KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL-15 DEPARTMENT OF PS AND M&H



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

Date: 27/01/2025

CIRCULAR

Sub: IL Semester -Allotment of Practicum topics-Reg.

Allotment of Practicum topics to students

Section: 2ECE 2

S.	Roll number		Practicum	
No	of the student	Practicum topic allotted	under the course	Course faculty
1	B24EC065	Comparative Study of Hardness Removal Techniques in Water: Ion Exchange vs. Chemical Precipitation	U24CY202E	Dr. M. Gopi Krishna
2	B24EC066	Investigation of the Relationship Between Alkalinity and Hardness in Groundwater and Surface Water Samples	U24CY202E Engineering Chemistry	Dr. M. Gop Krishna
3	B24EC067	Conductometric Titration of Acetic Acid in Chloroform with Sodium Hydroxide: An Investigation in Non-Aqueous Media	U24CY202E Engineering Chemistry	Dr. M. Gopi Krishna
4	B24EC068	Analysis of Water Contaminants in Industrial Effluents: Total Suspended Solids (TSS), BOD, COD	U24CY202E Engineering Chemistry	Dr. M. Gopi Krishna
5	B24EC069	Potentiometric Titration of Strong Acid with Strong Base: Determination of Equivalence Point Using pH Measurement	U24CY202E Engineering Chemistry	Dr. M. Gopi Krishna
	B24EC070	Evaluation of Reverse Osmosis as a Water Treatment Method for Desalination: Process Design and Water Quality	U24CY202E Engineering Chemistry	Dr. M. Gopi Krishna
	B24EC072	Study of the Effect of Hard Water on Domestic Appliances and Plumbing: Corrosion and Scaling	U24CY202E Engineering Chemistry	Dr. M. Gopi Krishna
	B24EC073	Comparative Study of Desalination Techniques: Reverse Osmosis vs. Electrodialysis for Water Purification	U24CY202E Engineering Chemistry	Dr. M. Gopi Krishna
		Study of Irrigation Water Treatment Techniques for Removal of Pesticides and Fertilizers	U24CY202E Engineering Chemistry	Dr. M. Gopi Krishna
		Investigation of Wastewater Reuse for Agricultural Irrigation: Challenges and Solutions	U24CY202E Engineering Chemistry	Dr. M. Gopi Krishna

	B24EC076	Study of Complexometric Titration of Calcium with EDTA: Conductometric Method for Metal Ion Quantification		Dr. M. Gopt Krishna
63	B24EC077	Evaluation of Water Quality Parameters for Potable Water: pH, TDS, Hardness, and Chloride Levels		Dr. M. Gop Krishna
64	B24EC078	Performance Evaluation of Chlorination and UV Treatment for Drinking Water Disinfection		Dr. M. Gopi Krishna
65	B24EC079	Study and Implementation of a Half-Wave Rectifier Circuit	U24EC203 Electronic Circuits	Dr. M.Raju
	B24EC080	Design and Performance Evaluation of a Full- Wave Rectifier Circuit	U24EC203 Electronic Circuits	Dr. M.Raju
	B24EC081	Design and Performance Testing of a п-Section Filter in Rectifier Circuits	U24EC203 Electronic Circuits	Dr. M.Raju
	B24EC082	Design and Characterization of Shunt Diode Clipper Circuits	U24EC203 Electronic Circuits	Dr. M.Raju
	B24EC083	Implementation of Clipping at Two Independent Levels Using Diodes	U24EC203 Electronic Circuits	Dr. M.Raju
	B24EC084	Implementation and Analysis of Fixed Bias Circuit for Transistor Amplifiers	U24EC203 Electronic Circuits	Dr. M.Raju
	B24EC085	Design and Performance Evaluation of a Collector to Base Bias Circuit	U24EC203 Electronic Circuits	Dr. M.Raju
	B24EC086	Design, Analysis, and Testing of Self-Bias Circuit	U24EC203 Electronic Circuits	Dr. M.Raju
	B24EC087	Study and Analysis of Drain and Transfer Characteristics of JFET	U24EC203 Electronic Circuits	Dr. M.Raju
	B24EC088	Implementation and Performance Evaluation of Self-Bias Configuration for FETs	U24EC203 Electronic Circuits	Dr. M.Raju
	B24EC089	Measurement and Calculation of h- parameters for Transistors in CE, CB, and CC Configurations	U24EC203 Electronic Circuits	Dr. M.Raju
	B24EC090	Analysis and Performance of Common Emitter (CE) Amplifier	U24EC203 Electronic Circuits	Dr. M.Raju
	B24EC091	Design and Analysis of Common Collector (CC) Amplifier: Voltage Gain and Input Impedance	U24EC203	Dr. M.Raju

	Electronic	
11	Circuits	
Hospital Management System	U24EC204 DSC	S.Pradeep Kumar
Library Automation System		S.Pradeep
	The state of the s	Kumar
Public Transport System	The state of the s	S.Pradeep
		Kumar
Cricket Score Board		S.Pradeep
		Kumar
Online Voting System		S.Pradeep
	A STATE OF	Kumar
Plagiarism detection system		S.Pradeep
		Kumar
Building a crossword puzzle game		
o I make Sume		S.Pradeep Kumar
Online Food Delivery System		S.Pradeep
Jan 22y System		S.Fradeep Kumar
Citizen Grievance System		
- System		S.Pradeep Kumar
Banking Management System		
- Samugement System		S.Pradeep Kumar
School Admission System		
- Section System		S.Pradeep Kumar
Water Supply Management	The second secon	
a upply management		S.Pradeep Kumar
Blood Bank Management		100000000000000000000000000000000000000
Stood Bank Management	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S.Pradeep Kumar
Exploring Life Lessons in Edger A. Court		
poem "Don't Ouit"		Dr.W. Gra Shanthi
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communication skills are as all a developing		Dr.W. Grad
communication skins among the students	ECRW	Shanthi
Exploring the Significance of "Folk	U24MH205	Dr.W. Grad
Dances" with a special focus on	ECRW	Shanthi
Koodiyattam dance form of Kerala		
The impact of cinema on the youth	U24MH205	Dr.W. Grad
	ECRW	Shanthi
Exploring traditional music with a	U24MH205	Dr.W. Grad
	ECRW	Shanthi
Exploring the Unique Wedding Rituals	U24MH205	Dr.W. Grad
in India with a specific focus on	ECRW	Shanthi
Study of Harris & Francis is a Comparative	U24MH205	Dr.W. Grac
Study of Harvest Festivals in India.	ECRW	Shanthi
Exectle viscos 41 P. 1		
Exploring the Evolution and Cultural Significance of "Western Musical	U24MH205 ECRW	Dr.W. Grac Shanthi
	Online Voting System Plagiarism detection system Building a crossword puzzle game Online Food Delivery System Citizen Grievance System Banking Management System School Admission System Water Supply Management Blood Bank Management Exploring Life Lessons in Edgar A. Guest poem "Don't Quit" Role of News Papers in developing communication skills among the students Exploring the Significance of "Folk Dances" with a special focus on Koodiyattam dance form of Kerala The impact of cinema on the youth Exploring traditional music with a specific focus on Hindustani music Exploring the Unique Wedding Rituals in India with a specific focus on Northern region "Seasons of Gratitude": A Comparative	Hospital Management System Library Automation System Public Transport System Public Transport System Cricket Score Board DSC Online Voting System Plagiarism detection system Plagiarism detection system Plagiarism detection system DSC Doc Dicket Score Board DSC Plagiarism detection system Plagiarism detection system DSC Doc Dicket Score Board DSC DSC Doc Plagiarism detection system DSC DSC Doc Dicket Score Board DSC DSC DSC Doc DSC Doc Dicket Score Board DSC DSC Doc Doc Doc Doc Doc Doc Doc Do

	The Study of the Cultural Heritage and	U24MH205	Dr.W. Grad
D245C112	Craftsmanship behind Kanchipuram	ECRW	Shanthi
B24EC113	sarees of Tamil Nadu state		
	The role of Traditional Art forms in		Dr.W. Grad
	safeguarding Cultural Heritage with	ECRW	Shanthi
B24EC114	specific focus on Kalamkari painting		
B24EC114	and Phad painting		
D2450445	The role of Gamification in enhancing		Dr.W. Grad
B24EC115	English Language Skills.	ECRW	Shanthi
	Apply matrices to implement image		Dr.T.
	processing techniques, such as filtering,	MTVC	Raghunatha
B24EC116	convolution, and transformation.		Rao
	Study the design and implementation of	U24MH201	Dr.T.
	algorithms for sparse matrix operations,	MTVC	Raghunatl
	including multiplication, inversion, and		a Rao
B24EC117	eigenvalue computation.		u ruo
	Apply multiple integrals to solve	U24MH201	Dr.T.
	optimization problems, such as finding the	MTVC	Raghunatha
	maximum or minimum of a function		Rao
B24EC118	subject to constraints.		
	Investigate the use of multiple integrals to	U24MH201	Dr.T.
	model economic systems, including the	MTVC	Raghunatha
	calculation of consumer and producer	WITVE	Rao
B24EC119	surplus.		Rao
DZTECTTS		TIO () (Troot	
	1100	U24MH201	Dr.T.
	T TOTOLI,	MTVC	Raghunatha
B24FC120	including image processing and object		Rao
B24EC120	recognition.		
	Study the application of vector	U24MH201	Dr.T.
	differentiation in electromagnetism,	MTVC	Raghunatha
B24EC121	including the Maxwell's equations.		Rao
	Apply divergence and curl to image	U24MH201	Dr.T.
	processing tasks, such as image filtering,	MTVC	Raghunatha
B24EC122	edge detection, and image segmentation.		Rao
	Investigate the use of change of order of	U24MH201	Dr.T.
	integration in medical imaging problems,	MTVC	Raghunatha
	including the reconstruction of images from		Rao
B24EC123	tomographic data.		
	Study vector differentiation to optimize	U24MH201	Dr.T.
	multivariable functions, with applications	MTVC	Raghunatha
B24EC124	in machine Learning and engineering.		Rao
	Study the application of divergence and	U24MH201	Dr.T.
	curl to electromagnetism, including the	MTVC	
	calculation of electric and magnetic fields.	IVII V C	Raghunatha Rao
B24FC125			1440
B24EC125		I I 24 M I I 201	D.T
B24EC125	Explore the use of surface integrals in machine learning, including the	U24MH201 MTVC	Dr.T. Raghunatha

	development of new algorithms and models for image and signal processing.		
B24EC127	Investigate the use of the Cayley-Hamilton theorem in the analysis of Markov chains, including the calculation of steady-state probabilities.	MTVC	Dr.T. Raghunatha Rao
B24EC128	Explore the use of Green's Theorem in complex systems, including the analysis of biological and social networks.	U24MH201 MTVC	Dr.T. Raghunatha Rao

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.
- 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)
Dor. Grace Shauttei
