KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL-15

DEPARTMENT OF PS AND M&H

No. /PS/M&H/KITS/2024 Date: 27/09/2024

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

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

Section : 1CE

S.NO.	ROLL NUMBER OF THE STUDENT	PRACTICUM TOPIC ALLOTTED	Practicum Under the Course	Course Faculty
1	B24CE001	Geometric series with application to Probabilistic and randomized algorithms	Differential Calculus and Ordinary Differential Equations (DCODE)	Dr. K. Shiva Shanker
2	B24CE002	Convergence of Harmonic series and its Applications to Civil Engineering	DCODE	Dr. K. Shiva Shanker
3	B24CE003	Convergence of an Infinite	DCODE	Dr. K. Shiva Shanker

		series and its Applications to Civil Engineering		
4	B24CE004	Rolle's theorem and Application to Traffic Analysis	DCODE	Dr. K. Shiva Shanker
5	B24CE005	Lagrange's mean value theorem and Application to Cryptography	DCODE	Dr. K. Shiva Shanker
6	B24CE006	Taylor Series and its Applications to Civil Engineering	DCODE	Dr. K. Shiva Shanker
7	B24CE007	Partial Differentiation and its Applications to Civil Engineering	DCODE	Dr. K. Shiva Shanker
8	B24CE008	Lagrange's method of undetermined multipliers and its Applications to Civil Engineering	DCODE	Dr. K. Shiva Shanker
9	B24CE009	Linear Differential Equations and Applications to Civil Engineering	DCODE	Dr. K. Shiva Shanker
10	B24CE010	Investigation on the density of different types of concrete and correlate with structural strength.	Engineering Physics (EP)	Dr. K. Srinivas
11	B24CE011	Investigation on the noise reducing methods and devices for acoustics of buildings	EP	Dr. K. Srinivas
12	B24CE012	Analyse the change of ultrasonic velocity and compressibility in different liquid mixtures for quality control applications	EP	Dr. K. Srinivas
13	B24CE013	Analysis of damped oscillations using Tracker software	EP	Dr. K. Srinivas
14	B24CE014	Develop a program in 'c' to find the radius of gyration and moment of inertia of different shapes of objects.	EP	Dr. K. Srinivas
15	B24CE015	Investigation on different types of interlocking bricks and their comparison	EP	Dr. K. Srinivas
16	B24CE016	Analyse the quality of milk and honey products by measuring ultrasonic velocity	EP	Dr. K. Srinivas
17	B24CE017	Develop a prototype of a smart home model	EP	Dr. K. Srinivas
18	B24CE018	Harnessing Energy: Exploring Applications of Low-Cost Piezoelectric Discs in Energy	EP	Dr. K. Srinivas

		Harvesting		
19	B24CE019	Develop a program to find resultant of co-planar force system using C language	Engineering Mechanics (EM)	Prof. M. Veera Reddy
20	B24CE020	Develop a program to find support reactions for a simply supported beam subjected to various point loads using C language	EM	Prof. M. Veera Reddy
21	B24CE021	Develop a program to find bending moment at a given section for a simply supported beam using C language	EM	Prof. M. Veera Reddy
22	B24CE022	Develop a program to find support reactions for a cantilever beam subjected to point loads, using C language	EM	Prof. M. Veera Reddy
23	B24CE023	Develop a program to find member forces for a simply supported truss subjected to joint loads, using C language	EM	Prof. M. Veera Reddy
24	B24CE024	Develop a program to find member forces for a cantilever truss subjected to joint loads, using C language	EM	Prof. M. Veera Reddy
25	B24CE025	Develop a program to find centroid of composite planar sections, using C language	EM	Prof. M. Veera Reddy
26	B24CE026	Develop a program to find moment of inertia for composite planar sections adopting parallel axis theorem, using C language	EM	Prof. M. Veera Reddy
27	B24CE027	Develop a program to find polar moment of inertia for composite planar sections adopting perpendicular axis theorem, using C language	EM	Prof. M. Veera Reddy
28	B24CE028	Develop a C program to display month by month calendar for a given year	Programming for Problem Solving with C (PPSC)	Smt. K. S. Bhargavi
29	B24CE029	Develop a simple voting system that allows users to vote for predefined candidates and displays the result	PPSC	Smt. K. S. Bhargavi
30	B24CE030	Develop a student record system to manage student records (name, roll number, grades) with options to add,	PPSC	Smt. K. S. Bhargavi

		view, update and delete records		
31	B24CE031	Develop a simple calculator for performing all the simple arithmetic operations like addition, multiplication, division, and subtraction	PPSC	Smt. K. S. Bhargavi
32	B24CE032	Develop a Online voting system that includes taking vote from user, Calculating votes and declaring results	PPSC	Smt. K. S. Bhargavi
33	B24CE033	Develop a C Program for Number System Conversion from Binary to Decimal, Octal to decimal and Binary to Hexa decimal	PPSC	Smt. K. S. Bhargavi
34	B24CE034	Develop a simple quiz game that insert questions, Check answers and prints score	PPSC	Smt. K. S. Bhargavi
35	B24CE035	Develop a calendar that finds out the day. Print all the days of the month and add notes to the specific days	PPSC	Smt. K. S. Bhargavi
36	B24CE036	Develop a C Program for Number System Conversion from Decimal to Binary, Decimal to Octal and Hexa Decimal to Binary	PPSC	Dr. B. Subhash
37	B24CE037	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 and Electronics Engineering (BEEE)	Dr. B. Subhash
38	B24CE038	Simulation by applying Voltage Divider Rule and Current Divider Rule for a given electrical network to determine the current, voltage and power	BEEE	Dr. B. Subhash
39	B24CE039	Verification of Kirchoff's laws using PSPICE/MATLAB	BEEE	Dr. B. Subhash
40	B24CE040	Determine the Phase angle and current for a given R-L-C series circuit using Arduino	BEEE	Dr. B. Subhash

41	B24CE041	Measurement of 3-phase power for a balanced star or delta connected loads using MATLAB	BEEE	Dr. B. Subhash
42	B24CE042	Determination of form factor and peak factor for half-wave and full-wave rectifier using MATLAB	BEEE	Dr. B. Subhash
43	B24CE043	LED blink test using Arduino	BEEE	Dr. B. Subhash
44	B24CE044	Control of DC motor using Arduino	BEEE	Dr. B. Subhash
45	B24CE045	Simulation of Input and output characteristics of BJT using MATLAB	BEEE	Dr. B. Subhash
46	B24CE046	Comparative analysis of current and future public transportation	Environmental Studies (ES)	Dr. M. Gopi Krishna
47	B24CE047	Analysis of water quality and pollution sources in urban waterways	ES	Dr. M. Gopi Krishna
48	B24CE048	Assessment of water conservation techniques in residential and commercial settings	ES	Dr. M. Gopi Krishna
49	B24CE049	Analysis of smart technologies for environmental monitoring and data collection	ES	Dr. M. Gopi Krishna
50	B24CE050	Implementation of sustainable transportation solutions for urban areas	ES	Dr. M. Gopi Krishna
51	B24CE051	Eco-friendly packaging solutions to reduce plastic waste	ES	Dr. M. Gopi Krishna
52	B23CE027	Evaluating the impact of renewable energy integration on local economies	ES	Dr. M. Gopi Krishna

(Signature of class teacher)