		tler Technical Ur Kanpur	iversity		MI SE	D M 2	
Branch	Engineering And Control Semester		All Branches except Chemical Engineering Air Pollution Monitoring and Control Semester		В.	B. Tech VIII	
Course Name					1		
Course Code	OCH 492	OCH 492		Year		2023-24	
Time: 1:00 Hr	Answer ALL Q	uestions	Maximum	Marks		15	
	K1: Remembering	K3: Applying	K5: Evaluating		ting		
Knowledge Level (KL)	K2: Understanding	K4: Analysing	K6: Creatin	: Creating			
Note: 1. Attempt 2. All quest	ALL questions. ions carry marks, as shown agains	t them.					
Q. No	Questions				COs	KL	
What are the various meteorological factors responsible for atmospheric condition? How are they useful in describing the atmospheric stability? Discuss it for each and every condition of the atmosphere.			ric 5 ty?	CO2	K2		
e How ca	How can the pollution level from any industry be reduced at its source itself? Discuss it in detail.			rce 5	CO3	K4	
	Write a note on wet cyclone separators for controlling particulate air pollutants.				CO4	K3	

	CO1	Demonstrate comprehensive understanding of different types of air pollutants and various standards and acts regarding the air pollutants of global concern.
Course	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.
Outcomes	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.

	Harcourt Butle	er Technical Unive Kanpur	rsity				
						MID EM	
Branch	FOOD TECHNOL	OGY	Progr	am			
Course Name	Nutritional aspects of Natura	d & Processed Foods			B.T	B.Tech	
Course Code	OFT 492		Semeste		VIII		
Time: 1.00 Hr	Answer All Quest	Answer All Questions		Year		23-24	
Knowledge		1		num Marks	17 2 2 1 1	15	
Level (KL)	- Applying			K5:Evaluating K6:Creating		3	
	K2:Understanding	g K4:Analysing					
Note: Atten	pt all questions. All questions carry ma	arks as shown.					
Q. No	Questions			Marks	COs	KL	
1 What is	hat is Glycolysis? Explain various steps involved in this pathways.			4	3	2	
2 Explain	clearly the digestion and absorption of	arly the digestion and absorption of fats in human nutrition			3	2	
3 exampl	example.				3	2	
4 Explair (iii) Fu	Explain the following: (i) Therapeutic diet (ii) Nutraceuticals (iii) Functional foods				4	2	

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

Harcourt Butler Technical University, Kanpur

IInd MIDSEM EXAMINATION 2023-24

Machine Learning (ECS-482)

Final (CSE+IT)

Time: 1 H	Iour Max. Marks: 15	
Note: Atte	empt all Questions.	
4.	What is generalization? What role does it play in the process of Machine	
	Learning?	(5)
5.	Explain SVM mathematically.	(5)
6.	Explain the following:	(5)
iii)	VC Dimensions	
iv)	Nearest Neighbours Classification	

Harcourt Butler Technical University				niversity	rsity		II Mid-Sem. Examination		
Branch		1. Computer Science & Engineering 2. Information Technology			В	. Tech.			
Course	of State In comment descriptions, from an	Elect	ive-III (Software Proj	ect Management)	Semester		V	111	
Course	Code		EIT-470		Year			2023-24	
Time	The same transfer		1:00 Hour	· A special section is	Maximur	n Marks		15	
Knowle Level (1		-	Remembering	K3: Applying		K5: Evaluati	ng		
Lever	(L)	K2:	Understanding	K4: Analyzing		K6: Creating			
Note:	Attem	pt all q	uestions. Marks of ev		n against i	t.	7		
Q. No.			Quest			Marks	COs	KL	
	Define	the fol	lowing Earn Value Mor		· S		003		
1.	(i)	Cost I	Performance Index (CP)	nitoring (2 + m) meare	.5	4	COZ	1/2	
	(ii)	ii) To Complete Perform Index (TCPI)				4	CO3	K2	
	Define	the fol	lowing in context to sel	peduling of a Software	Project				
2.	(i)	Slack/	Float	neddiing of a Boltware	rioject				
	(ii)	(ii) Lead/Lag time				4	CO2	KI	
	Consi	der the	following Network d	iagram drawn as per	Activity o	n	Se man Live Di	41 - 11 - 11	
3.	analys Start	sis to fi	of format. Numbers over nding activities. Performed out critical path in the second of the second out	orm forward and bac ne network.	kward pas	of sss	CO2	КЗ	
4.	Discu	ss Earn	Value Analysis and va	13/12/01/20/20/20/20/20/20/20/20/20/20/20/20/20/		3	CO3	K2	
		COI	Understand various con-	cepts of Software Project P	lanning and l	Management.		L'are d'area	
		Understand various techniques of Human Resource Organization and Develop schedule of software projects using PERT/CPM.							
Course Outcomes		CO3 Understand cost benefit analysis, risk management and techniques of monitoring & control of software projects.						ol of	
	mes	Use concepts of software quality assurance in the development of software projects.							
	-	-		velop the scope of work, pr					