

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

Date: 27/01/2025

CIRCULAR*Sub: II Semester-Allotment of Practicum topics-Reg.**Allotment of Practicum topics to students*

Section : 2CSM1

S.No.	Roll number of the student	Practicum topic allotted	Practicum under the course	Course faculty
1	B24AI001	Simple Clap Switch Circuit	U24PY202B EP	Dr. Ch. Sateesh Chandra
2	B24AI002	Color Mixing with RGB LEDs	U24PY202B EP	Dr. Ch. Sateesh Chandra
3	B24AI003	Building an LED Matrix Display and Testing Basic Animations	U24PY202B EP	Dr. Ch. Sateesh Chandra
4	B24AI004	Firefly Lightening effect Circuit	U24PY202B EP	Dr. Ch. Sateesh Chandra
5	B24AI005	Battery Level Indicator Circuit	U24PY202B EP	Dr. Ch. Sateesh Chandra
6	B24AI006	Automatic Darkness Sensor Circuit	U24PY202B EP	Dr. Ch. Sateesh Chandra
7	B24AI007	GPS Tracker with Arduino EFU	U24PY202B EP	Dr. Ch. Sateesh Chandra
8	B24AI008	Police Strobe Light Circuit	U24PY202B EP	Dr. Ch. Sateesh Chandra
9	B24AI009	Building a Transistorized LED Flasher Circuit with Diode Protection	U24PY202B EP	Dr. Ch. Sateesh Chandra
10	B24AI010	Traffic signal circuit design using LED's and IC 555 timer	U24PY202B EP	Dr. Ch. Sateesh Chandra
11	B24AI011	Automatic Curtain Operation using LDR	U24PY202B EP	Dr. Ch. Sateesh Chandra
12	B24AI012	Simulate a word multiplication using any existing multiplication method/algorithm	U24IN203 CAO	Mr.S.Naga Raju

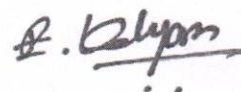
13	B24AI013	Simulate a word division using any existing method/algorithm	U24IN203 CAO	Mr.S.Naga Raju
14	B24AI014	Add 2 words as given in instruction ADD A,B,C where A,B,C are memory locations. Simulate the execution of above instruction.	U24IN203 CAO	Mr.S.Naga Raju
15	B24AI015	Design a basic computer to implement Boolean Operations	U24IN203 CAO	Mr.S.Naga Raju
16	B24AI016	Design a basic computer to implement Relational Operations	U24IN203 CAO	Mr.S.Naga Raju
17	B24AI017	Design a basic computer to implement Arithmetic Operations	U24IN203 CAO	Mr.S.Naga Raju
18	B24AI018	Simulate the steps involved in execution of an instruction	U24IN203 CAO	Mr.S.Naga Raju
19	B24AI019	Simulate use of a STACK in computer	U24IN203 CAO	Mr.S.Naga Raju
20	B24AI020	Design and implement by simulation the working of Instruction Pointer/Program counter in instruction execution.	U24IN203 CAO	Mr.S.Naga Raju
21	B24AI021	Design a CPU and show how Zero Address instruction is executed	U24IN203 CAO	Mr.S.Naga Raju
22	B24AI022	Design a CPU and show how Two Address instruction is executed	U24IN203 CAO	Mr.S.Naga Raju
23	B24AI023	Library Book Management System	U24IN204 DS	Mr.I.Sai Rama Krishna
24	B24AI024	Inventory Management System	U24IN204 DS	Mr.I.Sai Rama Krishna
25	B24AI025	Tic-Tac-Toe Game	U24IN204 DS	Mr.I.Sai Rama Krishna
26	B24AI026	Weather Data Analysis	U24IN204 DS	Mr.I.Sai Rama Krishna
27	B24AI027	Hotel Room Booking System	U24IN204 DS	Mr.I.Sai Rama Krishna
28	B24AI028	Student Grading System	U24IN204 DS	Mr.I.Sai Rama Krishna
29	B24AI029	Movie Ticket Booking System	U24IN204 DS	Mr.I.Sai Rama Krishna
30	B24AI030	Airline Reservation System	U24IN204 DS	Mr.I.Sai Rama Krishna

31	B24AI031	Shortest Job First (SJF) Scheduling	U24IN204 DS	Mr.I.Sai Rama Krishna
32	B24AI032	Student Fee Management System	U24IN204 DS	Mr.I.Sai Rama Krishna
33	B24AI033	Restaurant Table Reservation System	U24IN204 DS	Mr.I.Sai Rama Krishna
34	B24AI034	1-phase full wave and half wave rectifier (Simulation)	U24EE205B BEE	Mr. M. Narasimha Rao
35	B24AI035	LED blink test using Arduino	U24EE205B BEE	Mr. M. Narasimha Rao
36	B24AI036	Maximum power transferred to the load for a given circuit. (Simulation)	U24EE205B BEE	Mr. M. Narasimha Rao
37	B24AI037	Measurement of 3-phase power for a star or delta connected load.	U24EE205B BEE	Mr. M. Narasimha Rao
38	B24AI038	Analysis of AC circuits for different loads (Simulation)	U24EE205B BEE	Mr. M. Narasimha Rao
39	B24AI039	Solar-Powered Mobile Charger	U24EE205B BEE	Mr. M. Narasimha Rao
40	B24AI040	Arduino based traffic signal control	U24EE205B BEE	Mr. M. Narasimha Rao
41	B24AI041	Stepper Motor Speed Control Using Arduino	U24EE205B BEE	Mr. M. Narasimha Rao
42	B24AI042	Light based street light controller using Arduino	U24EE205B BEE	Mr. M. Narasimha Rao
43	B24AI043	Simple DC power supply	U24EE205B BEE	Mr. M. Narasimha Rao
44	B24AI044	Simulation of a given electrical circuit to determine the current, voltage and power at a given resistance using mesh analysis. Verify the same with nodal analysis.	U24EE205B BEE	Mr. M. Narasimha Rao
45	B24AI045	Reducing E-Waste Through Design: A Study on Modular and Repairable Electronics	U24CY206 ES	Dr.E.Kalyan Rao
46	B24AI046	3D Printing of Electronics Using Eco- Friendly Materials: A Feasibility Study	U24CY206 ES	Dr.E.Kalyan Rao
47	B24AI047	Analyzing the Effectiveness of Urban Recycling Programs on Reducing Landfill	U24CY206 ES	Dr.E.Kalyan Rao

		Dependency		
48	B24AI048	Public Awareness and Participation in Urban Solid Waste Management Systems	U24CY206 ES	Dr.E.Kalyan Rao
49	B24AI049	Public Perception and Policy Challenges in Nuclear Waste Management	U24CY206 ES	Dr.E.Kalyan Rao
50	B24AI050	Feasibility Study of Rooftop Solar Panels for Urban Households	U24CY206 ES	Dr.E.Kalyan Rao
51	B24AI051	Conversion of Agricultural Waste into Biogas for Rural Electrification	U24CY206 ES	Dr.E.Kalyan Rao
52	B24AI052	Energy Policy Frameworks for Promoting Alternate Energy Adoption	U24CY206 ES	Dr.E.Kalyan Rao
53	B24AI053	Exploring Regulatory Impacts on Green Manufacturing Practices in the Electronics Industry	U24CY206 ES	Dr.E.Kalyan Rao
54	B24AI054	Existence and uniqueness of solutions of ordinary differential equations and its applications	U24MH201 MTVC	Dr. K. Sandhya Rani
55	B24AI055	Introduction to first order partial differential equations and its applications.	U24MH201 MTVC	Dr. K. Sandhya Rani
56	B24AI056	Consistency of linear system of equations in matrices and its applications	U24MH201 MTVC	Dr. K. Sandhya Rani
57	B24AI057	Relation between Beta and Gamma functions and its applications.	U24MH201 MTVC	Dr. K. Sandhya Rani
58	B24AI058	Numerical methods such as numerical integration, interpolation and applications	U24MH201 MTVC	Dr. K. Sandhya Rani
59	B24AI059	Linear dependence and independence in matrices and its applications..	U24MH201 MTVC	Dr. K. Sandhya Rani
60	B24AI060	Jacobi method for finding the Eigen values of a given matrix and its applications.	U24MH201 MTVC	Dr. K. Sandhya Rani
61	B24AI061	Mathematical formulation of stochastic processes and its applications.	U24MH201 MTVC	Dr. K. Sandhya Rani
62	B24AI062	Moment of Inertia of plane lamina and its applications.	U24MH201 MTVC	Dr. K. Sandhya Rani
63	B24AI063	Applications of higher order differential equation and applications in everyday life	U24MH201 MTVC	Dr. K. Sandhya Rani
64	B24AI064	Modeling with partial differential equations and its applications.	U24MH201 MTVC	Dr. K. Sandhya Rani

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)
