

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

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

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

Section : 1ECE2

S.No	Roll number of the student	Practicum topic allotted	Practicum under the course	Course faculty
1	B24EC065	Simple Electric Circuit- The formulation of differential equations in an electric circuit	U24MH101 DCODE	Dr. Narahari Raji Reddy
2	B24EC066	Deflections of beams using differential equation	U24MH101 DCODE	Dr. Narahari Raji Reddy
3	B24EC067	Electro-Mechanical analogy and its importance in real life problems	U24MH101 DCODE	Dr. Narahari Raji Reddy
4	B24EC068	Maxima and minima of functions of two variables, its applications for engineering problems	U24MH101 DCODE	Dr. Narahari Raji Reddy

5	B24EC069	Expanding the given function up to required number of terms using Taylor's series method for function of two variables	U24MH101 DCODE	Dr. Narahari Raji Reddy
6	B24EC070	Expanding the given function up to required number of terms using Taylor's series for function of one variable	U24MH101 DCODE	Dr. Narahari Raji Reddy
7	B24EC071	Use of Lagrange's mean value theorem and its application for the function	U24MH101 DCODE	Dr. Narahari Raji Reddy
8	B24EC072	Real world applications of simultaneous linear differential equations	U24MH101 DCODE	Dr. Narahari Raji Reddy
9	B24EC073	Rolle's mean value theorem for the function of one variable	U24MH101 DCODE	Dr. Narahari Raji Reddy
10	B24EC074	Application of second order differential linear equations: Spring with a mass body	U24MH101 DCODE	Dr. Narahari Raji Reddy
11	B24EC075	Use Euler forward and Euler backward scheme to LCR circuit problem	U24MH101 DCODE	Dr. Narahari Raji Reddy
12	B24EC076	Simple Clap Switch Circuit	U24PY102E EP	Dr. Ch. Sateesh Chandra
13	B24EC077	Police light Flasher Circuit	U24PY102E EP	Dr. Ch. Sateesh Chandra
14	B24EC078	LPG Gas Sensor Circuit	U24PY102E EP	Dr. Ch. Sateesh Chandra
15	B24EC079	Firefly Lightening effect Circuit	U24PY102E EP	Dr. Ch. Sateesh Chandra
16	B24EC080	Battery Level Indicator Circuit	U24PY102E EP	Dr. Ch. Sateesh Chandra
17	B24EC081	Automatic Darkness Sensor Circuit	U24PY102E EP	Dr. Ch. Sateesh Chandra
18	B24EC082	GPS Tracker with Arduino EFU	U24PY102E EP	Dr. Ch. Sateesh Chandra
19	B24EC083	Hybrid Solar Charger	U24PY102E EP	Dr. Ch. Sateesh Chandra
20	B24EC084	Simple Servo Mechanism Circuit	U24PY102E EP	Dr. Ch. Sateesh Chandra
21	B24EC085	Simple Touch free Automatic hand wash/sanitizer dispensing machine.	U24PY102E EP	Dr. Ch. Sateesh Chandra
22	B24EC086	Automatic Curtain Operation using LDR	U24PY102E EP	Dr. Ch. Sateesh Chandra
23	B24EC087	4-bit Binary Adder-Subtractor	U24EC103 STLD	Sri E. Suresh
24	B24EC088	4-bit Carry Look-Ahead Adder	U24EC103 STLD	Sri E. Suresh
25	B24EC089	N-Bit Parallel Adder	U24EC103 STLD	Sri E. Suresh
26	B24EC090	7-Segment Display Decoder (BCD to 7 Segment)	U24EC103 STLD	Sri E. Suresh

27	B24EC091	Priority Encoder (8-to-3)	U24EC103 STLD	Sri E. Suresh
28	B24EC092	4:1 Multiplexer Implementation of Boolean Function	U24EC103 STLD	Sri E. Suresh
29	B24EC093	Full Adder using Multiplexer	U24EC103 STLD	Sri E. Suresh
30	B24EC094	4-bit Synchronous Binary Counter	U24EC103 STLD	Sri E. Suresh
31	B24EC095	4-bit Asynchronous Binary Counter	U24EC103 STLD	Sri E. Suresh
32	B24EC096	Johnson Counter	U24EC103 STLD	Sri E. Suresh
33	B24EC097	SR Flip-Flop Implementation	U24EC103 STLD	Sri E. Suresh
34	B24EC098	Random Password Generator	U24EC104 PPSC	Sri P. Chiranjeevi
35	B24EC099	Number Guessing Game	U24EC104 PPSC	Sri P. Chiranjeevi
36	B24EC100	Simple Encryption and Decryption	U24EC104 PPSC	Sri P. Chiranjeevi
37	B24EC101	Student Grade Management System	U24EC104 PPSC	Sri P. Chiranjeevi
38	B24EC102	Simple Library Management System	U24EC104 PPSC	Sri P. Chiranjeevi
39	B24EC103	BMI Calculator	U24EC104 PPSC	Sri P. Chiranjeevi
40	B24EC104	Vowel and Consonant Counter	U24EC104 PPSC	Sri P. Chiranjeevi
41	B24EC105	Temperature Conversion	U24EC104 PPSC	Sri P. Chiranjeevi
42	B24EC106	To-Do List Application	U24EC104 PPSC	Sri P. Chiranjeevi
43	B24EC107	Currency Converter	U24EC104 PPSC	Sri P. Chiranjeevi
44	B24EC108	Basic Quiz System	U24EC104 PPSC	Sri P. Chiranjeevi
45	B24EC109	Calculation of Resonance frequency for a given single phase series R-L-C circuit using MATLAB/PSPICE.	U24EE105B BEE	Dr. M. Santhosh
46	B24EC110	To measure single-phase power by using three ammeter method.	U24EE105B BEE	Dr. M. Santhosh
47	B24EC111	To measure three-phase power by using two wattmeter method.	U24EE105B BEE	Dr. M. Santhosh
48	B24EC112	To measure the single-phase power by using three voltmeter method.	U24EE105B BEE	Dr. M. Santhosh
49	B24EC113	Interfacing sensors with Arduino using TINKERCAD.	U24EE105B BEE	Dr. M. Santhosh
50	B24EC114	Voltage and current relationships between line & phase quantities for balanced 3-phase star connections.	U24EE105B BEE	Dr. M. Santhosh

51	B24EC115	Efficiency calculation of a single phase Induction Motor.	U24EE105B BEE	Dr. M. Santhosh
52	B24EC116	Calculation of core losses in a single phase Transformer using O.C. (open circuit) test.	U24EE105B BEE	Dr. M. Santhosh
53	B24EC117	Voltage and current relationships between line & phase quantities for balanced 3-phase delta connections.	U24EE105B BEE	Dr. M. Santhosh
54	B24EC118	Calculation of copper losses in a single phase Transformer using Short Circuit test.	U24EE105B BEE	Dr. M. Santhosh
55	B24EC119	Sustainable Management of Water Resources in Agricultural Landscapes	U24CY106 ES	Dr. G. Sridhar
56	B24EC120	Evaluating the Impact of Climate Change on Biodiversity Hotspots	U24CY106 ES	Dr. G. Sridhar
57	B24EC121	Conservation of Endangered Species in Fragmented Landscapes	U24CY106 ES	Dr. G. Sridhar
58	B24EC122	Socio-Economic Impacts of Mining on Local Communities-case study	U24CY106 ES	Dr. G. Sridhar
59	B24EC123	Evaluating the Effectiveness of Restoration Efforts in Degraded Wetlands	U24CY106 ES	Dr. G. Sridhar
60	B24EC124	Investigating the Effects of Climate Change on Plant-Pollinator Interactions	U24CY106 ES	Dr. G. Sridhar
61	B24EC125	Evaluating the Impact of Environmental Factors on Species Adaptation	U24CY106 ES	Dr. G. Sridhar
62	B24EC126	Assessing the Impact of Industrial Effluents on Water Quality	U24CY106 ES	Dr. G. Sridhar
63	B24EC127	Analyzing the Impact of Urbanization on Mental Health and Wellbeing	U24CY106 ES	Dr. G. Sridhar
64	B24EC128	Analyzing the social and economic impacts of natural disasters in India.	U24CY106 ES	Dr. G. Sridhar

Dr. G. Sridhar

(Signature of class teacher)