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



No. /PS/M&H/KITS/2024 Date: /9/2024

### **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 is the practicum topics allotted to the I semester students of 1CSN section.

Section: 1CSN

**Section: 1CSN Practicum topics** 

S.No	Number of the	Practicum Topic Allotted	Practicum under the Course	Course Faculty
	Student			
1	B24CN001	Exploring the Convergence of Geometric Series and its applications to Network Engineering.	U24MH101	Dr.D.Ramesh
2	B24CN002	Convergence of Harmonic series and its applications to Computer Networks	U24MH101	Dr.D.Ramesh
3	B24CN003	Rolle's theorem application to Computer Networks: Optimizing network performance and resource allocation.	U24MH101	Dr.D.Ramesh
4	B24CN004	Lagrange's mean value theorem (LMVT) application to estimate the maximum or minimum stock price over a given time interval.	U24MH101	Dr.D.Ramesh
5	B24CN005	Partial derivatives and its application to a moving particle in 3D space.	U24MH101	Dr.D.Ramesh

advanced ceramic materials chary  26 B24CN026 Investigation of Corrosion resistance in stainless steel Alloys chary  27 B24CN027 Design and Simulation of full adder using U24CI111 Dr.B.Jeevan					
B24CN007   Applications of Lagrange's method of undermined multipliers to control system.	6	B24CN006		U24MH101	Dr.D.Ramesh
B24CN008   Differential equations of first order and first degree applications-Modelling of Population growth.		D0 (C) 100=		T 10 (3) FT T4 04	D D D 1
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first degree applications-Modelling of Population growth.  9 B24CN010 Differential equations applications-Modelling of population decline.  10 B24CN010 Differential equations of first order and first degree applications-Electrical circuits: Analyzing RL circuits  11 B24CN011 Differential equations of first order and first degree applications-Radioactive decay: Modelling the decay of radioactive substances  12 B24CN012 Application of Linear differential equations-Flectrical Circuits: Analyzing RL.C circuits.  13 B24CN013 Application of Linear differential equations-Flectrical Circuits: Analyzing RL.C circuits.  14 B24CN014 Effect of Pesticides on Agriculture Soil U24CY102B Dr.P.Prabhakara chary  15 B24CN015 Analysis of Nagaram Lake water at Hanamkonda Hanamkonda Hanamkonda Residuation Professional Effect of Pesticides on Agriculture Soil U24CY102B Dr.P.Prabhakara chary  16 B24CN016 Investigate chemical characteristics of KITSW Well water Water at Kazipet Water at Kazipet U24CY102B Dr.P.Prabhakara chary  17 B24CN 017 Effect of Plastic on Pedda wddepally Lake water at Kazipet U24CY102B Dr.P.Prabhakara chary  18 B24CN018 Purification of Borewell water by Reverse Osmosis(RO) Investigation of corrosion on copper metal and its inhibition Composites from Agricultural waste U24CY102B Dr.P.Prabhakara chary  20 B24CN020 Investigation of corrosion on copper metal and its inhibition Composites from Agricultural waste Defore and after purification of Borewall water U24CY102B Dr.P.Prabhakara chary  21 B24CN021 Chemical analysis of Devaadula water before and after purification of U24CY102B Dr.P.Prabhakara chary  22 B24CN022 Chemical characterisation of Precious metals from e-waste Chemical characterisation of thermal properties in advanced ceramic materials  22 B24CN025 Chemical characterisation of precious metals from e-waste Chary Dr.P.Prabhakara chary  23 B24CN027 Design and Simulation of full adder using U24CY102B Dr.P.Prabhakara chary  24 B24CN027 Design and Simulation of full adder using U24CY101 Dr.B.P.Prabhakara chary	8	B24CN008		U24MH101	Dr.D.Ramesh
Population growth.   Differential equations applications-Modelling of population decline.   Differential equations of first order and first degree applications-Electrical circuits: Analyzing RL circuits   Dr.D.Ramesh		221011000	_		
B24CN009   Differential equations applications—Modelling of population decline.   Dr.D.Ramesh   Modelling of population decline.   Dr.D.Ramesh   Dr.D.Rame					
Modelling of population decline.   Dr.D.Ramesh	9	B24CN1009		1124MH101	Dr D Ramesh
B24CN010   Differential equations of first order and first degree applications-Electrical circuits: Analyzing RL circuits		B21C1 (00)		0211111111	D1.D.Rainesii
first degree applications-Electrical circuits: Analyzing RL circuits  11 B24CN011 Differential equations of first order and first degree applications-Radioactive decay: Modelling the decay of radioactive substances  12 B24CN012 Application of Linear differential equations- Electrical Circuits: Analyzing RLC circuits.  13 B24CN013 Application of higher order Linear differential equations to Machine Learning  14 B24CN014 Effect of Pesticides on Agriculture Soil U24CY102B Dr.P.Prabhakara chary  15 B24CN015 Analysis of Nagaram Lake water at Hanamkonda U24CY102B Dr.P.Prabhakara chary  16 B24CN016 Investigate chemical characteristics of KITSW Well water Surfect of Posticides on Pedda wddepally Lake water at Kazipet Water at Kazipet Purification of Borewell water by Reverse Osmosis(RO)  18 B24CN019 Investigation of sustainable polymer composites from Agricultural waste Defor and alter purification Surfect pefore and after purification Precious Machine Dr.P.Prabhakara chary  20 B24CN020 Chemical analysis of Devaadula water before and after purification Precious metal and its inhibition Dr.P.Prabhakara chary  21 B24CN021 Chemical analysis of Devaadula water before and after purification Corrosion on copper metal and its inhibition Dr.P.Prabhakara chary  22 B24CN022 Analysis of Fluoride in Well water and Bore well water  23 B24CN023 Chemical characterisation of Precious metals from e-waste metals from e-waste  24 B24CN025 Characterisation of thermal properties in advanced ceramic materials  25 B24CN026 Investigation of Corrosion resistance in stainless steel Alloys  27 B24CN027 Design and Simulation of full adder using U24CY102B Dr.P.Prabhakara chary  28 Dr.P.Prabhakara chary  29 Dr.P.Prabhakara chary  20 Dr.P.Prabhakara chary  21 Dr.P.Prabhakara chary  22 B24CN025 Characterisation of thermal properties in advanced ceramic materials  23 Dr.P.Prabhakara chary  24 Dr.P.Prabhakara chary  25 Dr.P.Prabhakara chary  26 Dr.P.Prabhakara chary  27 Dr.P.Prabhakara chary  28 Dr.P.Prabhakara chary  29 Dr.P.Prabhakara chary  20 Dr.P.	10	B24CNI010		1124MH101	Dr D Ramesh
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Electrical Circuits: Analyzing RLC circuits.	12	B24CN012		U24MH101	Dr.D.Kamesh
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differential equations to Machine Learning  14 B24CN014 Effect of Pesticides on Agriculture Soil  B24CN015 Analysis of Nagaram Lake water at Hanamkonda  16 B24CN016 Investigate chemical characteristics of KITSW Well water  17 B24CN 017 Effect of plastic on Pedda wddepally Lake water at Kazipet  18 B24CN018 Purification of Borewell water by Reverse Osmosis(RO)  19 B24CN019 Investigation of sustainable polymer composites from Agricultural waste  10 B24CN020 Investigation of corrosion on copper metal and its inhibition  11 B24CN021 Chemical analysis of Devaadula water before and after purification  22 B24CN022 Analysis of Fluoride in Well water and Bore well water  23 B24CN024 Chemical studies on degradation of in organic pollutants  24 B24CN024 Chemical characterisation of Precious metals from e-waste  25 B24CN025 Characterisation of thermal properties in advanced ceramic materials 16 Dr.P.Prabhakara chary 17 U24CY102B Dr.P.Prabhakara chary 18 U24CY102B Dr.P.Prabhakara chary 19 Dr.P.Prabhakara chary 19 Dr.P.Prabhakara chary 10 Dr.P.Prabhakara chary 10 Dr.P.Prabhakara chary 10 Dr.P.Prabhakara chary 10 Dr.P.Prabhakara chary 11 Dr.P.Prabhakara chary 12 Dr.P.Prabhakara chary 12 Dr.P.Prabhakara chary 13 Dr.P.Prabhakara chary 14 Dr.P.Prabhakara chary 15 Dr.P.Prabhakara chary 16 Dr.P.Prabhakara chary 17 Dr.P.Prabhakara chary 18 Dr.P.Prabhakara chary 19 Dr.P.Prabhakara chary 10 Dr.P.Prabhakara chary 11 Dr.B.Jeevan 11 Dr.B.Jeevan	13	B24CNi013		1124MH101	Dr D Ramesh
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B24CN014   Effect of Pesticides on Agriculture Soil   U24CY102B   Dr.P.Prabhakara chary			_		
Chary   15   B24CN015   Analysis of Nagaram Lake water at Hanamkonda   Hanamkonda   Hanamkonda   Dr.P.Prabhakara chary   Dr.P.P.Prabhakara chary   Dr.P.P.Prabhakara chary   Dr.P.P.Prabhakara chary   Dr.P.P.Prabhakara cha	1/	R24CNI014	9	1124CV102R	Dr. D. Prabbakara
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			stainless steel Alloys		chary
Varile a LIDI	27	B24CN027	Design and Simulation of full adder using	U24CI111	Dr.B.Jeevan
verilog fidl			Verilog HDL		

28	B24CN028	Design and Simulation of full subtractor	U24CI111	Dr.B.Jeevan
20	D24C1\026	using Verilog HDL	02401111	Dr.b.jeevan
29	B24CN029	Design and Simulation of 4-bit parallel adder using Verilog HDL	U24CI111	Dr.B.Jeevan
30	B24CN030	Design and Simulation of 4-bit parallel subtractor using Verilog HDL	U24CI111	Dr.B.Jeevan
31	B24CN031	Design and Simulation of 4-bit binary to gray code converter using Verilog HDL	U24CI111	Dr.B.Jeevan
32	B24CN032	Design and Simulation of 4-bit gray to binary code converter using Verilog HDL	U24CI111	Dr.B.Jeevan
33	B24CN033	Design and Simulation of 8-1 multiplexer converter using Verilog HDL	U24CI111	Dr.B.Jeevan
34	B24CN034	Design and Simulation of 3-8 decoder using Verilog HDL	U24CI111	Dr.B.Jeevan
35	B24CN035	Design and Simulation of 8-3 encoder using Verilog HDL	U24CI111	Dr.B.Jeevan
36	B24CN036	Design and Simulation of 8-3 priority encoder using Verilog HDL	U24CI111	Dr.B.Jeevan
37	B24CN037	Design and Simulation of 2-bit digital comparator using Verilog HDL	U24CI111	Dr.B.Jeevan
38	B24CN038	Design and simulation of Master slave JK flip-flop using Verilog HDL	U24CI111	Dr.B.Jeevan
39	B24CN039	Design and simulation of 4-bit Asynchronous binary counter using Verilog HDL	U24CI111	Dr.B.Jeevan
40	B24CN040	Develop a Menu driven C program to manage books in a library, including adding, removing, and searching for books using pointers, Structures and Files.	U24CS104	Dr. V. Chandra Shekhar Rao
41	B24CN041	Develop a Menu driven C program with pointers on sorting the elements using Bubble sort, Selection Sort, Insertion Sort. Merge sort & quick sort and compare the Time complexity & Space complexities (mention in the report)	U24CS104	Dr. V. Chandra Shekhar Rao
42	B24CN042	Develop a Menu driven C program to search an element from the given elements using Linear search, Binary search and Fibonacci search and compare the Time complexity & Space complexities (mention in the report)	U24CS104	Dr. V. Chandra Shekhar Rao
43	B24CN043	Develop a Menu driven C program to implement Electricity Bill generation to a customer using structures, pointers and files  Example tariff rates: For first 50 units Rs. 0.50/unit For next 100 units Rs. 0.75/unit For next 100 units Rs. 1.20/unit For unit above 250 Rs. 1.50/unit An additional surcharge of 20% is added to	U24CS104	Dr. V. Chandra Shekhar Rao

	the bill.		
B24CN044	Develop a Menu driven program to matrix operations using pointers for given two matrices The matrix operations are addition, subtraction, transpose, multiplication, check symmetric or not, check unit matrix or not	U24CS104	Dr. V. Chandra Shekhar Rao
B24CN045	Develop a C program using pointers: Given a string str containing only lowercase characters. The task is to print the characters having an even frequency in the order of their occurrence. Note: Repeated elements with even frequency are printed as many times they occur in order of their occurrences. Input: str= "aeroplane" Output: aeae  Approach: Create a frequency array to store the frequency of each of the character of the given string str. Traverse the string str again and check whether the frequency of that character is even. If yes, then print the character.	U24CS104	Dr. V. Chandra Shekhar Rao
B24CN046	Develop a C program using pointers:  Given a string str containing only lowercase characters. The task is to print the characters along with their frequencies in the order of their occurrence in the given string.  Examples: Input: str = "geeksforgeeks" Output: g2 e4 k2 s2 f1 o1 r1 Input: str = "helloworld" Output: h1 e1 l3 o2 w1 r1 d1 Approach: Traverse the given string character by character and store the frequencies of all the strings in a LinkedHashMap which maintains the order of the elements in which they are stored. Now, iterate over the elements of the LinkedhashMap and print the contents.	U24CS104	Dr. V. Chandra Shekhar Rao
B24CN047	Develop a C program using pointers:  Given a positive integer N, the task is to print the Lower Hessenberg matrix of order N which includes any one-digit random positive integer as its non-zero elements.  Lower Hessenberg matrix is a square	U24CS104	Dr. V. Chandra Shekhar Rao
	B24CN046	B24CN044 Develop a Menu driven program to matrix operations using pointers for given two matrices. The matrix operations are addition, subtraction, transpose, multiplication, check symmetric or not, check unit matrix or not  B24CN045 Develop a C program using pointers: Given a string str containing only lowercase characters. The task is to print the characters having an even frequency in the order of their occurrence. Note: Repeated elements with even frequency are printed as many times they occur in order of their occurrences. Input: str= "aeroplane" Output: aeae  Approach: Create a frequency array to store the frequency of each of the character of the given string str. Traverse the string str again and check whether the frequency of that character is even. If yes, then print the character.  B24CN046 Develop a C program using pointers: Given a string str containing only lowercase characters. The task is to print the characters along with their frequencies in the order of their occurrence in the given string.  Examples: Input: str = "geeksforgeeks" Output: g2 e4 k2 s2 f1 o1 r1 Input: str = "felloworld" Output: h1 e1 l3 o2 w1 r1 d1 Approach: Traverse the given string character by character and store the frequencies of all the strings in a LinkedHashMap which maintains the order of the elements in which they are stored. Now, iterate over the elements of the LinkedhashMap and print the contents.  B24CN047 Develop a C program using pointers: Given a positive integer N, the task is to print the Lower Hessenberg matrix of order N which includes any one-digit random	B24CN044   Develop a Menu driven program to matrix operations using pointers for given two matrices. The matrix operations are addition, subtraction, transpose, multiplication, check symmetric or not, check unit matrix or not

		matrix in which all of its elements above the super-diagonal are zero. In mathematical term mat[i][j] = 0 for all j > i + 1.  Examples: Input: N = 3 Output: 1 2 0 1 3 4 2 3 4		
48	B24CN048	Consider an Input File, which contains biodata of yours should be minimum of 100 characters. Bio data consists Student name, address,phone_number, qualification and phone_num Print the details such as Order of Repeated Characters (in ascending), Most Repeated Vowel in the file, Total Number of Vowels.  Develop the above application using structures and files	U24CS104	Dr. V. Chandra Shekhar Rao
49	B24CN049	Develop a menu driven C program to perform the functionality for given number and the Number System Conversion is mentioned below using pointers:  Decimal to Binary Binary to Decimal Decimal to Octal Octal to Decimal Hexadecimal to Binary Binary to Hexadecimal	U24CS104	Dr. V. Chandra Shekhar Rao
50	B24CN050	Develop a menu driven program to perform the functionality for given number  a) Sum of Bitwise AND of sum of pairs and their Bitwise AND from a given array  Hint:  Input: arr[] = {8, 9} Output: 0  Explanation: The only pair from the array is (8, 9). Sum of the pair = (8 + 9) = 17. Bitwise AND of the pairs = (8 & 9) = 8. Therefore required Bitwise AND = (17 & 8) = 0.  Input: arr[] = {1, 3, 3}  Output: 2  Explanation:  Pair (1, 3): Required Bitwise AND = (1 + 3) & (1 & 3) = (4 & 1) = 0.  Pair (3, 3): Required Bitwise AND = (3 + 3) & (3 & 3) = (6 & 3) = 2.	U24CS104	Dr. V. Chandra Shekhar Rao

		Therefore, total sum = $0 + 0 + 2 = 2$ .		
51	B24CN051	Develop a menu driven C program to perform then following operation using pointers  1. Reading a String  2. Reverse a String  3. Check the given String is Palindrome or not  4. Number of occurrences of each character  5. Search a Sub string	U24CS104	Dr. V. Chandra Shekhar Rao
52	B24CN052	Develop a menu driven C program to Employee pay roll systems using structures and files(Random access) Which consists of 1. Store and Read the N number of employees information 2. Calculate and generate monthly pay slip report randomly required employee, Search a particular record for information display	U24CS104	Dr. V. Chandra Shekhar Rao
53	B24CN053	My favorite R.K.Narayan novel	U24MH105	Dr.D.Vidyanath
54	B24CN054	My role in social responcibility	U24MH105	Dr.D.Vidyanath
55	B24CN055	Autobiography of A.P.J.Kalam	U24MH105	Dr.D.Vidyanath
56	B24CN056	Village previlages	U24MH105	Dr.D.Vidyanath
57	B24CN057	Pandemic changed life	U24MH105	Dr.D.Vidyanath
58	B24CN058	Temple construction methods of the Kakatiyad	U24MH105	Dr.D.Vidyanath
59	B24CN059	Iam a strong feminist	U24MH105	Dr.D.Vidyanath
60	B24CN060	Conventional games	U24MH105	Dr.D.Vidyanath
61	B24CN061	Jathara at my village	U24MH105	Dr.D.Vidyanath
62	B24CN062	Unknown facts of valmidi	U24MH105	Dr.D.Vidyanath
63	B24CN063	Ramappa temple a world heritage site	U24MH105	Dr.D.Vidyanath

64	B24CN064	Themes of the movies		Dr.D.Vidyanath
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65	B23CN063	Hanmakonda a jain center	U24MH105	Dr.D.Vidyanath
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Signature of the Course Faculty