

PO Attainment

Faculty Name: Ms. Priya Chauhan

Class/Sem: B.Tech(AI)/I Academic Year: 2022-23

Course Name: Problem Solving and Programming in C

Course Code: BCSAI103 Program Name: B.Tech(AI)

CO-PO MAPPING:


Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	3			2	3	2	3			
CO2	1	1	1		3	3	1	3	3	1	2	1
CO3	1		1	1	3	2	2	3	2		1	
CO4	2	1	3	1		1	3	1			2	
CO5	3	1	2	1	2		1	1	1	2	1	2
CO6	2	3	3	3	1	2	1	1	3		3	1

CO ATTAINMENT:


0	Att. Level
CO1	3.00
CO2	3.00
CO3	3.00
CO4	3.00
CO5	3.00
CO6	3.00

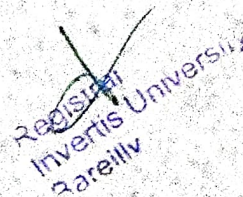
PO ATTAINMENT :

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Overall PO Attainment	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0


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Faculty Name: Ms. Priya Chauhan

Class/Sem: B.Tech(AI)/I

Academic Year: 2022-23

Course Name: Problem Solving and Programming in C

Course Code: BCSA1103

Program Name: B.Tech(AI)

S. No.	University Reg. No.	Student Name	Internal Marks Scheme						Total Internal Marks	End Sem Exam Marks	Total Marks			
			First Unit Test	Second Unit Test	First Class Test	Second Class Test	Best One From Unit Test	Best One From Class Test						
			Theory (25)	Theory (25)	Theory (10)	Theory (10)	Theory (25)	Theory (10)	Unit Test(UT)	Attendance(AT)	Teacher Assessment(TA)	Theory (25)	Theory (50)	Theory (75)
1	BTAI2022004	AYAN ALI	20	16	5	4	20	5	8	8	3	19	19	38
2	BTAI2022006	GENULAS PATEL	20	16	5	4	20	5	8	19	3	19	30	49
3	BTAI2022010	KHUSHI RATHORE	25	18	7	5	23	7	9	35	4	21	48	69
4	BTAI2022011	NANDINI JINDAL	23	18	7	5	23	7	9	32	4	22	45	67
5	BTAI2022013	NIKHIL KHANDELWAL	25	20	6	7	25	8	10	24	5	25	39	64
6	BTAI2022014	NTTISH HARBOLA	25	20	7	5	25	7	10	22	4	23	36	59
7	BTAI2022003	RIMI GUPTA	23	18	7	5	23	7	9	30	4	22	43	65
8	BTAI2022009	VAIBHAV PAL	23	18	7	5	23	7	9	32	4	21	45	66
9	BTAI2022012	VINIKA TANEJA	25	20	7	5	25	7	10	28	4	23	42	65
10	BTAI2022015	PAWNI DIXIT	25	20	7	5	25	7	10	29	4	24	43	67
11	BTAI2022008	SAMAY SINGH	25	20	7	5	25	7	10	19	4	23	33	56
Students appeared for the examination			11	11	11	11	11	11	11	11	11	22	11	11
Target / satisfactory mark set as benchmark			12	12	4	4	12	4	5	5	2	12	28	40
Students scored above the target set			11	11	11	11	11	11	11	11	11	12	10	10
% Students scored above the target set			100%	100%	100%	100%	100%	100%	100%	100%	100%	18	91%	91%
Attainment Level			3	3	3	3	3	3	3	3	3	15	3	3

CO	3	3	3	3	3	3	3	3	3	3	15	3	3	3.00
CO1	3													
CO2	3		3			3	3	3	3	3	15	3	3	3.00
CO3	3											15	3	3.00
CO4		3		3	3	3	3	3	3	3	15	3	3	3.00
CO5		3		3	3	3	3	3	3	3	15	3	3	3.00
CO6		3			3							15	3	3.00

Rubric	Level
% Students	
<50%	1
50-75%	2
>75%	3

Overall attainment **3.00**

Priya
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Q.No	Questions	Marks (50)	CO	BL
	Explain the following:			
1-I	What is the difference between a while and do while?	01	CO1	1.2
1-II	Define the term variable in 'C' and write their rules.	01	CO2	1.1
1-III	What are various operators available in 'C'?	01	CO2	1.2
1-IV	What is a structure?	01	CO2	1.1
1-V	What do you understand by input-output instruction?	01	CO2	1.1
	Explain the following:			
2-I	What is Instruction?	01	CO1	1.1
2-II	Define the term array	01	CO1	1.1
2-III	Why do we use header files in 'C' programming?	01	CO1	1.1
2-IV	What is the use of the getch() function?	01	CO1	1.2
2-V	What is an identifier?	01	CO1	1.1
3-I	What do you understand by procedural programming and their features. OR What is the Data type? Explain different types of data types with example	5	CO2	1.2
3-II	Write a 'C' program to find the factorial of a given number use while loop OR Define a C program used to determine the type of triangle based on sides. A measure of sides input by the user. To check whether the triangle is an isosceles, scalene, or equilateral triangle. [Hint: If all the sides are equal then an equilateral triangle, if any two sides are equal then isosceles triangle otherwise scalene triangle.]	5	CO3	1.3
4-I	Explain loop control instructions in detail with examples. OR (b) Write a C program to generate Fibonacci Series up to 'n' terms. [Hint: 0, 1, 1, 2, 3, 5,]	5	CO3	1.5
4-II	Describe the decision control instruction in detail with examples. OR Write a program in C that allows a user to enter any arithmetic operator (+, -, *, /) and two integer values and display the result according to a selection of the operator.	5	CO4	1.3
5-I	Describe the basic fundamental of C and write a program to test whether the given number is Even or Odd. OR What is the purpose of using structures? How are they declared?	5	CO5	1.4
5-II	What is the function? Explain in detail with the help of a suitable example. OR	5	CO5	1.5
6-I	Write a program in C to find the sum of all elements of an array. OR Write a C program to find the eligibility for admission to a professional course based on the following criteria: Eligibility Criteria: Marks in Math ≥ 65 Marks in Physics ≥ 55 and Marks in Chemistry ≥ 50 and Total in all three subjects ≥ 190 or Total in Math and Physics ≥ 140	5	CO6	1.6

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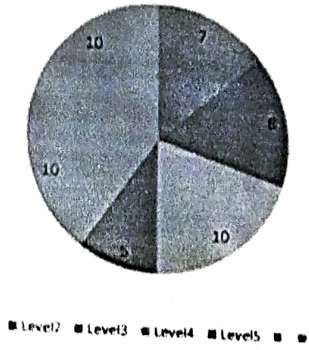
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6.11	What is an array? Write a program to search for the desired element in an array OR Write a program in C to display the n terms of odd natural number and their sum	5	CO6	1.6
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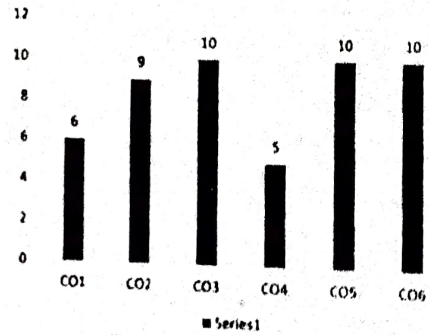
BL - Bloom's Taxonomy Levels
(1- Remembering, 2- Understanding, 3 - Applying, 4 - Analysing, 5 - Evaluating, 6 - Creating)
CO - Course Outcomes PO - Program Outcomes; PI Code - Performance Indicator Code

Level	Marks	CO	Marks
Level1	7	CO1	6
Level2	8	CO2	9
Level3	10	CO3	10
Level4	5	CO4	5
Level5	10	CO5	10
Level6	10	CO6	10
Total	50	Total	50

Bloom's Level wise Marks Distribution



Course Outcome wise Marks Distribution



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Q.No	Questions	Marks (25)	CO	BL
	Explain the following in very short -			
1-I	How many Keywords in C language?	01	CO1	L1
1-II	Write down the range of integer.	01	CO1	L1
1-III	What do you mean by data types?	01	CO2	L2
1-IV	what do you mean by constants?	01	CO1	L2
	Explain the following			
2-I	What is an array? In which situation array is advantageous over linked list?	03	CO2	L2
2-II	What are the good characteristics of an algorithm?	03	CO2	L1
3-I	Draw the foundation of system programming.	03	CO2	L2
3-II	What is assembler?	03	CO2	L2
4-I	What do you mean by flow chart? Draw a flow chart that the year is leap year or not.	05	CO3	L4
4-II	Describe the four basic data types. What is an unsigned integer constant? What is a variable? What is initialization and why is it important?	05	CO3	L4

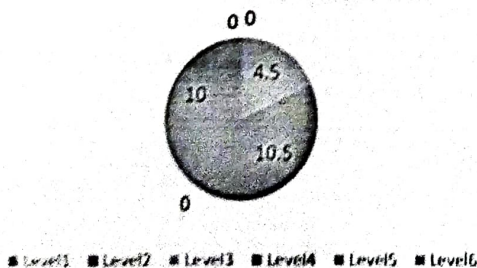
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(1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)

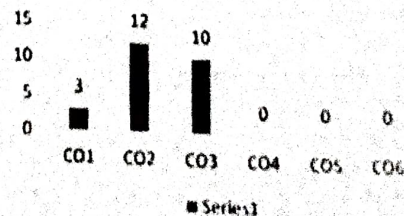
CO – Course Outcomes PO – Program Outcomes; PI Code – Performance Indicator Code

Level	Marks	CO	Marks
Level1	4.5	CO1	3
Level2	10.5	CO2	12
Level3	0	CO3	10
Level4	10	CO4	0
Level5	0	CO5	0
Level6	0	CO6	0
Total	25	Total	25

Bloom's Level wise Marks Distribution



Course Outcome wise Marks Distribution



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Q.No	Questions	Marks (25)	CO	BL
	Explain the following in very short -			
1-I	What is pointer ?	01	CO4	1.1
1-II	What are bit wise operators in C?	01	CO4	1.1
1-III	Write the difference between structure and union	01	CO4	1.2
1-IV	How are logical operators written in C?	01	CO4	1.1
	Explain the following function -			
2-I	Write a C program to check whether input alphabet is a vowel or not	03	CO4	1.2
2-II	Explain linear search and binary search technique.	03	CO5	1.2
3-I	What is a function? Why programmers use functions in code? While executing a function, how the values are passed between calling and called environment?	03	CO5	1.2
3-II	Write an algorithm for swapping two elements without using an extra temporary variable.	03	CO5	1.2
4-I	What is the difference between while and do while ? Write a program to print a reverse number of a given number.	05	CO5	1.2
4-II	What is case control structure in C? What is the reason for using break statement at the end of each case in case control block?	05	CO6	1.4

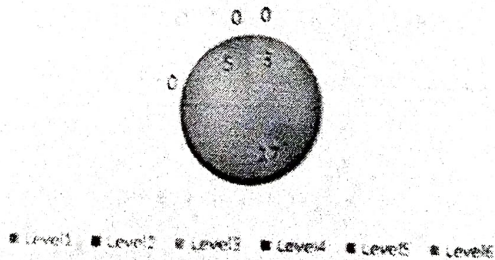
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(1- Remembering, 2- Understanding, 3 - Applying, 4 - Analysing, 5 - Evaluating, 6 - Creating)

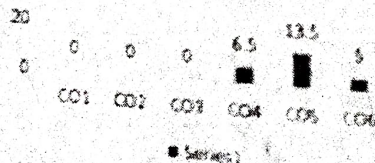
CO - Course Outcomes PO - Program Outcomes; PI Code - Performance Indicator Code

Level	Marks	CO	Marks
Level1	3	CO1	0
Level2	17	CO2	0
Level3	0	CO3	0
Level4	5	CO4	6.5
Level5	0	CO5	13.5
Level6	0	CO6	5
Total	25	Total	25

Bloom's Level wise Marks Distribution



Course Outcome wise Marks Distribution



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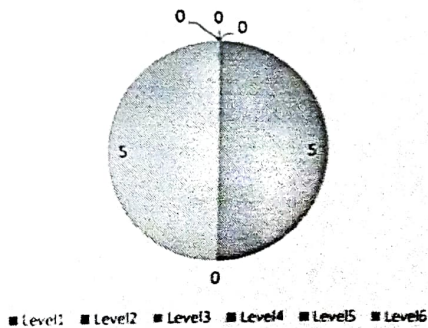
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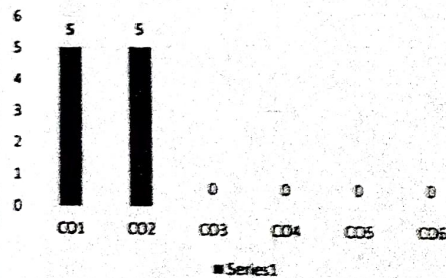
Q.No	Questions	Marks (10)	CO	BL
1	What are the good characteristics of an algorithm?	05	CO1	L3
2	What do you mean by data types? Explain	05	CO2	L1

BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 - Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating) CO – Course Outcomes PO – Program Outcomes; PI Code – Performance Indicator Code			
Level	Marks	CO	Marks
Level1	5	CO1	5
Level2	0	CO2	5
Level3	5	CO3	0
Level4	0	CO4	0
Level5	0	CO5	0
Level6	0	CO6	0
Total	10	Total	10

Bloom's Level wise Marks Distribution



Course Outcome wise Marks Distribution



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Second Class Test 2022-23

B.Tech- I Semester

Course/Code: Problem Solving and Programming in C(BC3A1103)

Maximum Marks :10; Duration: 30 Min



Q.No	Questions	Marks (10)	CO	BL
1	How are logical operators written in C? Explain with example.	05	CO4	L2
2	What is the difference between while and do while ? Write a program to print a reverse number of a given number.	05	CO5	L1

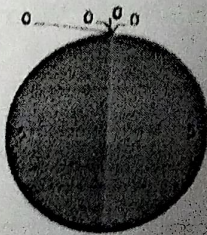
BL - Bloom's Taxonomy Levels

(1- Remembering, 2- Understanding, 3 - Applying, 4 - Analysing, 5 - Evaluating, 6 - Creating)

CO - Course Outcomes PO - Program Outcomes; PI Code - Performance Indicator Code

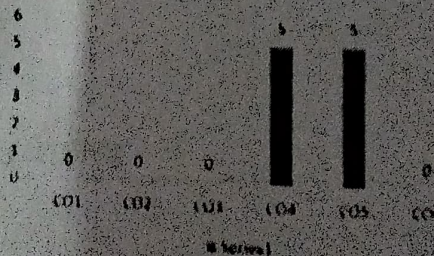
Level	Marks	CO	Marks
Level1	5	CO1	0
Level2	5	CO2	0
Level3	0	CO3	0
Level4	0	CO4	5
Level5	0	CO5	5
Level6	0	CO6	0
Total	10	Total	10

Bloom's Level wise Marks Distribution



Legend: Level1, Level2, Level3, Level4, Level5, Level6

Course Outcome wise Marks Distribution



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PO Attainment

Faculty Name: Dr.Gaurav Agarwal

Class/Sem: B.Tech(AI)2 Academic Year: 2022-23

Course Name: DESIGN THINKING

Course Code: BCSAI-203 Program Name: B.Tech(AI)

CO-PO MAPPING:


Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	3			2	3	2	3			
CO2	1	1	1		3	3	1	3	3	1	2	1
CO3	1		1	1	3	2	2	3	2		1	
CO4	2	1	3	1		1	3	1			2	
CO5	3	1	2	1	2		1	1	1	2	1	2
CO6	2	3	3	3	1	2	1	1	3		3	1


CO ATTAINMENT:


Dr.Gaurav Agarwal	Att. Level
CO1	3.00
CO2	3.00
CO3	3.00
CO4	3.00
CO5	3.00
CO6	3.00

PO ATTAINMENT :

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Overall PO Attainment	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0


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CO Attainment

Faculty Name: Dr. Gourav Agarwal

Class/Sem: B.Tech(AI)/1

Academic Year: 2022-23

Course Name: DESIGN THINKING

Course Code: BCSAI-203

Program Name: B.Tech(AI)

Sl. No.	University Reg. No.	Student Name	Internal Marks Scheme										Total Internal Marks	First Sem Exam Marks	Total Marks
			Theory (25)	Theory (25)	Theory (10)	Theory (10)	Best One From Unit Test	Best One From Class Test	Unit Test(10)	Attendance(10)	Teacher Assessment(10)	Theory (25)			
1	BTAI2022004	AYAN ALI	25	20	7	5	25	7	10	9	4	23	54	57	
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4	BTAI2022011	NANDINI JINDAL	25	20	7	5	25	7	10	9	4	25	47	66	
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9	BTAI2022009	VAIJBHAV PAL	25	20	7	5	25	7	10	9	4	23	28	51	
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Target / satisfactory mark set as benchmark			12	12	4	4	12	4	5	5	2	12	28	40	
Students scored above the target set			11	11	11	11	11	11	11	11	11	12	10	11	
% Students scored above the target set			100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	10	91%	100%
Attainment Level			3	3	3	3	3	3	3	3	3	15	3	3	

CO	3	3	3	3	3	3	3	3	3	15	3	3	3.00
CO1	3		3		3	3	3	3	3	15	3	3	3.00
CO2	3		3		3	3	3	3	3	15	3	3	3.00
CO3	3				3	3	3	3	3	15	3	3	3.00
CO4		3		3	3	3	3	3	3	15	3	3	3.00
CO5		3		3	3	3	3	3	3	15	3	3	3.00
CO6		3			3	3	3	3	3	15	3	3	3.00

Grade	Level
<50%	1
50-75%	2
>75%	3

Overall attainment: 3.00

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Faculty Signature

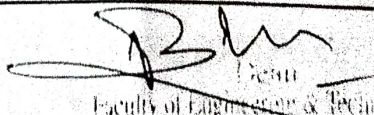
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Q.No	Questions	Marks (50)	CO	BL
	Explain the following:			
1-I	What do you mean by creativity?	01	CO1	L2
1-II	Differentiate between learning and hearing.	01	CO2	L1
1-III	Differentiate between ideation and prototype.	01	CO2	L2
1-IV	Infer the meaning of mind mapping.	01	CO2	L1
1-V	List out the various sector using the design thinking concept	01	CO2	L1
	Explain the following:			
2-I	Define a product and classify them.	01	CO1	L1
2-II	State any two tools of empathy.	01	CO1	L1
2-III	Show the characteristics of design thinking.	01	CO1	L1
2-IV	What do you mean by design thinking?	01	CO1	L2
2-V	Explain the term usability.	01	CO1	L1
3-I	Analysis of design thinking in the service sector. Or Define Brainstorming. what are its principles and rules?	5	CO2	L2
3-II	Discuss innovation with its type and characteristics. Or How is the design process related to design thinking?	5	CO3	L3
4-I	What is the problem with reframing and why it is important? Or Discuss the core creativity skills in detail.	5	CO3	L5
4-II	How does design thinking work with agile? Or Illustrate the role of innovation and creativity in the organization.	5	CO4	L3
5	What are business challenges? Explain any two with design thinking solutions. Or What are the tools and techniques for generating the ideas? Discuss the SCAMPER technique in detail.	10	CO5	L4
6	What do you mean by grounded theory? Explain with a suitable example. Or Elaborate human-centered design with all four principles.	10	CO6	L6

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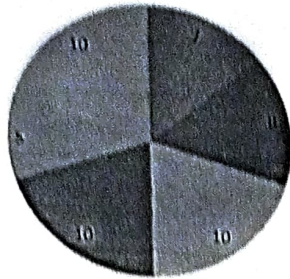
Level	Marks	CO	Marks
Level1	7	CO1	6
Level2	8	CO2	9
Level3	10	CO3	10
Level4	10	CO4	5
Level5	5	CO5	10
Level6	10	CO6	10
Total	50	Total	50


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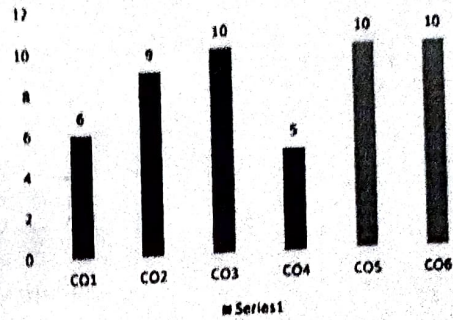

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Bloom's Level wise Marks Distribution

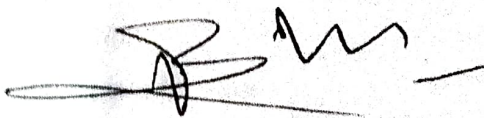


■ Level2 ■ Level3 ■ Level4 ■ Level5 ■ ■

Course Outcome wise Marks Distribution




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Q.No	Questions	Marks (25)	CO	BL
	Explain the following in very short -			
1-I	Foundations of Human Centered Design?	01	CO1	L1
1-II	Barriers to Innovation	01	CO1	L1
1-III	Barriers to Adoption	01	CO2	L2
1-IV	How we can learn the things by doing?	01	CO1	L2
	Explain the following function -			
2-I	What is the need of design?	03	CO2	L2
2-II	Design of Usability?	03	CO2	L1
3-I	What is the impact of Design thinking on society?	03	CO2	L1
3-II	How problem reframing is important?	03	CO2	L3
4-I	What is the role of Design in Engineering?	05	CO3	L4
4-II	Why design thinking is so important?	05	CO3	L4

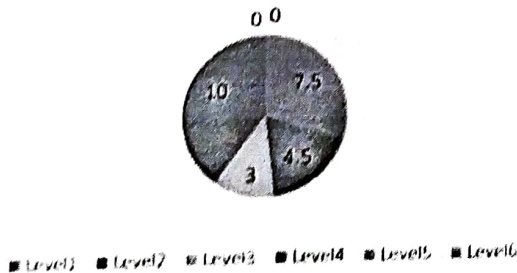
BL – Bloom's Taxonomy Levels

(1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)

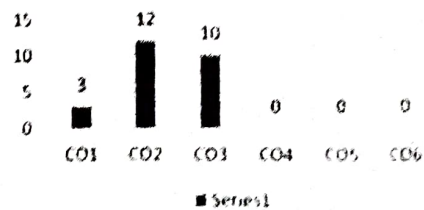
CO – Course Outcomes PO – Program Outcomes; PI Code – Performance Indicator Code

Level	Marks	CO	Marks
Level1	7.5	CO1	3
Level2	4.5	CO2	12
Level3	3	CO3	10
Level4	10	CO4	0
Level5	0	CO5	0
Level6	0	CO6	0
Total	25	Total	25

Bloom's Level wise Marks Distribution



Course Outcome wise Marks Distribution



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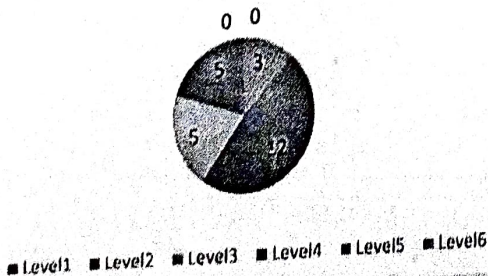
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Q.No	Questions	Marks (25)	CO	BL
	Explain the following in very short -			
1-I	How can you generate ideas?	01	CO4	L1
1-II	What do you mean by prototyping?	01	CO4	L1
1-III	How we document the design?	01	CO4	L2
1-IV	What is learning through thinking.	01	CO4	L1
	Explain the following function -			
2-1	creativity as Teaching and Learning	03	CO4	L2
2-11	What do you mean by design thinking?	03	CO5	L2
3-1	What are the tools and techniques for generating the ideas? Discuss the SCAMPER technique in detail.	03	CO5	L2
3-11	Analysis of design thinking in the service sector.	03	CO5	L2
4-1	How does design thinking work with agile?	05	CO5	L3
4-II	What do you mean by grounded theory? Explain with a suitable example.	05	CO6	L4

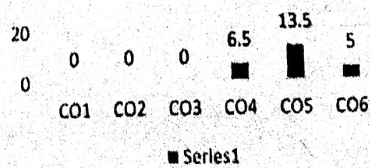
BL – Bloom's Taxonomy Levels
(1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)
CO – Course Outcomes PO – Program Outcomes; PI Code – Performance Indicator Code

Level	Marks	CO	Marks
Level1	3	CO1	0
Level2	12	CO2	0
Level3	5	CO3	0
Level4	5	CO4	6.5
Level5	0	CO5	13.5
Level6	0	CO6	5
Total	25	Total	25

Bloom's Level wise Marks Distribution



Course Outcome wise Marks Distribution



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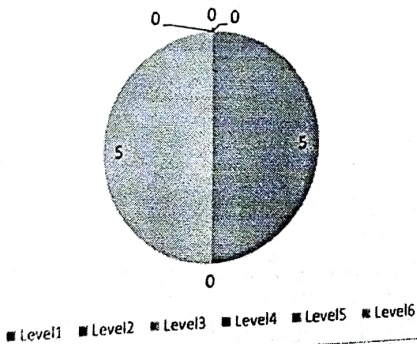
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Q.No	Questions	Marks (10)	CO	BL
1	State any two tools of empathy.	05	CO1	L3
2	Analysis of design thinking in the service sector.	05	CO2	L1

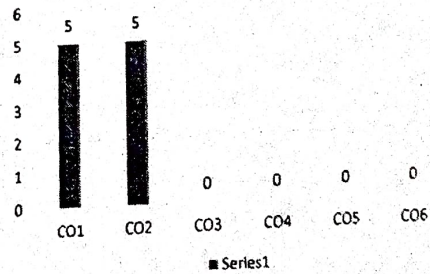
BL – Bloom's Taxonomy Levels
(1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)
CO – Course Outcomes PO – Program Outcomes; PI Code – Performance Indicator Code.

Level	Marks	CO	Marks
Level1	5	CO1	5
Level2	0	CO2	5
Level3	5	CO3	0
Level4	0	CO4	0
Level5	0	CO5	0
Level6	0	CO6	0
Total	10	Total	10

Bloom's Level wise Marks Distribution



Course Outcome wise Marks Distribution



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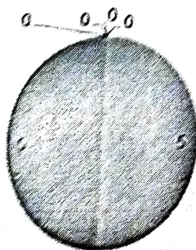
Second Class Test 2022-23
 B.TECH(AI)- II Semester
 Course/Code: DESIGN THINKING (BCSAI-203)
 Maximum Marks :10; Duration: 30 Minutes

Q.No	Questions	Marks (10)	CO	BL
1	Illustrate the role of innovation and creativity in the organization.	05	CO4	1,2
2	What are the tools and techniques for generating the ideas? Discuss the SCAMPER technique in detail.	05	CO5	1,1

BL – Bloom's Taxonomy Levels
 (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)
 CO – Course Outcomes PO – Program Outcomes; PI Code – Performance Indicator Code

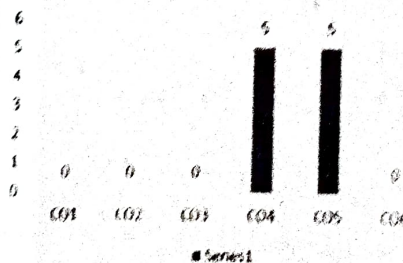
Level	Marks	CO	Marks
Level1	5	CO1	0
Level2	5	CO2	0
Level3	0	CO3	0
Level4	0	CO4	5
Level5	0	CO5	5
Level6	0	CO6	0
Total	10	Total	10

Bloom's Level wise Marks Distribution



Legend: Level1, Level2, Level3, Level4, Level5, Level6

Course Outcome wise Marks Distribution



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