Harcourt Butler Technical University Kanpur

I Mid-Sem. Examination

Branch	1. Computer Science & Engineering 2. Information Technology	Program	B. Tech.
Course Name	Elective-III (Software Project Management)	Semester	VIII
Course Code	EIT-470	Year	2023-24
Time:	1:00 Hour	Maximum Marks	15

Knowledge Level (KL)	K1: Remembering	K3: Applying	K5: Evaluating
	K2: Understanding	K4: Analyzing	K6: Creating

Note:- Attempt all questions. Marks of every question are given against it.

Q. No.	Questions	Marks	COs	KL
1.	Discuss the Software Project Management Framework by drawing a pictorial diagram with its various components.	4	CO1	K2
2.	Define the following in context to Software Project Management (i) Statement of Work (SOW) (ii) Vision and Scope Document?	4	CO1	K1
3.	Draw Product as well as Process Work Breakdown Structure (WBS) for an INTRANET project.	4	CO2	K3
4.	Discuss Project Based Organization of Human resources alongwith its advantages and disadvantages.	3	CO2	K2

Course Outcomes	CO1	Understand various concepts of Software Project Planning and Management.
	CO2	Understand various techniques of Human Resource Organization and Develop schedule of software projects using PERT/CPM.
	CO3	Understand cost benefit analysis, risk management and techniques of monitoring & control of software projects.
	CO4	Use concepts of software quality assurance in the development of software projects.
	CO5	Assess the project to develop the scope of work, provide accurate size, cost, time and effort estimates for software projects.

Branch	All Branches except Chemical Engineering	Program		B. Tech
Course Name	Air Pollution Monitoring and Control	Semester		VIII
Course Code	OCH 492	Year		2023-24
Time: **1:00 Hr**	Answer ALL Questions	Maximum Marks		15

Knowledge Level (KL)	K1: Remembering	K3: Applying	K5: Evaluating
	K2: Understanding	K4: Analysing	K6: Creating

Note: 1. Attempt ALL questions.
2. All questions carry marks, as shown against them.

Q. No	Questions	Marks	COs	KL
1	Classify particulate air pollutants and discuss each of them in detail.	4	CO1	K1
2	What are the various oxides of nitrogen present in the atmosphere? How these nitrogen oxides are harmful to humans and plants?	3	CO1	K2
3	Write a note on green house effect and global warming.	3	CO1	K2
4	Discuss the various methods of sampling particulate air pollutants present in the atmosphere.	5	CO2	K3

Course Outcomes	CO1	Demonstrate comprehensive understanding of different types of air pollutants and various standards and acts regarding the air pollutants of global concern.
	CO2	Select proper sampling and analysis method for a specific gaseous or particulate air pollutant. Analyse plume behaviour and come up with a suitable stack design based on meteorological aspects of air pollution.
	CO3	Selection and design aspects of dry collectors for particulate emission control.
	CO4	Selection and design of wet collectors for control of particulate emission at source itself.
	CO5	Design absorption columns for control of gaseous pollutants and three-way catalytic converters for pollution control from automobiles.

HARCORT BULTER TECHNICAL UNIVERSITY, KANPUR

1st MID SEMESTER EXAMINATION 2023-24

Machine Learning (ECS-482)

Final (CSE+IT)

Time: 1 Hour   **Max. Marks: 15**

Note: Attempt All Questions.

1. Explain various Machine Learning techniques. How will you select an appropriate one for your problem? (5)

2. What is feature selection? Why is it needed? What are the different approaches of feature selection? (5)

3. What is classification and regression in a supervised learning? Explain any five examples of classification problems in detail. (5)

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	Kanpur			

Branch	FOOD TECHNOLOGY	Program	B.Tech
Course Name	Nutritional aspects of Natural & Processed Foods	Semester	VIII
Course Code	OFT 492	Year	2023-24
Time: 1.00 Hr	Answer All Questions	Maximum Marks	15
Knowledge Level (KL)	K1:Remembering	K3:Applying	K5:Evaluating
	K2.Understanding	K4:Analysing	K6:Creating

Note: Attempt all questions. All questions carry marks as shown.

Q. No	Questions	Marks	COs	KL
1	What do you understand by RDA? Mention the factor responsible for RDA.	4	1	2
2	What are the main nutrients in food? Enlist the classification of food by function	4	1	2
3	How does food processing affect nutrients and explain with example?	4	2	2
4	Explain the following: (i) Enrichment of foods (ii) Fortification (iii) Supplementation	3	2	2

Course Outcomes	CO1	Understand the basic concepts of food nutrition and RDI	K2
	CO2	Understand the digestion of nutrients in the human body	K2
	CO3	Formulate different diets	K2
	CO4	Calculate calorific value of food	K2
	CO5	Perform sensory analysis of food	K2