VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELAGAVI

3rd to 8th Semester BE- Electronics & Communication Scheme of Teaching and Examinations Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)

Service Community of French Strategies, St

PRINCIPAL Sri Sairam College Of Engineering Sai Leo Nagar, Guddanahalli Post, Anekal, Bengaluru - 562 106

	SEME	STER		the academic		hing Ho			F.xa	mination	-
SI. Ne		Course and Course Code	Course Title	Teaching Department	Theory	-	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks
		-		-	L	T	P	03	40	60	100
1	BSC	18MAT31	Transform Calculus, Fourier Series and Numerical Techniques	Mathematics	2	2		03	40	60	100
2	PCC	18EC32	Network Theory		3	2		03	40	60	100
>	PCC	18EC33	Electronic Devices		3	0	1	03	40	60	100
1	PCC	18EC34	Digital System Design		3	0		03	40	60	100
5	PCC	18EC35	Computer Organization & Architecture		3	0		03	40	60	100
	PCC	18EC36	Power Electronics & Instrumentation	-	3	0	2		40	60	100
	PCC	18ECL37	Electronic Devices & Instrumentation Laboratory			2	2	03	40	60	100
1	PCC	18ECL38	Digital System DesignLaboratory			2					
		18KVK39/49	Vyavaharika Kannada (Kannada for communication)/		_	2	-		100		
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)	нѕмс							100
ł	HSMC		OR		HIT			03	40	60	
	ISI	18CPC39/49	Constitution of India, Professional		Exami	nation i	s by obje	ective ty	pe ques	tions	
	-	1001 03/14/	Ethics and Cyber Law		17	10	- L	24	420	400	
				TOTAL	OR	OR	04	OR	OR	OR	900
				TOTAL	18	08		27	360	540	
e: F	SC: B	asic Science PC	C: Professional Core. HSMC: Humanity	and Social Science	, NCMC	: Non-c	redit ma	ndatory	course.		
VK	39Vva	vaharika Kannad	a (Kannada for communication) is for n	on-kannada speakin	ng, readin	ng and v	vriting st	udents a	and 18k	KAK39	Azdalit
nad	a (Kan	hada for Adminis	stration) is for students who speak, read								
		Course prese	ribed to lateral entry Diploma hol	ders admitted to	III Sen	icster .			10	10	100
N		8MATDIP31	Additional Mathematics - I courses Additional Mathematics I and I	Mathematics		01	-	03	40	60	100

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Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the course shall be mandatory for the award of degree.

MCTE Activity Points to be earned by students admitted to BE/B.Tech/B.Plan day college programme (For more details refer to tamper 6,AICTE Activity Point Programme, Model Internship Guidelines):

Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other Universities to fifth semester are required to earn 50 Activity Points from the year of entry to VII. The Activity Points can be can be sored over the years or entry to VII. The

The activities can be can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, minimum hours' requirement should be fulfilled. Activity Points (non-credit) have no effect on the case students fail to earn the prescribed activity Points. Elicity Points (non-credit) have no effect on the case students fail to earn the prescribed activity Points.

In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

	R	E (Common to all Program	nmes)	
			(OBE) and Choice Bas		BCS)
			SEMESTER - III	- ·	
	CONSTITUTION OF IND				AW (CPC)
Course C		18C	PC39/49	CIE Marks	40
Teaching	Hours/Week (L:T:P)	(1:0:	0)	SEE Marks	60
Credits		01		Exam Hours	02
Course l	Learning Objectives: To				
	now the fundamental politication				of Indian government
	nstitutions, fundamental right		· ·		
	Inderstand engineering ethic		their responsibilities; i	dentify their individu	ual roles and ethical
	esponsibilities towards society				
	Know about the cybercrimes a	and cy	ber laws for cyber safet	y measures.	
Module-					
	ction to Indian Constitution:				
	essity of the Constitution, The				
	onstitution, The Making of th				
	eatures of the Constitution of		Ū.		
	Situations. Directive Prince				
	with examples. Fundamental	Duties	s and its Scope and signi	ficance in Nation buil	ding.
Module-					
	xecutive and State Executive				
	ntary System, Federal System				
	abinet, Parliament - LS and F		•		
	Court of India, Judicial Revie				
	e e	High	Court and Subordina	te Courts, Special	Provisions (Articles
	371J) for some States.				
Module-			••		
	s, Amendments and Emerge				
	, Electoral Process, and Elec				
	ional Amendments (How as 2,42,44, 61, 73,74, ,75, 8				
	cy Provisions, types of Emerg			s and some impor	tant Case Studies.
-	tional special provisions:	genere	s and its consequences.		
	Provisions for SC and ST, OB	C We	men Children and Back	ward Classes	
Module-		c ,c	inicit, children und Duer		
	onal / Engineering Ethics:				
	Aims of Engineering & Pro	ofessio	onal Ethics - Business I	Ethics, Corporate Eth	ics. Personal Ethics.
	ing and Professionalism, Po			· •	
•	in the website of Institution		0	0	
	bility. Clash of Ethics, Cor				
Engineer	ing and Engineering Stand	lards,	the impediments to 1	Responsibility. Trust	and Reliability in
Engineer	ing, IPRs (Intellectual Proper	ty Rig	hts), Risks, Safety and li	ability in Engineering	
Module-					
	Laws, Cyber Crimes and C	•			
	and Need for Cyber Laws, N				
	, Types of Cyber Crimes, In			mes and the informa	tion Technology Act
	ernet Censorship. Cybercrime				
	Dutcomes: On completion of			ole to,	
	Have constitutional knowled	0	•		
	Understand Engineering and			Ū.	S.
	: Understand the the cybercrit		· · ·	safety measures.	
-	n paper pattern for SEE and				
	The SEE question paper will				-
	proportionately be reduced to				ive type (MCQ).
	For the award of 40 CIE marks	s, refe			
SI.	Title of the Book		Name of the	Name of the	Edition and Year
No.			Author/s	Publisher	

Textboo	k/s			
1	Constitution of India,	Shubham Singles,		2018
	Professional Ethics and Human	Charles E. Haries,	Cengage Learning	
	Rights	and et al	India	
2	Cyber Security and Cyber Laws	Alfred Basta and et	Cengage Learning	2018
		al	India	
Referen	ce Books			
3	Introduction to the	Durga Das Basu	Prentice – Hall,	2008.
	Constitution of India			
4	Engineering Ethics	M. Govindarajan, S.	Prentice –Hall,	2004
		Natarajan, V. S.		
		Senthilkumar		

Sector 1	SAIRAM	Citle : Lesson Plan						
	COLLEGE OF ENGINEERING	Format No. FR-019	Rev. No. 01	Issue Date: 15/04/2016				
Academic Year	: 2020-2021		Hours / Week	: 1				
Class	: ECE / II - Year /III SEM / A		Total Hours IA Mark	: 15 : 40				
Staff Name	: Savitha H.S		Exam Hours	: 2				
Course Name	: 18CPC39/49 - Constitution of India, Profession	nal Ethics and Cyber Law	Exam Marks Topic Type	: 100 : Module				

S.No	Proposed Date	Period	Module	Title of the Module	Planned Topics	coc	BTL	ICT/Activity	Text Book / References
1	27/08/2020	1	Module 1	Introduction to Indian Constitution	The Necessity of the Constitution, The Societies before and after the Constitution adoption	CO1	L1	РРТ	Text 1:Shubham Singles, Charles E. Haries, and Et al : "Constitution of India and Professional Ethics" by Cengage Learning India Private Limited, Latest Edition – 2018. Chapter 1
2	19/09/2020	1	Module 1	Introduction to Indian Constitution	Introduction to the Indian constitution, The making of the Indian Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the constitution of india.Fundamental Rights and its Restriction and limitations in different Complex Situations.	CO1	L1	PPT	Text 1:Chapter 2

S.No	Proposed Date	Period	Module	Title of the Module	Planned Topics	coc	BTL	ICT/Activity	Text Book / References
3	03/10/2020	3	Module 1	Introduction to Indian Constitution	Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.	CO1	L1	PPT/MCQ	Text 1:Chapter 3
4	24/10/2020	4	Module 2	Union Excutive and State Excutive	Parliamentary System, Federal System, Centre-State Relations.	CO2	L1	РРТ	Text 1:Chapter 11
5	06/11/2020	5	Module 2	Union Excutive and State Excutive	Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism	CO2	L1	PPT	Text 1:Chapter 11
6	06/11/2020	6	Module 2	Union Excutive and State Excutive	State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370.371,371J) for some States.	CO2	L1	PPT/MCQ	Text 1:Chapter 12
7	13/11/2020	5 N	Module 3	Elections, Amendments and Emergency Provisions	Elections, Electoral Process, and Election Commission of India, Election Laws.	СОЗ	L1	PPT	Text 1:Chapter 31
		-16							

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S.No	Proposed Date	Period	Module	T of the Module	Planned Topics	coc	BTL	ICT/Activity	Text Book / References
8	13/11/2020	6	Module 3	Elections, Amendments and Emergency Provisions	Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies.	СОЗ	L1	PPT	Text 1:Chapter 31
9	20/11/2020	5	Module 3	Elections, Amendments and Emergency Provisions	Emergency Provisions, types of Emergencies and it's consequences.Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.	CO3	L1	PPT/MCQ	Text 1:Chapter 31
10	20/11/2020	6	Module 4	Responsibilities in Engineering	Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics.	CO4	L1	РРТ	Text 1:Chapter 28
11	27/11/2020	5	Module 4	Responsibilities in Engineering	Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility.	CO4	L1	PPT	Text 1:Chapter 28

S.No	Proposed Date	Period	Module	Title of the Module	Planned Topics	coc	BTL	ICT/Activity	Text Book / References
12	27/11/2020	6	Module 4	Responsibilities in Engineering	Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering.	CO4	L1	PPT/MCQ	Text 1:Chapter 28
13	28/11/2020	4	Module 5	Internet Laws, Cyber Crimes and Cyber Laws	Internet and Need for Cyber Laws, Modes of Regulation of Internet, Types of cyber terror capability,	CO5	L1	PPT	Text 2:Alfred Basta and et al:" Cyber Security and Cyber Law"by Cengage Learning India Private Limited, Latest Edition – 2018. Chapter 1
14	04/11/2020	5	Module 5	Internet Laws, Cyber Crimes and Cyber Laws	Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship.	CO5	L1	PPT	Text 2:chapter1
15	12/12/2020	4 1	Module 5	Internet Laws, Cyber Crimes and Cyber Laws	Cybercrimes and enforcement agencies.	CO5	L1	PPT/MCQ	Text 2:chapter1

Faculty In-charge

Head of the Department

Principal





C	Title : Course Delivery Plan	
Format No	Rev No	Issue Date
FR-013	02	15/04/2016

Branch : ECE

Year : II - Year

Academic Year : 2020-2021

Sem / Sec : III SEM / A

S.No	Subject Code	Subject Title	Hours/ Week	Total Hours Required to Complete Subject	Total Work Load	Section	Faculty Allocated	Resourse Required	University Guidelines
1	18MAT31	Transform calculus, Fourier series and Numerical techniques	4	45	8	A	Gangavathi P	Black Board,LCD	4
2	18EC32	Network Theory	5	40	10	A	A.Poonguzhali	Plask Pass 11 00	
3	18EC33	Electronic Devices	3	40	6			Black Board,LCD	5
4	18EC34	Digital System Design	3		-	A	P.Gowri	Black Board, CKS, LCD	3
-	405005		5	40	6	A	Halesha H R	Black Board,Hands on Training	3
5	18EC35	Computer Organization & Architecture	3	40	6	А	Sivaprakash C	Black Board,Hands on Training,LCD	3
6	18EC36	Power Electronics & Instrumentation	3	40	6	А	RAJA.G.V.	Black Board, Hands on	3
7	18ECL37	Electronics Devices & Instrumentation Laboratory	4	40	4	A	A.Poonguzhali,RAJA.	Training CKS,Hands on Training	4
8	18ECL38	Digital System Design Laboratory	4	48	4		G.V. Halesha H R,Sivaprakash C,Aruna R	CKS,Hands on Training	4
9	18CPC39/49	Constitution of India, Professional Ethics and Cyber Law	1	15	2		Savitha H.S	Black Board	1

23/4/200

VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELAGAVI

3rd to 8th Semester BE- Electronics & Communication Scheme of Teaching and Examinations Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)

Service Community of French Strategies, St

PRINCIPAL Sri Sairam College Of Engineering Sai Leo Nagar, Guddanahalli Post, Anekal, Bengaluru - 562 106

V SE	MESTER		(Dirtrin)	the academic year		and the second					
						ning H Week	ours		Examin	12tion	_
SI. Course and No Course code			Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks
					L	Т	P	ц			
1	HSMC	18ES51	Technological Innovation Management And		3	0	-	03	40	60	100
			Entrepreneurship		3	2		03	40	60	100
2	PCC	18EC52	Digital Signal Processing					02	40	60	100
3	PCC	18EC53	Principles of Communication		3	2	_	03			
			Systems	-	3			03	40	60	100
4	PCC	18EC54	Information Theory & Coding		3			03	40	60	100
5	PCC	18EC55	Electromagnetic Waves		3			03	40	60	100
6 7	PCC PCC	18EC56 18ECL57	Verilog HDL Digital Signal Processing			2	2	03	40	60	100
			Laboratory			2	2	03	40	60	100
8	PCC	18ECL58	HDL Laboratory	Civil/ Environmental					10	(0)	100
9	нѕмс	18CTV59	Environmental Studies	[Paper setting: Civil Engineering Board]	1	-		02	40	60	100
				TOTAL	19	08	4	26	360	540	900

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

B. E. ELECTRICAL AND ELECTRONICS ENGINEERING Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V

		•	
	ENVIRONMENTAL	STUDIES	
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function Biodiversity: Types, Value; Hot-Deforestation.			
Module - 2			
Advances in Energy Systems (Me Tidal and Wind. Natural Resource Management (C Seeding, and Carbon Trading.			0
Module - 3			
Acts, Case-studies): Surface and Gro Waste Management & Public Hea Industrial and Municipal Sludge. Module - 4 Global Environmental Concerns Climate Change; Acid Rain; Ozone	Ith Aspects: Bio-medical (Concept, policies and Depletion; Radon and Flu	Wastes; Solid waste; Hazard case-studies):Ground water	ous wastes; E-waste depletion/rechargin
rehabilitation of people, Environmen	ntal Toxicology.		
Module - 5			
Latest Developments in Environn	nental Pollution Mitigati	on Tools (Concept and Ap	plications): G.I.S.
Remote Sensing, Environment I	impact Assessment, Env	vironmental Management	Systems, ISO1400
Environmental Stewardship- NGOs.			
Field work: Visit to an Environmen			
Waste water treatment Plant; ought t			documentation.
Course Outcomes: At the end of the			• • • • •
	ples of ecology and enviro	nmental issues that apply to a	ir, land, and water
issues on a global scale,	an and/an alta any sticn altil		nolucio of o nuchlou
CO2: Develop critical thinki or question related to the any	•	is, and apply them to the a	nalysis of a problen
 or question related to the env CO3: Demonstrate ecology 1 		elationship between biotic and	d abiotic componen
֥		d graph a problem and descri	-
managers face when dealing	6	d graph a problem and desen	be the realities that
Question paper pattern:	with complex issues.		
• The Question paper will hav	e 100 objective questions		
 Each question will be for 01 	÷ .		
Each question will be for orStudent will have to answer		R Sheet	
 Student will have to answer The Duration of Exam will b 			
	Name of the		Edition and
Sl. No. Title of the Book	Author/s	Name of the Publisher	Year
Textbook/s	1101/5		I UUI
	Denne I 1		
1 Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012

1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012					
2.	Environmental Studies	S M Prakash	Pristine Publishing House,	3 rd Edition [,] 2018					
			Mangalore						
3	Environmental Studies –	R Rajagopalan	Oxford Publisher	2005					
	From Crisis to Cure								
Reference	Reference Books								
1	Principals of Environmental	Raman Sivakumar	Cengage learning,	2 nd Edition, 2005					

	Science and Engineering		Singapur.	
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh& Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition

(A A	"CAIDARA	Title . Lesson Plan				
	SAIRAM COLLEGE OF ENGINEERING	Format No. FR-019	Rev. No. 01	Issue Date: 15/04/2016		
Academic Year	: 2020-2021	ment from the second	Hours / Week	: 1		
Class	: ECE / III - Year /V SEM / A		Total Hours IA Mark	: 15 : 40		
Staff Name	: E Charles		Exam Hours	: 2		
Course Name	: 18CIV59 - ENVIRONMENTAL STUDIES		Exam Marks Topic Type	: 100 : Module		

S.No	Proposed Date	Period	Module	Title of the Module	Planned Topics	coc	BTL	ICT/Activity	Text Book / References
1	09/02/2020	1	Module - 1	ECO SYSTEMS	Introduction: Environment - Components of Environment Ecosystem	CO1	L1,L2	Chalk & Talk, PPT	Book name:CH:1:1.3
2	09/09/2020	1	Module - 1	ECO SYSTEMS	Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & Social Security	CO1	L1,L2	Chalk & Talk, PPT	Book name:CH:2:2.1
3	16/09/2020	1	Module - 1	ECO SYSTEMS	Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation	CO1	L1,L2	Chalk & Talk, PPT	Book name:CH:2: 2.2.1, 2.2.2
4	30/09/2020	1	Module - 2	ADVANCES IN ENERGY SYSTEMS	Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases &water induced diseases	CO2	L1,L2	Chalk & Talk, PPT	Book name:CH:3:3.1,3.2
5	16/10/2020	4	Module - 2	ADVANCES IN ENERGY SYSTEMS	Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles Carbon Cyclo,	CO2	L1,L2	Chalk & Talk, PPT	Book name:CH:3:3.3, 3.4, 3.5

Nitrogen Cycle & Sulphur Cycle.

S.No	Proposed Date	Period	Module	Title of the Module	Planned Topics	coc	BTL	ICT/Activity	Text Book / References
6	23/10/2020	4	Module - 2	ADVANCES IN ENERGY SYSTEMS	Energy – Different types of energy, Conventional sources & Non Conventional sources of energy Solar energy,	CO2	L1,L2	Chalk & Talk, PPT	Book name:CH:3: 3.7, 3.7.2, 3.7.3, 3.7.4, 3.7.5
7	06/11/2020	4	Module - 3	ENVIRONMENTAL POLLUTION	Environmental Pollution – Water Pollution, Noise pollution	СОЗ	L1,L2	Chalk & Talk, PPT	Book name:CH:5:5.1
8	10/10/2020	4	Module - 3	ENVIRONMENTAL POLLUTION	Land Pollution, Public Health Aspects.	CO3	L1,L2	Chalk & Talk,	Book name:CH:5:5.2,
9	00/44/2222				Aspecia.			PPT	5.2.1, 5.2.2, 5.2.3, 5.2.4
9	06/11/2020	4	Module - 3	ENVIRONMENTAL POLLUTION	Global Environmental Issues: Population Growth,	CO3	L1,L2	Chalk & Talk, PPT	Book name:CH:5:5.2, 5.2.1, 5.2.2, 5.2.3, 5.2.4
10	07/11/2020	4	Module - 4	GLOBAL ENVIRONMENTAL CONCERNS	Solid Waste Management, E - Waste Management	CO4	L1,L2	Chalk & Talk, PPT	Book name:CH:10:10.1
11	13/11/2020	4 1	Module - 4	GLOBAL ENVIRONMENTAL CONCERNS	Biomedical Waste Management - Sources, Characteristics & Disposal methods	CO4	L1,L2	Chalk & Talk, PPT	Book name:CH:10:10.2
12	20/11/2020	4 N	Nodule - 4	GLOBAL ENVIRONMENTAL CONCERNS	Remote Sensing in Environmental Engineering Practices.	CO4	L1,L2	Chalk & Talk, PPT	Book name:CH:10:10.3, 10.4
13	27/11/2020	4 N	lodule - 5	LATEST DEVELOPMENTS IN ENVIRONMENTAL	Environmental Acts & Regulations, Role of government	CO5	L1,L2	Chalk & Talk, PPT	Book name:CH:10:10.1

S.No	Proposed Date	Period	Module	Title o 🕒 B Module	Planned Topics	Coc	BTL	ICT/Activity	Text Book / References
14	04/12/2020	4	Module - 5	LATEST DEVELOPMENTS IN ENVIRONMENTAL POLLUTION MITIGATAION TOOLS	Legal aspects, Role of Nongovernmental	CO5	L1,L2	Chalk & Talk, PPT	Book name:CH:10:10.2
15	11/12/2020	4	Module - 5	LATEST DEVELOPMENTS IN ENVIRONMENTAL	Organizations (NGOs) , Environmental Education & Women Education	CO5	L1,L2	Chalk & Talk, PPT	Book name:CH:10:10.3, 10.4

POLLUTION MITIGATAION TOOLS

Junturo 0 Faculty In-charge

Head of the Department

Principal Principal





Title :	Course	Delivery	/ Plan
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Format No	Rev No	Issue Date	
FR-013	02	15/04/2016	

Branch : ECE

Year : III - Year

Academic Year : 2020-2021

Sem / Sec : V SEM / A

S.No	Subject Code	Subject Title	Hours/ Week	Total Hours Required to Complete Subject	Total Work Load	Section	Faculty Allocated	Resourse Required	University Guidelines
1	18ES51	TECHNOLOGICAL INNOVATION MANAGEMENT AND ENTREPRENEURSHIP	3	40	6	A	V K Tivari	Black Board,LCD	3
2	18EC52	DIGITAL SIGNAL PROCESSING	5	40	10	A	R.DEEPA	Black Board,CKS,Hands on Training	5
3	18EC53	PRINCIPLES OF COMMUNICATION SYSTEMS	5	40	10	A	K.P. Linija Shylin	Black Board,LCD	5
4	18EC54	INFORMATION THEORY and CODING	3	40	6	A	Aruna R	Black Board,LCD	3
5	18EC55	ELECTROMAGNETIC WAVES	3	40	6	A	DV/annant		
6	18EC56	Verilog HDL	3	40	6		P.Venugopal	Black Board,LCD	3
7	17EC553	Operating System	3	40		A	Santosh Kumar N	Black Board,LCD	3
8	17ME563	Automation And Robotics	3		6	A	B.Srilatha	Black Board,LCD	3
9	18CIV59		3	40	6	A	A.Poonguzhali	Black Board,LCD	3
-		ENVIRONMENTAL STUDIES	1	15	2	A	E Charles	Black Board	1
10	18ECL57	DIGITAL SIGNAL PROCESSING LABORATORY	4	56	4	А	R.DEEPA,Savitha H.S	CKS,Hands on Training,LCD	4
11	18ECL58	HDL LABORATORY	4	52	4	A	V K Tivari, P. Gowri	CKS,Hands on Training	4

23/4/200

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Accredited by NAAC ISO 9001:2015 Certified Institution Approved by AICTE, New Delhi Affiliated to Visvesvaraya Technological University www.sairamce.edu.in

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



Suman Nandy, CISA, CISSP, ITIL (Foundation)



The Green Campus and Environmental Policy

Sairam 🕖



http://sairamce.edu.in/wpcontent/uploads/2021/05/Green-Campus-and-Environmental-Policy.pdf

Plastic Free Campus



http://sairamce.edu.in/wp-content/uploads/2019/10/Plastic-Free-Campus-Policy.pdf

Rain Water Harvesting System









Area available on Open Terrace : Around 8400 sq. ft. Capacity of Water tank connected with Rain Water Harvesting : 45000 Liters. Anekal has an average total accumulation of 5.0 inches rainfall in peak months

Rooftop Solar Plant



SAP070201



Increase substantially the share of renewable energy in the global energy mix Renewable energy share in the total final energy consumption

Capacity: 212 kWh

e-Waste Management

Reference-	SY/WEE/113/19-20	1	Date- 02/11/2019
M/s SRI	SAI RAM College of Engineering, Sai Leo Nag	gar,	
	ddanahalli (PO), Anekal, Bengaluru - 562 106.		
Apparel Park F	ity the receipt of E-waste Material for Destructions/Recyclin Insee 2, Deddaballipura Industrial Area, Bengaluru Rural Dis N RECEIPT OF E-WASTE MATERIAL:		re, Plat SW 17B,
SI.No.	Details of E-waste	Qty in Kg/Qtl	Destruction Date
1	ITEW – Desktop, Monitor, Keyboard, Mouse, Accessories etc.	575.54 Kgs.	31/10/2019
	THE COMPANY SRI SAI RAM COLLEGE OF E RECEIVED 1 LOT	INGINEERING	
DATE OF R	ECEIPT OF E-WASTE 16th October 2019		
TOTAL WE	GHT OF E-WASTE 575.54 Kgs.		
DESTROYE	D QUANTITY OF E-WASTE 575.54 Kgs.		
All the mater	ION No. OF RECYCLER: "PCB/WMD/2864/E-waste/2018 ial has been Dismantled and Destroyed as per the Cl Apparel Park Phase 2, Doddaballapura Industrial Area	PCB guidelines at o	our Facility Centre,
	horized Recycler with responsibility to follow all complia		
Thanking yo SOGO SYN			

Traditional / Medicinal Herbal Plants in the Campus

Name of the Tree	Numbers
Gul Mohar	33 Nos.
Coconut Trees	04 Nos.
Honge Trees	15 Nos.
Banyan Trees	03 Nos.
Peepal Trees	02 Nos.
Ashoka Tree	59 Nos
Sandal Wood	21 Nos.
Mahagoni	204 Nos.

Name of the Tree	Numbers
Maththi	212 Nos.
Neem	53 Nos.
Malabar Plum	108 Nos.
Thespesia Trees	57 Nos.
Silver Oak	25 Nos.
Jack Fruit	04 Nos.
Mangoes	06 Nos.
Drum Stick	22 Nos.

Green Environment in Campus





GREEN INITIATIVES IN AICTE - ACTIVITY POINTS









