No. SEM-II /PS/M&H/KITS/2025

Date: 27/01/2025

CIRCULAR

Sub: IL Semester -Allotment of Practicum topics– Reg.

Allotment of Practicum topics to students

Section: **2ECIE**

S. No.	Roll number of the student	Practicum topic allotted	Practicum under the course	Course faculty
1	B24CI001	Synthesis of Metal-Organic Frameworks (MOFs) for Gas Storage	U24CY202B EC	Dr.E.Kalyan Rao
2	B24CI002	Integration of Liquid Chromatography with Mass Spectrometry for Enhanced Analytical Accuracy"	U24CY202B EC	Dr.E.Kalyan Rao
3	B24CI003	Analyzing the Impact of Temperature and Flow Rate on Chromatographic Separation"	U24CY202B EC	Dr.E.Kalyan Rao
4	B24CI004	Influence of Surface Preparation on Electroplating Adhesion Strength	U24CY202B EC	Dr.E.Kalyan Rao
5	B24CI005	3D Printing and Electroplating: A Synergistic Approach to Advanced Manufacturing	U24CY202B EC	Dr.E.Kalyan Rao
6	B24CI006	Catalyst Development for Industrial Hydrogenation Reactions	U24CY202B EC	Dr.E.Kalyan Rao
7	B24CI007	Validation of Analytical Methods in UV-Visible Spectroscopy for Laboratory Applications"	U24CY202B EC	Dr.E.Kalyan Rao
8	B24CI008	Colorimetric Determination of Transition Metal Complexes via UV-Visible Spectroscopy	U24CY202B EC	Dr.E.Kalyan Rao
9	B24CI009	Detection and Quantification of Pharmaceuticals in Solution via UV-Vis Spectroscopy	U24CY202B EC	Dr.E.Kalyan Rao
10	B24CI010	Kinetics and Mechanism of Neutralization Reactions Observed via Conductometric Titration	U24CY202B EC	Dr.E.Kalyan Rao
11	B24CI011	Understanding Ion Migration and Conductance in Salt Formation through Conductometric Titrations"	U24CY202B EC	Dr.E. Kalyan Rao

12	B24CI012	Analysis of Water Hardness Through Potentiometric EDTA Titration	U24CY202B EC	Dr.E. Kalyan Rao
13	B24CI013	Nanotechnology in Electroplating: Enhancing Wear Resistance through Nano-Composite Coatings"	U24CY202B EC	Dr.E. Kalyan Rao
14	B24CI014	Automatic Night Light	U24CI203 AE	Mr.B. Venumaheswar Rao
15	B24CI015	Smart Dustbin with Ultrasonic Sensor	U24CI203 AE	Mr.B. Venumaheswar Rao
16	B24CI016	Automatic Plant Watering System	U24CI203 AE	
17	B24CI017	Obstacle Avoidance Robot	U24CI203 AE	Mr.B. Venumaheswar Rao
18	B24CI018	Motion-Activated Security Alarm	U24CI203 AE	
19	B24CI019	RFID-Based Door Lock System	U24CI203 AE	Mr.B. Venumaheswar Rao
20	B24CI020	Smart Home Lighting System	U24CI203 AE	
21	B24CI021	Automatic Hand Sanitizer Dispenser	U24CI203 AE	Mr.B. Venumaheswar Rao
22	B24CI022	Water Level Indicator	U24CI203 AE	
23	B24CI023	Smart Doorbell with Light Indicator	U24CI203 AE	Mr.B. Venumaheswar Rao
24	B24CI024	Simple Traffic Light Controller	U24CI203 AE	
25	B24CI025	Gas Leakage Detector	U24CI203 AE	Mr.B. Venumaheswar Rao
26	B24CI026	Digital Dice Using Arduino	U24CI203 AE	
27	B24CI027	Online Voting System: Implement a simple online voting system which offers the following functions using data structures: Taking a Vote from the User Storing Different Votes Calculating Votes Declaring Results	U24CI204 DS	Dr. K. Srinivas
28	B24CI028	Flight Reservation System: Develop a flight reservation system using queues to manage booking requests.	U24CI204 DS	Dr. K. Srinivas
29	B24CI029	Elevator Control System: Design an elevator control system using priority queues to manage elevator requests.	U24CI204 DS	Dr. K. Srinivas
30	B24CI030	Phonebook Application: Develop a phonebook application where users can store contacts, search for contacts by	U24CI204 DS	Dr. K. Srinivas

		name, and update contact information. Utilize data structures such as arrays or hash tables to efficiently store and retrieve contact details.		
31	B24CI031	Calendar Scheduler: Design a calendar application using priority queues to schedule events based on their urgency.	U24CI204 DS	Dr. K. Srinivas
32	B24CI032	Food delivery system: Build a "food delivery system", to manage and maintain its customer's details and orders for online food delivery. The project consists of four functions which are displayed as choices to the management. The functions are as follows: To take orders To deliver orders To view next order To view pending orders to be delivered	U24CI204 DS	Dr. K. Srinivas
33	B24CI033	Library management system: Design a library management system that handles book borrow and return actions using stacks and queues.	U24CI204 DS	Dr. K. Srinivas
34	B24CI034	Employee Management System: Build an employee management system using linked lists to store employee records.	U24CI204 DS	Dr. K. Srinivas
35	B24CI035	Restaurant booking system: A simple restaurant booking system which demonstrates how to manage customer bookings using a queue data structure is to be developed. The system allows users to input customer details such as name and the number of people in the booking. Add bookings with customer name, booking time, and party size. Process bookings in a first-come, first-served order. Display the current list of bookings in the queue.	U24CI204 DS	Dr. K. Srinivas
36	B24CI036	Student accommodation management system: In this project a student accommodation management system is to be developed using a hash-based data structure to store and manage student records, with a focus on the branch-wise distribution of students. It calculates NCGPA for students and helps in room allotment during counselling.	U24CI204 DS	Dr. K. Srinivas
37	B24CI037	Tic tac toe game: The tic-tac-toe game is played on a 3x3 grid the game is played	U24CI204	Dr. K. Srinivas

		by two players, who take turns. The first player marks move with a circle, the second with a cross. The player who has formed a horizontal, vertical, or diagonal sequence of three marks wins. Your program should draw the game board, ask the user for the coordinates of the next mark, change the players after every successful move, and pronounce the winner.	DS	
38	B24CI038	To-do list App: This is a kind of application that generally used to maintain our day-to-day tasks or list everything that we have to do, with the most important tasks at the top of the list, and the least important tasks at the bottom. It is helpful in planning our daily schedules. We can add more tasks at any time and delete a task that is completed. Features: In this To-do list App, the user will be getting four options: • Create (add) a new task or adding a new To-do in the To-do List App. • See all the tasks or view all the To-dos that were added to the app. • Delete any To-do from the list of To-dos. • Exit from the app.	U24CI204 DS	Dr. K. Srinivas
39	B24CI039	Music Playlist: Create a music playlist project using doubly linked lists. Each node would represent a music track. The data part of the node can represent the information of the track, for example, the title, artist, etc. The previous part of the node can represent the previous track and the next part of the node can represent the next track in the list.	U24CI204 DS	Dr. K. Srinivas
40	B24CI040	Technical English: Vocabulary for Engineering, Science, and Technology	U24MH205 ECRW	Ms. Veena Raj Teegala
41	B24CI041	From Distraction to Focus: Minimizing Interference to Enhance Reading Speed and Comprehension"	U24MH205 ECRW	Ms. Veena Raj Teegala
42	B24CI042	Real independence Heros: A depiction of sacrificing personal life of Subash Chandra Bose and Bhagat Singh	U24MH205 ECRW	Ms. Veena Raj Teegala

43	B24CI043	Festivals as Cultural Pillars: The Dual Role of Tradition Preservation and Mental Health Support.	U24MH205 ECRW	Ms. Veena Raj Teegala
44	B24CI044	Analysis of the poem Ulysses: a reflection on the human drive for exploration, self-improvement, and the desire to never stop pursuing one's passions	U24MH205 ECRW	Ms. Veena Raj Teegala
45	B24CI045	Sudha Murthy's Representation of Indian Family Dynamics: An Analysis of 'The Day I Stopped Drinking Milk'	U24MH205 ECRW	Ms. Veena Raj Teegala
46	B24CI046	Victory Against All Odds: Story of Success and Resilience of Abraham Lincon	U24MH205 ECRW	Ms. Veena Raj Teegala
47	B24CI047	Comprehensive exploration of 'Sagara Sangamam' as artistic passion, sacrifice, and personal conflict.	U24MH205 ECRW	Ms. Veena Raj Teegala
48	B24CI048	Napoleon's Ambition: The Role of Determination in His Rise to Power	U24MH205 ECRW	Ms. Veena Raj Teegala
49	B24CI049	"Never do things on force" A Proven Fact in R.K Narayan's short story "The Judge"	U24MH205 ECRW	Ms. Veena Raj Teegala
50	B24CI050	Script to Screen: The Process of Writing Subtitles for Films.	U24MH205 ECRW	Ms. Veena Raj Teegala
51	B24CI051	The Enduring Power of Idioms in Language and Communication	U24MH205 ECRW	Ms. Veena Raj Teegala
52	B24CI052	Translate any two Tenali Ramakrishna stories	U24MH205 ECRW	Ms. Veena Raj Teegala
53	B24CI053	Rank of Matrix and Applications to Communication and Instrumentation Engineering.	U24MH201 MTVC	Dr.K. Shivashanker
54	B24CI054	Eigenvalues and Eigenvectors and Applications to Communication and Instrumentation Engineering.	U24MH201 MTVC	Dr.K. Shivashanker
55	B24CI055	Cayley-Hamilton Theorem and Applications to Communication and Instrumentation Engineering.	U24MH201 MTVC	Dr.K. Shivashanker
56	B24CI056	Matrix Theory and Engineering applications	U24MH201 MTVC	Dr.K. Shivashanker
57	B24CI057	Double integrals and applications to instrumentation engineering.	U24MH201 MTVC	Dr.K. Shivashanker
58	B24CI058	Triple integrals and applications to instrumentation engineering.	U24MH201 MTVC	Dr.K. Shivashanker
59	B24CI059	Gradient and Applications to Communication and Instrumentation Engineering.	U24MH201 MTVC	Dr.K. Shivashanker

60	B24CI060	Divergence and Applications to Communication and Instrumentation Engineering.	U24MH201 MTVC	Dr.K. Shivashanker
61	B24CI061	Curl and Applications to Communication and Instrumentation Engineering.	U24MH201 MTVC	Dr.K. Shivashanker
62	B24CI062	Directional Derivative and Applications to Communication and Instrumentation Engineering.	U24MH201 MTVC	Dr.K. Shivashanker
63	B23CI030	Irrotational Fields and Applications to Communication and Instrumentation Engineering.	U24MH201 MTVC	Dr.K. Shivashanker
64	B23CI038	Solenoidal fields and Applications to Communication and Instrumentation Engineering.	U24MH201 MTVC	Dr.K. Shivashanker
65	B23CI052	Vector Differential Calculus and Engineering applications.	U24MH201 MTVC	Dr.K. Shivashanker

Note:

1. The students should meet immediately the allotted course faculty for practicum and start working on the practicum with the guidance of course faculty.

2. To complete the Practicum, the student shall work in laboratories under supervision of allotted course faculty, in the allotted hours in the classwork timetable and also outside the class work hours during weekdays.

3. The course faculty are advised to guide the allotted students for practicum during the semester course work.

(Signature of class teacher)

(Veena Raj Pregala)

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