

CIRCULAR*Sub: IL Semester -Allotment of Practicum topics– Reg.**Allotment of Practicum topics to students**Section : ...2CSM2*

S.No.	Roll number of the student	Practicum topic allotted	Practicum under the course	Course faculty
1	B24AI065	Simple Clap Switch Circuit	Engineering physics	Dr.N. Maramu
2	B24AI066	Light intensity controller for an auditorium	Engineering physics	"
3	B24AI067	Hybrid Solar Charger	Engineering physics	"
4	B24AI068	Cheapest Digital Altimeter	Engineering physics	"
5	B24AI069	ULTRASONIC DISTANCE SENSOR - ARDUINO	Engineering physics	"
6	B24AI070	Real time water level indicator and alert system	Engineering physics	"
7	B24AI071	LPG Gas Sensor Circuit	Engineering physics	"
8	B24AI072	Automatic Water Dispenser	Engineering physics	"
9	B24AI073	LED blink test using Arduino	Engineering physics	"
10	B24AI074	Make this Automatic LED Staircase light	Engineering physics	"
11	B24AI075	Arduino based traffic signal control	Engineering physics	"
12	B24AI076	Understanding the Functional Units of a Computer	computer architecture and organization	Hanumanthu
13	B24AI077	Performance Evaluation of Computer Systems	computer architecture and organization	"
14	B24AI078	Instruction Sequencing and Addressing Modes	computer architecture and organization	"
15	B24AI079	Instruction Fetch and Execution Steps	computer architecture and organization	"
16	B24AI080	Arithmetic Operations on Signed and	computer architecture	"

		Unsigned Numbers	and organization	
17	B24AI081	Floating-Point Operations	computer architecture and organization	"
18	B24AI082	Memory Hierarchy and Cache Mapping	computer architecture and organization	"
19	B24AI083	I/O and Asynchronous Data Transfer	computer architecture and organization	"
20	B24AI084	Priority Interrupt and Direct Memory Access (DMA)	computer architecture and organization	"
21	B24AI085	Arithmetic and Instruction Pipelining	computer architecture and organization	"
22	B24AI086	Vector Processing and Multiprocessors	computer architecture and organization	"
23	B24AI087	STONE PILE	data structures through c	Haritha
24	B24AI088	REPETITION OF STRING PATTERN IN GRID	data structures through c	"
25	B24AI089	RAILWAY STATION: REQUIRED NUMBER OF PLATFORMS	data structures through c	"
26	B24AI090	COUNTING ROCK SAMPLES	data structures through c	"
27	B24AI091	MANOEUVRING A CAVE	data structures through c	"
28	B24AI092	INSERT GREATEST COMMON DIVISORS IN LINKED LIST	data structures through c	"
29	B24AI093	SUM MAXIMIZATION WITH STACK AND QUEUE	data structures through c	"
30	B24AI094	JUMPY HUMPY	data structures through c	"
31	B24AI095	REVERSE SUBSTRINGS BETWEEN EACH PAIR OF PARENTHESES	data structures through c	"
32	B24AI096	SIMI, STRINGS AND QUEUE	data structures through c	"
33	B24AI097	MAXIMUM SUM PATH	data structures through c	"
34	B24AI098	Verification of nodal analysis using MATLAB/PSICE	basic electrical engineering	Jagdeesh
35	B24AI099	Verification of Superposition theorem using MATLAB/PSICE	basic electrical engineering	"
36	B24AI100	Verification of Maximum Power Transfer theorem using MATLAB/PSICE	basic electrical engineering	"
37	B24AI101	Analysis of Series R-L-C circuit	basic electrical engineering	"
38	B24AI102	Analysis of single phase half-wave wave rectifier and single phase full-wave rectifier	basic electrical engineering	"
39	B24AI103	Measurement of 3-phase power for a star or delta connected load	basic electrical engineering	"
40	B24AI104	Efficiency calculation of a transformer using open circuit (O.C) and short circuit test (S.C)	basic electrical engineering	"
41	B24AI105	Measurement of electrical energy using Induction energy meter and static energy meter	basic electrical engineering	"
42	B24AI106	LED blink test using Arduino	basic electrical engineering	"

43	B24AI107	Control of DC servo motor using Arduino	basic electrical engineering	"
44	B24AI108	Arduino based traffic signal control	basic electrical engineering	"
45	B24AI109	Evaluating the Socio-Economic Benefits and Drawbacks of Dam Construction on Local Communities: A Case Study of [Specific Dam/Location]	environmental studies	Dr.H Ramesh Babu
46	B24AI110	Analysing the Impact of Automobile Exhaust on Air Pollution-Solutions for Mitigating Air pollution	environmental studies	"
47	B24AI111	Investigating the Role of Forest Ecosystem Services in Supporting Local Livelihoods	environmental studies	"
48	B24AI112	Assessing the Impact of Sustainable Forest Management Practices on Biodiversity Conservation.	environmental studies	"
49	B24AI113	Analysing the Impact of Deforestation and solutions	environmental studies	"
50	B24AI114	Analysing the Impact of Industries on Soil Pollution and Degradation-Solutions for Mitigating Soil Pollution	environmental studies	"
51	B24AI115	"Environmental Impact of Dam Construction on River Ecosystems and Biodiversity"	environmental studies	"
52	B24AI116	"Social Impact of Dam Construction on Local Communities and Indigenous Peoples"	environmental studies	"
53	B24AI117	"Investigating the Effects of Industrial Activities on Air Quality in a Local Community"	environmental studies	"
54	B24AI118	Eigen values and Eigenvectors: Their Role in Dimensionality Reduction	MTVC	Dr. E. Ranjit Kumar
55	B24AI119	Matrix Representation of Graphs and Networks	MTVC	Dr. E. Ranjit Kumar
56	B24AI120	Double Integrals to Model Heat Distribution in 2D Systems	MTVC	Dr. E. Ranjit Kumar
57	B24AI121	Differentiation of Vector Fields in Computer Graphics: Gradient, Normal, and Tangent Vectors	MTVC	Dr. E. Ranjit Kumar
58	B24AI122	Divergence of Vector Fields: Modeling Fluid Flow and Continuity Equation	MTVC	Dr. E. Ranjit Kumar
59	B24AI123	Vector Differentiation for Environmental Modeling: Water Pollution Dispersion	MTVC	Dr. E. Ranjit Kumar
60	B24AI124	Application of Vector Differentiation in Seismology: Analyzing Stress and Strain in Earth's Crust	MTVC	Dr. E. Ranjit Kumar
61	B24AI125	Divergence Theorem and Its Role in Heat Transfer Analysis	MTVC	Dr. E. Ranjit Kumar
62	B24AI126	Vector Integration in Modeling Ocean Currents and Their Environmental Impact	MTVC	Dr. E. Ranjit Kumar
63	B24AI127	Analyzing Wind Flow Patterns Using Line and Surface Integrals	MTVC	Dr. E. Ranjit Kumar

64	B24AI128	Vector Integration Applications in Satellite Trajectories	MTVC	Dr. E. Ranjit Kumar

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)
