IQAC	CE	EEE	ME	ECE	CSE	AIML	BS&H	MBA	OFFICE	N.B	FILE
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Office: 91 9705576693. email: principal_sveet@yahoo.com, website: www.svect.info

PROGRAM REPORT

DATE:07.01.2023

Program Name

: Gender Equality at Work Place

Date of activity

: 06.01.2023

Venue

: Seminar Hall

Resource person

: Dr .S.C.V Ramana Murthy, Principal

Report:

Sri Venkateswara Engineering &Technology (SVCET) college organized an awareness program on Gender Equality at Work Place. In this program the speaker Dr.S.C.V Ramana Murthy, Principal addressed the gathering and told us about gender equality prevents violence against women and girls. In some workplaces, women are still considered less than men. Gender equality is a human right. One of the biggest reasons for gender equality is gap between awareness and action.

V. Suya Kala COORDINATOR St. Work atesman College of RANGINA TOTAL MENLA, Scikakulam-532410 (A.P.)



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Office: +91 9705576693, email: principal_svcet@yahoo.com, website: www.svcet.info

Program Name

: Gender equality at work place

Date

: 06/01/2023

S.No.	Name of Participant	Student Reg. No.	Year & Branch	Signature
1	DIAMAT A MANNA	10) (T1) 0500	IV/CSE	O. kanua
	DHAVALA KAVYA	19MT1A0508		D. kavya
2	DHAVALA SAI SIREESHA	19MT1A0509	IV/CSE	D-Sai Silcesta
3	GAINEDI MONIKA PRIYA	19MT1A0511	IV/CSE	G. maunika Baya
4	GANDETI ASWINI	19MT1A0512	IV/CSE	G. ASWIGI
5	GIRADA SRAVANI	19MT1A0514	IV/CSE	G. Salani
6	KADA PUJA	19MT1A0516	IV/CSE	k. puja
7	KALAGA MOUNIKA	19MT1A0517	IV/CSE	K.mounita
8	KALAMATA GOWRI	19MT1A0518	IV/CSE	K. Gowsi
9	KANCHARANA YAMINI	19MT1A0519	IV/CSE	K. Yamily
10	KANITHI BHARGAVI	19MT1A0520	IV/CSE	K.Rhargavi
11	KARANAM SIREESHA	19MT1A0521	IV/CSE	K. Sireesha
12	KOKKIRI ANUSHA	19MT1A0522	IV/CSE	K. Anusha
13	KOLLI SRUTHI	19MT1A0523	IV/CSE	Kolli . Brothi
14	KONNI LIKHITHA	19MT1A0525	IV/CSE	K. Li Khitha
15	KOTTURU ASWINI	19MT1A0526	IV/CSE	e. Alwahni
16	KOVADA SPANDANA	19MT1A0527	IV/CSE	K. Spandama
17	POTHALA NAVYA SRI	19MT1A0540	IV/CSE	P. Navya Sxi
18	AMPILLI SANGEETA	18MT1A0102	III/CE	A Sangeeta
19	ARIKA PRESIKELLA	18MT1A0103	III/CE	ASargreetha
20	BELAMARA SAI SIREESHA	18MT1A0106	III/CE	13 - Sen Sur
21	BIDDIKA LAXMIPRASANNA	18MT1A0107	III/CE	B. Levili Prasmor
22	CHINTADA SRAVANI	18MT1A0110	III/CE	C. SYCNGIN
23	DHANA LAKSHMI JAVAPU	18MT1A0113	III/CE	1. Dhandaki
24	GURUGUBELLI BHARGAVI	18MT1A0116	III/CE	Gr. Bhargal
25	JAMPA MEENA	18MT1A0117	III/CE	1. meena
26	KUMBIRIKI SANTHOSHI	18MT1A0119	III/CE	W-SULTHOSHI
27	KUNDANGI RAJINI	18MT1A0120	III/CE	K Ballni
28	KUPPILI RAJASULOCHANA	18MT1A0121	III/CE	K. Rayasolac
29	KURMANA KAVYA	18MT1A0122	III/CE	K. Kavaca
30	LINGALA SANDHYA	18MT1A0123	III/CE	L. Sandh Ba



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S.No.	Name of Participant	Student Reg. No.	Year & Branch	Signature
31	SIRIPILLI DURGA BHAVANI	18MT1A0546	III/CSE	S. Dwar Howay
32	SIRLA BHAVANIKUMARI	18MT1A0547	III/CSE	S-Bhowa wi Eumo
33	SRAVANI SANDHYA		III/CSE	Souvani Sunelhya. G
	GANTYADA	18MT1A0548		1
34	TAMMIREDDY LAVANYA	18MT1A0550	III/CSE	T. Lavarya
35	TEEMARA HARIKA	18MT1A0552	III/CSE	T. HARIKA
36	URITI DIVYARANI	18MT1A0553	III/CSE	V. Divya Rami
37	URITI SIREESHA	18MT1A0554	III/CSE	U.SIReesha
38	YARABATI CHANDINI	18MT1A0558	III/CSE	Vich andins.
39	SAMBANA GEETANJALI	18MT1A0543	III/CSE	S. Geothawali
40	CHALLA SANTOSHI KUMARI	21MT1E0012	II/MBA	C- Santhoshi Kumau
41	DUNNA SUBHASRI	21MT1E0015	II/MBA	D. Subhalli
42	GEMBALI SARASWATHI	21MT1E0018	II/MBA	G. Salaswattin
43	JADDU RAMYA	21MT1E0020	II/MBA	J. Ramya
44	MANDAPAKA PALLAVI	21MT1E0032	II/MBA	M. Pallavi
45	MITTANA SUNEETHA	21MT1E0035	II/MBA	M. Sinitas
46	MOYYA SRAVANI	21MT1E0037	II/MBA	M. Crowani
47	MUDULA DIVYA	21MT1E0038	II/MBA	Miry
48	DABBEERU PADMAJA	21MT1E0039	II/MBA	D. Padmaja
49	PEDDINTI HARIKA	21MT1E0042	II/MBA	D. Hazira
50	PILLALA SIREESHA	21MT1E0043	II/MBA	P. Sireelhe
51	POTNURU SREEJA	21MT1E0047	II/MBA	P. Steesa

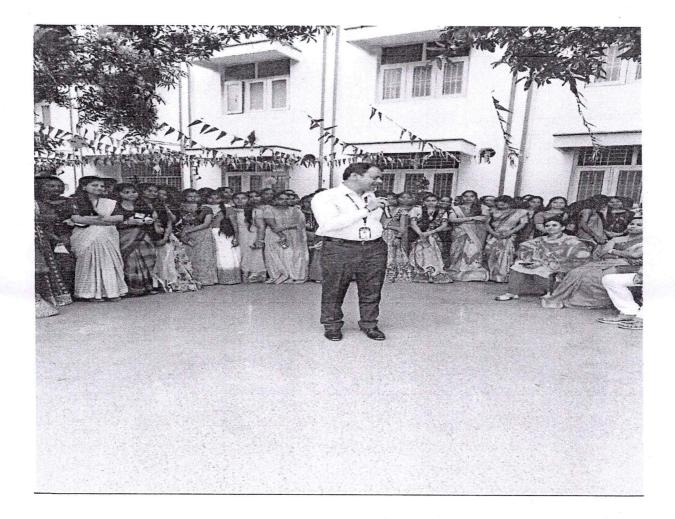
PRINCIPAL

Sri Venkateswara College of Engineering Technology
ETCHERLA, Srikakuiam-532410 (A.P.)



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GENDER EQUALITY AT WORK PLACE EVENT



Sri Venkateswa PRINCIPAL ering & Technology ETCHERLA, Srikakulam-532410 (A.P)



COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to JNTUGV, Vizianagaram)

Office: +91 9705576693, email: principal_svect@yahoo.com, website: www.svect.info

DATE:07.11.2022

CIRCULAR

All the Women staff members and girl students are here by informed that the institute will organize an awareness program on "Awareness on using DISA app", on 14.11.2022. So you are required to enroll your names with the program coordinator V.Suryakala (9542999192) and must assemble at Seminar Hall at 02:00PM Auditorium at 3:00Pm.

ETCHERLA Srikakulam-532410 (A

Copy to Honourable Management for favor of information.

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PROGRAM REPORT

DATE:15.11.2022

Program Name

: Awareness on using DISA app

Date of activity

: 14.11.2022

Venue

: Seminar Hall

Resource person

: Mrs. D. Urmila.

Report:

Sri Venkateswara Engineering &Technology (SVCET) organized a program on 'Awareness on using DISA app'. In this program, speaker Mrs.D. Urmila ,Superintend of police addressed the gathering and explained the advantages using with Disha App to women community to protect themselves in difficulties. The police department staff demonstrated usage of Disa App.

V. Suyya Koda COORDINATOR Shilanhataniara College Brend P. To (A.P.)
ELLIERLA, Srikakulam-5327 (A.P.)



ŠRI VENKATESWARA COLLEGE OF ENGINEERING & TECHNOLOGY ISO 9001:2015 Certified

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Program Name

: Awareness on using DISA app

Date

: 12/11/2022

S.No.	Name of Participant	Student Reg. No.	Year & Branch	Signature
1	SANKILI SUVARNA	19MT1A0545	IV/CSE	S. Siwang
2	SUNKARI KAVYA	19MT1A0546	IV/CSE	SKarya
3	SURAVARAPU SIVANI	19MT1A0547	IV/CSE	5, SIVANI
4	UPPADA LAKSHMI	19MT1A0549	IV/CSE	v. lakelimi
5	URJANA SONIA	19MT1A0550	IV/CSE	y. Sonia
6	URLAPU SIREESHA	19MT1A0551	IV/CSE	v.sireesha
7	VADDI SREELEKHA	19MT1A0552	IV/CSE	V. Syceletha
8	VAVILAPALLI GAYATHRI	19MT1A0553	IV/CSE	V. Gayathi
9	YANDA SAROJINI	19MT1A0554	IV/CSE	y. Earofini
10	CHAM CHAM KUMARI	19MT1A0557	IV/CSE	ct. chamkemari
11	ANKITA KUMARI	19MT1A0558	IV/CSE	A. Kurazi
12	RAKHI KUMARI	19MT1A0560	IV/CSE	R. Komari
13	BANALA DHANALAKSHMI	19MT1A0402	IV/ECE	B. Dhanalerty
14	BEVARA NAGAMANI	19MT1A0404	IV/ECE	B. Mag amouni
15	BONELA PRAMEELA RANI	19MT1A0405	IV/ECE	B. PRAmeda Ren
16	DANETI SWATHI	19MT1A0410	IV/ECE	D. Swatte
17	DEVARASETTI TANUJA	19MT1A0411	IV/ECE	D. Tomute
18	DOLA PRASANTHI KUMARI	19MT1A0413	IV/ECE	Gr-heclow
19	GARA LEELARANI	19MT1A0414	IV/ECE	is loclering
20	GUNUPURU GOWREESWARI	19MT1A0416	IV/ECE	in Experience sur
21	GUNUPURU SULOCHANA	19MT1A0417	IV/ECE	G. Sulochana
22	BHAIRI NEERAJA	19MT1A0202	IV/EEE	B. Nelpain
23	GODDU DIVYA	19MT1A0204	IV/EEE	CADO.
24	LINGALA DEVI	19MT1A0206	IV/EEE	L. Devi
25	MUDDADA INDIRA	19MT1A0207	IV/EEE	M. Indira
26	PAILA SRAVANI	19MT1A0114	IV/CE	2 Jan
27	PATTIKA KASTURI	19MT1A0117	IV/CE	P. Kaglusi
28	RUGADANA SANGEETHA	19MT1A0119	IV/CE	R. Songlytha
29	SAMBANA GEETANJALI	18MT1A0543	III/CSE	squell
30	SAVARA ANUSHA	18MT1A0545	III/CSE	3. Anusha



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32	BONELA PRAMEELA RANI	19MT1A0405	IV/ECE	B. Dalameeta Rani
33	DANETI SWATHI	19MT1A0410	IV/ECE	O. Swathi
34	DEVARASETTI TANUJA	19MT1A0411	IV/ECE	Detrupy.
35	DOLA PRASANTHI KUMARI	19MT1A0413	IV/ECE	D. Praybooth kunas
36	GARA LEELARANI	19MT1A0414	IV/ECE	Gr. Leela Vari
37	GUNUPURU GOWREESWARI	19MT1A0416	IV/ECE	Gr. GODA CESWORT
38	GUNUPURU SULOCHANA	19MT1A0417	IV/ECE	Ci. Sulochoungs.
39	MAMIDI LAVANYA	19MT1A0423	IV/ECE	M. Lavarya
40	UPPADA LAKSHMI	19MT1A0549	IV/CSE	U- (althus -
41	URJANA SONIA	19MT1A0550	IV/CSE	ri somia.
42	URLAPU SIREESHA	19MT1A0551	IV/CSE	U. STUT CESLOR
43	VADDI SREELEKHA	19MT1A0552	IV/CSE	N. sreelenha
44	AKUNDIRATNASREE	21MT1E0001	II / MBA	A Patrassue
45	ANARASI ALISHA PATRO	21MT1E0004	II / MBA	A-AlishoPort920
46	ANUSHA PANDEY	21MT1E0005	II / MBA	Arustia Dande
47	BANGARU SURYA BHARGAVI	21MT1E0006	II / MBA	By Dandhoon
48	ANTHARAKONDA JYOTHI	21MT1E0008	II / MBA	A Boths
49	BEVARA NAGAMANI	19MT1A0404	IV/ECE	h, wasamanz

CO ORDINATOR

PRINCIPAL
FRINCIPAL
Sri Venkateswara College of Engineering&Technology
ETCHERLA, Srikakulam-532410 (A.P)



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Office: +91 9705576893, email: principal_svect@yahoo.com, website: www.sveet.info

AWARENESS ON USING DISA APP EVENT



V. Suyakala COORDINATOR 4

PRINCIPAL

Sri Venkateswara College of Engineerino & Technology ETCHERIA, Srikakulam-532410 (A.P)

COLLEGE OF ENGINEERING & TECHNOLOGY

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DATE: 10.10.2022

CIRCULAR

All the Women staff members and girl students are here by informed that, the institute is going to celebrate "World Teacher's Day" in memoriam of first lady teacher Savitribai Phule on 15.10.2022. So you are required to enroll your names with the program coordinator V.Suryakala (9542999192) and must assemble at Seminar Hall at 02:00PM.

Copy to Honorable Management for favor of information.

Department	IQAC	CE	EEE	ME	ECE	CSE	AIML	BS&H	MBA	OFFICE	N.B	FILE
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COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to JNTUGV, Vizianagaram)

Office : +91 9705576693, cmail: principal_sveet@yahoo.com, website: www.svect.info

PROGRAM REPORT

DATE: 16.10.2022

Program Name

: World Teachers Day

Date of activity

: 15.10.2022

Venue

: Seminar Hall

Resource person

: Dr.K. Rama Jyothi. Associate Professor, Lendi College

Report:

Sri Venkateswara Engineering &Technology (SVCET) organized World Teachers Day. In this program Dr.K. Rama Jyothi. Associate Professor addressed about our first lady teacher Savitri bai phule and her significance. She elaborated that Teachers play a vital role in shaping future of students. In this program all the woman faculty members girl students participated . The organizer v .surya kala madam thanked the resource person as well as students.

Sri Venkateswara College REENJOLP · ETCHERLA, Srikakulam-532410 (A.P)



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Program Name

: World Teacher's Day

Date

: 15/10/2022

S.No.	Name of Participant	Student Reg. No.	Year & Branch	Signature
1	AMPILLI SANGEETA	18MT1A0102	III/CE	D. Sengewer
2	ARIKA PRESIKELLA	18MT1A0103	III/CE	A. Presirella
3	BELAMARA SAI SIREESHA	18MT1A0106	III/CE	R. Sai Listanda
4	BIDDIKA LAXMIPRASANNA	18MT1A0107	III/CE	B. Jacour Evagen
5	CHINTADA SRAVANI	18MT1A0110	III/CE	c socalani
6	DHANA LAKSHMI JAVAPU	18MT1A0113	III/CE	J. Dhanalakshm;
7	GURUGUBELLI BHARGAVI	18MT1A0116	III/CE	G. Bhargami
8	JAMPA MEENA	18MT1A0117	III/CE	J. Meena
9	KUMBIRIKI SANTHOSHI	18MT1A0119	III/CE	K. Sandhoski
10	KUNDANGI RAJINI	18MT1A0120	III/CE	k · Raili
11	KUPPILI RAJASULOCHANA	18MT1A0121	III/CE	K. Raja Solochana
12	KURMANA KAVYA	18MT1A0122	III/CE	K. Kavya
13	LINGALA SANDHYA	18MT1A0123	III/CE	· sandhya.
14	MALATHI YARAGADA	18MT1A0124	III/CE	M. Yasia Gada
15	NIMMAKA PRAMEELA	18MT1A0125	III/CE	N. Prameolo
16	SAMPADA RAO VAMSI VANDANA PRIYA	18MT1A0128	III/CE	S.V. V. Vandaganiya
17	SAVARA MEENA	18MT1A0132	III/CE	S. Meena
18	SAVARA PARSHAMI	18MT1A0133	III/CE	S. Parshami
19	SAVARA SUBHADRI	18MT1A0134	III/CE	S. Subhadis
20	THUNDAKA KEERTHI	18MT1A0137	III/CE	T. KCCKHR
21	VOOYAKA SUMONI	18MT1A0140	III/CE	V. Sumoni
22	YARADI NIRMALA	18MT1A0141	III/CE	Y. NERMALA
23	BARATAM ANUSHA	18MT1A0201	III/EEE	B. Anusha
24	GOVVADA PAVANI	18MT1A0202	III/EEE	G. Pavant.
25	MAMIDI THRILOVANI	18MT1A0205	III/EEE	M Thailadhi
26	BHAIRI NEERAJA	19MT1A0202	IV/EEE	B. Negraja
27	GODDU DIVYA	19MT1A0204	IV/EEE	G. Divy
28	LINGALA DEVI	19MT1A0206	IV/EEE	& Land
29	MUDDADA INDIRA	19MT1A0207	IV/EEE	M. Indira
30	BANALA DHANALAKSHMI	19MT1A0402	IV/ECE	13. phascelanni



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S.No.	Name of Participant	Student Reg. No.	Year &	Signature
			Branch	
31	BEVARA NAGAMANI	19MT1A0404	IV/ECE	B. Nagomani
32	BONELA PRAMEELA RANI	19MT1A0405	IV/ECE	B. pramalada
33	DANETI SWATHI	19MT1A0410	IV/ECE	D. Swathi
34	DEVARASETTI TANUJA	19MT1A0411	IV/ECE	D. Tanuja
35	DOLA PRASANTHI KUMARI	19MT1A0413	IV/ECE	D. DOOSONIS kungo
36	GARA LEELARANI	19MT1A0414	IV/ECE	G. LeelaRanis
37	GUNUPURU GOWREESWARI	19MT1A0416	IV/ECE	6 GOURELLIAM
38	GUNUPURU SULOCHANA	19MT1A0417	IV/ECE	G. Sulvelma
39	MAMIDI LAVANYA	19MT1A0423	IV/ECE	M. Lavanya
40	UPPADA LAKSHMI	19MT1A0549	IV/CSE	O. Canni
41	URJANA SONIA	19MT1A0550	IV/CSE	U-Sonia
42	URLAPU SIREESHA	19MT1A0551	IV/CSE	17. Sigrees ha
43	VADDI SREELEKHA	19MT1A0552	IV/CSE	V. SReetekha
44	AKUNDIRATNASREE	21MT1E0001	II / MBA	AKUN DIRAYNA SR
45	ANARASI ALISHA PATRO	21MT1E0004	II / MBA	Alikha Patto
46	ANUSHA PANDEY	21MT1E0005	II / MBA	A. Pan DCy.
47	BANGARU SURYA BHARGAVI	21MT1E0006	II / MBA	B. Rlasuggerin'
48	ANTHARAKONDA JYOTHI	21MT1E0008	II / MBA	A. JYOTHI
49	BEVARA NAGAMANI	19MT1A0404	IV/ECE	B. Nagamoini

CO ORDINATOR

PRINCIPAL PRINCIPAL

Sri Venkateswara College of Engineering&Technology ETCHERLA, Srikakulam-532410 (A.P)



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WORLD TEACHERS DAY EVENT



~ Suya Kala COORDINATOR

PRINCIPAL

- PRINCIPAL Sri Venkateswara College of Engineering&Technology ETCHERLA, Srikakulam-532410 (A.P)



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DATE: 03.10.2022

CIRCULAR

All the Women staff members and girl students are here by informed that the institute will organize a program on "International Girl Child day", on 11.10.2022. So you are required to enroll your names with the program coordinator V.Suryakala (9542999192) and must assemble at Auditorium at 02:00PM.

ETCHERLA, Srikakulam-532410 (A.P)

Copy to Honorable Management for favor of information.

Department	IQAC	CE	EEE	ME	ECE	CSE	AIML	BS&H	MBA	OFFICE	N.B	FILE
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PROGRAM REPORT

DATE: 12.10.2022

Program Name

: International girl child day

Date of activity

: 11.10.2022

Venue

: Auditorium

Resource person

: M.Krishna Veni, Principal of Govt Junior

college(Girls),Srikakulam

Report:

Sri Venkateswara Engineering &Technology (SVCET) organized International girl child day. In this program Chief guest Dr. M.Krishna Veni addressed the gathering and explained the importance of girl child and also mentioned about in equalities faced by girls in the country and told about the importance of female education, health and nutrition and she also explained how government was helping girl child. At the end of program, our college principal Dr.S. C. V. Ramana murty Naidu thanked the resource person and gathering.

N. Suya Kala CO ORDINATOR Si Venkateswara College RENCIPAL (A.P)



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Office: +91 9705576693, email: principal_svcet@yahoo.com, website: www.svcet.info

Program Name

: International Girl Child day

Date

: 11/10/2022

S.No.	Name of Participant	Student Reg. No.	Year & Branch	Signature
1	KARANAM SIREESHA	19MT1A0521	IV/CSE	K. Sieeesha
2	KOKKIRI ANUSHA	19MT1A0522	IV/CSE	k. Anusha
3	KOLLI SRUTHI	19MT1A0523	IV/CSE	K. Soluthi
4	KONNI LIKHITHA	19MT1A0525	IV/CSE	K. LIKHITHA
5	KOTTURU ASWINI	19MT1A0526	IV/CSE	K. Aswini
6	KOVADA SPANDANA	19MT1A0527	IV/CSE	K. Spandama
7	KURMAPU PRAMEELA	19MT1A0528	IV/CSE	11. Pro meela
8	LANDA SRAVANI	19MT1A0529	IV/CSE	L. SRavani
9	MEESALA SAI SWETHA	19MT1A0530	IV/CSE	M. Sai SNOtha
10	MENDA CHANDINI	19MT1A0531	IV/CSE	Me Chambine
11	NALLA JHANSI	19MT1A0534	IV/CSE	Nalla Thongs
12	PALAVALASA SWAPNA RANI	19MT1A0536	IV/CSE	p. swapna vani
13	POTHALA NAVYA SRI	19MT1A0540	IV/CSE	P. Navya sri
14	POTNURU DEEPIKA	19MT1A0541	IV/CSE	P. Deepika
15	SADASIVUNI SURYA MOUNIKA	19MT1A0543	IV/CSE	55 wya Morinika
16	AGADALA ANNAPURNA	18MT1A0501	III/CSE	A. Annapuma
17	ALTHI NAVYA	18MT1A0502		A · Navya
18	ANDHAVARAPU VIDYA LIKITHA	18MT1A0504		A. ve Dya likitha
19	BALIVADA PRIYANKA	18MT1A0505		B. 8e. Shma
20	BAMMIDI RESHMA	18MT1A0506		B. 8eshma
21	BARATAM KAVYA SREE	18MT1A0507		15. Kaugu Svee
22	BAVANA RUCHITA	18MT1A0509		B. Ruchila
23	CHODAVARAPU SUMATHI	18MT1A0512		c.Swallub
24	DARRU PRIYANKA	18MT1A0513		D. Priyanka
25	DORA YAMINI	18MT1A0515		D. Yamini
26	GANDEM BHARGAVI	18MT1A0516		Cr. Blazzavi
27	GARA RAMYA	18MT1A0518		(5 Kamua
28	GINNI SIREESHA	18MT1A0519		in-sireeshe
29	GORLE ANNAPURNA	18MT1A0520		G. Ampro
30	GORLE PREETHI	18MT1A0521	III/CSE	Cy. Paperthis



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S.No.	Name of Participant	Student Reg. No.	Year & Branch	Signature
31	YALAGADA RENUKA	18MT1A0439	III/ECE	Y. Renuka
32	YANDA MOUNIKA	18MT1A0441	III/ECE	y. Mounika
33	YEJJALA GAYATHRI	18MT1A0442	III/ECE	X Crayafformer
34	SEERA HARITHA SREE	18MT1A0444	III/ECE	SH. Sice
35	PINIMINTI VENKATALAKSHMI	18MT1A0209	III/EEE	P. Vendatal anni
36	SANAPALA PAVANI	18MT1A0211	III/EEE	S. Rewary
37	SEERA HARITHASREE	18MT1A0212	III/EEE	5. Harithasree
38	TAMMINAINA VANITHASRI	18MT1A0214	III/EEE	T. Vanithaeri
39	VARADI GIREESH	18MT1A0215	III/EEE	V. Greesh
40	POTNURU SREEJA	21MT1E0047	II/MBA	r sacesha
41	PUSARALLA DEVI	21MT1E0049	II/MBA	P' Delle
42	SANAPALA HIMASRI	21MT1E0054	II/MBA	S. Amaki
43	SEERA VAGDEVI	21MT1E0057	II/MBA	S. Vagdeur
44	SHIVANI SAHU	21MT1E0058	II/MBA	5. Saly
45	SIMHADRI PUSHPA LATHA	21MT1E0059	II/MBA	S.P. Lather
46	SOMINAYANA PRASUNA	21MT1E0060	II/MBA	S. Drasiona
47	TELIDEVARAPALLI MADHULATHA	21MT1E0064	II/MBA	Prodhelallo
48	UTLA SRAVYA	21MT1E0065	II/MBA	v Sru
49	G HARITA	21MT1E0082	II/MBA	9. Harrtha
50	TALABHAKTULA CHANDINI	21MT1E0085	II/MBA	T. Chardin

V-Suxyakala co ordinator

PRINCIPAL

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Sri Venkateswara College of Engineering & Technology

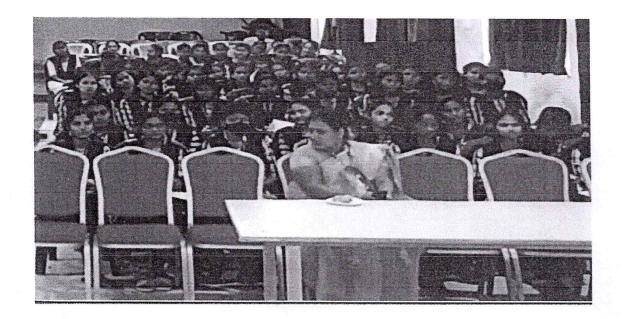
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INTERNATIONAL GIRL CHILD DAY EVENT





V. Suyaka co ordinator

PRINCIPAL

PRINCIPAL Sri Venkateswara College of Engineering & Technology ETCHERLA, Srikakulam-532410 (A.P)



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DATE: 21.06.2022

CIRCULAR

All the Women staff members and girl students are here by informed that, ECE Department will organize a event of 'Cultural Competitions for women' on 27.06.2022 .So you are required to enroll your names with the program coordinator V.Suryakala (9542999192) and must assemble at Seminar Hall at 02:00PM.

Copy to Honorable Management for favor of information.

Department	IQAC	CE	EEE	ME	ECE	CSE	AIML	BS&H	MBA	OFFICE	N.B	FILE
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PROGRAM REPORT

DATE: 28.06.2022

Program Name

: Cultural Competitions for women

Date of activity

: 27.06.2022

Venue

: Seminar Hall

Organiser

: V.Surya kala Ece Department

Report:

Sri Venkateswara Engineering &Technology (SVCET) Students and Staff participated with lot of enthusiasm in the event of "Cultural Competitions for women". Principal Dr.S.C.V. Ramana Murthy Naidu acted as chief guest at the validatry function. He addressed the gathering and explained the prominence of conducting such cultural events. He further added the sense of integration among women would be possible with the help of conducting cultural events in any organization. The senior faculty member V. Surya kala madam thanked the participation.

V. Surya-Kala

Srivenhateswara (***



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List of Participants

Program Name

: Cultural Competitions for women

Date

: 27/06/2022

S.No.	Name of Participant	Student Reg. No.	Year & Branch	Signature
1	PAILA SRAVANI	19MT1A0114	IV/CE	P. Bravani
2	PATTIKA KASTURI	19MT1A0117	IV/CE	P. Kas-lave?
3	RELLA SANTHOSH KUMAR	19MT1A0118	IV/CE	R. Fantstah Kurnanc
4	RUGADANA SANGEETHA	19MT1A0119	IV/CE	The Sen Cocather
5	MANISHA KUMARI	19MT1A0131	IV/CE	M. kumaxi
6	BHAIRI NEERAJA	19MT1A0202	IV/EEE	B. Neornia
7	GODDU DIVYA	19MT1A0204	IV/EEE	6 Divya
8	LINGALA DEVI	19MT1A0206	IV/EEE	L. Devi
9	MUDDADA INDIRA	19MT1A0207	IV/EEE	M. India
10	BANALA DHANALAKSHMI	19MT1A0402	IV/ECE	R. Dhanalateshmi
11	BEVARA NAGAMANI	19MT1A0404	IV/ECE	B. nagamani
12	BONELA PRAMEELA RANI	19MT1A0405	IV/ECE	B. Prameela vani
13	DANETI SWATHI	19MT1A0410	IV/ECE	D. Smathi
14	DEVARASETTI TANUJA	19MT1A0411	IV/ECE	D. Tanuis
15	DOLA PRASANTHI KUMARI	19MT1A0413	IV/ECE	p. prougal kumos
16	GARA LEELARANI	19MT1A0414	IV/ECE	Or Leelarani
17	GUNUPURU GOWREESWARI	19MT1A0416	IV/ECE	G. GOWYER Swar;
18	GUNUPURU SULOCHANA	19MT1A0417	IV/ECE	6. Sulochana
19	MAMIDI LAVANYA	19MT1A0423	IV/ECE	in lavonyou.
20	MANDALA YAMUNA	19MT1A0424	IV/ECE	M. Yamana
21	PATNANA SANDHYARANI	19MT1A0427	IV/ECE	D. Sandhua Rani
22	POLIPALLI YASHASWANI	19MT1A0428	IV/ECE	P. VASHASWAN
23	POTNURU PRIYANKA	19MT1A0430	IV/ECE	p. pariyanka.
24	REKHALA SWATHI	19MT1A0431	IV/ECE	1 R. / Swathi
25	SANGIREDDI SAILAKSHMI	19MT1A0432	IV/ECE	S. Sai bakshin
26	SATHIVADA SAI BHAVANIKA	19MT1A0433	IV/ECE	3. Sai bhowarie
27	ULLAKULA JHANSI	19MT1A0436	IV/ECE	U. Thansi
28	ABOTHULA SAI THUNAJA	19MT1A0501	IV/CSE	A · Sai thunada
29	ADAPAKA PURNIMA	19MT1A0502	IV/CSE	A purhimon.
30	CHINTADA SHARMILA	19MT1A0505	IV/CSE	CH-Sharmile



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S.No.	Name of Participant	Student Reg.	Year &	Signature
	-	No.	Branch	
31	DHAVALA KAVYA .	19MT1A0508	IV/CSE	D. Kavya
32	DHAVALA SAI SIREESHA	19MT1A0509	IV/CSE	D-Si Osir Eesha
33	GAINEDI MONIKA PRIYA	19MT1A0511	IV/CSE	G. Monika priva
34	GANDETI ASWINI	19MT1A0512	IV/CSE	G. Aswini
35	GIRADA SRAVANI	19MT1A0514	IV/CSE	G. SROVani
36	KADA PUJA	19MT1A0516	IV/CSE	K. Puja
37	KALAGA MOUNIKA	19MT1A0517	IV/CSE	k. mounita
38	KALAMATA GOWRI	19MT1A0518	IV/CSE	12: (now. s.f.
39	KANCHARANA YAMINI	19MT1A0519	IV/CSE	Ko Yamini
40	KANITHI BHARGAVI	19MT1A0520	IV/CSE	K- 13 hangavi
41	KARANAM SIREESHA	19MT1A0521	IV/CSE	K . Sérecs la
42	KOKKIRI ANUSHA	19MT1A0522	IV/CSE	K. Anusha
43	KOLLI SRUTHI	19MT1A0523	IV/CSE	K' south
44	KONNI LIKHITHA	19MT1A0525	IV/CSE	K. Likhitha.
45	KOTTURU ASWINI	19MT1A0526	IV/CSE	Kallani
46	KOVADA SPANDANA	19MT1A0527	IV/CSE	K. Spandana 1
47	POTHALA NAVYA SRI	19MT1A0540	IV/CSE	1. Naryasor
48	POTNURU DEEPIKA	19MT1A0541	IV/CSE	P. WEER'KO
49	SADASIVUNI SURYA MOUNIKA	19MT1A0543	IV/CSE	20 Swammarillo
50	SANJANA MADABATTULA	19MT1A0544	IV/CSE	SANTANI ABA:
51	SANKILI SUVARNA	19MT1A0545	IV/CSE	3.30VQ3MA
52	SUNKARI KAVYA	19MT1A0546	IV/CSE	5. Kanya
53	SURAVARAPU SIVANI	19MT1A0547	IV/CSE	S. Sivari

J. Suryakala CO ORDINATOR

PRINCIPAL

- PRINCIPAL

Sri Venkateswara College of Engineering&Technology ETCHERLA, Srikakulam-532410 (A.P)



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CULTURAL COMPETITIONS FOR WOMEN





V. Suyakala COORDINATOR

PRINCIPAL

Sri Venkateswara College of Engineering R Technology ETCHERLA, Srikakulam-532410 (A.P)



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List of Extension Activities

A.Y.:2022-2023

S.NO.	Name of the Programme	Date	No. of Participants	Name of the Collaborative Agency
1	World Environment Day- Sapling Plantation	05.06.2022	88	Lingalavalasa Village - Etcherla Panchayat
2	Stop Usage Of Plastic - Say No To Plastic	11.07.2022	63	Chilakapalem Village -Etcherla Panchayat
3	Swatch Bharat - Cleaning Program	21.10.2022	114	Etcherla Panchayat
4	National Unity Day – Rally	31.10.2022	63	Chilakapalem Village -Etcherla Panchayat
5	Blood Donation- Ys Jagan Mohan Reddy Birthday	21.12.2022	103	SVCET - Etcherla Panchayat
6	National Voters Day- Voting Awareness	25.01.2023	88	Etcherla Panchayat
7	Road Safety – Awareness Rally	07.02.2023	. 78	Srikakulam Municipality
8	Medical Campaign	28.04.2023	88	SSR Puram - Etcherla Panchayat

Program Officer

IOAC

Principal PAL

Sri Venkateswara College of Engineering&Technology ETCHERLA, Srikakulam-532410 (A.P.)



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Date: 01.06.2022

CIRCULAR

This is to inform all the students and staff that on account of "WORLD ENVIRONMENT DAY" our college NSS Unit is going to conduct a "SAPLING PLANTATION - PROGRAM" in Lingulavalasa village on 05.06.2022. Hence interested students can register their names at NSS PO, Mr. Nagaraju on or before 04.06.2022.

NSSPO

Sri Venkateswara Corlege of Engineering R Technology ETCHERLA, Srikakulam-532410 (A.P)

· W.K.

Copy Submitted To: Honorable Management for Favor of Information:

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(Approved by AICTE, New Delbi, Affiliated to JNTUGV, Vizianagaram) Office: +91 9705576693, cmall: principal_svert@vahoo.com, website: www.svert.info

DATE: 07.06.2022

. Wh.

	Program Report						
Name of the Event	WORLD ENVIRONMENT DAY- SAPLING PLANTATION						
Event start date	05.06.2022						
Event end date	05.06.2022						
Place of the activity	LINGALAVALASA Village						
No of Participants	88						
Collaboration	. ETCHERLA PANCHAYAT						
Description	We @SVCET-NSS UNIT our sapling plantation program here in Lingalavalasa village. Today, we gather to take meaningful action towards a greener and more sustainable future by planting saplings that will grow into trees and contribute to the well-being of our environment. Planting trees is one of the most effective ways to combat climate change, improve air quality, and enhance biodiversity. Trees provide oxygen, reduce carbon dioxide levels, prevent soil erosion, and offer habitats for countless species of wildlife. Our goal today is to plant as many saplings as possible and to ensure they are cared for as they grow. This initiative not only beautifies our surroundings but also instills a sense of responsibility and environmental stewardship within our community.						

PRINCIPAL
SniVenkateswara Controls of Engineering & Technology ETCHERLA, STIRBHUIBM-532410 (A.P.)



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PRINCIPAL

SriVenkateswara Coilege of Engineering&Technology

ETCHERLA, Srikakulam-532410 (A.P)



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Name of the Event: WORLD ENIVIRONMENT DAY

Date: 05.06.2022

List of Participants

S. No	Name of the Student	Year &Sem	Signature
1.	BANKURU DIVYADEEPIKA	I/CIVIL	B. Divun doepka
2.	BONAM PRIYANKA	I/CIVIL	3. Pohryant
3.	CHINNALA NARAYANA RAO	I/CIVIL	C. Newayaran
4.	CHINNALAHARI KRISHNA	I/CIVIL	c. pullance
5.	GANTASALA SATEESH	I/CIVIL	G. Safeeva
6.	GURUGUBELLI PRAVEEN	I/CIVIL	(r. Proveco
7.	KARIGGI GANESH	I/CIVIL	C. Gravela
8.	KONDAGORRI KUMARA SWAMY	I/CIVIL	L. Kurura Lucing
9.	KOYYAN AABHISHEK	I/CIVIL	K. aahlideh
10.	MAJJI RAMBABU	I/CIVIL	H. Rambabu
11.	MALUGU NARENDRA	I/CIVIL	M. Mrendra
12.	MOJJADA MAHESH	I/CIVIL	M. Maheels
13.	MUDDAPU MOHANARAO	I/CIVIL	M. Mobana Rac.
14.	PAILA SRAVANI -	I/CIVIL	P. Stavan
15.	PAPARAO CHALLA	I/CIVIL	D. CHORLOGI
16.	PASUPUREDDY ESWARA RAO	I/CIVIL	P. Eswar Rag
17.	PATTIKA KASTURI	I/CIVIL	P. Kastuni
18.	RELLA SANTHOSH KUMAR	I/CIVIL	"R' Southosh kumor
19.	B KISHORE KUMAR	I/EEE	B. Kishde kumas
20.	BHAIRI NEERAJA	I/EEE	13. Neeva /a.
21.	CHODAVARAPU BHARGAVA KUMAR	I/EEE	C. Bhargard James
22.	GODDU DIVYA	I/EEE	(H. Willies
23.	KINJARAPU SAI KUMAR	I/EEE	K. S. Kennal.
24.	LINGALA DEVI	I/EEE	L. Devi
25.	MUDDADA INDIRA	I/EEE	M. Pudiga.
26.	MURAMARLA VENKATALAXMI	I/EEE	M- venkatalaxmi
27.	POLIREDDI SRINIVASA RAO	I/EEE	O. S. Tinivala Dao
28.	SEERAMSETTY GOWTHAM	I/EEE	S. Glorin-Ham
29.	SURAJBHAN SINGH RATHOR	I/EEE	S. Sincel
30.	ABHISHEK KUMAR MAHTO	I/EEE	R. Kuman
31.	RAUSHAN KUMAR	I/EEE	R. Kuman
32.	ALLUPILLI SIMHACHALAM	I/MECH	* Mhakhal
33.	ALUBILLI UPENDRA	I/MECH	A. UPRNOW
34.	BALAGA SASI BHUSHANA RAO	I/MECH	E Call
35.	BONDAPALLI SRINU	I/MECH	P. SMINU
36.	BONELA JEEVAN KUMAR	I/MECH	15. Tophen
37.	BUGATA AVINASH	I/MECH	B. Avinouh
38.	CHUKKA MOHANKRISHNA	I/MECH	& Hohan Koush na
39.	DAKKATA TIRUPATHI	I/MECH	Tisurati
40.	GULLA KARTHIK	I/MECH	Go Karthera
		I/MECH	G. Karthila
	I CILINA DHANIUNIA VA		
41.	GUNA DHANUNJAYA GUNUPURU UPENDRA	I/MECH	Gi- Upendra



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44.	BANALA DHANALAKSHMI	I/ECE	B. Dhanala
45.	BAVIRI RAJESWARI	I/ECE	B. Rajeshwevi
46.	BEVARA NAGAMANI	I/ECE	B. Obgachina
47.	BONELA PRAMEELA RANI	I/ECE	8. Premeela ram
48.	BONGU MANIKANTA REDDY	I/ECE	B. Manekanta
49.	BURADA SAI SEETHA RAM MOHAN	I/ECE	B. SaiSecthaRam mohaw
50.	CHENCHALA DINESH	I/ECE	C. Dined
51.	CHINTADA SATYA PRASAD	I/ECE	C. Sayar.
52.	DANETI SWATHI	I/ECE	D. Swath
53.	KOLLI SRUTHI -	I/CSE	K. Southi
54.	KONDA SAI SAMPATH KUMAR	I/CSE	Sampath Kumar
55.	KONNI LIKHITHA	I/CSE	k.lika
56.	KOTTURU ASWINI	I/CSE	K. ARRIGHY
57.	KOVADA SPANDANA	I/CSE	Ko'Aswini
58.	KURMAPU PRAMEELA	I/CSE	K. Roameda
59.	LANDA SRAVANI	I/CSE	L- Syonani
60.	MEESALA SAI SWETHA	I/CSE	8 wetto
61.	MENDA CHANDINI	I/CSE	M. Clandini
62.	MUKKALA UDAY SHANKAR	I/CSE	M. Uday shows
63.	MYLAPALLI ABHISHAIK VICTOR	I/CSE	Abhisticul victor
64.	NALLA JHANSI	I/CSE	N. Thansi'i
65.	NUKA SANTOSH KUMAR	I/CSE	N. Sund
66.	PALAVALASA SWAPNA RANI	I/CSE	Prago DM apresi
67.	PALLI VINAY	I/CSE	P. Vindur
68.	PANTALA ANITHA	I/CSE	P. And
69.	PENUGUDURU VASUDEVA RAO	I/CSE	BAR
70.	POTHALA NAVYA SRI	I/CSE	P. Manya.
71.	AMPILLI SANGEETA	II/CIVIL	A · SANGREPHA
72.	ARIKA PRESIKELLA	II/CIVIL	A. Prexixely
73.	BAGADI RAMAKRISHNA	II/CIVIL	Daman Instrang
74.	BAMMIDI LAXMANA	II/CIVIL	B. Laxmana
75.	BELAMARA SAI SIREESHA	II/CIVIL	R. Sziecsha
76.	BIDDIKA LAXMIPRASANNA	II/CIVIL	R. Laxingras
77.	BURALLA MADHU KUMAR	II/CIVIL	B. Mach produkte
78.	CHINNALA JAGADESWARA RAO	II/CIVIL	C. Jagadasmasas
79.	CHINTADA SRAVANI	II/CIVIL	Chr Srasto
80.	CHINTU HARISH	II/CIVIL	C. Harish
81.	DEVAKIVADA DHARMA TEJA	II/CIVIL	D. Dhametel
82.	DHANA LAKSHMI JAVAPU	II/CIVIL	Dhanglas of
83.	DUBBA AASISH KUMAR	II/CIVIL	DATE
84.	MAMIDI THRILOVANI	II/EEE	M. Thur
85.	MUGADA DURGAPRASAD	II/EEE	W. Dean Olave
86.	MUNAGAVALASA UMESHBABU	II/EEE	M. Una of Kake
			1 VIVIE SVI POUR
87.	PENUGUDURU NAVEEN	II/EEE	P. Naviery

PRINCIPAL Sri Venkateswara College of Engineering&TechnologY ETCHERLA, Srikakulam-532410 (A.P)



COLLEGE OF ENGINEERING & TECHNOLOGY

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Date: 05.07.2022

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CIRCULAR

This is to inform all the students and staff that on account of "STOP USAGE OF PLASTIC" our college NSS Unit is going to conduct Rally on "SAY NO TO PLASTIC" SVCET to Chilakapalem village on 11.07.2022. Hence interested students can register their names at NSS PO, Mr. Nagaraju on or before 10.07.2022.

Magalify NSS PO

PRINCIPALA

Sri Venkateswara College of Engineering&Technology ETCHERLA, Srikakulam-S32410 (A.P.)

Copy Submitted To: Honorable Management for Favor of Information:

Department	IQAC	CE	EEE	ME	ECE	CSE	AIML	BS&H	MBA	OFFICE	NOTICE	FILE
							/				BOARD	
Signature	The		ADD	Him	Do	D	R	Jul	14	AD.	ansio	6



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DATE: 12.07.2022

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· wh.

	Program Report						
Name of the Event	STOP USAGE OF PLASTIC- SAY NO TO PLASTIC						
Event start date	11.07.2022						
Event end date	11.07.2022						
Place of the activity	CHILAKAPALEM Village						
No of Participants	63						
Collaboration	SVCET – NSS UNIT						
Description	We @SVCET-NSS UNIT "Say No to Plastic" rally, marching from the SVCET campus to Chilakapalem village. This rally aimed to raise awareness about the detrimental effects of plastic pollution and to encourage the adoption of eco-friendly alternatives. Participants carried banners and chanted slogans emphasizing the importance of reducing plastic use to protect the environment. The rally received enthusiastic support from local residents, highlighting the community's commitment to creating a cleaner, greener future. This event underscores our collective responsibility towards sustainable living and environmental conservation.						

PRINCIPAL Sci Venkateswara Cailings of Engineering R Technology ETCHERLA, Skraakulam-532410 (A.P.)



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Office: +91 9705576693, email: principal_sveet@yahoo.com, website: www.sveet.info

Name of the Event: STOP USAGE OF PLASTIC

Date: 11.07.2022

List of Participants

S. No	Name of the Student	Year &Sem	Signature
1.	NATTI NARESH	I/MECH	No Nagesh.
2.	NELLIPARTI HEMANTH	I/MECH	N. HEMath
3.	PENUMAJJI KISHOR /	I/MECH	P. Klshor
4.	RAMPATRUNI HARIKRISHNA /	I/MECH	R. Harr
5.	RATNALA RUSHI	I/MECH	R. Russi
6.	SAMPATIRAO HARSHA VARDHAN	I/MECH	S. Harshayarts ham
7.	SAVARA MANOJ KUMAR	I/MECH	S. mangi kumadi
8.	SELAGALA VENKATARAMANA	I/MECH	5. Ventatacon eva
9.	TIMMANA ESWARA RAO	I/MECH	T. ES was SOA
10.	BONAM PRIYANKA	I/CIVIL	B. Pri yanka
11.	CHINNALA NARAYANA RAO	I/CIVIL	Ch. Now and Roo
12.	CHINNALAHARI KRISHNA	I/CIVIL	6. Artelina
13.	GANTASALA SATEESH	I/CIVIL	Con. Safeersh
14.	GURUGUBELLI PRAVEEN	I/CIVIL	GiPraveen
15.	KARIGGI GANESH	I/CIVIL	K-Gonesh
16.	KONDAGORRI KUMARA SWAMY	I/CIVIL	K. Kumora Swamy
17.	KOYYAN AABHISHEK	I/CIVIL	d. Dabhisher
18.	MAJJI RAMBABU	I/CIVIL	M. Ranbahn
19.	MALUGU NARENDRA	I/CIVIL	M. Rambable
20.	BHAIRI NEERAJA	I/MECH	B. MODSINGA.
21.	CHODAVARAPU BHARGAVA	I/MECH	Ch. Bhargava
	KUMAR		Femal
22.	GODDU DIVYA	I/MECH	Gn Divya
23.	KINJARAPU SAI KUMAR	I/MECH	Ki Sa heman
24.	LINGALA DEVI	I/MECH	1. Domi
25.	MUDDADA INDIRA	I/MECH	M. Indivia
26.	MURAMARLA VENKATALAXMI	I/MECH	M. venkatalakmi
27.	POLIREDDI SRINIVASA RAO	I/MECH	P. Sittini Vasnono
28.	SEERAMSETTY GOWTHAM	I/MECH	S. Gowtham
29.	GARA LEELARANI	I/ECE	G. Leelanani
30.	GUNA JAYARAM	I/ECE	G. Tayaram
31.	GUNUPURU GOWREESWARI	I/ECE	· G Cowherleed
32.	GUNUPURU SULOCHANA	I/ECE	Gr. Sulvehana
33.	GURUGUBELLI BALA KRISHNA RAO	I/ECE	G. Polat Sisteret
34.	ILLIPOTHI SAI MOHAN	I/ECE	T. Sai Molan
35.	JEEVAN SHREE PANIGRAHI	I/ECE	P. Lecipna Space
36.	KONCHADA YOGESWARI	I/ECE	K. Yagescuasti
37.	LENKA NAVEEN KUMAR	I/ECE	1, Naucenkunea.
38.	MAMIDI LAVANYA	I/ECE	M. lavanya
39.	MANDALA YAMUNA	I/ECE	H. yamena



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40.	GARA LEELARANI	I/ECE	Gleh
41.	GUNA JAYARAM	I/ECE	Gi - Tayer Hours
42.	GUNUPURU GOWREESWARI	I/ECE	G. Gowan
43.	ADAPAKA PURNIMA	I/CSE	PORNIMA
44.	BADE CHINNI	I/CSE	B. CHINNI
45.	CHINNALA SAIKUMARI	I/CSE	C. Saikumasi
46.	CHINTADA SHARMILA	I/CSE	C. Sharmid
47.	CHINTALA MOUNIKA	I/CSE	ch, mounting
48.	CHODIPILLI ROHIT	I/CSE	Rentwin
49.	DHAVALA KAVYA	I/CSE	D.KAVYA
50.	DHAVALA SAI SIREESHA	I/CSE	D. Saisirecy
51.	DUPPATLA NIKHIL	I/CSE	D. NIKHIL
52.	GAINEDI MONIKA PRIYA	I/CSE	Dr. Monika poriya
53.	GANDETI ASWINI	I/CSE	G. Swins
54.	GEDELA RAJA SEKHAR	I/CSE	B. RAJA SFIXHAR
55.	GIRADA SRAVANI	I/CSE	Sourani
56.	GORUSU PAVAN	I/CSE	G. Paras
57.	KADA PUJA	I/CSE	di Pusa.
58.	KALAGA MOUNIKA	I/CSE	k. runa
59.	DUKKA DEVI	II/ECE	D. Devi
60.	EASAI BHAGYA LAXMI	II/ECE	Lacuri '
61.	GEDALA MARY MANI	II/ECE	or MARY MOIN
62.	GUNA TEJESWARI	II/ECE	G. Telling
63.	GUNTREDDI SUSMITHA	II/ECE	Cy. Busmilha

in Venkateswara College of Engineering Technology FTCHEKLA, STINGHUIAM-532410 (A.P)



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Date:17-12-2022

CIRCULAR

This is to inform all the students and staff that on account of "Y S JAGAN MOHAN REDDY BIRTHDAY – AP CHIEF MINSTER" on 21-12-2022. our college NSS Unit is going to conduct "BLOOD DONATION CAMPAIGN". Hence interested students can register their names at NSSPO Mr. Nagaraju on or before 20-12-2022.

Nagaliyy NSOPO

Principal
FAL

Sri Venkateswara College of Engineering & Technology
ETCHERLA, Srikakulam-532410 (4.p)

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Copy to: Honorable Management for favor of information

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Date:22-12-2022

Program Report

Name of the Event	Y S JAGAN MOHAN REDDY BIRTHDAY – BLOOD DONATION			
Event start date	21-12-2022			
Event end date	21-12-2022			
Place of the activity	ETCHERLA			
No of Participants	103			
Collaboration	· SVCET – NSS UNIT			
On the occasion of Jagan Mohan Reddy's birthday, our blocampaign aims to honor his commitment to public community welfare. Organized by the Program Officer, to seeks to mobilize volunteers and donors to contribute to a addressing the critical need for blood in hospitals. To campaign, we aspire to save lives and foster a spirit of some generosity within the community. Join us in this meaning and make a difference on this special day.				

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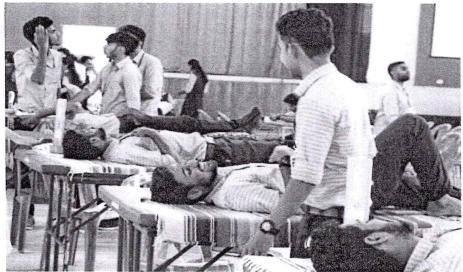
Sri Venkateswara College of Engineering& Technology ETCHERLA, Srikakulam-532410 (A.P)



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Office: +91 9705576693, email: principal_sveet@yahoo.com, website; www.sveet.info

Name of the Event: YS JAGAN MOHAN REDDY BIRTHDAY - BLOOD DONATION

Date: 21.12.2022

List of Participants

S. No	Name of the Student	Year &Sem	Signature
1.	MOJJADA MAHESH	I/CIVIL	m. Hahesh
2.	MUDDAPU MOHANARAO	I/CIVIL	M. Mahomataco.
3.	PAILA SRAVANI	I/CIVIL	P. 6902MB
4.	PAPARAO CHALLA	I/CIVIL	P. Challes
5.	PASUPUREDDY ESWARA RAO	I/CIVIL	D. ESLURA ROO
6.	PATTIKA KASTURI	I/CIVIL	P Kastuli
7.	RELLA SANTHOSH KUMAR	I/CIVIL	R. santhosh.
8.	RUGADANA SANGEETHA	I/CIVIL	R. songpethe
9.	SAVARA GANESH	I/CIVIL	S. Graniesh
10.	SHERMAHAMMADPURAM JAYA PRAKASH	I/CIVIL	S. Juy Weshe
11.	TAMADA HEMANTHKUMAR	I/CIVIL	T. He mouth towns
12.	B KISHORE KUMAR	I/EEE	B. Kishorsek umaux
13.	BHAIRI NEERAJA	I/EEE	B. Neestonge
14.	CHODAVARAPU BHARGAVA KUMAR	I/EEE	C. BUSTELINAKI MIDE
15.	GODDU DIVYA	I/EEE	G. Divya
16.	KINJARAPU SAI KUMAR	I/EEE	K-Sain Walmour
17.	LINGALA DEVI	I/EEE	1 No 111
18.	MUDDADA INDIRA	I/EEE	M. Indira
19.	MURAMARLA VENKATALAXMI	I/EEE	M. Venkerte Com
20.	POLIREDDI SRINIVASA RAO	I/EEE	DEHARD.
21.	ALLUPILLI SIMHACHALAM	I/MECH	-A. Sembalhadown
22.	ALUBILLI UPENDRA	I/MECH	A. Upendra
23.	BALAGA SASI BHUSHANA RAO	I/MECH	B-sasi Bhushana Rao
24.	BONDAPALLI SRINU-	I/MECH	B. Samy
25.	BONELA JEEVAN KUMAR	I/MECH	B. reevan Kumay
26.	BUGATA AVINASH	I/MECH	R. Allinash,
27.	CHUKKA MOHANKRISHNA	I/MECH	Daniel
28.	DAKKATA TIRUPATHI	I/MECH	D. Tirupaths.
29.	GULLA KARTHIK	I/MECH	O1. Karthi K
30.	GUNA DHANUNJAYA	I/MECH	B. dhanunyaya.
31.	GUNUPURU UPENDRA	I/MECH	Gr upendral
32.	MANDALA YAMUNA	I/ECE	M. Vamena
33.	NAIKO NAVEEN	I/ECE	N. Navan
34.	PARIGA BAIRAGI	I/ECE	P. Bariegi
35.	PATNANA SANDHYARANI	I/ECE	P. Biragi
36.	POLIPALLI YASHASWANI	I/ECE	P. Yashaswami
37.	PONNADA YUVARAJU	I/ECE	p.yuvaRajy
38.	POTNURU PRIYANKA	I/ECE	D. Dalinha
39.	REKHALA SWATHI	I/ECE	R. Swathi
40.	SANGIREDDI SAILAKSHMI	I/ECE	5. Sai Vakshmi



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		·	
41.	KURMAPU PRAMEELA	I/CSE	K. Pranecla
42.	LANDA SRAVANI	I/CSE	1.590V
43.	MEESALA SAI SWETHA	I/CSE	
44.	MENDA CHANDINI	I/CSE	M. Chandu
45.	MUKKALA UDAY SHANKAR	I/CSE	M. Shanks,
46.	MYLAPALLI ABHISHAIK VICTOR	I/CSE	M. A. Victor.
47.	NALLA JHANSI	I/CSE	N. Thansi
48.	NUKA SANTOSH KUMAR	I/CSE	il. Sur Kil
49.	PALAVALASA SWAPNA RANI	I/CSE	TT: Duisupavi
50.	PALLI VINAY	I/CSE	D. Vienaun
51.	PANTALA ANITHA	I/CSE	P. Anitha
52.	PENUGUDURU VASUDEVA RAO	I/CSE	P. Vasuota.
53.	POTHALA NAVYA SRI	I/CSE	P. Naura Splic
54.	POTNURU DEEPIKA	I/CSE	D. Conika
55.	RAKOTI HARIPRASAD	I/CSE	2. HoriDankan
56.	SADASIVUNI SURYA MOUNIKA	I/CSE	S. S. Mounike
57.	SANJANA MADABATTULA	I/CSE	S. man bothia
58.	SANKILI SUVARNA	I/CSE	S. SINA INA
59.	ABOTULA HEMASUNDARA PRASAD	II/CIVIL	A-H. Prasad
60.	AMPILLI SANGEETA	II/CIVIL	A Sanguethe
61.	ARIKA PRESIKELLA	II/CIVIL	ASTICA. P
62.	BAGADI RAMAKRISHNA	II/CIVIL	R. Ramakoo
63.	BAMMIDI LAXMANA	II/CIVIL	B. Laxburney 10
64.	BELAMARA SAI SIREESHA	II/CIVIL	B Sal Steel him
65.	BIDDIKA LAXMIPRASANNA	II/CIVIL	B. Larmi Pra sanna
66.	BURALLA MADHU KUMAR	II/CIVIL	B. Madhykun
67.	CHINNALA JAGADESWARA RAO	II/CIVIL	ch. jagaden
68.	CHINTADA SRAVANI	II/CIVIL	Ch. Charles
69.	CHINTU HARISH	II/CIVIL	Hadysh Can.
70.	DEVAKIVADA DHARMA TEJA	II/CIVIL	D. Curmeitela
71.	DHANA LAKSHMI JAVAPU	II/CIVIL	D. lothastic belowful
72.	DUBBA AASISH KUMAR	II/CIVIL	D. Hasishot amo
73.	GONAPA RAHUL CHANDU	II/CIVIL	G. Rahul Chandu
74.	KAMBALA GURU MURTHY	II/EEE	K. Guramb
75.	MAMIDI THRILOVANI	II/EEE	M. Theilovan
76.	MUGADA DURGAPRASAD	II/EEE	·M. Dwga Brasad
77.	MUNAGAVALASA UMESHBABU	II/EEE	M. Ontosh Kabu
78.	PENUGUDURU NAVEEN	II/EEE	P. Naveen
79.	PINIMINTI VENKATALAKSHMI	II/EEE	p. ventataloxmi
80.	SAKETI KISHOR KUMAR	II/EEE	s. kisher kumas
81.	SANAPALA PAVANI	II/EEE	S. pavas "
82.	SEERA HARITHASREE	II/EEE	8. Harithis
83.	SUVVARI TEJESWARA RAO	II/MECH	
84.	TALAGANA APPANNA	II/MECH	- / V
85.	VANKALA SUNIL KUMAR	II/MECH	V. Spini
86.		II/MECH	
	VARANASI NAVEEN KUMAR	II/MECH	V'Naveon Kincol.
87.	VENKATESH BEJJIPURAM	II/MECH	R. Ventutach



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88.	VOONNA JAYADEV	II/MECH	V. Jayadevi
89.	DUKKA DEVI	II/ECE	D. 784
90.	EASAI BHAGYA LAXMI	II/ECE	E Bharrie Lanco
91.	GEDALA MARY MANI	II/ECE ,	Con. Masumani
92.	GUNA TEJESWARI	II/ECE	Gr Riesati
93.	GUNTREDDI SUSMITHA	II/ECE	G. Susmoth.
94.	GURUGUBELLI VENKATA HYMAVATHI	II/ECE	Gi.V. Hymacshi
95.	JANAM VENUGOPAL	II/ECE	T. Verusional
96.	SAVARA ANUSHA	II/CSE	.S. Averston
97.	SIRIPILLI DURGA BHAVANI	II/CSE	S' Duora Bhavari
98.	SIRLA BHAVANIKUMARI	II/CSE	S'B Kumadi
99.	SRAVANI SANDHYA GANTYADA	II/CSE	5.5. Grantyoda
100.	TAMADA SRINU	II/CSE	T. Srinu.
101.	TAMMIREDDY LAVANYA	II/CSE	T. Lavarya
102.	TANGUDU KARTEEK	II/CSE	T. Kasitech
103.	TEEMARA HARIKA	II/CSE	Ti poviker.

Shi Yenkateswara Con-cur of Engineering&Technology
ETCHEKLA, Shikakulam-532410 (A.P)



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Date:20.01.2023

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This is to inform all the students and staff that on account of "NATIONAL VOTERS DAY" our college NSS Unit is going to conduct Rally on "VOTING AWRENESS" in ETCHERLA village on 25.01.2023. Hence interested students can register their names at NSS PO, Mr. Nagaraju on or before 24.01.2023.

PRINCIPAL

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Shivenkateswara College of Engineering & Technology
ETCHERLA, Srikakulam-532410 (A.P.)

Copy Submitted To: Honorable Management for Favor of Information:

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DATE: 27.01.2023

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Program Report					
Name of the Event	"NATIONAL VOTERS DAY" - VOTING AWARENESS				
Event start date	25.01.2023				
Event end date	25.01.2023				
Place of the activity	ETCHERLA Village				
No of Participants	88				
Collaboration	SVCET – NSS UNIT				
Description	We @SVCET-NSS UNIT On National Voters' Day, a voter awareness rally was conducted in Etcherla to emphasize the importance of voting and encourage active participation in the democratic process. The rally saw enthusiastic participation from students, local residents, and officials, all united in their commitment to promoting electoral awareness. Participants carried banners and posters with messages advocating the significance of every vote and the role of informed voting in shaping the future of the nation. This rally aimed to educate the community about their voting rights and responsibilities, fostering a sense of civic duty and empowerment among the citizens of ETCHERLA.				

Sei Venkaltswara College of Engineering & Technology ETERERIA, Srikakuram-532410 (A.P.)



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Office: +91 9705576693, email: principal_svcet@yahoo.com, website: www.svcet.info

Name of the Event: NATIONAL VOTERS DAY

Date: 25.01.2023

List of Participants

S. No	Name of the Student	Year &Sem	Signature
1.	KANITHI BHARGAVI	I/CSE	K. Bhasaavi
2.	KARANAM SIREESHA	I/CSE	K. SIReesha
3.	KOKKIRI ANUSHA	I/CSE	K. Anuma
4.	KOLLI SRUTHI	I/CSE	K. 5914 1/2
5.	KONDA SAI SAMPATH KUMAR	I/CSE	K. Scu samo Ho
6.	KONNI LIKHITHA	I/CSE	K. likhitha
7.	KOTTURU ASWINI	I/CSE	K. Aswini
8.	KOVADA SPANDANA	I/CSE	k. snandang
9.	KURMAPU PRAMEELA	I/CSE	L'. Draweele
10.	ARIKA PRESIKELLA	II/CIVIL	ATURA, P
11.	BAGADI RAMAKRISHNA	II/CIVIL	B. Roma Krishna
12.	BAMMIDI LAXMANA	II/CIVIL	B. anamard
13.	BELAMARA SAI SIREESHA	II/CIVIL	B. Sai sirecsto
14.	BIDDIKA LAXMIPRASANNA	II/CIVIL	B. Larimi Pola garma
15.	BURALLA MADHU KUMAR	II/CIVIL	B. Marth Kinnage
16.	CHINNALA JAGADESWARA RAO	II/CIVIL	CH. Jagade swarp
17.	CHINTADA SRAVANI	II/CIVIL	.C. Stinelosh
18.	CHINTU HARISH	II/CIVIL	C. Harish
19.	DEVAKIVADA DHARMA TEJA	II/CIVIL	D. phanna teja
20.	DHANA LAKSHMI JAVAPU	II/CIVIL	J- dhana Canni
21.	DUBBA AASISH KUMAR	II/CIVIL	D. AAEsth. Kumar
22.	GONAPA RAHUL CHANDU	II/CIVIL	G1 Chande
23.	GURUGUBELLI BHARGAVI	II/CIVIL	67. Maroav
24.	JAMPA MEENA	II/CIVIL	J. Megna
25.	KOSTU VENKATARATNAM	II/CIVIL	K Venkalaratham
26.	KUMBIRIKI SANTHOSHI	II/CIVIL	K. Santhoch
27.	KUNDANGI RAJINI	II/CIVIL	K, Ralinia
28.	KUPPILI RAJASULOCHANA	II/CIVIL	& Karaselodona
29.	KURMANA KAYYA	II/CIVIL	K. Kavya
30.	LINGALA SANDHYA	II/CIVIL	L. Sundhya.
31.	MALATHI YARAGADA	II/CIVIL	M. Vageraada
32.	NIMMAKA PRAMEELA	II/CIVIL	1) Prawoolla
33.	PAIDI RAM KUMAR	II/CIVIL	pi Rom Kumar
34.	JAMI SUNEEL	II/EEE	J. Wunned.
35.	KAMBALA GURU MURTHY	II/EEE	& Greene meville
36.	MAMIDI THRILOVANI	II/EEE	M. Thrilowana
37.	MUGADA DURGAPRASAD	II/EEE	M. Duga Dyalad
38.	MUNAGAVALASA UMESHBABU	II/EEE	M. umeshbabu
39.	PENUGUDURU NAVEEN	II/EEE	P. Naveen
40.	PINIMINTI VENKATALAKSHMI	II/EEE	p. Venloatelald
10.	I HAMAMATI A FLANZA LVEZIVALIANI	II/EEE	So Kichor Runar



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42.	EROTU JEEVANA RAO	II/MECH	P. Tervana Rac
43.	GEDELA KUMARA SWAMY	II/MECH	G. Kumana Swany
44.	GOLIVE SANKARA RAO	II/MECH	Br. Sery
45.	GOLIVI SANTHOSH	II/MECH	G. Santallo
46.	GURUBELLI SANTHOSH KUMAR	II/MECH	& South
47.	GURUGUBELLI VARAHALU NAIDU	II/MECH	1.11.
48.	HORIYA BASUDEVO	II/MECH	11
49.	KADAMBALA MANIKIRAN	II/MECH	H. Kasudero
50.	KAMSU RUPSUNDAR RAO	II/MECH	R. manifelian
51.		II/MECH	K. Ruksun
52.	KAVALLA BHASKARARAO	II/MECH	4. Byther
	KOLA SATISH	II/MECH	1. Sals el
53.	KURAMANA PRASAD	II/MECH	e polat
54.	KURUMENU DEVENDRA PRASAD	II/MECH	K. Tollent Ge
55.	MARRIVALASA KIRAN SAI KUMAR		k. Devendou paulid
56.	MOYYI VAMSI	II/MECH	M. William
57.	MUDDADA THAVITI RAJU		W. I MON TO SON
58.	MUKALA GANESWARA RAO	II/MECH	M. Esso warm
59.	MUKALLA RAJASEKHAR	II/MECH	M. Kajarl Klas
60.	BURLE ANURADHA	II/ECE	B. Anugudha.
61.	CHALAPATI MEGHANA	II/ECE	
62.	DHARMANA SRAVANI	II/ECE	12 Thanken
63.		II/ECE	D. Devi
64.		II/ECE	E Rhappyal armi
65.	GEDALA MARY MANI	II/ECE	(Mogley mon
66.	GUNA TEJESWARI	II/ECE	Or. Lejelian
67.	GUNTREDDI SUSMITHA	II/ECE	Gy - significe
68.	GURUGUBELLI VENKATA HYMAVATHI	II/ECE	Or WINKER HYMA
69	JANAM VENUGOPAL	II/ECE	J. Venu (soft)
70	JARJANA YAMUNA	II/ECE	J. Janu Ma.
71	KAPPARAPU RAMU	II/ECE	James,
72	KODEM SAI MANIKANTA PAVAN KUMAR	II/ECE	K. STIMEN KANTE
73	. KONDAGORRI AMEELA	II/ECE	K. AMBLA
74	. KONDALA SRAVANI	II/ECE	K Shevanin
75	. KUNDANGI PAVITRA	II/ECE	k. Cognific
76	LINGALA SANDHYA	II/ECE	L. Levollinge
77	LINGALA VENUKUMARI	II/ECE_	1. Vonekmari
78	LOPINTI SANDHYARANI	II/ECE	L SANDHAY
79	P. SAVARA ANUSHA	II/CSE	S. Arragha
80). SIRIPILLI DURGA BHAVANI	II/CSE	3 - Corga bhouse
8	I. SIRLA BHAVANIKUMARI	II/CSE	S. Bhallmikumas
82	2. SRAVANI SANDHYA GANTYADA	II/CSE	S. Sur
8:		II/CSE	T: SRINU
8	4. TAMMIREDDY LAVANYA	II/CSE	T. Lowanya-
8	5. TANGUDU KARTEEK	II/CSE	1 Kartheak



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Date: 14.10.2022

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This is to inform all the students and staff that on account of "SWACCH BHARAT" our college NSS Unit is going to conduct CLEANING PROGRAM in ETCHERLA on 21.10.2022. Hence interested students can register their names at NSS PO, Mr. Nagaraju on or before 20.10.2022.

NSS PO

PRINCIPAL

Sri Yenkateswara College of Engineering&Technology ETCHERLA, Srikakulam-532410 (A.P)

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Name of the Event: "SWACCH BHARAT"

Date: 21.10.2022

List of Participants

S. No	Name of the Student	Year &Sem	Signature
1.	BANKURU DIVYADEEPIKA	I/CIVIL	R. Divua doebika
2.	BONAM PRIYANKA	I/CIVIL	B. PRIVANKA
3.	CHINNALA NARAYANA RAO	I/CIVIL	C. NazayaRao
4.	CHINNALAHARI KRISHNA	I/CIVIL	C. Karkhana
5.	GANTASALA SATEESH	I/CIVIL	Cresatedel
6.	GURUGUBELLI PRAVEEN	I/CIVIL	G. Draveen
7.	KARIGGI GANESH	I/CIVIL	k. Ganesa
8.	KONDAGORRI KUMARA SWAMY	I/CIVIL	M. Kinger Sagni
9.	KOYYAN AABHISHEK	I/CIVIL	k. Aabhishok
10.	·MAJJI RAMBABU	I/CIVIL	H. Rambabu
11.	MALUGU NARENDRA	I/CIVIL	M. Marandra
12.	B KISHORE KUMAR	I/EEE	B. Kisthate Kumot
13.	BHAIRI NEERAJA	I/EEE	12. Neercija
14.	CHODAVARAPU BHARGAVA	I/EEE	TON 11
1 -1	KUMAR		Corga Kinas
15.	GODDU DIVYA	I/EEE	G. Divoya K. Sai Krymon L. Devi
16.	KINJARAPU SAI KUMAR	I/EEE	K. Sai Sumo
17.	LINGALA DEVI	I/EEE	1. Devi
18.	MUDDADA INDIRA	I/EEE	M. Sudiosa
19.	MURAMARLA VENKATALAXMI	I/EEE	M. Venkada John
20.	POLIREDDI SRINIVASA RAO	I/EEE	P. Spiniale sas
21.	SEERAMSETTY GOWTHAM	I/EEE	S. Gowtham
22.	ALLUPILLI SIMHACHALAM	I/MECH	L'Simbacka Com
23.	ALUBILLI UPENDRA	I/MECH	A. wender
24.	BALAGA SASI BHUSHANA RAO	I/MECH	B. Stimu
25.	BONDAPALLI SRINU	I/MECH	B. Sounu
26.	BONELA JEEVAN KUMAR	I/MECH	B-Jeevan Lumar
27.	BUGATA AVINASH	I/MECH	Quefrach
28.	CHUKKA MOHANKRISHNA	I/MECH	e mohankalishna
29.	DAKKATA TIRUPATHI	I/MECH	p. Fourpathy
30.	GULLA KARTHIK	I/MECH	G. Karthik
31.	GUNA DHANUNJAYA	I/MECH	Gr. Chaningey
32.	GUNUPURU UPENDRA	I/MECH	Cr. upendeal
33.	KADAGALA CHANDRASEKHAR	I/MECH	K. Chandra Sekhari
34.	KORADA UPENDRA	I/MECH	k - Opendra
35.	KUNA PRADEEP	I/MECH	K. Dandeep
36.	111111111111111111111111111111111111111	I/MECH	N. Teepak
37.		I/MECH	N. Nasiesh
38.	NELLIPARTI HEMANTH	I/MECH	N. HEmantel.



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39.	PENUMAJJI KISHOR	I/MECH	P. KEShe
40.	RAMPATRUNI HARIKRISHNA	I/MECH	R. HavikRisma
41.	RATNALA RUSHI	I/MECH	R. Kusho
42.	SAMPATIRAO HARSHA VARDHAN	I/MECH	S Marson
43.	SAVARA MANOJ KUMAR	I/MECH	S. Marie Kumar
44.	SELAGALA VENKATARAMANA	I/MECH	S 14/2
45.	TIMMANA ESWARA RAO	I/MECH	T Esimoro Oco
46.	BITTU KUMAR	I/MECH	B. Kumar
47.	MANTOSH KUMAR	I/MECH	M. Kumay
48.	KRISHNA KUMAR MANDAL	I/MECH	K- Eura Mandel
49.	DEEPAK KUMAR	I/MECH	Deelak kunga
50.	MRITUNJAY KUMAR	I/MECH	M. Kenney
51.	SUJIT KUMAR	I/MECH	Duist Runar
52.	PRAINCE KUMAR	I/MECH	P. Kuman
53.	SHRAVAN KUMAR	I/MECH	S. Kyot
54.	RAHUL KUMAR	I/MECH	B. Kinon
55.	RAUSHAN KUMAR	I/MECH	Rushan Kuman
56.	SUMIT KUMAR KHARWAR	I/MECH	8 Zunta
57.	ARANGI SURESH	I/ECE	A. Susiesh
58.	ARANGI SURESH	I/ECE	A. Schnesh
59.	BANALA DHANALAKSHMI	I/ECE	B. Dronclatom
60.	BAVIRI RAJESWARI	I/ECE	R. Raleswari
61.	BEVARA NAGAMANI	I/ECE	B. Nagermani
62.	BONELA PRAMEELA RANI	I/ECE	R Da Red aroui.
63.	BONGU MANIKANTA REDDY	I/ECE	B. Manikoutaredd
64.	BURADA SAI SEETHA RAM MOHAN	I/ECE	B.S. schilharkou mohan
65.	CHENCHALA DINESH	I/ECE	C.Wilheda
66.	CHINTADA SATYA PRASAD	I/ECE	C. satya parashi
67.	DANETI SWATHI	I/ECE	2 Swalling
68.	ABOTHULA SAI THUNAJA	I/CSE	A. Sal Thomase
69.	ADAPAKA PURNIMA	I/CSE	A. Punina
70.	BADE CHINNI	I/CSE	B. Ilimni
71.	CHINNALA SAIKUMARI	I/CSE	C. saikumari
72.	CHINTADA SHARMILA	I/CSE	C. STAM JUNE
73.	CHINTALA MOUNIKA	I/CSE	C. MOHINTAN
74.	CHODIPILLI ROHIT	I/CSE	C- malla
75.		I/CSE	D. Karya.
76.	DHAVALA SAI SIREESHA	I/CSE	D. Sal Sixeethan
77.	DUPPATLA NIKHIL	I/CSE	D. 15/2 S.l
78.	GAINEDI MONIKA PRIYA	I/CSE	G. Monita.
79.		I/CSE	Ci. Aswini
80.	GEDELA RAJA SEKHAR	I/CSE	G. DVASS
81.		I/CSE	Cr. stoward
82.		I/CSE	Giran
83.		I/CSE	Kildia
84.		I/CSE	k. Mount kor
		I/CSE	. (-)
85.	KALAMATA GOWRI	I/CSE	K.O nwai



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			4
86.	KANCHARANA YAMINI	I/CSE	R. Wansni
87.	KANITHI BHARGAVI	I/CSE	K. / Alsonar;
88.	KARANAM SIREESHA	I/CSE	12. SiRceshor
89.	KOKKIRI ANUSHA	I/CSE	k. Arusha
90.	KOLLI SRUTHI	I/CSE	la. Synthes
91.	KONDA SAI SAMPATH KUMAR	I/CSE	K.S. Sampily keman
92.	KONNI LIKHITHA	I/CSE	K. likhitha
93.	KOTTURU ASWINI	I/CSE	K. ASWINI
94.	KOVADA SPANDANA	I/CSE	K. Spandana
95.	GOSALA PRIYANKA	II/CIVIL	M. Driyanka
96.	GUNDA LEELA PRIYA	II/CIVIL	Gr. Leela pressa.
97.	GUVVADA MANJULA	II/CIVIL	G. Manula
98.	KADAMBALA MAHA LAKSHMI	II/CIVIL	K. Malazarini
99.	KENGUVA ANNAPURNA	II/CIVIL	K. Annaburna.
100.	KONDAGORRI NIROSHA	II/CIVIL	Kowinopsha.
101.	KUNA GOWTHAMI	II/CIVIL	luguethanis
102.	LAMBURU SWAPNA	-II/CIVIL	La Swapna
103.	MARUBARIKI PADMA	II/CIVIL	M. Padmer
104.	NARSIPURAM DRAKSHAYANI	II/CIVIL	NO(1) rakshawani
105.	NIMMAKA ANUSHA	II/CIVIL	N. Ariusha
106.	NIMMAKA SANDYARANI	II/CIVIL	N. Sandhuakar
107.	SAMBANA GEETANJALI	II/CSE	S. Gectonfali
108.	SANAPALA PAVAN KRISHNA	II/CSE	S. Pavan Krishne
109.	SAVARA ANUSHA	II/CSE	3. Anotha.
110.	SIRIPILLI DURGA BHAVANI	II/CSE	S. druska
111.	SIRLA BHAVANIKUMARI	II/CSE	5. Bhanankumai
112.	SRAVANI SANDHYA GANTYADA	II/CSE	G. Stavni Sandhip.
113.	TAMADA SRINU	II/CSE	1. Solinu
114.	TAMMIREDDY LAVANYA	II/CSE	T. Cavanya
114.	TAMMIREDDY LAVANYA	II/CSE	1. Cavanya

PRINCIPAL
PRINCIPAL
SHIVONKSTESWATA CHINAN ACENGIO SAJAJU (4.9)
EICHERLA, SHIKAKULAN SAJAJU (4.9)



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Date: 02.02.2023

· Who

· who

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This is to inform all the students and staff that our college NSS Unit is going to associate with MBA Department and conduct "ROAD SAFETY – AWARENESS RALLY" SVCET to SRIKAKULAM on 07.02.2023. Hence interested students can register their names at NSS PO, Mr. NAGARAJU on or before 06.02.2023.

NSS PO

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Sri Venkateswara College of Engineering&Technology ETCHERLA, Srikakulam-532410 (A.P)

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Department	IQAC	CE	EEE	ME	ECE	CSE	AIML	BS&H	MBA	OFFICE	NOTICE	FILE
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DATE: 08.02.2023

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Program Report					
Name of the Event	"ROAD SAFETY AWARENESS - RALLY"				
Event start date	07.01.2019				
Event end date ·	07.01.2019				
Place of the activity	. SRIKAKULAM				
No of Participants	78				
Collaboration	SRIKAKULAM MUNCIPALITY				
Description	We @SVCET-NSS UNIT conducted rally on Road Safety Awareness program. Today, we gather with a shared mission: to promote road safety and prevent accidents through education and awareness, Road safety is a critical issue that affects us all. By adhering to traffic rules and practicing safe driving habits, we can significantly reduce the number of accidents and save lives. Our program today aims to highlight the importance of road safety and encourage everyone to adopt responsible behavior on the roads. As part of this initiative, our students will be displaying informative placards that carry vital messages about road safety. These placards cover various aspects of road safety, including the importance of wearing seat belts, obeying speed limits, avoiding mobile phone usage while driving, and respecting pedestrian crossings				

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Office: +91 9705576693, email: principal_svcet@yahoo.com, website: www.svcet.info

Name of the Event: ROAD SAFETY - AWARENESS RALLY

Date: 07.02.2023

List of Participants

S. No	Name of the Student	Year & Sem	Signature
1.	PAPARAO CHALLA	I/CIVIL	D. Challa
2.	PASUPUREDDY ESWARA RAO	I/CIVIL	p. Eswara Rao
3.	PATTIKA KASTURI	I/CIVIL	D. KOWING
4.	RELLA SANTHOSH KUMAR	I/CIVIL	R. Santhauhleman
5.	RUGADANA SANGEETHA	I/CIVIL	R. sangeetha
6.	SAVARA GANESH	I/CIVIL -	5.94NRX
7.	SHERMAHAMMADPURAM JAYA	I/CIVIL	College Park
	PRAKASH		2 Vang riker
8.	TAMADA HEMANTHKUMAR	I/CIVIL	T. Hemanthkuman
9.	VOOYAKA KUMARA SWAMY	I/CIVIL	V. Ke Marya Sutemy
10.	YANDA TEJESWARA RAO	I/CIVIL	Y. Jejesucosa Ran.
11.	B KISHORE KUMAR	I/EEE	K, Killione Kuns
12.	BHAIRI NEERAJA	I/EEE	B. Neeraja
13.	CHODAVARAPU BHARGAVA	I/EEE	C. Bhargala kumar
	KUMAR		C Brangava Land
14.	GODDU DIVYA	I/EEE	M. Dillia.
15.	KINJARAPU SAI KUMAR	I/EEE	K. Sai Komow
16.	LINGALA DEVI	I/EEE	L. Devi
17.	MUDDADA INDIRA	I/EEE	M. Promota.
18.	MURAMARLA VENKATALAXMI	I/EEE	M. venkatalaxm
19.	POLIREDDI SRINIVASA RAO	I/EEE	Postinivosa rad
20.	SEERAMSETTY GOWTHAM	I/EEE	3. (nowtham.
21.	SURAJBHAN SINGH RATHOR	I/EEE	Abhisher ruman
22.	ABHISHEK KUMAR MAHTO	I/EEE	Marthusela taman
23.	RAUSHAN KUMAR	I/EEE ,	R. Kumar
24.	RITIK RAJ	I/EEE	R. Rai
25.	VIKASH KUMAR	I/EEE	V. Bumar
26.	GUNA DHANUNJAYA	I/MECH	R. Pal
27.	GUNUPURU UPENDRA	I/MECH	5. aprexerva.
28.	KADAGALA CHANDRASEKHAR	I/MECH	Gi- wendra
29.	KORADA UPENDRA	I/MECH	K. Spengra.
30.	KUNA PRADEEP	I/MECH	k. P. Stadeep
31.	NANDIKI DEEPAK	I/MECH	N. Deepok
32.	NATTI NARESH	I/MECH	N. Nasesh
33.	NELLIPARTI HEMANTH	I/MECH	N. Maresh.
34.	PENUMAJJI KISHOR	I/MECH	P-KISHOR.
35.	RAMPATRUNI HARIKRISHNA	I/MECH	R. hasiikui3hna
36.	RATNALA RUSHI	I/MECH	R. Rushi
37.	SAMPATIRAO HARSHA VARDHAN	I/MECH	5. Harrallarohon
38.	SAVARA MANOJ KUMAR	I/MECH	S. Manas Klumbor



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39.	DOLA ASHA RAJU	I/ECE	D. Alla A Satu
40.	DOLA PRASANTHI KUMARI	I/ECE	D-Dsarbanthi ke masi
41.	GARA LEELARANI	I/ECE	En Coctaciono
42.	GUNA JAYARAM	I/ECE	61. Tayaram.
43.	GUNUPURU GOWREESWARI	I/ECE	G. G. 600000
44.	GUNUPURU SULOCHANA	I/ECE	G. Carlota
45.	GURUGUBELLI BALA KRISHNA RAO	I/ECE	1. 3Almohan.
46.	ILLIPOTHI SAI MOHAN	I/ECE	I Sal Motor
47.	JEEVAN SHREE PANIGRAHI	I/ECE	5-0432
48.	KONCHADA YOGESWARI	I/ECE	Tropic -
49.	LENKA NAVEEN KUMAR	I/ECE	L. Muscas
50.	MAMIDI LAVANYA .	I/ECE	M. Lavanya.
51.	MANDALA YAMUNA	I/ECE	M. yearing
52.	NAIKO NAVEEN	I/ECE	N. Daven
53.	PARIGA BAIRAGI	I/ECE	NBO
54.	PATNANA SANDHYARANI	I/ECE	P. Sansarya Du
55.	CHINTADA SHARMILA	I/CSE	C. Chother.
56.	CHINTALA MOUNIKA	I/CSE	Milun Ra.
57.	CHODIPILLI ROHIT	I/CSE	C. Roktato
58.	DHAVALA KAVYA	I/CSE	D. Banza
59.	DHAVALA SAI SIREESHA	I/CSE	Decro Street
60.	DUPPATLA NIKHIL	I/CSE	DiPlus
61.	GAINEDI MONIKA PRIYA	I/CSE	G. Powo.
62.	GANDETI ASWINI	I/CSE	Groswini
63.	GEDELA RAJA SEKHAR	I/CSE	· Or Raig of Khan
64.	GIRADA SRAVANI	I/CSE	G. Colde
65.	GORUSU PAVAN	I/CSE	Palone
66.	KADA PUJA	I/CSE	Ni Pusa.
67.	KALAGA MOUNIKA	I/CSE	K. mourita
68.	KALAMATA GOWRI	I/CSE	K. O ewsh
69.	KANCHARANA YAMINI	I/CSE	K. yanules
70.	KANITHI BHARGAVI	I/CSE	K/Cuticoly)
71.	KARANAM SIREESHA	I/CSE	K affine her
72.	KOKKIRI ANUSHA	I/CSE	K-AWP-C
73.	KOLLI SRUTHI	I/CSE	K. Southi
74.	BHASKARABHATLA CHINMAI	II/ECE	B" (himan
75.	BURLE ANURADHA	II/ECE	B. Anutadha
76.	CHALAPATI MEGHANA	II/ECE	C. Meganto
77.	DHARMANA SRAVANI	II/ECE	Coldling D
78.	DUKKA DEVI	II/ECE	D. Day
	DOMA DEVI	I III LOL	

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Date:25-10-2022

CIRCULAR

This is to inform all the students and staff that on account of "NATIONAL UNITY DAY – RALLY" on 31-10-2022. our college NSS Unit is going to conduct "RALLY FROM COLLEGE TO CHILAKAPALEM VILLAGE" on 31-10-2022. This Rally is to create awareness on NATIONAL UNITY DAY – UNITY RUN. Hence interested students can register their names at NSS PO Mr. Nagaraju on or before 29-10-2022.

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Sri Venkateswara College of Engineering & Technology

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Date:02-11-2022

Program Report

Name of the Event	"NATIONAL UNITY DAY – UNITY RUN"						
Event start date	31-10-2022 ·/pt						
Event end date	31-10-2022						
Place of the activity	CHILAKAPALEM						
No of Participants	. 63						
Collaboration	SVCET – NSS UNIT						
Description	"NATIONAL UNITY DAY" is celebrated RALLY on October 31st National Unity Day is celebrated to recognize the endeavors of Sardar Vallabhbhai Patel to unite the country. The significance of this day is as follows: It aims to reaffirm the solidarity among the people of India. It aims to maintain the spirit of "unity in diversity" among the people. As a part of it SVCET NSS Unit has organized "RALLY" on 31-10-2022. With all students and Volunteers took the Unity Pledge and Principal Dr. S C V RAMANA MURTHY NAIDU, and Vice Principal Dr. V K CHAKRAVARTHY have explained the importance of Unity Day and inaugurated the flag-for RALLY with 45 SVCET NSS Volunteers and students.						

NSS PO

Srivenkateguara College of Engineering RT-ochnology
ETCHERLA, Srikakulam-5324 LU (A.P)

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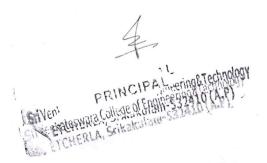
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Name of the Event: NATIONAL UNITY DAY

Date: 31.10.2022

List of Participants

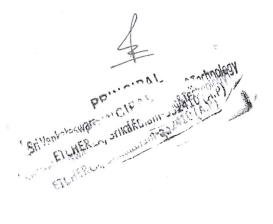
S. No	Name of the Student	Year &Sem	Signature
1.	SHERMAHAMMADPURAM JAYA		S. Jaya prentash
	PRAKASH	I/CIVIL	3. Seign 10 Statist
2.	TAMADA HEMANTHKUMAR	I/CIVIL	T. HEMMINTERMINE
3.	VOOYAKA KUMARA SWAMY	I/CIVIL	V. Kumaga suban y
4.	YANDA TEJESWARA RAO	I/CIVIL	7. Tejamera Rao
5.	DEEPAK KUMAR	I/CIVIL	D. Kumas
6.	RAJEEV KUMAR	I/CIVIL	R. Kuman
7.	BOLBAM PANDIT	I/CIVIL	B. CHAIDISO
8.	MITHILESH KUMAR SHARMA	I/CIVIL	M. Salma.
9.	PRINCE RAJ	I/CIVIL	12.0201
10.	SUNNY KUMAR	I/CIVIL	S. Keury ark
11.	MANISHA KUMARI	I/CIVIL	m. Kumari
12.	MURAMARLA VENKATALAXMI	I/EEE	M.Venkatalanini
13.	POLIREDDI SRINIVASA RAO	I/EEE	P. 8.200.
14.	SEERAMSETTY GOWTHAM	I/EEE	9.1910 fram
15.	SURAJBHAN SINGH RATHOR	I/EEE	a. singh Rather
16.	ABHISHEK KUMAR MAHTO	I/EEE	M. Dhushek kung
17.	RAUSHAN KUMAR	I/EEE	R. Kina
18.	ALLÚPILLI SIMHACHALAM	I/MECH	A.Semhachalam
19.	ALUBILLI UPENDRA	I/MECH	A. Deendra
20.	BALAGA SASI BHUSHANA RAO	I/MECH	B. Soat Bhushana a
21.	BONDAPALLI SRINU	I/MECH	B. saines
22.	BONELA JEEVAN KUMAR	I/MECH	B. Jeeran Kumar
23.	BUGATA AVINASH	I/MECH	B SINNON
24.	CHUKKA MOHANKRISHNA	I/MECH	Ch. Mohan Kovelina
25.	DAKKATA TIRUPATHI	I/MECH	V. Tirunathi
26.	GULLA KARTHIK	I/MECH	G. Kaxthik
27.	GUNA DHANUNJAYA	I/MECH	Fi Dhan WAga
28.	GUNUPURU UPENDRA	I/MECH	G upendaga
29.	KADAGALA CHANDRASEKHAR	I/MECH	K-Chandrasekha
30.	KORADA UPENDRA	I/MECH	1x · uponona
31.	KUNA PRADEEP	I/MECH	L. Pradeepi
32.	NANDIKI DEEPAK	I/MECH	N. Deepak
33.	NATTI NARESH	I/MECH	AL MAYET
34.	NELLIPARTI HEMANTH	I/MECH	N. Hemanth
35.		I/MECH	P. Kishol
36.		I/ECE	A. Swesh
37.		I/ECE	- IZ-DHUU
38.		I/ECE	Bo RaiPrwan
39.		I/ECE	17. Naga Mang



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40.	BONELA PRAMEELA RANI	I/ECE	B. Framela Kani
41.	BONGU MANIKANTA REDDY	I/ECE	B. MANIKANIA Roddy
42.	BURADA SAI SEETHA RAM MOHAN	I/ECE	B.S.S. Ram Mohan
43.	CHENCHALA DINESH	I/ECE	ch. Bresh.
44.	CHINTADA SATYA PRASAD	I/ECE	Ch. Sity Prasad
45.	DANETI SWATHI	I/ECE	D. G.SAHAS.
46.	DEVARASETTI TANUJA	I/ECE	D' Tanuto
47.	DOLA ASHA RAJU	I/ECE	D-ASHA RAJU
48.	DOLA PRASANTHI KUMARI	I/ECE	D- Asha Rafu
49.	GARA LEELARANI	I/ECE	es. Jayopay
50.	GUNA JAYARAM	I/ECE	C. JagaBACO
51.	GUNUPURU GOWREESWARI	I/ECE	-c1 - amuzulllub
52.	GUNUPURU SULOCHANA	I/ECE	G. S. Dochara
53.	GURUGUBELLI BALA KRISHNA RAO	I/ECE	G.Krish /
54.	ILLIPOTHI SAI MOHAN	I/ECE	I Sal mohard
55.	ARANGI SURESH	I/ECE	A- Sweet
56.	BANALA DHANALAKSHMI	I/ECE	B. Dhanalotshi
57.	GEDELA RAJA SEKHAR	I/CSE	(5. Spin lokelon
58.	GIRADA SRAVANI	I/CSE	OT Selvani)
59.	GORUSU PAVAN	I/CSE	Gr. Devan
60.	KADA PUJA	I/CSE	R Keige
61.	KALAGA MOUNIKA	I/CSE	K. Mounilean
62.	KALAMATA GOWRI	I/CSE	K. COWRI
63.	KANCHARANA YAMINI	I/CSE	12. JAM/N/





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Date: 24.04.2023

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CIRCULAR

This is to inform all the students and staff that our college NSS Unit is going to conduct "MEDICAL CAMPAIGN" at SSR Puram village on 28.04.2023. Hence interested students can register their names at NSS PO, Mr. Nagaraju on or before 27.04.2023.

NSS PO

PRINCIPAL

Sri Venkateswara College of Engineering & Technology ETCHERLA, Srikakulam-532420 (A.P.)

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DATE: 29.04.2023

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•	Program Report
Name of the Event	MEDICAL CAMP
Event start date.	28.04.2023
Event end date	. 28.04.2023
Place of the activity	SSR Puram Village
No of Participants	88
Collaboration	GEMS HOSPITAL
	We @SVCET-NSS UNIT organized a medical camp at SSR Puram village to provide healthcare services to the local community. The camp offered free medical check-ups, consultations, and basic
Description	treatments. A team of doctors and healthcare professionals conducted screenings for common ailments, distributed medicines, and provided health education on preventive measures. The initiative aimed to improve health awareness and access to medical care for the villagers, enhancing their overall well-being.

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Name of the Event: MEDICAL CAMP

Date: 28.04.2023

List of Participants

S. No	Name of the Student	Year &Sem	Signature
1.	BAMMIDI LAXMANA	II/CIVIL	B. Lanmama
2.	BELAMARA SAI SIREESHA	II/CIVIL	R. SAL SIREESha
3.	BIDDIKA LAXMIPRASANNA	II/CIVIL	B. Laymip, rawane
4.	BURALLA MADHU KUMAR	II/CIVIL	13. MABHU Camar
5.	CHINNALA JAGADESWARA RAO	II/CIVIL	B. Modhu o
6.	CHINTADA SRAVANI	II/CIVIL	C Solarburi
7.	CHINTU HARISH	II/CIVIL	Ch. Hasish
8.	DEVAKIVADA DHARMA TEJA	II/CIVIL	D. Phome lega
9.	DHANA LAKSHMI JAVAPU	II/CIVIL	O Cerpra Jana
10.	DUBBA AASISH KUMAR	II/CIVIL	In JAShiA humers
11.	GONAPA RAHUL CHANDU	II/CIVIL	G. Rahus chavely
12.	GURUGUBELLI BHARGAVI	II/CIVIL	Con Bhayowi
13.	JAMPA MEENA	II/CIVIL	Mocara.
14.	KOSTU VENKATARATNAM	II/CIVIL	K. vanka fava moon
15.	KUMBIRIKI SANTHOSHI	II/CIVIL	K. Santhoshi
16.	KUNDANGI RAJINI	II/CIVIL	K. Rajine
17.	MAMIDI THRILOVANI	II/EEE	M. toulovan
18.	MUGADA DURGAPRASAD	II/EEE	M. Durigo prasad
19.	MUNAGAVALASA UMESHBABU	II/EEE	of Wellow
20.	PENUGUDURU NAVEEN	II/EEE	P. Naveen
21.	PINIMINTI VENKATALAKSHMI	II/EEE	P-Nenkatalarymi
22.	SAKETI KISHOR KUMAR	II/EEE	5- Kiya of leamant.
23.	ŞANAPALA PAVANI	II/EEE	8. Doman
24.	SEERA HARITHASREE	II/EEE	S. Harithasree
25.	SUGGU KRANTHI KUMAR	II/EEE	Sik. Kumar.
26.	TAMMINAINA VANITHASRI	II/EEE	P. Vanillasa:
27.	KAVALLA BHASKARARAO	II/MECH	K. E has kalenge
28.	KOLA SATISH	II/MECH	& Satish
29.	KURAMANA PRASAD	II/MECH	K. Driosad
30.	KURUMENU DEVENDRA PRASAD	II/MECH	K. Devendra Dras
31.	MARRIVALASA KIRAN SAI KUMAR	II/MECH	Mi Kinan a a kunar
32.	MOYYI VAMSI	II/MECH	M. WALL
33.	MUDDADA THAVITI RAJU	II/MECH	La Tale Co
34.	MUKALA GANESWARA RAO	II/MECH	M. Thauiti Rayo
35.		II/MECH	M. Gamer word 200
	MUKALLA RAJASEKHAR	II/MECH	N. dinesh
36.	NOLLU DINESH		re. Dinesh
37.	PAGOTI BHARGAVA RAO	II/MECH	p. Bhargay Dao
38.	PANCHIREDDY GANAPATHI	II/MECH	P. GIERNOUNIA
39.	POGIRI NARESH	II/MECH	D waresh

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40.	ADIMULAM PRASANTH KUMAR	II/ECE	A Project Newson
41.	BHASKARABHATLA CHINMAI	II/ECE	B. Chimmai
42.	BURLE ANURADHA	II/ECE	BorAnwrodha
43.	CHALAPATI MEGHANA	II/ECE	Ch. Meghana
44.	DHARMANA SRAVANI	II/ECE	D. Sxalani
45.	DUKKA DEVI	II/ECE	D. Devi
46.	EASAI BHAGYA LAXMI	II/ECE	G.B. laxmi
47.	GEDALA MARY MANI	II/ECE	To mary
48.	GUNA TEJESWARI	II/ECE	(n. Telestoasi
49.	GUNTREDDI SUSMITHA	II/ECE	Bus milha G
50.	GURUGUBELLI VENKATA HYMAVATHI	II/ECE	Cn. Ventrala
51.	JANAM VENUGOPAL	II/ECE	J. Venus
52.	MURLA SAI KUMARI	II/CSE	M Tall
53.	NAIDU BHARGAVI	II/CSE	N. Baraan
54.	NANNI ASHADOLAI	II/CSE	A Many
55.	PANDURU RAKESH	II/CSE	D. Radeshi
56.	PANGI MAMATHA	II/CSE	Maniatla
57.	PASUPUREDDY GOWTHAMI	II/CSE	p. Gowthen
58.	PATHINA DANTESWARA RAO	II/CSE	P Dantes 1.67
59.	PATTIKA MANISHA	II/CSE	P Manisha
60.	RAGHUPATRUNI SAI SANTOSHI DARSHINI	II/CSE	D. Saisanthos
61.	ROUTHU SAIKUMAR	II/CSE	R. Saikuman
62.	SANTRO SUMAN KUMAR	II/CSE	8. Burankumas
63.	SAVALAPURAPU SUKANYA	II/CSE	B. Bukanya
64.	SIGATAPU PRADEEPTHI	II/CSE	S. Pradeopthi
65.	BONGU MANIKANTA REDDY	I/ECE	B. Marie
66.	BURADA SAI SEETHA RAM MOHAN	I/ECE	12 000
67.	CHENCHALA DINESH	I/ECE	Ch. Dingh
68.	CHINTADA SATYA PRASAD	I/ECE	ch. Satya Prosay
69.	DANETI SWATHI	I/ECE	D. Sugarthi
70.	DEVARASETTI TANUJA	I/ECE	D. Tamila
71.	DOLA ASHA RAJU	I/ECE	D. St. Shortales
72.	DOLA PRASANTHI KUMARI	I/ECE	D. prosont semou
73.	GARA LEELARANI	I/ECE	Con Leavosany
74.	GUNA JAYARAM	I/ECE	Co. Sayasam
75.	CHINNALA SAIKUMARI	I/CSE	I M. Val Burnary
76.	CHINTADA SHARMILA	I/CSE	ch-sarmila
77.	CHINTALA MOUNIKA	I/CSE	Ch. Mouis
78.	CHODIPILLI ROHIT	I/CSE	C- NONOY.
79.	DHAVALA KAVYA	I/CSE	D. Kondar
80.	DHAVALA SAI SIREESHA	I/CSE	D. Saissockshu
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COLLEGE OF ENGINEERING & TECHNOLOGY 150 9001:2015 Certified

(Approved by AICTE, New Delhi, Affiliated to JNTUGV, Vizianagaram)

Office: +91 9705576693, email: principal_svcet@yahoo.com, website: www.svcet.info

86.	CHODIPILLI ROHIT	I/CSE	Gr. Roshit
87.	DHAVALA KAVYA	I/CSE	D. Karma
88.	DHAVALA SAI SIREESHA	I/CSE	D. Sai

Srivenkatesward College of Frou Ingert ochnology
ETCHERLA, STIKAKUTAM-532-10 (A.P)

CERTIFICATE OF COMPLETION

This is to certify that

Sri Venkateswara College of Engineering & Technology

has successfully completed

CARBON FOOTPRINT & ENERGY AUDIT

The study was completed by Rekhapalli Environmental Solutions & Technologies Pvt Ltd

RAMPAY

Dr Rekhapalli Srinivasa Rao

Green, Eco & Energy Lead Auditor Certified ISO-14001 Auditor













Issued by

(Rekhapalli Environmental Solutions & Technologies Pvt Ltd)

January 2022

NH 16, ETCHERLA, SRIKAKULAM, ANDHRA PRADESH 532410



CARBON FOOTPRINT AND ENERGY AUDIT

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Acknowledgements

REST Pvt Ltd



Dr Rekhapalli Srinivasa RaoGreen, Eco & Energy Lead Auditor
Certified ISO-14001 Auditor

23 Jan 2022

Carbon Footprint & Energy Audit

The REST Pvt Ltd acknowledges with thanks the cooperation extended to our team for completing the study at Sri Venkateswara College of Engineering and Technology (SVCET).

The interactions and deliberations with SVCET team were exemplary and the whole exercise was thoroughly a rewarding experience for us. We deeply appreciate the interest, enthusiasm, and commitment of SVCET team towards environmental sustainability.

We are sure that the recommendations presented in this report will be implemented and the SVCET team will be further improve their environmental performance.

Kind regards

Your sincerely

Dr Rekhapalli Srinivasa Rao

Green, Eco & Energy Lead Auditor Certified ISO-14001 Auditor REST Pvt Ltd

Executive Summary

The growth of countries across the world is leading to increased consumption of natural resources. There is an urgent need to establish environmental sustainability in every activity we do. In a modern economy, environmental sustainability will play a critical role in the very existence of an organization.

An educational institution is no different. Built environment, especially an educational institution, has a considerable footprint on the environment. Impact on the environment due to energy consumption, water usage and waste generation in an educational institute is prominent. Therefore, there is an imminent need to reduce the overall environmental footprint of the institution.

As an Institution of higher learning, Sri Venkateswara College of Engineering and Technology (SVCET) firmly believes that there is an urgent need to address the environmental challenges and improve their environmental footprint.

True to its belief, SVCET has installed small quantity of solar powered panels and installed LED lights, REST Pvt Ltd team congratulates SVCET team for their efforts.

Keeping SVCET work in energy efficiency, we recommend the following to be taken by the competent team at SVCET:

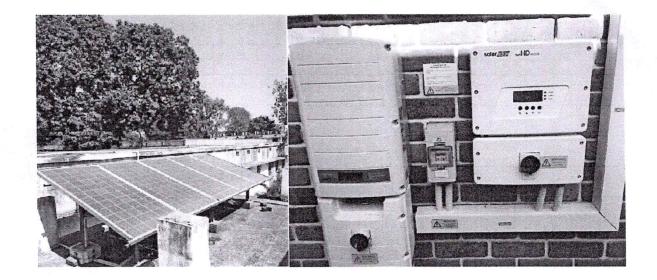
Work towards achieving carbon neutrality: NDC emphasizes creating an additional carbon sink of 2.5 to 3 billion tonnes of CO2 equivalent through additional forest and tree cover by 2030. SVCET's net carbon emission for the year 2021-22 is >50MT CO2e. SVCET should focus on energy efficiency, renewable energy, and carbon sequestration as tools that will enable them to offset the present carbon emissions and achieve carbon neutrality.

Installation of solar rooftop: Renewable energy plays a very important role in improving the environmental footprint of an organization. By increasing the share of renewable energy in SVCET's energy portfolio, the overall carbon footprint of the college can be reduced. The roof area available at SVCET is around 4984 sq.ft on roof top. For the available area, roof top occupied with 5 kWp of solar PV Installed. As an initial step, SVCET could look at installing 25kWp of solar PV which can generate 40,500 units per year. Still the renewable share will also reduce the 33 MT CO²e. For the current assessment year power consumption to reduce, roof top can be utilized for solar power toexpand.

Increase the operating power factor: Presently, based on the energy bills, it is understood that the institution maintains a power factor of 0.65. Since the institution pays electricity bills for the KVAH consumed, the lower the power factor, higher is the energy bill for the same KWH consumption. It is recommended to install capacitor banks to improve the power factor and save energy bill. SVCETcan save up to Rs. 20,000 per month.

Improve energy efficiency of the college: It is recommended to adopt latest energy efficient technologies for reducing energy consumption in fans, lighting, and air conditioners. We recommend the following projects to be implemented at the earliest:

- Replace conventional 80W ceiling fans with energy efficient BLDC fans of 30W
- Install air conditioners energy savers to save energy in split air conditioners
- Replace all conventional tube lights with LED lamps



Carbon Footprint and Energy Audit

Sri Venkateswara College of Pharmacy (SVCET) and REST Pvt Ltd are working together to identify opportunities for improvement in energy efficiency and carbon reduction. This report highlights all the potential proposals for improvement through the audit and analysis of the data provided by SVCET for lighting, air conditioning, ceiling fans, and biogas potential.

The report also details the carbon emissions from college operations. For carbon emissions, scope 1 and scope 2 emissions are calculated from the data submitted by SVCET. The report emphasizes the GHG emission reduction potential possible through a reduction in power consumption.

Submission of Documents

"Carbon footprint and energy audit at SVCET was carried out with the help of data submitted by SVCET team. SVCET team was responsible for collecting all the necessary data and submitting the relevant documents to REST Pvt Ltd for the study.

Note

Carbon footprint and energy audit are based on the data provided by SVCET team and discussions the REST Pvt Ltd team had with SVCET team. The scope of the study does not include the exclusive verification of various regulatory requirements related to environmental sustainability.

REST Pvt Ltd has the right to recall the study if it finds (a) major violation in meeting the environmental regulatory requirements by the location and (b) occurrence of major accidents, leading to significant damage to ecology and environment.

Opportunities for improvement

As a part of the overall environmental improvement study at SVCET, carbon footprint calculations were also carried out. The objective of calculating the carbon footprint of the campus is find the present level of emissions from campus operation and what initiatives that the SVCET can take to offset the emissions. By offsetting the emissions, the college can become carbon neutral in the future by adopting energy efficient processes, increase in renewable energy share and tree plantation.

Carbon footprint calculations:

To help delineate direct and indirect emission sources, improve transparency, and provide utility for different types of organizations and different types of climate policies and business goals, three "scopes" (scope 1, scope 2, and scope 3) are defined for GHG accounting and reporting purposes.

For calculating carbon footprint of the campus, Scope 1 & Scope 2 emissions are being considered. Since day scholars use college provided transportation and hostelers stay in campus, Scope 1 and Scope 2 are the highest contributor to overall emissions. For this reason, Scope 3 is not being calculated.

Scope 1: Direct GHG Emissions

Direct GHG emissions occur from sources that are owned or controlled by the company, for example, emissions from combustion in owned or controlled DG sets, canteen, vehicles, etc.; emissions from chemical production in owned or controlled process equipment. Direct CO2 emissions from the combustion of biomass shall not be included in scope 1 but reported separately.

SVCET Scope 1 emissions for 2021-22:

Sources of Scope 1 emissions in SVCET:

- 1) Diesel used for college-owned transportation: 50,000 liters/year
- 2) Diesel consumption for the generator for the assessment year 2021-22 is minimum (included in above consumption).

3) LPG used for canteen: 144cylinders/year

Scope 2: Electricity Indirect GHG Emissions

Scope 2 accounts for GHG emissions from the generation of purchased electricity consumed by a company. Purchased electricity is defined as electricity that is purchased or otherwise brought into

the organizational boundary of the company. Scope 2 emissions physically occur at the facility where electricity is generated.

SVCET Scope 2 emissions for 2022: Electricity purchased from grid.

Develop a roadmap to increase contribution of renewable energy in the overall energy consumption

To have a continued focus on increasing renewable energy utilization to 100% which will also lead to reduction in GHG emissions, it is suggested to develop a detailed roadmap on RE utilization. The road map should broadly feature the following aspects -

- Renewable energy potential of SVCET and the maximum offset that can be achieved at SVCET
- Percentage substitution with renewable energy that SVCET wants to achieve in a specified timeframe

Key tasks that need to be executed to achieve the renewable energy target

- Specific financial break up for each of the projects highlighting the amount required, available and the utilization status as on date
- A regular review mechanism to ensure progress along the lines of the roadmap should be framed
- The roadmap should also highlight important milestones/key tasks, anticipated bottle SVCET
 &proposed

Renewable energy roadmap should be used as a base to frame GHG emissions reduction target

It is suggested to use the developed renewable energy roadmap to correlate the GHG reduction that each of the renewable energy project will achieve. This approach will provide a base to set targets for reduction in GHG emissions. The action plan for renewable energy will shoulder the action plan for GHG emissions reduction and work towards achieving carbon neutrality.

Explore the option of other onsite and offsite renewable energy projects

The renewable energy field has been witnessing many private investors due its increased market demand and attractive policies in many states. There are Renewable Energy Independent Power Producers (RE IPPs) who have installed RE based power plants like wind, small hydro and solar PV. GOC can consider having a long-term power purchase agreement with these RE IPPs in purchasing fixed quantity of power for a period of 5 to 10 years.

"Evolve a system to monitor the implementation of various GHG mitigation opportunities SVCET has an action plan to reduce its GHG emissions. SVCET should also evolve a system to monitor the implementation of various GHG mitigation opportunities. It is recommended to use a Gantt chart to mark out the action plan for the activities and track its implementation. Gantt chart will serve as an excellent way to instantly monitor and comprehend all different tasks in one place which would ease tracking of implementation.

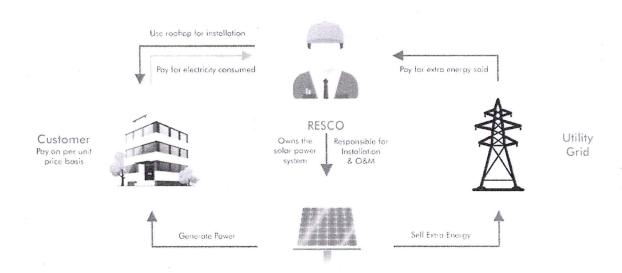
Calculation for Installation of 25 kWp of Solar PV in SVCET campus

Renewable energy is one of the important steps to be taken up by the college to reduce their overall carbon footprint. Based on the details provided by SVCET team, The roof area available at SVCET is around 4984 sq.ft on roof top. For the available area, roof top occupied with 5 kWp of solar PV Installed. As an initial step, SVCET could look at installing 25kWp of solar PV which can generate 40,500 units per year. However, for report calculation, only 25 kWp capacity is considered.

A renewable energy capacity of 25 kW of solar panel may be installed can generate 40,500 units of electricity per year. Additionally, 25 kWp of solar rooftop can offset 33 MT CO2e per annum. RESCO model for solar rooftop installation:

A Renewable Energy Service Company (RESCO) is an ESCO Energy service company which provides energy to the consumers from renewable energy sources. RESCO or BOOT model is about pay as Ju consume the electricity.

- Solar Power Plant is owned by the RESCO or Energy Company
- Customer must sign a Power purchase Agreement (PPA) with actual investor at mutually agreed tariff and tenure
- Customer only pays for electricity consumed
- RESCO developer is responsible for its annual operations & maintenance (O&M)
- The RESCO gets the benefit by selling the surplus power generated to the DISCOM



Solar Power Plant

Source: www.bluebirdsolar.com

Energy Efficiency

Annual energy consumption of SVCET campus is from 1500kWA supply. There are major blocks in the campus which consumes energy for their operation. Major energy consumers are:

- 1. Fans
- 2. Air conditioners

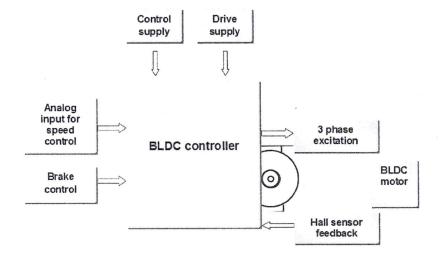
Replace conventional tube lights with LED lamps

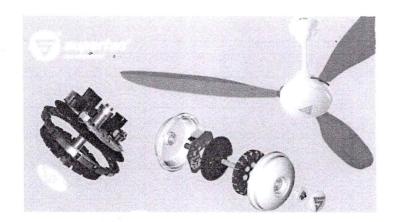
Replace Conventional Ceiling Fans with Energy Efficient BLDC Fans

During the Energy Audit at SVCET, a detailed study was carried out to identify the potential for replacing the existing ceiling fans with BLDC super fans. There is 11.2kW power consumption by fans operating in SVCET campus.

Instead of conventional ceiling fans, latest technology BLDC fans which consume only 30W can be installed in the newly constructed building. A brushless DC (BLDC) motor is a synchronous electric motor powered by direct-current (DC) electricity and having an electronic commutation system, rather than a mechanical commutator and brushes. A BLDC motor has an external armature called the stator, and an internal armature called the rotor.

The rotor can usually be a permanent magnet. Typical BLDC motor-based ceiling fan has much Letter efficiency and excellent constant RPM control as it operates out of fixed DC voltage. The proposed BLDC motor and the control electronics operate out of 24V DC through an SMPS having input AC which can vary from 90V to 270V. The operational block diagram of a BLDC motor is as follows:





With the replacement of existing ceiling fans with Super Fans the energy consumption is likely to reduce by 55% per fixture. Considering 100 fans being replaced with super-efficient BLDC fans, 3.50 kW can be saved. Considering the average operating hours to be 2000 and unit cost as Rs.

9.0, the calculations are as follows:

Total power consumption by fans in college:

11.2kW

No. of fans considered for calculation

100 (First cycle of change)

Energy consumption per fan

80 W

Total energy consumption of fans

80W X 100 fans

8 kW

super-efficient BLDC fans energy consumption:

30 W

Savings from 80W to 30 W

55%

Total savings in fans energy consumption

55% of 8kW

4.4 kW

Savings per year

4.4 kW x 2000 hrs X Rs. 9.0/unit

Rs. 0.792 Lakhs

Investment

Rs. 2, 50,000

38 months

Annual emission reduction potential in case of replacing 50% fans: 20MT CO2

Install Air conditioners energy saver for spilt air conditioners:

Present status: As per the data obtained from SVCET team, the campus has majorly 8 Ton of Refrigeration units installed.

Recommendation:

We recommend installing "Airtron", an energy saver that can be installed at every individual unit of AC. The Airtron is the world's most advanced AC SAVER, with all the controls of a Precision AC. The Airtron's dual sensors reference the Room and Coil & Ambient Temp, and uses complex, multiple algorithms in a "closed-loop circuit" to reduce the Compressor Run-Time, to ensure the high savings while maintaining and displaying the Set temperature accurately. The Airtron is Programmable for geographical location and climate and adapts automatically to changes in season and ambient conditions.

This unique device has been developed on Patent-Published technology and approved by leading MNC'S, PSU'S and Govt. Departments. The Airtron is validated by EESL (Energy Efficiency Services Ltd.), Ministry of Power, Government of India, for 44% savings. The Airtron has been validated on all AC's- Inverters, 5 Star, Splits, Multi-Splits, Packages, ducts, Windows, Cassettes from 1.0 - 20.0 TR, LG Itd, Videocon Ltd, Tata Communications, L&T, Nestle, Ashok Leyland etc. The AIRTRON comes with a Remote for setting the Room Temperature, and in a Non-Flammable Polycarbonate Enclosure, with SMPS Power Supply, to tolerate w ide Voltage and Current fluctuations, Surges, Spikes and Sags.

In our case, Airtron installation can reduce the energy consumption of each fixture by 15% on a conservative basis. For a total energy consumption, for air conditioners, as 20 units per hour, 3 units per hour can be saved. It is recommended to install Airtron energy saver in a phase wise manner preferably in the batches of 10 units.

Saving Calculation: Considering the operating hours to be 2000 and unit cost as Rs 9.0/-.

Monetary annual savings

Rs 45,000/-

Total investment

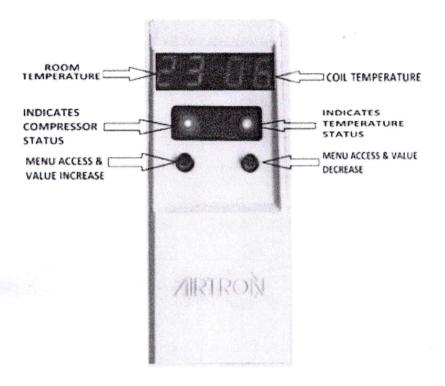
Rs 80,000/-

Payback period

22 months (2 years)

• Annual emission reduction potential:

4.92 MT CO2



Replace Conventional Lamps with LED Lamps

As per the data submitted, the total number of all the lighting bulbs & fixtures installed are

1. LED Tube Lights

0 Watts

2. LED bulbs

440 Watts

3. Lights

0 Watts

Under failure replacement policy, at least 130 lamps can be changed in the first year.

Types of fixtures	36W Tube
No of fixtures	130
No of hours in Operation	2000

The campus should be keen in harnessing the day lighting available thereby reducing the use of artificial lighting.

Based on the occupancy, monitoring should be ensured to reduce excessive consumption of energy.

Major savings in energy through lighting fixtures can be achieved by replacing all the above existing fixtures with LED's meeting the required LUX levels. The LED's being less energy consuming while maintaining the equivalent lux is the more sustainable option. The replacement of lighting fixtures should be done as per failure replacement policy i.e. change the old fixture with LED when it fails

Advantages of LED

• Lower energy consumption: The energy consumption of LEDs is low when compared to the other conventional sources for the same amount of Lumen output.

Performance comparison of different type lights

Type of Lamp	Lumen/Watt	CRI	Life hours
HPSV lamps	90-120	Bad (22-25)	15,000-20,000
Metal Halide lamps	65-100	Good (65-90)	18,000
LED lamps	100-150	Very Good (>80)	10,000-12,000

Conclusion

SVCET has initiated few energy efficiency activities in their campus. While REST Pvt Ltd appreciates the SVCET team for their efforts, we would like to emphasize that opportunity exists further reduce the energy consumption. Installation of renewable energy is to be given major focus. RESCO model can be adopted to install renewable energy without upfront capital investment. We in REST Pvt Ltdare sure that all the recommendations mentioned in the report will be implemented by SVCET teamand the overall environmental performance of the campus will be improved.

Calculations are as follows:

Existing Lighting fixtures	36W
Existing power consumption(kW)	4.5kW (130lamps)
Proposed LED wattage (W)	15
LED power consumption (kW)	1.95kW
Energy saving (kW)	2.55kW
Opearting hours	2000

Annual monetary savings

Rs 38,250/-

Investment needed

Rs 90,000/-

Payback period

2.5 years

Annual Emission reduction potential:

4.18MT of CO2.



This is to certify that

Sri Venkateswara College of Engineering & Technology

has successfully completed

ENVIRONMENTAL AUDIT

(WATER & WASTE MANAGEMENT)

The study was completed by Rekhapalli Environmental Solutions & Technologies Pvt Ltd

RAVIRAN

Dr Rekhapalli Srinivasa Rao

Green, Eco & Energy Lead Auditor Certified ISO-14001 Auditor













Issued by

@Rekhapalli Environmental Solutions & Technologies Pvt Ltd()

January 2022

SRI VENKATESWARA COLLEGE OF ENGINEERING & TECHNOLOGY

NH 16, ETCHERLA, SRIKAKULAM, ANDHRA PRADESH 532410



ENVIRONMENTAL AUDIT (WATER & WASTE MANAGEMENT)

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08 Water & Waste Management

09 Recommendations

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Acknowledgements

REST Pvt Ltd



Dr Rekhapalli Srinivasa RaoGreen, Eco & Energy Lead Auditor
Certified ISO-14001 Auditor

23 Jan 2022

Environmental Audit (Water & Waste Management)

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The interactions and deliberations with SVCET team were exemplary and the whole exercise was thoroughly a rewarding experience for us. We deeply appreciate the interest, enthusiasm, and commitment of SVCET team towards environmental sustainability.

We are sure that the recommendations presented in this report will be implemented and the SVCET team will be further improve their environmental performance.

Kind regards

Your sincerely

RAWRED

Dr Rekhapalli Srinivasa Rao

Green, Eco & Energy Lead Auditor Certified ISO-14001 Auditor REST Pvt Ltd

Executive Summary

The growth of countries across the world is leading to increased consumption of natural resources. There is an urgent need to establish environmental sustainability in every activity we do. In a modern economy, environmental sustainability will play a critical role in the very existence of an organization.

An educational institution is no different. Built environment, especially an educational institution, has a considerable footprint on the environment. Impact on the environment due to energy Consumption, water usage and waste generation in an educational institute is prominent. Therefore, there is an imminent need to reduce the overall environmental footprint of the institution.

As an Institution of higher learning, Sri Venkateswara College of Engineering and Technology (SVCET) firmly believes that there is an urgent need to address the environmental challenges and improve their environmental footprint.

True to its belief, SVCET has implemented rainwater harvesting in the campus. Continuing with rainwater harvesting, the college can also investigate the following recommendations:

- Attain water positive status: SVCET should focus on capturing the harvested rainwater to substitute freshwater consumption, work on sustainable groundwater beyond the fence and create a framework towards attaining water positive status over a period. Presently, SVCET is consuming nearly 1200 liters of fresh water per day. Since metering is not available, the water consumption is calculated rather than measure value. The first step is to increase the water conservation activities in the campus to reduce water consumption at source. The next step is to increase the rainwater harvesting capacity to completely offset the freshwater requirements of the plant. SVCET can also explore adopting lakes, desalting of ponds and restoration of water bodies in localities surrounding the campus. Water getting harvested in those structures can offset the freshwater consumption of the college.
- Install water efficient fixtures: The best way to conserve water is at the source. Therefore, SVCET will have to install water efficient fixtures to reduce water consumption. Some of the water efficient fixtures are:
 - Waterless urinals
 - Electronic taps (e-taps)
 - o Electronic flush urinals (e-flush)
 - o Foam taps
 - Spring loaded push taps
 - Low flush cistern
- Install sewage treatment plant / rootzone treatment: SVCET uses more than 1200 liters of fresh water per day. Considering that wastage of water is being let to drain without treatment, good opportunity exists to reduce freshwater consumption by treating the sewage water and using the

recycled water for gardening and flushing application. Install biogas plant and phytoremediation in series to recycle water and reduce freshwater consumption.

- Install water flow meters: Water flow meters are vital in understating the water consumption patterns of the campus. Presently, the water consumption is calculated rather than being measured. Water flow meters gives an accurate status if water consumption in the campus and from the water consumption values, the roadmap for water conservation activities can be prepared.
- Segregate waste at source: SVCET has provided bins for waste collection. SVCET must embark on awareness creation methods to increase the effectiveness of collection and provide more bins for proper waste segregation.
- Maintenance of waste management yard: The waste management yard is to be maintained just like raw materials storage room. Waste is nothing but a resource in wrong place. Therefore, by maintaining the waste management yard, quality of wastes can be maintained.

Environmental Audit

SVCET and REST are working together to identify opportunities for improvement in water management, and waste management. This report highlights all the potential proposals for improvement through the audit and analysis of the data provided by SVCET for water consumption and waste management. The report details the process conducted for the analysis such as on ground surveys performed for listing the type of water consumers with consumption per year, types of waste generated and disposal mechanisms.

Submission of Documents

Environmental audit at SVCET was carried out with the help data submitted by SVCET team. SVCET team was responsible for collecting all the necessary data and submitting the relevant documents to REST Pvt Ltd for the study.

Preliminary Study

After the receipt of documents, a desktop review of the data for quality check, followed by preliminary study was carried out by Sustainable Living Inc. In case of discrepancy/inadequacy/non-clarity of data, REST Pvt Ltd team got in touch with the SVCET team for clarification/additional information.

Environmental Audit

Data submitted and collected during the visit was used to assess the water and waste management practices of the campus and finally provide necessary recommendation for environmental improvement.

Note

Environmental audit is based on the data provided by SVCET team. The scope of the study does not include the exclusive verification of various regulatory requirements related to environmental sustainability.

REST Pvt Ltd has the right to recall the study, if it finds (a) major violation in meeting the environmental regulatory requirements by the location and (b) occurrence of major accidents, leading to significant damage to ecology and environment.

Water Conservation

To achieve a water positive status by continuous reduction of freshwater consumption should be the ultimate focus of SVCET. Increased and focused attention should be given to attain water sustainability in future by inculcating the discipline of water conservation.

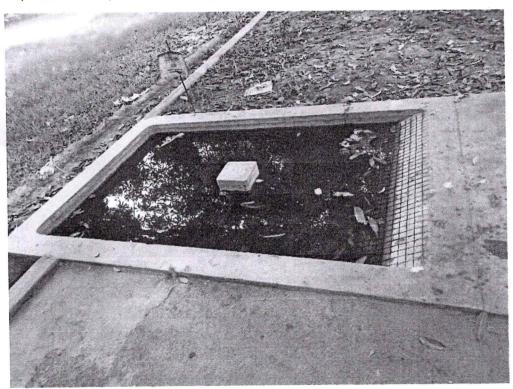
Fresh water consumption of SVCET :

1200 liters per day

Rainwater harvesting

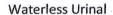
Carried out for roof area

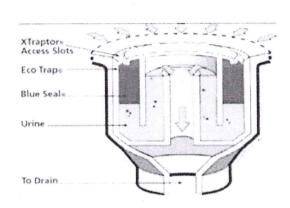
According to the report, 'Water in India: Situation & Prospects', India is the largest consumer of groundwater in the world with an estimated usage of 230 km³ per year. Approximately 60 per cent of the demand from agriculture and irrigation, and about 80 per cent of the domestic water demand, is met through groundwater. As per the Department of Drinking Water and Sanitation nearly 90 per cent of the rural water supply is from groundwater sources. This has led to an increased pressure on aquifers and the resulting hydrological imbalance.



Recommendations for water conservation

- 1) Waterless urinals: Waterless urinals look like regular urinals without a pipe for water intake. Men use them normally, but the urinals don't flush. Instead, they drain by gravity. Their outflow pipes conduits to a building's conventional plumbing system. In other words, unlike a composting toilet, which leaves you to deal with your waste, these urinals send the urine to a water treatment plant.
- a. Urine flows into the drain insert of the Eco Trap.
- b. Inside of the Eco Trap the urine moves through a floating layer of proprietary immiscible Blue Seal liquid, which creates a barrier, preventing sewer gases and urine odours from entering the restroom area.
- c. The urine below the Blue Seal barrier overspills into the central tube and travels down into the drain line.



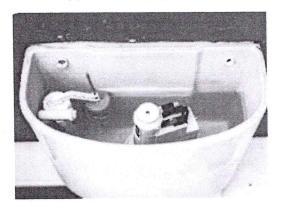


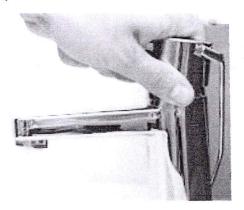
- d. Approximately 1500 sanitary uses are possible with just 3 ounces of Blue Seal. When the Blue Seal liquid is gone, it is simply replenished. This only takes about 20 seconds to perform and the Eco Trap is not touched.
- e. Urine sediments are retained within the Eco Trap. Replacement is easy and need only be done 2 to 4 times per year depending on traffic to the urinal. As tool called the X-Traptor must be used to remove the Eco Trap. The use of the special tool helps to minimize vandalism. The entire process of replacement only takes 3 to 4 minutes.



Waterless urinals are available for women. Indian manufacturers are supplying waterless urinals technology. Ekameco is one such company providing solution for women waterless urinals. You may visit www.ekameco.com and mail info@ekameco.com for more details on waterless urinals for women.

2) Volume reduction in flush tanks: One simple method is to add a one-liter equivalent water bottle in the flush tank thereby reducing its consumption majorly. One-liter savings in the tank will help to save approximately by 20% and doesn't require any investment.

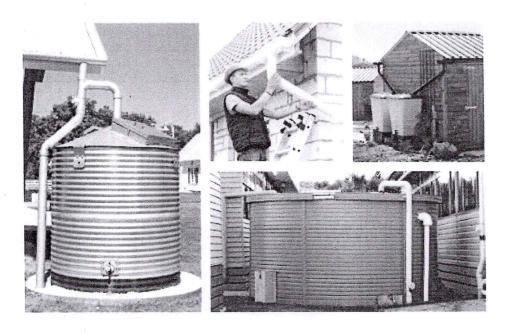




- 3) Rainwater harvesting: Water harvesting or more precisely rainwater harvesting is the technique of collection and storage of rainwater at surface or in subsurface aquifer, before it is lost as surface run off. In artificial recharge, the ground water reservoirs are recharged at a rate higher than natural conditions of replenishment. According to a report by the Central Groundwater Board published in 2007, the selection of a suitable technique for artificial recharge of ground water depends on various factors. They include:
- a) Quantum of non-committed surface runoff available
- b) Rainfall pattern
- c) Land use and vegetation
- c) Topography and terrain profile
- d) Soil type and soil depth
- e) Thickness of weathered / granular zones
- f) Hydrological and hydrogeological characteristics
- g) Socio-economic conditions and infrastructural facilities available
- h) Environmental and ecological impacts of artificial recharge scheme proposed

Rainwater Harvesting Techniques in Urban Area

In urban areas rainwater is available from roof tops of buildings, paved and unpaved areas. This water could be stored and used to replace freshwater as well as used for recharging the aquifer.



4) Display water balance/conservation status at entrance of all blocks for overall involvement of all students & staff.

It is suggested to display specific water consumption numbers in terms of domestic use at the entrance of each blocks to create awareness among all students and stakeholders visiting the facility. This daily/continuous awareness creation will ultimately help in reduction of water consumption by students.

Water Saving Gadgets

It is suggested to display specific water consumption numbers in terms of domestic use at the entrance of each block to create awareness among all students and stakeholders visiting the facility. This

Electronic Taps (e-taps)

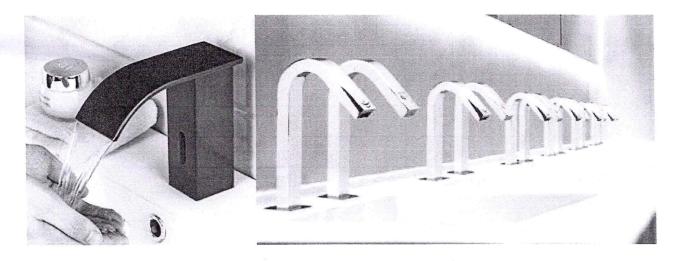
The latest trend in industries is to install electronic taps (e-taps). The advantages of using e-taps are as mentioned below:

• Unlike conventional taps, there is no twisting or turning in e-taps. They have a sensor, which cuts off water supply completely when not in use. This helps in saving up to 70% water during hand wash.

E-taps enable hands free operation. No fear of cross contamination or contact with germs. E taps score very high on hygiene. It is the most ideal choice for multipurpose and multi-user washrooms.

• E-taps can work efficiently up to raw water TDS of 1,800 ppm.

The touch free electronic taps, available in AC and DC models consume minimal power only. The AC model has an efficient battery back-up, while the DC model runs on just 4 alkaline batteries.



Operation of Electronic Taps

This has been successfully implemented in several hotels & restaurants. Of late, several industries have also started implementing this proposal. Thus, there is a good potential to optimize the Fresh water consumption by replacing the existing taps with e-taps.

Electronic flush (e-flush) urinals

*The latest trend in industries is to install e-flush urinals. The advantages of using e-flush urinals are as mentioned below:

- E-flush urinals are fitted with a sensor, which senses the usage and flush with water for few seconds after use. This helps in saving 70% water during urinal flush.
- E-flush urinals enable hands-free operation and score very high on hygiene. It is the most ideal choice for multipurpose and multi-user washrooms.
- E-flush urinals can work efficiently up to raw water TDS of 1,800 ppm.
- The touch free e-flush urinals available in AC and DC models consume minimal power only. The AC model has an efficient battery back-up, while the DC model runs on just 4 alkaline batteries.



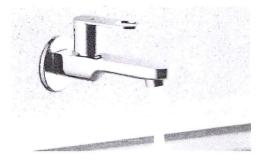
Electronic flush urinals

Hand wash

Foam taps

Conventional taps are used in the hand wash areas which results in wastage of large quantities of fresh water. Foam taps are a better fit in these high consumption areas. They consume 25-30% less water than conventional taps.

Foam taps



Spring loaded Push taps

Spring loaded push type tap is an alternate device for minimizing hand wash water. The spring-loaded push taps operate with the simple mechanism of pressing the knob for water. The knob is automatically released back to close position in 5-7 seconds. This saves about 30-40% of water compared to the conventional taps.

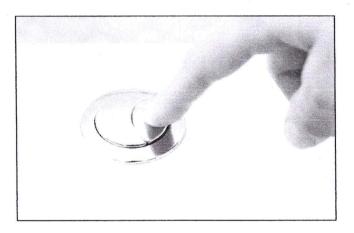
Spring loaded push taps



Low flush cistern

The latest model closets are water efficient and operate in dual mode, with a single flush releasing 2 litres of water and the dual flush releasing 4 litres per flush. This results in excellent water savings.

Low flush cisterns



Install sewage treatment plant - Rootzone treatment:

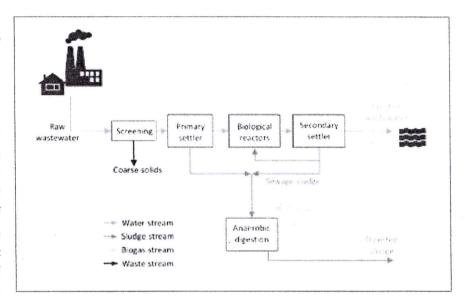
SVCET uses more than 1200 lt of fresh water per day. Considering minimum wastage of water is being let to drain without treatment, good opportunity exists to reduce freshwater consumption by treating the sewage water and using the recycled water for gardening and flushing application. Install biogas plant and phytoremediation in series to recycle water and reduce freshwater consumption. SVCET has not installed any biogas plant for generating biogas from canteen waste.

Presently, sewage water is being let out to the drain without treatment. An opportunity exists to generate biogas from the untreated sewage water and use the generated biogas to substitute LPG used (144cylinders/year) in the college.

Biogas Production Potential of Wastewater

The sewage water is a useful waster as 1% of it in any quantity is a sludge which when subjected to anaerobic digestion will produce biogas. Wastewater is the efluent from household, commercial establishments and institutions, hospitals, industries and so on. Sewage water source contains large amount of organic material which can be efficiently recovered in as sludge which and when subjected to anaerobic digestion, the sludge produces methane gas (biogas).

Biogas is a mixture of gases containing 50-75% Methane, and 25-50% Carbon dioxide while 0-10% Nitrogen, 0-3% Hydrogen disulphide and 0-2% Hydrogen may present as impurities which is produced by anaerobic digestion of organic material i.e. a sequential enzymatic breakdown biodegradable organic



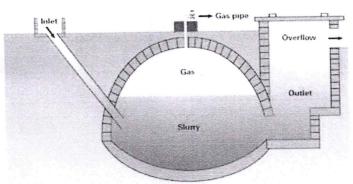
material (Biomass) in the absence of oxygen. The process is usually carried out in a digester tank known as biodigester. Biogas is an important energy source used as cooking gas, to generate electricity, etc. thus producing biogas from wastewater is an efficient and sustainable waste management and renewable energy technique. One of the major environmental problems of the world today is waste management and wastewater constitutes a huge environmental problem to the society thus the need for wastewater treatment to recover and also recycle the recovered water for usage.

The physical process: this is the mechanical treatment of the water that involves removal of debris from the raw wastewater right from the point it enters the plant. The screening and primary settling of debris. Wastewater enters the treatment plant through the inlet chamber from where it is channelled to the coarse screen that removes solid waste.

The biological process: this involve the biotreatment of the sewage in the bioreactors. It is the heart of the treatment plant where a biological process takes place. The bioreactors of a treatment plant are usually large tanks consisting of several mammoth rotors and submersible mixers. While the rotor introduces atmospheric oxygen into the sewage, the submersible mixers keep the biomass in suspension thus several reactions take place in the bioreactors.

From the bioreactor, the sewage enters the sedimentation tank. Here the biological process ends and sludge is separated from water such that the clean water is passed to the disinfection tank for disinfection and onward discharge for use while the sludge is removed by the returned activation sludge (RAS) pump that removes and sends part to the anaerobic digestion chamber while some e return to the anaerobic bioreactor for reactivation.

Production of biogas is an anaerobic digestion whereby microorganisms break down biodegradable material in the absence of oxygen to produce methane/carbon dioxide used to generate electricity and heat. Sludge from the treatment plant (primary and activated sludge) is the main feedstock (biodegradable organic matter) in the biogas production plant of a wastewater treatment plant and the biogas production process involves series of steps. The combine sludge resulting from primary and secondary water treatment is gathered, sieved and thickened to a dry solids content of up to 7% before entering the digesters. Optionally, the sludge can be pre-treated by disintegration technologies with the aim to improve the gas yield. In the anaerobic digestion process, the sludge is pumped into the anaerobic continuously stirred tank reactors where digestion takes place. In the process, microorganisms break down part of the organic matter that is contained in the sludge and produce biogas, which is composed of methane, carbon dioxide and trace gases. The raw biogas produced is dried and hydrogen sulphide and other trace substances removed and burned in burners after treatment. The digested sludge is dewatered, and the water reintroduce into the treatment plant while the remaining undigested matter used for organic fertilizer.



Rootzone treatment:

Root Zone' is a scientific term used to cover all the biological activity among different types of microbes, the roots of plants, water soil and the sun. It consists planted filter-beds containing ravel, sand and soil. The RZWT system utilises nature's way of biologically processing domestic & industrial efluents. This effective technology called Decentralised Wastewater Systems (DEWATS) was developed in 1970s in Germany and has been successfully implemented in different countries mainly in Europe and America.

The root zone wastewater treatment system makes use of biological and physical-treatment processes to remove pollutants from wastewater. Due to its natural process, there is no need to add any input such as chemicals, mechanical pumps or external energy. This reduces both the maintenance and energy costs.

- To accomplish this, the root zone wastewater treatment undertakes the following steps:
- Pre-treatment done in a Settler a device that separates the liquid from the solid First treatment takes place in a Anaerobic Bafled Reactor a device with several identical chambers through which the efluent moves from top to bottom.
- Second treatment happens in an Anaerobic Filter a device filled with a filter material (cinder), through which the efluent moves from top to bottom.

Third treatment takes place in a Planted Gravel Filter - a structure filled with gravel material and planted with water-resistant reed plants, which provide oxygen to the passing efluent.

The Root Zone Wastewater Treatment system takes into account the natural slope of the ground, so that water flows from one device to another without any ternal energy input such as motor pump. Once the reed plants create an established stand, usually after the first growing season, the reed bed requires little or no maintenance. The plant foliage will soon blend naturally into the landscape, ever changing with the seasons and creating a pleasing sight as well!



Install water flow meter:

Water flow meters are vital in understating the water consumption patterns of the campus. Presently, the water consumption is calculated rather than being measured. Water flow meters gives an accurate status if water consumption in the campus and from the water consumption values, the roadmap for water conservation activities can be prepared.

Water Meters would have many advantages:

- Encourage water conservation important given strain on water resources
- Encourage allocatively efficient distribution. People would consume to where the marginal
 cost = marginal utility

Conclusion

Environmental sustainability is a continuous process and there is always a scope for improvement. SVCET has displayed itself as an advocate of environmental sustainability by getting environmental audit carried out. The organization has implemented several initiatives and measures to enhance efficiency and to optimize resource intensity. The journey ahead in the path towards environmental excellence has immense scope for improvement as brought out by this report.

SVCET needs to focus and work on areas efficiency levels needs to be enhanced. For example: waste management. The observations and suggestions put forth by the report would help the facility in improving its environmental performance and pave way for ecologically sustainable growth.

This report may be taken as a guide and roadmap for achieving higher performance rating in environmental stewardship. As one of the pioneers and leaders SVCET shoulder the task of further 'learning-teaching-learning' to improve, excel, and continue the innovative efforts for success of their students and associates.



This is to certify that

Sri Venkateswara College of Engineering & Technology

has successfully completed

CARBON FOOTPRINT & ENERGY AUDIT

The study was completed by Rekhapalli Environmental Solutions & Technologies Pvt Ltd

Ravikav.

Dr Rekhapalli Srinivasa Rao

Green, Eco & Energy Lead Auditor Certified ISO-14001 Auditor













Issued by

(Rekhapalli Environmental Solutions & Technologies Pvt Ltd)

January 2022

SRI VENKATESWARA COLLEGE OF ENGINEERING & TECHNOLOGY

NH 16, ETCHERLA, SRIKAKULAM, ANDHRA PRADESH 532410



CARBON FOOTPRINT AND ENERGY AUDIT

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Acknowledgements

REST Pvt Ltd



Dr Rekhapalli Srinivasa RaoGreen, Eco & Energy Lead Auditor
Certified ISO-14001 Auditor

23 Jan 2022

Carbon Footprint & Energy Audit

The REST Pvt Ltd acknowledges with thanks the cooperation extended to our team for completing the study at Sri Venkateswara College of Engineering and Technology (SVCET).

The interactions and deliberations with SVCET team were exemplary and the whole exercise was thoroughly a rewarding experience for us. We deeply appreciate the interest, enthusiasm, and commitment of SVCET team towards environmental sustainability.

We are sure that the recommendations presented in this report will be implemented and the SVCET team will be further improve their environmental performance.

Kind regards

Your sincerely

Dr Rekhapalli Srinivasa Rao

RAVERON

Green, Eco & Energy Lead Auditor Certified ISO-14001 Auditor REST Pvt Ltd

Executive Summary

The growth of countries across the world is leading to increased consumption of natural resources. There is an urgent need to establish environmental sustainability in every activity we do. In a modern economy, environmental sustainability will play a critical role in the very existence of an organization.

An educational institution is no different. Built environment, especially an educational institution, has a considerable footprint on the environment. Impact on the environment due to energy consumption, water usage and waste generation in an educational institute is prominent. Therefore, there is an imminent need to reduce the overall environmental footprint of the institution.

As an Institution of higher learning, Sri Venkateswara College of Engineering and Technology (SVCET) firmly believes that there is an urgent need to address the environmental challenges and improve their environmental footprint.

True to its belief, SVCET has installed small quantity of solar powered panels and installed LED lights, REST Pvt Ltd team congratulates SVCET team for their efforts.

Keeping SVCET work in energy efficiency, we recommend the following to be taken by the competent team at SVCET:

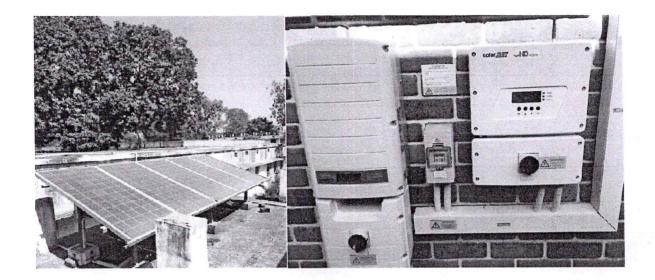
Work towards achieving carbon neutrality: NDC emphasizes creating an additional carbon sink of 2.5 to 3 billion tonnes of CO2 equivalent through additional forest and tree cover by 2030. SVCET's net carbon emission for the year 2021-22 is >50MT CO2e. SVCET should focus on energy efficiency, renewable energy, and carbon sequestration as tools that will enable them to offset the present carbon emissions and achieve carbon neutrality.

Installation of solar rooftop: Renewable energy plays a very important role in improving the environmental footprint of an organization. By increasing the share of renewable energy in SVCET's energy portfolio, the overall carbon footprint of the college can be reduced. The roof area available at SVCET is around 4984 sq.ft on roof top. For the available area, roof top occupied with 5 kWp of solar PV Installed. As an initial step, SVCET could look at installing 25kWp of solar PV which can generate 40,500 units per year. Still the renewable share will also reduce the 33 MT CO²e. For the current assessment year power consumption to reduce, roof top can be utilized for solar power toexpand.

Increase the operating power factor: Presently, based on the energy bills, it is understood that the institution maintains a power factor of 0.65. Since the institution pays electricity bills for the KVAH consumed, the lower the power factor, higher is the energy bill for the same KWH consumption. It is recommended to install capacitor banks to improve the power factor and save energy bill. SVCETcan save up to Rs. 20,000 per month.

Improve energy efficiency of the college: It is recommended to adopt latest energy efficient technologies for reducing energy consumption in fans, lighting, and air conditioners. We recommend the following projects to be implemented at the earliest:

- Replace conventional 80W ceiling fans with energy efficient BLDC fans of 30W
- Install air conditioners energy savers to save energy in split air conditioners
- Replace all conventional tube lights with LED lamps



Carbon Footprint and Energy Audit

Sri Venkateswara College of Pharmacy (SVCET) and REST Pvt Ltd are working together to identify opportunities for improvement in energy efficiency and carbon reduction. This report highlights all the potential proposals for improvement through the audit and analysis of the data provided by SVCET for lighting, air conditioning, ceiling fans, and biogas potential.

The report also details the carbon emissions from college operations. For carbon emissions, scope 1 and scope 2 emissions are calculated from the data submitted by SVCET. The report emphasizes the GHG emission reduction potential possible through a reduction in power consumption.

Submission of Documents

"Carbon footprint and energy audit at SVCET was carried out with the help of data submitted by SVCET team. SVCET team was responsible for collecting all the necessary data and submitting the relevant documents to REST Pvt Ltd for the study.

Note

Carbon footprint and energy audit are based on the data provided by SVCET team and discussions the REST Pvt Ltd team had with SVCET team. The scope of the study does not include the exclusive verification of various regulatory requirements related to environmental sustainability.

REST Pvt Ltd has the right to recall the study if it finds (a) major violation in meeting the environmental regulatory requirements by the location and (b) occurrence of major accidents, leading to significant damage to ecology and environment.

Opportunities for improvement

As a part of the overall environmental improvement study at SVCET, carbon footprint calculations were also carried out. The objective of calculating the carbon footprint of the campus is find the present level of emissions from campus operation and what initiatives that the SVCET can take to offset the emissions. By offsetting the emissions, the college can become carbon neutral in the future by adopting energy efficient processes, increase in renewable energy share and tree plantation.

Carbon footprint calculations:

To help delineate direct and indirect emission sources, improve transparency, and provide utility for different types of organizations and different types of climate policies and business goals, three "scopes" (scope 1, scope 2, and scope 3) are defined for GHG accounting and reporting purposes.

For calculating carbon footprint of the campus, Scope 1 & Scope 2 emissions are being considered. Since day scholars use college provided transportation and hostelers stay in campus, Scope 1 and Scope 2 are the highest contributor to overall emissions. For this reason, Scope 3 is not being calculated.

Scope 1: Direct GHG Emissions

Direct GHG emissions occur from sources that are owned or controlled by the company, for example, emissions from combustion in owned or controlled DG sets, canteen, vehicles, etc.; emissions from chemical production in owned or controlled process equipment. Direct CO2 emissions from the combustion of biomass shall not be included in scope 1 but reported separately.

SVCET Scope 1 emissions for 2021-22:

Sources of Scope 1 emissions in SVCET:

- 1) Diesel used for college-owned transportation: 50,000 liters/year
- 2) Diesel consumption for the generator for the assessment year 2021-22 is minimum (included in above consumption).

3) LPG used for canteen: 144cylinders/year

Scope 2: Electricity Indirect GHG Emissions

Scope 2 accounts for GHG emissions from the generation of purchased electricity consumed by a company. Purchased electricity is defined as electricity that is purchased or otherwise brought into

the organizational boundary of the company. Scope 2 emissions physically occur at the facility where electricity is generated.

SVCET Scope 2 emissions for 2022: Electricity purchased from grid.

Develop a roadmap to increase contribution of renewable energy in the overall energy consumption

To have a continued focus on increasing renewable energy utilization to 100% which will also lead to reduction in GHG emissions, it is suggested to develop a detailed roadmap on RE utilization. The road map should broadly feature the following aspects -

- Renewable energy potential of SVCET and the maximum offset that can be achieved at SVCET
- Percentage substitution with renewable energy that SVCET wants to achieve in a specified timeframe

Key tasks that need to be executed to achieve the renewable energy target

- Specific financial break up for each of the projects highlighting the amount required, available and the utilization status as on date
- A regular review mechanism to ensure progress along the lines of the roadmap should be framed
- The roadmap should also highlight important milestones/key tasks, anticipated bottle SVCET
 &proposed

Renewable energy roadmap should be used as a base to frame GHG emissions reduction target

It is suggested to use the developed renewable energy roadmap to correlate the GHG reduction that each of the renewable energy project will achieve. This approach will provide a base to set targets for reduction in GHG emissions. The action plan for renewable energy will shoulder the action plan for GHG emissions reduction and work towards achieving carbon neutrality.

Explore the option of other onsite and offsite renewable energy projects

The renewable energy field has been witnessing many private investors due its increased market demand and attractive policies in many states. There are Renewable Energy Independent Power Producers (RE IPPs) who have installed RE based power plants like wind, small hydro and solar PV. GOC can consider having a long-term power purchase agreement with these RE IPPs in purchasing fixed quantity of power for a period of 5 to 10 years.

"Evolve a system to monitor the implementation of various GHG mitigation opportunities SVCET has an action plan to reduce its GHG emissions. SVCET should also evolve a system to monitor the implementation of various GHG mitigation opportunities. It is recommended to use a Gantt chart to mark out the action plan for the activities and track its implementation. Gantt chart will serve as an excellent way to instantly monitor and comprehend all different tasks in one place which would ease tracking of implementation.

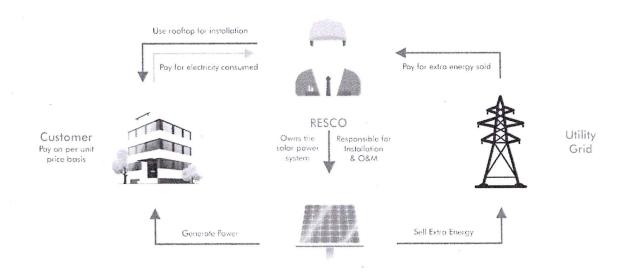
Calculation for Installation of 25 kWp of Solar PV in SVCET campus

Renewable energy is one of the important steps to be taken up by the college to reduce their overall carbon footprint. Based on the details provided by SVCET team, The roof area available at SVCET is around 4984 sq.ft on roof top. For the available area, roof top occupied with 5 kWp of solar PV Installed. As an initial step, SVCET could look at installing 25kWp of solar PV which can generate 40,500 units per year. However, for report calculation, only 25 kWp capacity is considered.

A renewable energy capacity of 25 kW of solar panel may be installed can generate 40,500 units of electricity per year. Additionally, 25 kWp of solar rooftop can offset 33 MT CO2e per annum. RESCO model for solar rooftop installation:

A Renewable Energy Service Company (RESCO) is an ESCO Energy service company which provides energy to the consumers from renewable energy sources. RESCO or BOOT model is about pay as Ju consume the electricity.

- Solar Power Plant is owned by the RESCO or Energy Company
- Customer must sign a Power purchase Agreement (PPA) with actual investor at mutually agreed tariff and tenure
- Customer only pays for electricity consumed
- RESCO developer is responsible for its annual operations & maintenance (O&M)
- The RESCO gets the benefit by selling the surplus power generated to the DISCOM



Solar Power Plant

Source: www.bluebirdsolar.com

Energy Efficiency

Annual energy consumption of SVCET campus is from 1500kWA supply. There are major blocks in the campus which consumes energy for their operation. Major energy consumers are:

- 1. Fans
- 2. Air conditioners

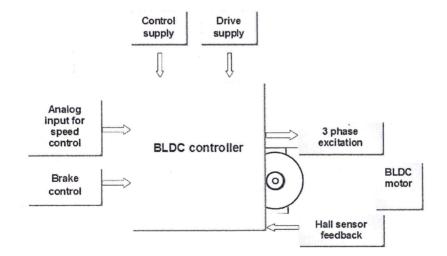
Replace conventional tube lights with LED lamps

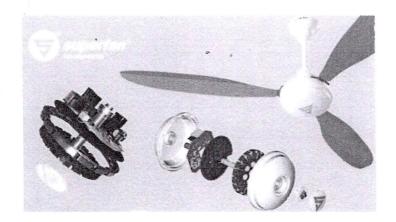
Replace Conventional Ceiling Fans with Energy Efficient BLDC Fans

During the Energy Audit at SVCET, a detailed study was carried out to identify the potential for replacing the existing ceiling fans with BLDC super fans. There is 11.2kW power consumption by fans operating in SVCET campus.

Instead of conventional ceiling fans, latest technology BLDC fans which consume only 30W can be installed in the newly constructed building. A brushless DC (BLDC) motor is a synchronous electric motor powered by direct-current (DC) electricity and having an electronic commutation system, rather than a mechanical commutator and brushes. A BLDC motor has an external armature called the stator, and an internal armature called the rotor.

The rotor can usually be a permanent magnet. Typical BLDC motor-based ceiling fan has much Letter efficiency and excellent constant RPM control as it operates out of fixed DC voltage. The proposed BLDC motor and the control electronics operate out of 24V DC through an SMPS having input AC which can vary from 90V to 270V. The operational block diagram of a BLDC motor is as follows:





With the replacement of existing ceiling fans with Super Fans the energy consumption is likely to reduce by 55% per fixture. Considering 100 fans being replaced with super-efficient BLDC fans, 3.50 kW can be saved. Considering the average operating hours to be 2000 and unit cost as Rs.

9.0, the calculations are as follows:

Total power consumption by fans in college:

11.2kW

No. of fans considered for calculation

100 (First cycle of change)

Energy consumption per fan

80 W

Total energy consumption of fans

80W X 100 fans

8 kW

super-efficient BLDC fans energy consumption:

30 W

Savings from 80W to 30 W

55%

Total savings in fans energy consumption

55% of 8kW

4.4 kW

Savings per year

4.4 kW x 2000 hrs X Rs. 9.0/unit

: Rs. 0.792 Lakhs

Investment

Rs. 2, 50,000

38 months

Annual emission reduction potential in case of replacing 50% fans: 20MT CO2

Install Air conditioners energy saver for spilt air conditioners:

Present status: As per the data obtained from SVCET team, the campus has majorly 8 Ton of Refrigeration units installed.

Recommendation:

We recommend installing "Airtron", an energy saver that can be installed at every individual unit of AC. The Airtron is the world's most advanced AC SAVER, with all the controls of a Precision AC. The Airtron's dual sensors reference the Room and Coil & Ambient Temp, and uses complex, multiple algorithms in a "closed-loop circuit" to reduce the Compressor Run-Time, to ensure the high savings while maintaining and displaying the Set temperature accurately. The Airtron is Programmable for geographical location and climate and adapts automatically to changes in season and ambient conditions.

This unique device has been developed on Patent-Published technology and approved by leading MNC'S, PSU'S and Govt. Departments. The Airtron is validated by EESL (Energy Efficiency Services Ltd.), Ministry of Power, Government of India, for 44% savings. The Airtron has been validated on all AC's- Inverters, 5 Star, Splits, Multi-Splits, Packages, ducts, Windows, Cassettes from 1.0 - 20.0 TR, LG Itd, Videocon Ltd, Tata Communications, L&T, Nestle, Ashok Leyland etc. The AIRTRON comes with a Remote for setting the Room Temperature, and in a Non-Flammable Polycarbonate Enclosure, with SMPS Power Supply, to tolerate w ide Voltage and Current fluctuations, Surges, Spikes and Sags.

In our case, Airtron installation can reduce the energy consumption of each fixture by 15% on a conservative basis. For a total energy consumption, for air conditioners, as 20 units per hour, 3 units per hour can be saved. It is recommended to install Airtron energy saver in a phase wise manner preferably in the batches of 10 units.

Saving Calculation: Considering the operating hours to be 2000 and unit cost as Rs 9.0/-.

Monetary annual savings

Rs 45,000/-

Total investment

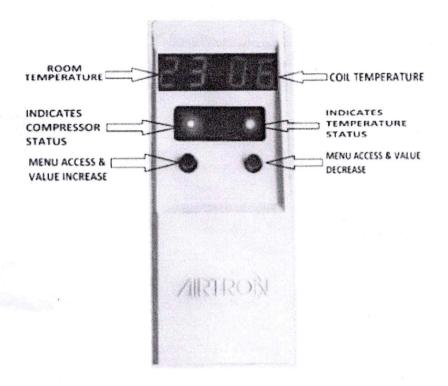
Rs 80,000/-

Payback period

22 months (2 years)

Annual emission reduction potential:

4.92 MT CO2



Replace Conventional Lamps with LED Lamps

As per the data submitted, the total number of all the lighting bulbs & fixtures installed are

1. LED Tube Lights

0 Watts

2. LED bulbs

440 Watts

3. Lights

0 Watts

Under failure replacement policy, at least 130 lamps can be changed in the first year.

Types of fixtures	36W Tube
No of fixtures	130
No of hours in Operation	2000

The campus should be keen in harnessing the day lighting available thereby reducing the use of artificial lighting.

Based on the occupancy, monitoring should be ensured to reduce excessive consumption of energy.

Major savings in energy through lighting fixtures can be achieved by replacing all the above existing fixtures with LED's meeting the required LUX levels. The LED's being less energy consuming while maintaining the equivalent lux is the more sustainable option. The replacement of lighting fixtures should be done as per failure replacement policy i.e. change the old fixture with LED when it fails

Advantages of LED

• Lower energy consumption: The energy consumption of LEDs is low when compared to the other conventional sources for the same amount of Lumen output.

Performance comparison of different type lights

Type of Lamp	Lumen/Watt	CRI	Life hours
HPSV lamps	90-120	Bad (22-25)	15,000-20,000
Metal Halide lamps	65-100	Good (65-90)	18,000
LED lamps	100-150	Very Good (>80)	10,000-12,000

Calculations are as follows:

Existing Lighting fixtures	36W
Existing power consumption(kW)	4.5kW (130lamps)
Proposed LED wattage (W)	15
LED power consumption (kW)	1.95kW
Energy saving (kW)	2.55kW
Opearting hours	2000

Annual monetary savings

Rs 38,250/-

Investment needed

Rs 90,000/-

Payback period

2.5 years

Annual Emission reduction potential:

4.18MT of CO2.

Conclusion

SVCET has initiated few energy efficiency activities in their campus. While REST Pvt Ltd appreciates the SVCET team for their efforts, we would like to emphasize that opportunity exists further reduce the energy consumption. Installation of renewable energy is to be given major focus. RESCO model can be adopted to install renewable energy without upfront capital investment. We in REST Pvt Ltdare sure that all the recommendations mentioned in the report will be implemented by SVCET teamand the overall environmental performance of the campus will be improved.