K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU 560109
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR- 2022-23 (ODD SEMESTER)
CIRCULAR

This is to inform all 7ᵗʰ Semester students that the department is offering professional elective-2 in the respective subjects. You are informed to give the options for the mentioned subjects.

1.18EE731 Solar and Wind Energy
2.18EE732 Micro and Nano Scale Sensors and Transducers
3.18 EE733 Integrated of Distribution Generation.
4.18 EE734 Advanced Control Systems
5.18 EE735 Reactive Power Control in Electric Power Systems

SL. NO.	USN	Name of the Student	18EE731	18EE731	18EE733	18EE734	18EE735	Signature
1	1KG19EE001	ANUSH K C	✓					Anubu
2	1KG19EE002	DHANUSH SRINIVAS	✓					Dhanis
3	1KG19EE003	GOWTHAM R	✓					D
4	1KG19EE004	PRAJWAL V	✓					Prajwal.V
5	1KG19EE005	PRATHIK P SHIRALI	✓					Prathik
6	1KG19EE006	SANJAY P SWAMY	✓					Sony
7	1KG19EE007	SHARAN G	✓					@karan.G
8	1KG19EE008	SHARATH N	✓					Shra
9	1KG19EE009	SINGAMANENI PRAVEEN KUMAR	✓					S.Brn
10	1KG20EE400	ANAND M	✓					Anady
11	1KG20EE401	BHAVANA G	✓					Bhavana G
12	1KG20EE402	MANOJ N N	✓					Manoj.NN
13	1KG20EE403	NIROSHA G M	✓					Nirosha GM
14	1KG20EE404	SUHAS G S	✓					

Class Teacher

Head of the Department

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU 560109
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR- 2022-23 (ODD SEMESTER)
CIRCULAR

This is to inform all 7th Semester students that the department is offering professional elective-3 in the respective subjects. You are informed to give the options for the mentioned subjects.

1.18 EE741 Industrial Drives and Application
2.18 EE742 Utilization of Electrical Power
3.18 EE743 AI Techniques for Electrical and hybrid Electric Vehicles
4.18 EE744 Smart Grid
5.18 EE745 Artificial Neural Network With Applications to Power Systems

SL. NO.	USN	Name of the Student	18EE741	18EE742	18EE743	18EE744	18EE745	Signature
1	1KG19EE001	ANUSH K C			✓			
2	1KG19EE002	DHANUSH SRINIVAS			✓			
3	1KG19EE003	GOWTHAM R			✓			
4	1KG19EE004	PRAJWAL V			✓			Prajwal·V
5	1KG19EE005	PRATHIK P SHIRALI			✓			
6	1KG19EE006	SANJAY P SWAMY			✓			
7	1KG19EE007	SHARAN G			✓			Sharan G
8	1KG19EE008	SHARATH N			✓			
9	1KG19EE009	SINGAMANENI PRAVEEN KUMAR			✓			
10	1KG20EE400	ANAND M			✓			
11	1KG20EE401	BHAVANA G			✓			Bhavana G
12	1KG20EE402	MANOJ N N			✓			Manoj.N
13	1KG20EE403	NIROSHA G M			✓			Nirosha.GM
14	1KG20EE404	SUHAS G S			✓			

Class Teacher

Head of the Department

K. S. SCHOOL OF ENGINEERING AND MANAGEMENT - 560 062

CIRCULAR

Date: 15/07/2022

All the students are hereby informed that following are the open elective course offered by the departments for the semester 2022-23 Odd semester.

Department	Course offered		
	Subject code	Subject name	Faculty
Department of Civil Engineering	18CV753	Environmental protection and management	Dr Rashmi H R
Department of Mechanical Engineering	18ME751	Energy and Environment	Mr Prabhu K S
Department of Computer science	18CS752	Phython application programming	Mr Deepak M D Mrs Jayasubha J Mrs Nagaveni B Nimbal Mrs Nita Meshram
Department of Electronics and communication	18EC751	Communication theory	Dr Manu

Students are directed to register for any one of the above electives other than offered from the parent department. The registration should be done on or before 30 July 2022 in the parent department.

Syllabus is attached for further information
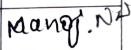
Principal
15/7/22
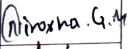
CC to:

CSE

ECE

Civil

Mechanical

K S SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU- 560 109
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
SESSION 2022-2023 ODD SEMESTER (7th semester)
Open Elective Course Opted

Class Teacher : Tejaswini G V / 7349472246 / tejaswini.gv@kssem.edu.in

SL.NO.	USN	STUDENT NAME	Mail Id	Contact No.	Elective Opted	Signature
1	1KG19EE001	ANUSH K C	anush123456thousand@gmail.com	8971585298	18CV753- Environmental Protection and Management	
2	1KG19EE002	DHANUSH SRINIVAS	dhanumanju08@gmail.com	9036777955	18CV753- Environmental Protection and Management	
3	1KG19EE003	GOWTHAM R	gouthujoys77@gmail.com	9986920237	18CV753- Environmental Protection and Management	
4	1KG19EE004	PRAJWAL V	prajwaldboss143@gmail.com	9632861186	**18CS752- Python Application Programming**	
5	1KG19EE005	PRATHIK P SHIRALI	prathikshirali@gmail.com	9900906325	18CV753- Environmental Protection and Management	
6	1KG19EE006	SANJAY P SWAMY	swamysanjay931@gmail.com	9448200629	18CV753- Environmental Protection and Management	
7	1KG19EE007	SHARAN G	mail2sharan21@gmail.com	8660920008	**18CS752- Python Application Programming**	
8	1KG19EE008	SHARATH N	sharathn1018@gmail.com	9740668577	18CV753- Environmental Protection and Management	
9	1KG19EE009	SINGAMANENI PRAVEEN KUMAR	singamanenipraveenkumar@gmail.com	7702257622	18CV753- Environmental Protection and Management	

10	1KG20EE400	ANAND M	sachinraina18@gmail.com	8904907488	18CV753- Environmental Protection and Management	
11	1KG20EE401	BHAVANA G	bhavanaraj0512@gmail.com	7795779724	18CV753- Environmental Protection and Management	Bhavana-G
12	1KG20EE402	MANOJ N N	manuelec1998@gmail.com	6366797946	18CV753- Environmental Protection and Management	Manoj.NN
13	1KG20EE403	NIROSHA G M	niroshagowda872@gmail.com	8553559971	18CV753- Environmental Protection and Management	Nirosha.G.M
14	1KG20EE404	SUHAS G S	suhas1998gowda@gmail.com	8660117825	18CV753- Environmental Protection and Management	

Signature of Class Teacher

Signature of HOD

PYTHON APPLICATION PROGRAMMING
(OPEN ELECTIVE)
(Effective from the academic year 2018 -2019)
SEMESTER – VI

Course Code	18CS752	IA Marks	40
Number of Lecture Hours/Week	3:0:0	Exam Marks	60
Total Number of Lecture Hours	40	Exam Hours	03

CREDITS – 03

Course Learning Objectives: This course (18CS752) will enable students to
- Learn Syntax and Semantics and create Functions in Python.
- Handle Strings and Files in Python.
- Understand Lists, Dictionaries and Regular expressions in Python.
- Implement Object Oriented Programming concepts in Python
- Build Web Services and introduction to Network and Database Programmingin Python.

Module – 1	Teaching Hours
Why should you learn to write programs, Variables, expressions and statements, Conditional execution, Functions **Textbook 1: Chapters 1 – 4** **RBT: L1, L2, L3**	08
Module – 2	
Iteration, Strings, Files **Textbook 1: Chapters 5– 7** **RBT: L1, L2, L3**	08
Module – 3	
Lists, Dictionaries, Tuples, Regular Expressions **Textbook 1: Chapters 8 - 11** **RBT: L1, L2, L3**	08
Module – 4	
Classes and objects, Classes and functions, Classes and methods **Textbook 2: Chapters 15 – 17** **RBT: L1, L2, L3**	08
Module – 5	
Networked programs, Using Web Services, Using databases and SQL **Textbook 1: Chapters 12– 13, 15** **RBT: L1, L2, L3**	08

Course Outcomes: After studying this course, students will be able to
- Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.
- Demonstrate proficiency in handling Strings and File Systems.
- Create, run and manipulate Python Programs using core data structures like Lists, Dictionaries and use Regular Expressions.
- Interpret the concepts of Object-Oriented Programming as used in Python.
- Implement exemplary applications related to Network Programming, Web Services and Databases in Python.

Question paper pattern:
- The question paper will have ten questions.
- Each full Question consisting of 20 marks

B. E. CIVIL ENGINEERING
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)
SEMESTER - VII
ENVIRONMENTAL PROTECTION AND MANAGEMENT

Course Code	18CV753	CIE Marks	40
Teaching Hours/Week(L:T:P)	(3:0:0)	SEE Marks	60
Credits	03	Exam Hours	03

Course Learning Objectives: This course will enable students to gain knowledge in Environmental protection and Management systems

Module -1
Environmental Management Standards: Unique Characteristics of Environmental Problems - Systems approach to Corporate environmental management - Classification of Environmental Impact Reduction Efforts - Business Charter for Sustainable Production and Consumption – Tools, Business strategy drivers and Barriers - Evolution of Environmental Stewardship. Environmental Management Principles - National policies on environment, abatement of pollution and conservation of resources - Charter on Corporate responsibility for Environmental protection.

Module -2
Environmental Management Objectives: Environmental quality objectives – Rationale of Environmental standards: Concentration and Mass standards, Effluent and stream standards, Emission and ambient standards, Minimum national standards, environmental performance evaluation: Indicators, benchmarking. Pollution control Vs Pollution Prevention - Opportunities and Barriers – Cleaner production and Clean technology, closing the loops, zero discharge technologies.

Module -3
Environmental Management System: EMAS, ISO 14000 - EMS as per ISO 14001– benefits and barriers of EMS – Concept of continual improvement and pollution prevention - environmental policy – initial environmental review – environmental aspect and impact analysis – legal and other requirements- objectives and targets – environmental management programs – structure and responsibility – training awareness and competence- communication – documentation and document control – operational control – monitoring and measurement – management review.

Module -4
Environmental Audit: Environmental management system audits as per ISO 19011- – Roles and qualifications of auditors - Environmental performance indicators and their evaluation – Non conformance – Corrective and preventive actions -compliance audits – waste audits and waste minimization planning – Environmental statement (form V) - Due diligence audit.

Module -5
Applications: Applications of EMS, Waste Audits and Pollution Prevention Control: Textile, Sugar, Pulp & Paper, Electroplating, , Tanning industry. Hazardous Wastes - Classification, characteristics Treatment and Disposal Methods, Transboundary movement, disposal.

Course outcomes: After studying this course, students will be able to:
1. Appreciate the elements of Corporate Environmental Management systems complying to international environmental management system standards.
2. Lead pollution prevention assessment team and implement waste minimization options.
3. Develop, Implement, maintain and Audit Environmental Management systems for Organizations.

Question paper pattern:
- The question paper will have ten full questions carrying equal marks.
- Each full question will be for 20 marks.
- There will be two full questions (with a maximum of four sub- questions) from each module.
- Each full question will have sub- question covering all the topics under a module.
- The students will have to answer five full questions, selecting one full question from each module.

Reference Books:
1. Christopher Sheldon and Mark Yoxon, "Installing Environmental management Systems – a step by step guide" Earthscan Publications Ltd, London, 1999.
2. ISO 14001/14004: Environmental management systems – Requirements and Guidelines – International