

CIRCULAR

Sub: II Semester – Allotment of Practicum topics–Reg.

Allotment of Practicum topics to students

Section: 2CSE4

S.No.	Roll number of the student	Practicum topic allotted	Practicum under the course	Course faculty
1.	B24CS193	Determination of pH of strong and weak acids and bases: Use pH meters and pH indicators to determine the pH of various acid and base solutions.	EC	Dr. M. Ranadheer Kumar
2.	B24CS194	Electrochemical cells: Construct and measure the potential of simple electrochemical cells, such as the Daniel cell.	EC	Dr. M. Ranadheer Kumar
3.	B24CS195	Determination of Total hardness of water: Measure the hardness of industrial water using EDTA titration.	EC	Dr. M. Ranadheer Kumar
4.	B24CS196	Preparation and purification of organic compounds: Synthesize and purify organic compounds, such as aspirin.	EC	Dr. M. Ranadheer Kumar
5.	B24CS197	Spectrophotometric analysis: Use UV-Vis spectroscopy to determine the concentration of a substance.	EC	Dr. M. Ranadheer Kumar
6.	B24CS198	Electrochemical analysis: Use electrochemical techniques, such as cyclic voltammetry, to analyze the electrochemical properties of a substance.	EC	Dr. M. Ranadheer Kumar
7.	B24CS199	Water quality analysis: Measure the pH, turbidity, and bacterial content of water samples.	EC	Dr. M. Ranadheer Kumar
8.	B24CS200	Synthesis and Characterization of Nanoparticles for Catalytic Applications.	EC	Dr. M. Ranadheer Kumar
9.	B24CS201	Design and Fabrication of a Solar Still for Water Purification.	EC	Dr. M. Ranadheer Kumar
10.	B24CS202	Investigation of the Electrochemical Behaviour of	EC	Dr. M. Ranadheer

		a Corroding Metal".		Kumar
11.	B24CS203	Green chemistry applications in organic synthesis.	EC	Dr. M. Ranadheer Kumar
12.	B24CS204	"Study of the Effects of pH on the Degradation of Polymers".	EC	Dr. M. Ranadheer Kumar
13.	B24CS205	Wastewater treatment: Design and operate a small-scale wastewater treatment plant to remove pollutants from wastewater.	EC	Dr. M. Ranadheer Kumar
14.	B24CS206	Implementing a Simple Load Balancer	OS	N. Deepika
15.	B24CS207	Implementing a Simple Name Server	OS	N. Deepika
16.	B24CS208	Implementing a Simple Routing Protocol	OS	N. Deepika
17.	B24CS209	Implementing a Simple Firewall	OS	N. Deepika
18.	B24CS210	Implementing a Simple Intrusion Detection System	OS	N. Deepika
19.	B24CS211	Implementing a Simple Virtual File System	OS	N. Deepika
20.	B24CS212	Implementing a Simple File System for Embedded Systems	OS	N. Deepika
21.	B24CS213	Implementing a Simple Real-Time Scheduling Algorithm	OS	N. Deepika
22.	B24CS214	Implementing a Simple Network Time Protocol	OS	N. Deepika
23.	B24CS215	Implementing a Simple Remote Procedure Call	OS	N. Deepika
24.	B24CS216	Implementing a Simple Distributed Shared Memory System	OS	N. Deepika
25.	B24CS217	Implementing a Simple Software Defined Networking Controller	OS	N. Deepika
26.	B24CS218	Implementing a Simple Network Address Translation (NAT) Gateway	OS	N. Deepika
27.	B24CS219	Bank Statement Generator System using linked list.	DS	R. Radhika
28.	B24CS220	Fraud Detection System Using Hash Table	DS	R. Radhika
29.	B24CS221	Music Playlist Application using linked list.	DS	R. Radhika

30.	B24CS222	Memory Matching Game Application using linked list.	DS	R. Radhika
31.	B24CS223	Library Management System using linked list.	DS	R. Radhika
32.	B24CS224	To-Do List Application using Stack Data structure	DS	R. Radhika
33.	B24CS225	Contact Management System using double linked lists	DS	R. Radhika
34.	B24CS226	Token Rotation System using circular linked lists.	DS	R. Radhika
35.	B24CS227	Text Editor Undo/Redo Mechanism using Stack data structure	DS	R. Radhika
36.	B24CS228	Inventory Management System stacks and Queues .	DS	R. Radhika
37.	B24CS229	Browser Navigation Using Stack data structure.	DS	R. Radhika
38.	B24CS230	Traffic Flow Management System using Queues	DS	R. Radhika
39.	B24CS231	Hospital Management System using linked list	DS	R. Radhika
40.	B24CS232	The Golden Road: How Ancient India Transformed the World	ECRW	Dr. Asmathunisa Begum
41.	B24CS233	Mahakumbh 2025	ECRW	Dr. Asmathunisa Begum
42.	B24CS234	The Rise of Emojis: Transforming the English Language	ECRW	Dr. Asmathunisa Begum
43.	B24CS235	SpaceX Starship: Revolutionizing Human Space Travel	ECRW	Dr. Asmathunisa Begum
44.	B24CS236	The Future of H-1B Visas: Impact on Indian Tech Workers	ECRW	Dr. Asmathunisa Begum
45.	B24CS237	The Role of Parents in Students' Success: A Lesson from ' <i>Chhalaang</i> '	ECRW	Dr. Asmathunisa Begum
46.	B24CS238	The Role of Modern Cinema in Shaping Students' Perspectives on Society	ECRW	Dr. Asmathunisa Begum
47.	B24CS239	2025 Celestial Wonders: A Year of Cosmic Spectacles	ECRW	Dr. Asmathunisa Begum
48.	B24CS240	The Curiosity About Entrepreneurship and Startups Among Modern Students	ECRW	Dr. Asmathunisa Begum
49.	B24CS241	Empowering the Marginalized Through Education in ' <i>I Am Kalam</i> '	ECRW	Dr. Asmathunisa Begum

50.	B24CS242	The Influence of Shakespeare on Modern Drama	ECRW	Dr. Asmathunisa Begum
51.	B24CS243	The Effects of Social Media on English Grammar and Usage	ECRW	Dr. Asmathunisa Begum
52.	B24CS244	Optimizing Structural Analysis using Elementary Transformations	MTVC	Dr. S.Vishwa Prasad Rao
53.	B24CS245	Image Compression using Normal Form of a Matrix	MTVC	Dr. S.Vishwa Prasad Rao
54.	B24CS246	Computing Eigen values and Eigen vectors of Matrices: A Comparative Study	MTVC	Dr. S.Vishwa Prasad Rao
55.	B24CS247	Double Integrals in Engineering: A Case Study on Stress Analysis	MTVC	Dr. S.Vishwa Prasad Rao
56.	B24CS248	Triple Integrals in Engineering: A Case Study on Stress Analysis and Structural Mechanics	MTVC	Dr. S.Vishwa Prasad Rao
57.	B24CS249	Computing the Gamma Function: A Comparative Study of Numerical Methods	MTVC	Dr. S.Vishwa Prasad Rao
58.	B24CS250	Analysis of Linear Dependence and Independence in Electrical Circuits	MTVC	Dr. S.Vishwa Prasad Rao
59.	B24CS251	Physical Interpretation of Divergence in Heat Transfer: A Case Study	MTVC	Dr. S.Vishwa Prasad Rao
60.	B24CS252	Investigating the Physical Interpretation of Curl in Electromagnetism	MTVC	Dr. S.Vishwa Prasad Rao
61.	B24CS253	Evaluating Line Integrals in Electric and Magnetic Fields	MTVC	Dr. S.Vishwa Prasad Rao
62.	B24CS254	Surface Integrals in Fluid Dynamics: A Case Study on Fluid Flow	MTVC	Dr. S.Vishwa Prasad Rao
63.	B24CS255	Green's Theorem in Fluid Dynamics: A Case Study on Fluid Flow Around an Obstacle	MTVC	Dr. S.Vishwa Prasad Rao
64.	B24CS256	Gauss Divergence Theorem in Fluid Dynamics: A Case Study on Fluid Flow and Pressure	MTVC	Dr. S.Vishwa Prasad Rao

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.

Dr. S. Vishwa Prasad Rao

(Signature of class teacher)
