

**CIRCULAR***Sub: I Semester -Allotment of Practicum topics- Reg.*

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**INSTRUCTIONS****Students:**

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.

**Practicum/Course Faculty:**

1. The course faculty are advised to guide the allotted students for practicum during the semester course work.
2. In case of any clash in respect of practicum slot and practicum-faculty classwork, the practicum faculty should allot 4.00 p.m. to 6.00 p.m. slot to their practicum students on any full day. The same shall be informed to the class teacher, for record

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Following are the practicum topics allotted to the I semester students of 1EEE section.

***Section: 1EEE***

S.No.	Roll number of the student	Practicum topic allotted	Practicum under the course	Course faculty
1	B24EE001	Geometric series with application to Algorithm analysis and Data structures.	Differential Calculus and Ordinary Differential Equations (DCODE)	Dr.K.Venumadav
2	B24EE002	Convergence of an Infinite series and Application to Signal Processing.	DCODE	Dr.K.Venumadav
3	B24EE003	Rolle's Theorem and Application to Environmental Monitoring.	DCODE	Dr.K.Venumadav
4	B24EE004	Rolle's Theorem and Application to Application to Electrical Engineering.	DCODE	Dr.K.Venumadav
5	B24EE005	Lagrange's mean value theorem and Application to Electrical Engineering.	DCODE	Dr.K.Venumadav
6	B24EE006	Lagrange's method of undetermined multipliers and Application to Electrical	DCODE	Dr.K.Venumadav

		Engineering.		
7	B24EE007	Taylor Series and Application to Real world problems.	DCODE	Dr.K.Venumadav
8	B24EE008	Partial Differentiation and Applications to Electrical Engineering.	DCODE	Dr.K.Venumadav
9	B24EE009	First order Linear Differential Equations , Solution and Application to Electrical Engineering.	DCODE	Dr.K.Venumadav
10	B24EE010	Differential Equations and Application to Electrical Engineering.	DCODE	Dr.K.Venumadav
11	B24EE011	Building Electronics Kaleidoscope	Engineering Physics (EP)	Dr. A. N. Mallika
12	B24EE012	PIN Diode-Based Fire Sensor	EP	Dr. A. N. Mallika
13	B24EE013	LED Flasher: Create a circuit that flashes an LED on and off.	EP	Dr. A. N. Mallika
14	B24EE014	Analyze the dispersion of light in a prism and its effects on a spectrum.	EP	Dr. A. N. Mallika
15	B24EE015	Create a holographic display using a laser and holographic plate.	EP	Dr. A. N. Mallika
16	B24EE016	Series circuit art – create patterns with lights and switches	EP	Dr. A. N. Mallika
17	B24EE017	Using the phenomenon of interference of light for determine the thickness of a thin film	EP	Dr. A. N. Mallika
18	B24EE018	Study the behaviour of waves by analyzing their properties such as frequency, wavelength, and amplitude	EP	Dr. A. N. Mallika
19	B24EE019	Counter With Overload Alert Alarm for Child Safety in 40-Seater Bus	EP	Dr. A. N. Mallika
20	B24EE020	Investigate Magnetic Field around a Current-Carrying Coil	EP	Dr. A. N. Mallika
21	B24EE021	Design of DC Bridge circuit to determine Unknown Resistance(R) in MATLAB Simulink.	Electrical Measurements and Sensors (EMS)	Sri. M. Srinivas
22	B24EE022	Design of AC Bridge circuit to determine Unknown Inductance(L) in MATLAB Simulink.	EMS	Sri. M. Srinivas
23	B24EE023	Design of AC Bridge circuit to determine Unknown Capacitance(C) in MATLAB Simulink.	EMS	Sri. M. Srinivas
24	B24EE024	Digital Voltmeter using Arduino in TINKERCAD	EMS	Sri. M. Srinivas
25	B24EE025	Digital Ammeter using Arduino in TINKERCAD.	EMS	Sri. M. Srinivas
26	B24EE026	Digital Wattmeter using Arduino in TINKERCAD.	EMS	Sri. M. Srinivas
27	B24EE027	Measurement of unknown Frequency using Lissajous patterns in CRO.	EMS	Sri. M. Srinivas
28	B24EE028	Measurement of Phase angle using Lissajous patterns in CRO.	EMS	Sri. M. Srinivas
29	B24EE029	Measurements of three phase active power using two wattmeter's.	EMS	Sri. M. Srinivas
30	B24EE030	Calibration of single-phase Digital	EMS	Sri. M. Srinivas

		energy meter.		
31	B24EE031	TIC-TAC-TOE Game using C	Programming for Problem Solving with C (PPSC)	Sri. K. Ajith
32	B24EE032	Simple Scientific Calculator using C	PPSC	Sri. K. Ajith
33	B24EE033	Student Information Management System using C	PPSC	Sri. K. Ajith
34	B24EE034	Cricket Score Display using C	PPSC	Sri. K. Ajith
35	B24EE035	Snake and Ladder Game using C	PPSC	Sri. K. Ajith
36	B24EE036	Bus Reservation using C	PPSC	Sri. K. Ajith
37	B24EE037	Online Voting System using C	PPSC	Sri. K. Ajith
38	B24EE038	Electricity Bill calculator using C	PPSC	Sri. K. Ajith
39	B24EE039	Rock – Paper – Scissor game using C	PPSC	Sri. K. Ajith
40	B24EE040	Number System Conversion using C	PPSC	Sri. K. Ajith
41	B24EE041	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	Basic Electrical Engineering (BEE)	Prof. V.Ramaiah
42	B24EE042	Simulation by applying superposition theorem for a given electrical network to determine the current, voltage and power.	BEE	Prof. V.Ramaiah
43	B24EE043	Verify whether maximum power is transferred to the load in a given circuit.	BEE	Prof. V.Ramaiah
44	B24EE044	Phase diagram for a R-L-C series circuit.	BEE	Prof. V.Ramaiah
45	B24EE045	Measurement of 3-phase power for a star or delta connected load	BEE	Prof. V.Ramaiah
46	B24EE046	Determination of form factor and peak factor for half-wave and full-wave rectifier.	BEE	Prof. V.Ramaiah
47	B24EE047	LED blink test using Arduino.	BEE	Prof. V.Ramaiah
48	B24EE048	Control of DC servo motor using Arduino	BEE	Prof. V.Ramaiah
49	B24EE049	Measurement of unknown frequency using CRO.	BEE	Prof. V.Ramaiah
50	B24EE050	Measurement of Phase angle using CRO.	BEE	Prof. V.Ramaiah
51	B24EE051	Evaluating the Role of Green Chemistry in Reducing Industrial Pollution	Environmental Studies (ES)	Dr. T. Madhukar Reddy
52	B24EE052	Renewable Energy Microgrids for Rural Electrification	ES	Dr. T. Madhukar Reddy
53	B24EE053	Eco-Friendly Transportation Infrastructure	ES	Dr. T. Madhukar Reddy
54	B24EE054	Evaluating the Impact of Smart Cities Technologies on Urban Sustainability	ES	Dr. T. Madhukar Reddy
55	B24EE055	Impact of Climate Change on Local Biodiversity	ES	Dr. T. Madhukar Reddy
56	B24EE056	Plastic Waste Management: Strategies for Reducing Ocean Pollution	ES	Dr. T. Madhukar Reddy
57	B24EE057	Environmental Impacts of Hydroelectric	ES	Dr. T. Madhukar

		Power		Reddy
58	B24EE058	Microplastics in the Food Chain: Assessing the Risks and Solutions	ES	Dr. T. Madhukar Reddy
59	B24EE059	Global Water Security: Developing Strategies to Combat the Water Scarcity	ES	Dr. T. Madhukar Reddy
60	B24EE060	The Impact of Climate Change on Global Water Cycles	ES	Dr. T. Madhukar Reddy

*Mallika*

*(Signature of class teacher)*

*Dr. A N Mallika*