

## Internal Assessment Sheet

**Program:- B.Tech. Artificial Intelligence and Data Science**

**Semester / Section :- IV Semester B.Tech.**

**Course / Course Code: Introdution to AI / BTECH\_AI&DS\_401T**

**Academic Year:- 2024–2025**

Assessment Tools	20		20		70					Activity (8)	Assign (7)	Uni. Exam	
	Sess 1		Sess 2		PUT								
	Q1 or Q2	Q3 or Q4	Q1 or Q2	Q3 or Q4	Q1 or Q2	Q3 or Q4	Q5 or Q6	Q7 or Q8	Q9 or Q10				
<b>Max. Marks</b>	10	10	10	10	14	14	14	14	14	8	7	70	
<b>CO Mapped</b>	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO5	CO1, CO2, CO3, CO4, CO5	CO1, CO2, CO3, CO4, CO5	CO1, CO2, CO3, CO4, CO5	
Sr.No.	University Roll List		Marks Scored										
1	331645	6	4	1	2	7	6	5	1		8	7	39
2	331646	1	9	5	5	14	13	12			8	7	61
3	331647	2	3	3	5	1	1				8	7	18
4	331648	1	3	1	9	3	8	5	9	2	8	7	34
5	331649	2		1	2	3	4	1			8	7	18
6	331650	1	5	1	5	14	12	1	6	7	8	7	49
7	331651	4	2	2	1	2	2	7	1		8	7	27
8	331652	2	2	2	1	AB	AB	AB	AB	AB	8	7	18
9	331653	1	1	1	1	14	14	12	14	13	8	7	50
10	331654	4	4		3	9	11	6			8	7	37
11	331655	4	1	1	1	5	11	11	5		8	7	30
12	331656	1	1	1	1	6	12	7	12	3	8	7	40
13	331657	1	1	8	1	1	7	5	2		8	7	33
14	331658	5	3	2		5	7	1	3		8	7	22

15	331659	4	5	5	2	1	4	1	1		8	7	18
16	331660	3	2	5	1	8	8		2		8	7	26
17	331661	1	5	1		2					8	7	50
18	331662	AB	AB		1	2					8	7	34
19	331663	5	3	1	6	14	14	14	8	1	8	7	55
20	331664	4	3	5	5	7	9	4			8	7	31
21	331665	5	1	7	1	4	9	2	2	1	8	7	30
22	331666	5	3	7	1	5	3	6	2		8	7	24

23	331667	4	9		1	5	1	1	3		8	7	34
24	331668	4	1		1	1	3	1	1	1	8	7	37
25	331669	3	1			1					8	7	20
26	331670	3	3	3	3	3	5	1			8	7	19
27	331671	6	6	1		4	4	2	5	1	8	7	24
28	331672	1	5	6	5	1	14	7	14	6	8	7	29
29	331673	3				1	4	3	2	1	8	7	21
30	331674	1	1	2	1	AB	AB	AB	AB	AB	8	7	22
31	331675	1	9	2	2	AB	AB	AB	AB	AB	8	7	28
32	331676	1	6	5		7	5	4	1	3	8	7	27
33	331677	9	5	2		2					8	7	25
34	331678	6	1	3		3					8	7	20
35	331679	9	7	6		12	5	5	4	1	8	7	31
36	331680	2	3	3	2	3	3	2	4	2	8	7	18
37	331681	9	5	4	1	3	4	2	1		8	7	17
38	331682	1	1	5	5	2	9				8	7	25
39	331683	1		2	2	4	1				8	7	28
40	331684	5		3		12	4	6			8	7	29
41	331685	4	3	AB	AB	1	1				8	7	24
42	331686	3	2				1				8	7	23
43	331687	6	4	1	1	5	11				8	7	26
44	331688	3	2	1	6	2			2	1	8	7	28
45	331689	1				AB	AB	AB	AB	AB	8	7	6
46	331690	3	3	1		8		3			8	7	26
47	331691	9	1			14	11	7	2	1	8	7	26
48	331692	1	1	AB	AB						8	7	11
49	331693	1	1	AB	AB	4	3	7			8	7	3
50	331694	4	2	1		AB	AB	AB	AB	AB	8	7	23
51	331695				6	AB	AB	AB	AB	AB	8	7	10
52	331696	8	7	AB	AB	9	6	7			8	7	20
53	331697	4	1	3	1	1		3	1		8	7	29

54	331698	5	1	3		2	8	3	1		8	7	29
55	331699	2	3	AB	AB	1	2	5	3		8	7	10
56	331700	4		1	1	13					8	7	30
57	331701	4	1	1	1	3	1				8	7	35

58	331702	7		AB	8	7	36						
59	331703	1	2	1		AB	AB	AB	AB	AB	8	7	11
60	331704	5	5	5	1	AB	AB	AB	AB	AB	8	7	28
61	331705	2	3	5	2	5	5	5	3		8	7	43
62	331706	2		3		4			2	1	8	7	29
63	331707	1	1	5	6	13	12	4	2		8	7	47
64	331708	5		2	2	4	5	1			8	7	40
65	331709	3	1	5	1	5	2				8	7	20
66	331710	3	2	8		4	3				8	7	9
67	331711	7	9	1	1	5	1	9			8	7	42
68	331712	2	5	2	4	5	11	1	1		8	7	26
69	331713	1	1	4				3			8	7	20
70	331714			1		3					8	7	22
71	331715	1	1	5	1	14	14	9	7	7	8	7	45
72	331716			5	3	2	4				8	7	35
73	331717	1	1	AB	AB	3	3				8	7	30
74	331718	AB	8	7	35								
75	331719	AB	AB	2		1	5	3			8	7	13

<b>Average =</b>	3.39	3.12	3.04	2.53	5.19	6.27	4.74	3.85	3.06	8.00	7.00	27.79
<b>Absolute Marks (45%)</b>	4.5	4.5	4.5	4.5	6.3	6.3	6.3	6.3	6.3	3.6	3.2	31.5
<b>Total no. of students</b>	65	56	43	44	54	32	29	30	21	66	67	67
<b>No. of students scoring above absolute marks</b>	29	12	11	20	39	14	6	10	3	66	67	19
<b>% of students scoring above absolute marks</b>	44.62	21.43	25.59	45.46	72.23	43.75	20.69	33.34	0.00	100.00	100.00	28.36
<b>CO Attainment</b>	1.00	1.00	1.00	1.05	3.00	1.00	1.00	1.00	0.00	3.00	3.00	1.00

L1 :	45									45 % students scoring more than absolute marks	1
L2 :	55									55 % students scoring more than absolute marks	2
L3 :	65									65 % students scoring more than absolute marks	3

	<b>Sess 1</b>	<b>Sess 2</b>	<b>PUT</b>						<b>Activity</b>			
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Internal CO Attainment =	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2
	1.00	1.00	1.00	1.05	3.00	1.00	1.00	1.00	0.00	3.00	3.00	3.00	3.00	3.00	—	1.00	1.00

	CO Attainment				
	CO1	CO2	CO3	CO4	CO5
Internal CO Attainment	2.00	1.50	1.50	1.51	1.33
University CO Attainment	1.00	1.00	1.00	1.00	1.00
<b>Actual CO Attainment = 80% UCOA + 20% ICOA</b>	<b>1.20</b>	<b>1.10</b>	<b>1.10</b>	<b>1.10</b>	<b>1.07</b>

**Consolidated CO attainment of the subject** **1.11**

CO-PO Mapping & extent of corelation												
COPO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTECH_AI&DS_401T.1	3	2	1	1	2							1
BTECH_AI&DS_401T.2	3	2	2	2	3							2
BTECH_AI&DS_401T.3	3	3	2	2	3							
BTECH_AI&DS_401T.4	3	2	1	1	2							
BTECH_AI&DS_401T.5	3	2	2	1	2				2	2	1	3
BTECH_AI&DS_401T	<b>3.00</b>	<b>2.20</b>	<b>1.60</b>	<b>1.40</b>	<b>2.40</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.40</b>	<b>0.40</b>	<b>0.20</b>	<b>1.20</b>

PO attainment through CO													
COPO	Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTECH_AI&DS_401T.1	<b>1.20</b>	1.20	0.80	0.40	0.40	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.40
BTECH_AI&DS_401T.2	<b>1.10</b>	1.10	0.73	1.91	0.73	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.73
BTECH_AI&DS_401T.3	<b>1.10</b>	1.10	1.10	2.84	0.73	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BTECH_AI&DS_401T.4	<b>1.10</b>	1.10	0.73	1.94	0.37	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BTECH_AI&DS_401T.5	<b>1.07</b>	1.07	0.71	2.87	0.36	0.71	0.00	0.00	0.00	0.71	0.71	0.36	1.07
BTECH_AI&DS_401T	<b>Average</b>	<b>1.11</b>	<b>0.82</b>	<b>1.99</b>	<b>0.52</b>	<b>0.89</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.14</b>	<b>0.14</b>	<b>0.07</b>	<b>0.44</b>

<b>CO-PSO Correlation</b>		
CO\PO	PSO1	PSO2
BTECH_AI&DS_401T.1	3	2
BTECH_AI&DS_401T.2	3	2
BTECH_AI&DS_401T.3	3	3
BTECH_AI&DS_401T.4	3	2
BTECH_AI&DS_401T.5	3	2
BTECH_AI&DS_401T	<b>3.00</b>	<b>2.20</b>

<b>CO-PSO Attainment</b>		
CO\PO	PSO1	PSO2
BTECH_AI&DS_401T.1	1.20	0.80
BTECH_AI&DS_401T.2	1.10	0.73
BTECH_AI&DS_401T.3	1.10	1.10
BTECH_AI&DS_401T.4	1.10	0.73
BTECH_AI&DS_401T.5	1.07	0.71
BTECH_AI&DS_401T	<b>1.11</b>	<b>0.82</b>

**Prof. Roshan R. Kolte**  
**Subject Teacher**









**Assign/ Tut**

CO3	CO4	CO5	CO6
1.00	1.00	1.00	—

## Internal Assessment Sheet

**Program:- B.Tech. Artificial Intelligence and Data Science**

**Semester / Section :- IV Semester B.Tech.**

**Course / Course Code:Theory of Computation/ BTECH\_AI&DS\_402T**

**Academic Year:- 2024–2025**

Assessment Tools	20		20		70					Activity (8)	Assign (7)	Uni. Exam
	Sess 1		Sess 2		PUT							
	Q1 or Q2	Q3 or Q4	Q1 or Q2	Q3 or Q4	Q1 or Q2	Q3 or Q4	Q5 or Q6	Q7 or Q8	Q9 or Q10			
<b>Max. Marks</b>	10	10	10	10	14	14	14	14	14	8	7	70
<b>CO Mapped</b>	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO5	CO1, CO2, CO3, CO4, CO5	CO1, CO2, CO3, CO4, CO5	CO1, CO2, CO3, CO4, CO5

Sr.No.	University Roll List	Marks Scored											
1	331645		2	2	1		1				8	7	33
2	331646	2	4	3	3		2				8	7	34
3	331647	5	5	4							8	7	10
4	331648	6	4	1	7	14	13	7	9		8	7	40
5	331649	1		1		1			1	1	8	7	20
6	331650	9	4	4	4	6	6	6	1		8	7	26
7	331651	3	7			6	3		2	1	8	7	22
8	331652	1	4	1			6	4	9	1	8	7	28
9	331653	9	4	1	1	14	13	14	4		8	7	42
10	331654	8	5	3	9	9	6	3	11		8	7	25
11	331655	8	5	8	1	9	6	14	7		8	7	32
12	331656	1	4	5	1	1	11	7	13		8	7	39
13	331657	5	4	5	6	1	12	7	13		8	7	26
14	331658	6	5	5	4	6	6				8	7	16

15	331659	5	5				1				8	7	28
16	331660	2	4	5	3	1	6				8	7	17
17	331661	3							1		8	7	37
18	331662	2									8	7	31
19	331663	3		7		1	5				8	7	39
20	331664	4	5	4	3	6	4		5		8	7	22
21	331665	5		8		7	2	4	1		8	7	31
22	331666	2	3	4	1	1	4		1		8	7	26



54	331698	5	2			4					8	7	19
55	331699	1	3	AB	AB	4					8	7	17
56	331700	3		5					5		8	7	27
57	331701	9	2	5	3		4	1	1		8	7	22

58	331702	5	5	AB	AB						8	7	2
59	331703										8	7	6
60	331704	3	3	8	2	7	7				8	7	21
61	331705			5	4	9	7			8	8	7	13
62	331706	2		1		2				2	8	7	30
63	331707	6	5	5	3	7	12	2	1		8	7	39
64	331708	6	3	6	2	1			1		8	7	32
65	331709					2					8	7	29
66	331710	2		5	5		4	3			8	7	18
67	331711	5	3	5	2			7	2		8	7	39
68	331712	6	5	4		7			7		8	7	20
69	331713	2		4					5		8	7	18
70	331714	1		AB	AB	3					8	7	10
71	331715	7	5	4		4	5	2	1		8	7	24
72	331716			5	4	3	4		3		8	7	16
73	331717	1		AB	AB	3	4		2		8	7	25
74	331718										8	7	12
75	331719	AB	AB				2		1		8	7	11
<b>Average =</b>		4.28	3.77	3.83	3.09	5.90	5.84	5.57	3.95	2.64	8.00	7.00	22.96
<b>Absolute Marks (45%)</b>		4.5	4.5	4.5	4.5	6.3	6.3	6.3	6.3	6.3	3.6	3.2	31.5

<b>Total no. of students</b>	54	41	43	31	34	39	19	30	11	66	66	67
<b>No. of students scoring above absolute marks</b>	29	12	19	5	14	13	9	7	2	66	66	13
<b>% of students scoring above absolute marks</b>	53.71	29.27	44.19	16.13	41.18	33.34	47.37	23.34	0.00	100.00	100.00	19.41
<b>CO Attainment</b>	1.87	1.00	1.00	1.00	1.00	1.00	1.24	1.00	0.00	3.00	3.00	1.00

L1 :	45					45 % students scoring more than absolute marks	1
L2 :	55					55 % students scoring more than absolute marks	2
L3 :	65					65 % students scoring more than absolute marks	3

Internal CO Attainment =	Sess 1		Sess 2		PUT					Activity							
	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2
	1.87	1.00	1.00	1.00	1.00	1.00	1.24	1.00	0.00	3.00	3.00	3.00	3.00	3.00	—	1.00	1.00

	CO Attainment				
	CO1	CO2	CO3	CO4	CO5
Internal CO Attainment	1.72	1.50	1.56	1.50	1.33
University CO Attainment	1.00	1.00	1.00	1.00	1.00
<b>Actual CO Attainment = 80% UCOA + 20% ICOA</b>	<b>1.14</b>	<b>1.10</b>	<b>1.11</b>	<b>1.10</b>	<b>1.07</b>

<b>Consoliated CO attainment of the subject</b>	<b>1.10</b>
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CO-PO Mapping & extent of corelation												
COPO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTECH AI&DS 402T.1	3	3	2	2	1			1	1	2		3
BTECH AI&DS 402T.2	1	2	2					2	3	3	2	1
BTECH AI&DS 402T.3	3	3	3	2	3			1	2	2	3	2
BTECH AI&DS 402T.4	3	2	2	1								2
BTECH AI&DS 402T.5	3	2	2	1								1
<b>BTECH AI&amp;DS_402T</b>	<b>2.60</b>	<b>2.40</b>	<b>2.20</b>	<b>1.20</b>	<b>0.80</b>	<b>0.00</b>	<b>0.00</b>	<b>0.80</b>	<b>1.20</b>	<b>1.40</b>	<b>1.00</b>	<b>1.80</b>

PO attainment through CO													
COPO	Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTECH AI&DS 402T.1	<b>1.14</b>	1.14	1.14	0.76	0.76	0.38	0.00	0.00	0.38	0.38	0.76	0.00	1.14

BTECH_AI&DS_402T.2	1.10	0.37	0.73	1.91	0.00	0.00	0.00	0.00	0.73	1.10	1.10	0.73	0.37
BTECH_AI&DS_402T.3	1.11	1.11	1.11	2.84	0.74	1.11	0.00	0.00	0.37	0.74	0.74	1.11	0.74
BTECH_AI&DS_402T.4	1.10	1.10	0.73	1.94	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73
BTECH_AI&DS_402T.5	1.07	1.07	0.71	2.87	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
BTECH_AI&DS_402T	Average	0.96	0.89	2.06	0.45	0.30	0.00	0.00	0.30	0.44	0.52	0.37	0.67

CO-PSO Correlation		
COPO	PSO1	PSO2
BTECH_AI&DS_402T.1	3	3
BTECH_AI&DS_402T.2	2	3
BTECH_AI&DS_402T.3	3	3
BTECH_AI&DS_402T.4	3	2
BTECH_AI&DS_402T.5	3	2
BTECH_AI&DS_402T	2.80	2.60

CO-PSO Attainment		
COPO	PSO1	PSO2
BTECH_AI&DS_402T.1	1.14	1.14
BTECH_AI&DS_402T.2	0.73	1.10
BTECH_AI&DS_402T.3	1.11	1.11
BTECH_AI&DS_402T.4	1.10	0.73
BTECH_AI&DS_402T.5	1.07	0.71
BTECH_AI&DS_402T	1.03	0.96

Prof. Roshan R. Kolte  
Subject Teacher











<b>Assign/ Tut</b>			
<b>CO3</b>	<b>CO4</b>	<b>CO5</b>	<b>CO6</b>
1.00	1.00	1.00	—

## Internal Assessment Sheet

**Program:- B.Tech. Artificial Intelligence and Data Science**

**Semester / Section :- IV Semester B.Tech.**

**Course / Course Code:Mathematical Foundation of Data Science / BTECH\_AI&DS\_403T**

**Academic Year:- 2024–2025**

Assessment Tools	20		20		70					Activity (8)	Assign (7)	Uni. Exam	
	Sess 1		Sess 2		PUT								
	Q1 or Q2	Q3 or Q4	Q1 or Q2	Q3 or Q4	Q1 or Q2	Q3 or Q4	Q5 or Q6	Q7 or Q8	Q9 or Q10				
<b>Max. Marks</b>	10	10	10	10	14	14	14	14	14	8	7	70	
<b>CO Mapped</b>	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO5	CO1, CO2, CO3, CO4, CO5	CO1, CO2, CO3, CO4, CO5	CO1, CO2, CO3, CO4, CO5	
Sr.No.	University Roll List		Marks Scored										
1	331645	5	2	1	2	11				2	8	7	25
2	331646	1		3		11					8	7	32
3	331647	9	7	2		1					8	7	29
4	331648	9	5	1	5	7	13	6	7	4	8	7	49
5	331649	5	1								8	7	29
6	331650	8	8	1	8	14	4	8	5	9	8	7	41
7	331651	9	5			8					8	7	21
8	331652	8	6	5	4	12	9	6	5	2	8	7	41
9	331653	1	4	1	1	14	12	7	7	5	8	7	59
10	331654	9	5	1	2	13	11	6	7		8	7	47
11	331655	7	4	1	2	12	13	6	4	3	8	7	33
12	331656	9	4	7	2	13	13	7	7	7	8	7	42
13	331657	9	5	5	7	14	14	7	13	7	8	7	37
14	331658	9	2	4	5	7					8	7	30

15	331659	1	4	5		2		2	4		8	7	16
16	331660	5			5	11		7	5	2	8	7	27
17	331661	5				2					8	7	25
18	331662	AB	AB		2	2					8	7	27
19	331663	2				7					8	7	31
20	331664	1	5	1	4	14	3	2			8	7	19
21	331665	2			1	7					8	7	18
22	331666	5	5	4	4	5		2	7		8	7	32

23	331667	8	1	2	5	14	5		7	2	8	7	25
24	331668	2			2	7		2	4		8	7	28
25	331669			1		6			4		8	7	23
26	331670	2		2	3	1	2	4	3		8	7	32
27	331671	4		2	3	12		3	2		8	7	24
28	331672	8			8	11	7		4		8	7	30
29	331673	3				2				2	8	7	28
30	331674	9	4	3	6	AB	AB	AB	AB	AB	8	7	19
31	331675	9	5	5	7	11	9	2	6	2	8	7	42
32	331676	5	8	4	4	6	4	5	7		8	7	39
33	331677	5	8	6	5				5		8	7	34
34	331678	5	5	2	5	13					8	7	19
35	331679		5	3	9	13		2	3		8	7	34
36	331680		4	4	5						8	7	25
37	331681		1	2				2		1	8	7	16
38	331682	2	3	6	1	2	2				8	7	24
39	331683	2	3	4	5	8	1				8	7	34
40	331684				5	4					8	7	14
41	331685			AB	AB						8	7	23
42	331686		3								8	7	23
43	331687	6		5	6	14	7	6	7	2	8	7	37
44	331688	5		1	8	13	3	5	5	2	8	7	36
45	331689										8	7	2
46	331690		3		3		7				8	7	6
47	331691	5	9	5	1	14	1	7	7	3	8	7	30
48	331692			1	1		3				8	7	17
49	331693	AB	AB	AB	AB		2				8	7	14
50	331694	1				1	1				8	7	20
51	331695	2				14					8	7	25
52	331696	9		AB	AB	14				4	8	7	42
53	331697	5	1	4	1	8			5	2	8	7	19

54	331698		7	4	1	7			5	3	8	7	22
55	331699		1	3				2			8	7	8
56	331700	AB	AB	3		14	4	6			8	7	29
57	331701	6	3	1	2	14	2		4		8	7	27

58	331702			AB	AB	14					8	7	18
59	331703	AB	AB			3					8	7	7
60	331704	4	1	9	4	1	2	6	2	2	8	7	43
61	331705	9		4	5	14	4	6	5	1	8	7	29
62	331706	9		2		8	4	3			8	7	19
63	331707	7	4	5	4	1	7	6			8	7	43
64	331708	5	5	4	4	12	12	3	5		8	7	45
65	331709	5	3		8	9	12				8	7	33
66	331710	5	2		6	7	1				8	7	23
67	331711	5	4	3		1	2	6	7		8	7	43
68	331712	8		3					6	3	8	7	22
69	331713	8		5		9			3	2	8	7	16
70	331714			1		5			3		8	7	21
71	331715	5	2	1		7	5		8	3	8	7	20
72	331716	5	2	2		1	6	3	11	1	8	7	15
73	331717	5	2	2		9	6		13		8	7	17
74	331718	2									8	7	13
75	331719	2								7	8	7	16
<b>Average =</b>		5.37	3.98	3.12	4.11	8.52	5.92	4.68	5.73	3.19	8.00	7.00	26.97
<b>Absolute Marks (45%)</b>		4.5	4.5	4.5	4.5	6.3	6.3	6.3	6.3	6.3	3.6	3.2	31.5

<b>Total no. of students</b>	49	39	43	44	54	32	29	30	21	66	66	67
<b>No. of students scoring above absolute marks</b>	34	17	11	20	39	14	6	10	3	66	66	24
<b>% of students scoring above absolute marks</b>	69.39	43.59	25.59	45.46	72.23	43.75	20.69	33.34	0.00	100.00	100.00	35.83
<b>CO Attainment</b>	3.00	1.00	1.00	1.05	3.00	1.00	1.00	1.00	0.00	3.00	3.00	1.00

L1 :	45					45 % students scoring more than absolute marks					1
L2 :	55					55 % students scoring more than absolute marks					2
L3 :	65					65 % students scoring more than absolute marks					3

	<b>Sess 1</b>	<b>Sess 2</b>	<b>PUT</b>					<b>Activity</b>				
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Internal CO Attainment =	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2
	3.00	1.00	1.00	1.05	3.00	1.00	1.00	1.00	0.00	3.00	3.00	3.00	3.00	3.00	—	1.00	1.00

	CO Attainment				
	CO1	CO2	CO3	CO4	CO5
Internal CO Attainment	2.50	1.50	1.50	1.51	1.33
University CO Attainment	1.00	1.00	1.00	1.00	1.00
<b>Actual CO Attainment = 80% UCOA + 20% ICOA</b>	<b>1.30</b>	<b>1.10</b>	<b>1.10</b>	<b>1.10</b>	<b>1.07</b>

<b>Consolidated CO attainment of the subject</b>	<b>1.13</b>
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CO-PO Mapping & extent of corelation												
COPO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTECH_AI&DS_403T.1	3	3	2	2	1							2
BTECH_AI&DS_403T.2	3	3	2	2	2			1	1	2	1	2
BTECH_AI&DS_403T.3	3	3	2	2	2				1	2	1	2
BTECH_AI&DS_403T.4	3	3	2	3	1				1	2	1	2
BTECH_AI&DS_403T.5	3	3	2	2	3	1				2	1	2
<b>BTECH_AI&amp;DS_403T</b>	<b>3.00</b>	<b>3.00</b>	<b>2.00</b>	<b>2.20</b>	<b>1.80</b>				<b>0.60</b>		<b>0.80</b>	<b>2.00</b>

PO attainment through CO													
COPO	Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTECH_AI&DS_403T.1	<b>1.30</b>	1.30	1.30	0.87	0.87	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.87
BTECH_AI&DS_403T.2	<b>1.10</b>	1.10	1.10	1.91	0.73	0.73	0.00	0.00	0.37	0.37	0.73	0.37	0.73
BTECH_AI&DS_403T.3	<b>1.10</b>	1.10	1.10	2.84	0.73	0.73	0.00	0.00	0.00	0.37	0.73	0.37	0.73
BTECH_AI&DS_403T.4	<b>1.10</b>	1.10	1.10	1.94	1.10	0.37	0.00	0.00	0.00	0.37	0.73	0.37	0.73
BTECH_AI&DS_403T.5	<b>1.07</b>	1.07	1.07	2.87	0.71	1.07	0.36	0.00	0.00	0.00	0.71	0.36	0.71
<b>BTECH_AI&amp;DS_403T</b>	<b>Average</b>	<b>1.13</b>	<b>1.13</b>	<b>2.09</b>	<b>0.83</b>	<b>0.67</b>	<b>0.07</b>	<b>0.00</b>	<b>0.07</b>	<b>0.22</b>	<b>0.58</b>	<b>0.29</b>	<b>0.76</b>

<b>CO-PSO Correlation</b>		
CO/PO	PSO1	PSO2
BTECH_AI&DS_403T.1	3	2
BTECH_AI&DS_403T.2	3	2
BTECH_AI&DS_403T.3	3	2
BTECH_AI&DS_403T.4	3	2
BTECH_AI&DS_403T.5	3	3
BTECH_AI&DS_403T	<b>3.00</b>	<b>2.20</b>

<b>CO-PSO Attainment</b>		
CO/PO	PSO1	PSO2
BTECH_AI&DS_403T.1	1.30	0.87
BTECH_AI&DS_403T.2	1.10	0.73
BTECH_AI&DS_403T.3	1.10	0.73
BTECH_AI&DS_403T.4	1.10	0.73
BTECH_AI&DS_403T.5	1.07	1.07
BTECH_AI&DS_403T	<b>1.13</b>	<b>0.83</b>

**Prof. Roshan R. Kolte**  
**Subject Teacher**









**Assign/ Tut**

CO3	CO4	CO5	CO6
1.00	1.00	1.00	—

## Internal Assessment Sheet

**Program:- B.Tech. Artificial Intelligence and Data Science**

**Semester / Section :- IV Semester B.Tech.**

**Course / Course Code: OOPS with JAVA/ BTECH\_AI&DS\_404T**

**Academic Year:- 2024–2025**

Assessment Tools	20		20		70					Activity (8)	Assign (7)	Uni. Exam	
	Sess 1		Sess 2		PUT								
	Q1 or Q2	Q3 or Q4	Q1 or Q2	Q3 or Q4	Q1 or Q2	Q3 or Q4	Q5 or Q6	Q7 or Q8	Q9 or Q10				
<b>Max. Marks</b>	10	10	10	10	14	14	14	14	14	8	7	70	
<b>CO Mapped</b>	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO5	CO1, CO2, CO3, CO4, CO5	CO1, CO2, CO3, CO4, CO5	CO1, CO2, CO3, CO4, CO5	
Sr.No.	University Roll List		Marks Scored										
1	331645	2	2	3	1	7	6	5	1		8	7	29
2	331646	2	4	4	1	14	13	12			8	7	46
3	331647	7	7	3	2	1	1				8	7	19
4	331648	3	4	6	3	3	8	5	9	2	8	7	45
5	331649	2	2	5	6	3	4	1			8	7	32
6	331650	3	6	9	1	14	12	1	6	7	8	7	41
7	331651	8	5	6	3	2	2	7	1		8	7	30
8	331652	7	6	2	3	AB	AB	AB	AB	AB	8	7	35
9	331653	7	7	1	9	14	14	12	14	13	8	7	45
10	331654	6	4	5	1	9	11	6			8	7	42
11	331655	8	6	5	7	5	11	11	5		8	7	33
12	331656	9	6	1	1	6	12	7	12	3	8	7	47
13	331657	7	7	6	8	1	7	5	2		8	7	38
14	331658	5	4	4	3	5	7	1	3		8	7	30

15	331659	5	8	8	9	1	4	1	1		8	7	41
16	331660	1	2	3	3	8	8		2		8	7	32
17	331661	2	2	1		2					8	7	42
18	331662	AB	AB	3	5	2					8	7	40
19	331663	6	2	8		14	14	14	8	1	8	7	45
20	331664		3	5		7	9	4			8	7	27
21	331665	9	4	9	7	4	9	2	2	1	8	7	42
22	331666	4	2	6	4	5	3	6	2		8	7	42

23	331667	9	4	6	8	5	1	1	3		8	7	38
24	331668	3	4	3	3	1	3	1	1	1	8	7	40
25	331669	3	1		2	1					8	7	33
26	331670	4		3	2	3	5	1			8	7	26
27	331671	2	3	5	4	4	4	2	5	1	8	7	44
28	331672	7	4	7	7	1	14	7	14	6	8	7	46
29	331673	1	1	7	1	1	4	3	2	1	8	7	30
30	331674	5	5	8	5	AB	AB	AB	AB	AB	8	7	12
31	331675	7	5	AB	8	7	42						
32	331676	2	2	1	4	7	5	4	1	3	8	7	37
33	331677	8	5	AB	AB	2					8	7	35
34	331678	7	4	7	1	3					8	7	25
35	331679	7	4	7	1	12	5	5	4	1	8	7	49
36	331680	2	5	6	5	3	3	2	4	2	8	7	32
37	331681	8	4	9	7	3	4	2	1		8	7	44
38	331682	7	2	8	7	2	9				8	7	40
39	331683	5	2	6	5	4	1				8	7	36
40	331684	5		7	1	12	4	6			8	7	24
41	331685	7	3	AB	AB	1	1				8	7	32
42	331686	6	1	5	2		1				8	7	23
43	331687	6	1	1	1	5	11				8	7	40
44	331688	3	2	7	9	2			2	1	8	7	30
45	331689										8	7	20
46	331690	6	3	AB	AB	8		3			8	7	26
47	331691	7	6	7	6	14	11	7	2	1	8	7	29
48	331692	2	1	2	2						8	7	3
49	331693	2	2	AB	AB	4	3	7			8	7	5
50	331694	3	1	5	2	AB	AB	AB	AB	AB	8	7	32
51	331695	4		6							8	7	31
52	331696	5	3	AB	AB	9	6	7			8	7	32
53	331697	7	4	4	5	1		3	1		8	7	34

54	331698	6	3	4	4	2	8	3	1		8	7	38
55	331699	4		3	4	1	2	5	3		8	7	28
56	331700	AB	AB	6	4	13					8	7	32
57	331701	7	1	4	3	3	1				8	7	25

58	331702	7	6	AB	AB						8	7	18
59	331703	AB	AB	2							8	7	5
60	331704	4	1	5	1						8	7	24
61	331705	1	1	6	5	5	5	5	3		8	7	26
62	331706	2	3	3	1	4			2	1	8	7	29
63	331707	5	7	8	4	13	12	4	2		8	7	40
64	331708	3	3	4	7	4	5	1			8	7	45
65	331709	1		3	2	5	2				8	7	17
66	331710	2		5	2	4	3				8	7	12
67	331711	6	6	9	9	5	1	9			8	7	51
68	331712	3		6	5	5	11	1	1		8	7	27
69	331713	1	1	4	1			3			8	7	18
70	331714			1		3					8	7	0
71	331715	8	9	1	8	14	14	9	7	7	8	7	43
72	331716	1		5	2	2	4				8	7	35
73	331717	1		9	2	3	3				8	7	25
74	331718	AB	AB								8	7	1
75	331719	AB	AB	1							8	7	3
<b>Average =</b>		4.85	3.61	5.03	3.94	5.25	6.15	4.82	3.84	0.00	8.00	7.00	32.58
<b>Absolute Marks (45%)</b>		4.5	4.5	4.5	4.5	6.3	6.3	6.3	6.3	6.3	3.6	3.2	31.5

<b>Total no. of students</b>	62	57	58	54	56	47	39	31	16	67	67	67
<b>No. of students scoring above absolute marks</b>	35	17	35	20	16	19	11	5	2	67	67	40
<b>% of students scoring above absolute marks</b>	56.46	29.83	60.35	37.04	28.58	40.43	28.21	16.13	0.00	100.00	100.00	59.71
<b>CO Attainment</b>	2.15	1.00	2.54	1.00	1.00	1.00	1.00	1.00	0.00	3.00	3.00	2.47

L1 :	45									45 % students scoring more than absolute marks	1
L2 :	55									55 % students scoring more than absolute marks	2
L3 :	65									65 % students scoring more than absolute marks	3

	<b>Sess 1</b>	<b>Sess 2</b>	<b>PUT</b>				<b>Activity</b>				
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Internal CO Attainment =	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2
	2.15	1.00	2.54	1.00	1.00	1.00	1.00	1.00	0.00	3.00	3.00	3.00	3.00	3.00	—	2.47	2.47

	CO Attainment				
	CO1	CO2	CO3	CO4	CO5
Internal CO Attainment	2.15	1.87	2.25	1.87	1.82
University CO Attainment	2.47	2.47	2.47	2.47	2.47
<b>Actual CO Attainment = 80% UCOA + 20% ICOA</b>	<b>2.41</b>	<b>2.35</b>	<b>2.43</b>	<b>2.35</b>	<b>2.34</b>

<b>Consolidated CO attainment of the subject</b>	<b>2.38</b>
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CO-PO Mapping & extent of corelation												
COPO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTECH_AI&DS_404T.1	3	2	2	1	2					2		1
BTECH_AI&DS_404T.2	3	2	3	1	2					1		1
BTECH_AI&DS_404T.3	3	2	3	2	2				2	2	1	2
BTECH_AI&DS_404T.4	3	2	2	1	2				1	2	1	
BTECH_AI&DS_404T.5	3	2	3	2	3				2	2	2	1
<b>BTECH_AI&amp;DS_404T</b>	<b>3.00</b>	<b>2.00</b>	<b>2.60</b>	<b>1.40</b>	<b>2.20</b>				<b>1.00</b>		<b>0.80</b>	<b>1.00</b>

PO attainment through CO													
COPO	Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTECH_AI&DS_404T.1	<b>2.41</b>	2.41	1.61	1.61	0.80	1.61	0.00	0.00	0.00	0.00	1.61	0.00	0.80
BTECH_AI&DS_404T.2	<b>2.35</b>	2.35	1.57	1.91	0.78	1.57	0.00	0.00	0.00	0.00	0.78	0.00	0.78
BTECH_AI&DS_404T.3	<b>2.43</b>	2.43	1.62	2.84	1.62	1.62	0.00	0.00	0.00	1.62	1.62	0.81	1.62
BTECH_AI&DS_404T.4	<b>2.35</b>	2.35	1.57	1.94	0.78	1.57	0.00	0.00	0.00	0.78	1.57	0.78	0.00
BTECH_AI&DS_404T.5	<b>2.34</b>	2.34	1.56	2.87	1.56	2.34	0.00	0.00	0.00	1.56	1.56	1.56	0.78
<b>BTECH_AI&amp;DS_404T</b>	<b>Average</b>	<b>2.38</b>	<b>1.58</b>	<b>2.23</b>	<b>1.11</b>	<b>1.74</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.79</b>	<b>1.43</b>	<b>0.63</b>	<b>0.80</b>

<b>CO-PSO Correlation</b>		
CO/PO	PSO1	PSO2
BTECH_AI&DS_404T.1	3	2
BTECH_AI&DS_404T.2	3	2
BTECH_AI&DS_404T.3	3	2
BTECH_AI&DS_404T.4	3	2
BTECH_AI&DS_404T.5	3	2
BTECH_AI&DS_404T	<b>3.00</b>	<b>2.00</b>

<b>CO-PSO Attainment</b>		
CO/PO	PSO1	PSO2
BTECH_AI&DS_404T.1	2.41	1.61
BTECH_AI&DS_404T.2	2.35	1.57
BTECH_AI&DS_404T.3	2.43	1.62
BTECH_AI&DS_404T.4	2.35	1.57
BTECH_AI&DS_404T.5	2.34	1.56
BTECH_AI&DS_404T	<b>2.38</b>	<b>1.58</b>

**Prof. Roshan R. Kolte**  
**Subject Teacher**









**Assign/ Tut**

<b>CO3</b>	<b>CO4</b>	<b>CO5</b>	<b>CO6</b>
2.47	2.47	2.47	—

## Internal Assesment Sheet

**Program:- B.Tech. Artificial Intelligence and Data Science**

**Semester / Section :- IV Semester B.Tech.**

**Course / Course Code: Database Management Sysytem / BTECH\_AI&DS\_405T**

**Academic Year:- 2024–2025**

Assessment Tools	20		20		70					Activity (8)	Assign (7)	Uni. Exam	
	Sess 1		Sess 2		PUT								
	Q1 or Q2	Q3 or Q4	Q1 or Q2	Q3 or Q4	Q1 or Q2	Q3 or Q4	Q5 or Q6	Q7 or Q8	Q9 or Q10				
<b>Max. Marks</b>	10	10	10	10	14	14	14	14	14	8	7	70	
<b>CO Mapped</b>	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO5	CO1, CO2, CO3, CO4, CO5	CO1, CO2, CO3, CO4, CO5	CO1, CO2, CO3, CO4, CO5	
Sr.No.	University Roll List		Marks Scored										
1	331645	7	3	1	2	3		1		1	8	7	23
2	331646	7	3	4		7	3	1			8	7	31
3	331647	6	4	1							8	7	17
4	331648	7	5	6	7	9	8	11		1	8	7	31
5	331649	1	5	6			4	3			8	7	20
6	331650	6	7	7	8	11	6	1	7	4	8	7	33
7	331651	2	5	1	2	1	3	3			8	7	23
8	331652	6		1	3			8		2	8	7	25
9	331653	8	6	8	9						8	7	38
10	331654	7	6	3	3	4	3	1			8	7	34
11	331655	4	6	5	6	1	3	11			8	7	23
12	331656	7	8	6	5	8	4	12	2	4	8	7	37
13	331657	4	5	2	9	12	8	4			8	7	23
14	331658	4	5	5	8	3	2	3			8	7	29

15	331659	7	4	1	5		3	7	3		8	7	16
16	331660	6	4	3	5	6	4	9		3	8	7	22
17	331661	6	2		3						8	7	37
18	331662	6		3	2	4				1	8	7	25
19	331663	5	2	5	5	12		6			8	7	35
20	331664	3	5		5				6	5	8	7	21
21	331665	6	7	4	5	6	3	6		2	8	7	25
22	331666	5	6	2	7	1	7	6	3	2	8	7	22

23	331667	6	6	2	5	4		8			8	7	27
24	331668	1	2	4	6	4	2	9			8	7	27
25	331669	6		1			1	2			8	7	11
26	331670	7	2	3	1	9	7				8	7	10
27	331671	5	4	5	2	7	2	6			8	7	18
28	331672	6	3		6	12	2	11			8	7	30
29	331673	2	2		1		3	1	3	5	8	7	17
30	331674	4	3	1	6	AB	AB	AB	AB	AB	8	7	16
31	331675	7	5	6	5	7	1	12			8	7	25
32	331676	2	6		7		3	13		8	8	7	28
33	331677	6	6	3	7	5	4	3			8	7	26
34	331678	4	3	4		8					8	7	16
35	331679	6	5	5	5		3	6		5	8	7	32
36	331680	7	7	5	6	6		1	4	5	8	7	26
37	331681	6	6	5	6	11	7	5		1	8	7	23
38	331682	6	2	1		7	3	7			8	7	23
39	331683	6	2			8	3				8	7	21
40	331684	2	2	2	2	3		3		2	8	7	12
41	331685	5	6	AB	AB				4	2	8	7	26
42	331686	2	6	1		3	1			1	8	7	22
43	331687	4	6	2	6	7	4	1			8	7	23
44	331688	6	7	6	3	8	9	3	6	1	8	7	23
45	331689	3	2	2	1	4					8	7	13
46	331690	4	2		6		3	7			8	7	22
47	331691	7	7	1	4	11		1			8	7	22
48	331692	3	1		1			1			8	7	5
49	331693	AB	AB			3					8	7	8
50	331694	3		3	1	5	2	3			8	7	16
51	331695			3	1						8	7	14
52	331696	5	4			5		4			8	7	18
53	331697	4	4	1	1	5	3				8	7	14

54	331698	2	3	1	1		1	1			8	7	17
55	331699	6	2	5	2	6	3	3			8	7	27
56	331700	AB	AB	1			6	2			8	7	26
57	331701	3	3	2	3	3	1	1			8	7	23

58	331702	5	3	1				1			8	7	11
59	331703	AB	AB			1		1			8	7	14
60	331704	2	3		2		2				8	7	22
61	331705	2	2	3	4			6	7	4	8	7	31
62	331706	4	3	4	2	1	3			4	8	7	21
63	331707	7	7	5	8	12	5	8			8	7	36
64	331708	5	3	2	4	1	4	9			8	7	34
65	331709	6				2	6				8	7	17
66	331710	6	3	3	3	8					8	7	5
67	331711	7	7	8	7	12	9	11			8	7	45
68	331712	6	6	2			4				8	7	25
69	331713	2	1	1	1	4	5	3			8	7	23
70	331714			1	1	5	2	2			8	7	22
71	331715	4	9	5	7	7	6	13		12	8	7	32
72	331716	2		3	1	8		5			8	7	30
73	331717	6		4	1	8		7			8	7	22
74	331718	1				2					8	7	25
75	331719	1		3			3				8	7	15
<b>Average =</b>		4.89	4.23	3.21	4.25	5.87	3.69	4.94	4.50	0.00	8.00	7.00	22.88
<b>Absolute Marks (45%)</b>		4.5	4.5	4.5	4.5	6.3	6.3	6.3	6.3	6.3	3.6	3.2	31.5

<b>Total no. of students</b>	62	57	52	51	45	42	47	10	21	66	66	67
<b>No. of students scoring above absolute marks</b>	38	26	16	26	19	6	15	2	1	66	66	10
<b>% of students scoring above absolute marks</b>	61.30	45.62	30.77	50.99	42.23	14.29	31.92	20.00	0.00	100.00	100.00	14.93
<b>CO Attainment</b>	2.63	1.06	1.00	1.60	1.00	1.00	1.00	1.00	0.00	3.00	3.00	1.00

L1 :	45									45 % students scoring more than absolute marks		1
L2 :	55									55 % students scoring more than absolute marks		2
L3 :	65									65 % students scoring more than absolute marks		3

	<b>Sess 1</b>	<b>Sess 2</b>	<b>PUT</b>				<b>Activity</b>			
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Internal CO Attainment =	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2
	2.63	1.06	1.00	1.60	1.00	1.00	1.00	1.00	0.00	3.00	3.00	3.00	3.00	3.00	—	1.00	1.00

	CO Attainment				
	CO1	CO2	CO3	CO4	CO5
Internal CO Attainment	1.91	1.52	1.50	1.65	1.33
University CO Attainment	1.00	1.00	1.00	1.00	1.00
<b>Actual CO Attainment = 80% UCOA + 20% ICOA</b>	<b>1.18</b>	<b>1.10</b>	<b>1.10</b>	<b>1.13</b>	<b>1.07</b>

<b>Consolidated CO attainment of the subject</b>	<b>1.12</b>
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CO-PO Mapping & extent of corelation												
COPO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTECH_AI&DS_405T.1	3	2	2	1	2							2
BTECH_AI&DS_405T.2	3	2	1	1	2							1
BTECH_AI&DS_405T.3	3	2	3	2	3					1		2
BTECH_AI&DS_405T.4	3	2	2	1	2					1		1
BTECH_AI&DS_405T.5	3	3	2	2	2					1	1	2
<b>BTECH_AI&amp;DS_405T</b>	<b>3.00</b>	<b>2.20</b>	<b>2.00</b>	<b>1.40</b>	<b>2.20</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.60</b>	<b>0.20</b>	<b>1.60</b>

PO attainment through CO													
COPO	Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTECH_AI&DS_405T.1	<b>1.18</b>	1.18	0.79	0.79	0.39	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.79
BTECH_AI&DS_405T.2	<b>1.10</b>	1.10	0.74	1.91	0.37	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.37
BTECH_AI&DS_405T.3	<b>1.10</b>	1.10	0.73	2.84	0.73	1.10	0.00	0.00	0.00	0.00	0.37	0.00	0.73
BTECH_AI&DS_405T.4	<b>1.13</b>	1.13	0.75	1.94	0.38	0.75	0.00	0.00	0.00	0.00	0.38	0.00	0.38
BTECH_AI&DS_405T.5	<b>1.07</b>	1.07	1.07	2.87	0.71	0.71	0.00	0.00	0.00	0.00	0.36	0.36	0.71
<b>BTECH_AI&amp;DS_405T</b>	<b>Average</b>	<b>1.12</b>	<b>0.82</b>	<b>2.07</b>	<b>0.52</b>	<b>0.82</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.22</b>	<b>0.07</b>	<b>0.60</b>

<b>CO-PSO Correlation</b>		
CO\PO	PSO1	PSO2
BTECH_AI&DS_405T.1	3	2
BTECH_AI&DS_405T.2	3	2
BTECH_AI&DS_405T.3	3	2
BTECH_AI&DS_405T.4	2	1
BTECH_AI&DS_405T.5	3	2
BTECH_AI&DS_405T	<b>2.80</b>	<b>1.80</b>

<b>CO-PSO Attainment</b>		
CO\PO	PSO1	PSO2
BTECH_AI&DS_405T.1	1.18	0.79
BTECH_AI&DS_405T.2	1.10	0.74
BTECH_AI&DS_405T.3	1.10	0.73
BTECH_AI&DS_405T.4	0.75	0.38
BTECH_AI&DS_405T.5	1.07	0.71
BTECH_AI&DS_405T	<b>1.04</b>	<b>0.67</b>

**Prof. Roshan R. Kolte**  
**Subject Teacher**









**Assign/ Tut**

CO3	CO4	CO5	CO6
1.00	1.00	1.00	—

Internal Assessment Sheet

**Program:- B.Tech. Artificial Intelligence and Data Science**

**Semester / Section :- IV Semester B.Tech.**

**Course / Course Code: Microcontroller and Embedded System / BTECH\_AI&DS\_406T**

**Academic Year:- 2024–2025**

Assessment Tools	20		20		70					Activity (8)	Assign (7)	Uni. Exam
	Sess 1		Sess 2		PUT							
	Q1 or Q2	Q3 or Q4	Q1 or Q2	Q3 or Q4	Q1 or Q2	Q3 or Q4	Q5 or Q6	Q7 or Q8	Q9 or Q10			
<b>Max. Marks</b>	10	10	10	10	14	14	14	14	14	8	7	70
<b>CO Mapped</b>	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO5	CO1, CO2, CO3, CO4, CO5	CO1, CO2, CO3, CO4, CO5	CO1, CO2, CO3, CO4, CO5

Sr.No.	University Roll List	Marks Scored											
1	331645	5	1	1	2	1	3				8	7	30
2	331646	8	1	3	1	7	3		7	2	8	7	42
3	331647	7	9								8	7	25
4	331648	7	6	4	1	1	5		2		8	7	38
5	331649	3	1	1	1	AB	AB	AB	AB	AB	8	7	24
6	331650	8	9		5	6	14	7	7	7	8	7	31
7	331651	8	3	1	1	4	1		8		8	7	20
8	331652	5	5		1		7	4	6	5	8	7	29
9	331653	8	1	8	4	AB	AB	AB	AB	AB	8	7	37
10	331654	3	5	1		3	2				8	7	26
11	331655	6	8	3	2	6	7		2		8	7	27
12	331656	5	7	4	2	5	9				8	7	33
13	331657	4	8	1	1	9	6		4	5	8	7	31
14	331658	8	2	3	3				7	7	8	7	26

15	331659	7	4	1						1	8	7	12
16	331660	3	2		3	3			7		8	7	22
17	331661	5	4	1							8	7	30
18	331662	3		1							8	7	26
19	331663	3		8	1	6	4				8	7	35
20	331664	3	2		1	7					8	7	20
21	331665	5	1	5		9	8	1	2		8	7	28
22	331666	4		2	3	4	5	1	1	1	8	7	25

23	331667	5	1	4	4	4	6				8	7	28
24	331668	2	1	4	4	4	7	2			8	7	32
25	331669	2		1		1					8	7	16
26	331670	4	1	3		4	1	2			8	7	17
27	331671	2	2	2		5			1		8	7	18
28	331672	2	5	2	1	8	3		1		8	7	5
29	331673		1								8	7	17
30	331674	6	5		1	AB	AB	AB	AB	AB	8	7	16
31	331675	7	5			1	4		12		8	7	35
32	331676	7		5	6	11	2		12		8	7	28
33	331677	4	5		5	3	3				8	7	21
34	331678	4	3	5		7					8	7	24
35	331679	9	3	3		5	7		3		8	7	34
36	331680	6		5	4	3	2		5		8	7	21
37	331681	5		4	2	3	11		4		8	7	28
38	331682	1	1			8					8	7	23
39	331683		2	AB	AB	5	4				8	7	27
40	331684		2						2		8	7	18
41	331685	2	1	AB	AB	6	3		2		8	7	26
42	331686	2			4	6					8	7	21
43	331687	4		3	2	11	12				8	7	24
44	331688	4	1	3			12		5	1	8	7	20
45	331689					2			1		8	7	12
46	331690	6	6	4	2	3	3				8	7	22
47	331691	8	7	2	8	9	1	7			8	7	25
48	331692		1			4	1				8	7	17
49	331693	AB	AB	AB	AB	3	2				8	7	19
50	331694	5				5	1				8	7	25
51	331695					1					8	7	18
52	331696	4	8	AB	AB	1	3				8	7	25
53	331697	4			5	6	3		4		8	7	25

54	331698	4		6		6	3		4		8	7	26
55	331699	2		5			4	1			8	7	14
56	331700	AB	AB	3			3		1		8	7	21
57	331701	5		4		2	3				8	7	27

58	331702	9	5								8	7	20
59	331703	AB	AB	AB	AB	1	1				8	7	16
60	331704	5	4		1	5			2		8	7	30
61	331705	2	4	2	7	6	8				8	7	28
62	331706	4	2	2		8	5	2			8	7	14
63	331707	7	8	1	6	8	3	5			8	7	35
64	331708	5	4	4	8	AB	AB	AB	AB	AB	8	7	39
65	331709		5	AB	AB	4					8	7	37
66	331710	1	3	6		4					8	7	25
67	331711	6	3	6	4	12	1				8	7	46
68	331712	3		2		3			6		8	7	22
69	331713	2		6			3		5		8	7	24
70	331714			6							8	7	31
71	331715	6	8	8	3	13	14	4	4	14	8	7	30
72	331716	1	2	8		12	6				8	7	27
73	331717		3	8		12					8	7	33
74	331718		2								8	7	4
75	331719					1					8	7	15
<b>Average =</b>		4.67	3.71	3.26	3.12	5.02	4.56	3.20	4.31	0.00	8.00	7.00	25.10
<b>Absolute Marks (45%)</b>		4.5	4.5	4.5	4.5	6.3	6.3	6.3	6.3	6.3	3.6	3.2	31.5

<b>Total no. of students</b>	61	52	42	34	51	43	10	26	8	67	67	67
<b>No. of students scoring above absolute marks</b>	31	19	10	8	13	11	2	7	2	67	67	12
<b>% of students scoring above absolute marks</b>	50.82	36.54	23.81	23.53	25.50	25.59	20.00	26.93	0.00	100.00	100.00	17.92
<b>CO Attainment</b>	1.58	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	3.00	3.00	1.00

L1 :	45									45 % students scoring more than absolute marks		1
L2 :	55									55 % students scoring more than absolute marks		2
L3 :	65									65 % students scoring more than absolute marks		3

Internal CO	Sess 1	Sess 2	PUT				Activity	
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Internal CO Attainment =	CO1	CO2	CO3	CO4	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2
	1.58	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	3.00	3.00	3.00	3.00	3.00	—	1.00	1.00

	CO Attainment				
	CO1	CO2	CO3	CO4	CO5
Internal CO Attainment	1.65	1.50	1.50	1.50	1.33
University CO Attainment	1.00	1.00	1.00	1.00	1.00
<b>Actual CO Attainment = 80% UCOA + 20% ICOA</b>	<b>1.13</b>	<b>1.10</b>	<b>1.10</b>	<b>1.10</b>	<b>1.07</b>

<b>Consolidated CO attainment of the subject</b>	<b>1.10</b>
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CO-PO Mapping & extent of correlation												
CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTECH_AI&DS_406T.1	3	2	1	1	2							1
BTECH_AI&DS_406T.2	3	2	2	2	3							2
BTECH_AI&DS_406T.3	3	3	2	2	3							
BTECH_AI&DS_406T.4	3	2	1	1	2							
BTECH_AI&DS_406T.5	3	2	2	1	2				2	2	1	3
BTECH_AI&DS_406T	<b>3.00</b>	<b>2.20</b>	<b>1.60</b>	<b>1.40</b>	<b>2.40</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.40</b>	<b>0.40</b>	<b>0.20</b>	<b>1.20</b>

PO attainment through CO													
CO/PO	Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTECH_AI&DS_406T.1	<b>1.13</b>	1.13	0.75	0.38	0.38	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.38
BTECH_AI&DS_406T.2	<b>1.10</b>	1.10	0.73	1.91	0.73	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.73
BTECH_AI&DS_406T.3	<b>1.10</b>	1.10	1.10	2.84	0.73	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BTECH_AI&DS_406T.4	<b>1.10</b>	1.10	0.73	1.94	0.37	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BTECH_AI&DS_406T.5	<b>1.07</b>	1.07	0.71	2.87	0.36	0.71	0.00	0.00	0.00	0.71	0.71	0.36	1.07
BTECH_AI&DS_406T	<b>Average</b>	<b>1.10</b>	<b>0.81</b>	<b>1.99</b>	<b>0.51</b>	<b>0.88</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.14</b>	<b>0.14</b>	<b>0.07</b>	<b>0.44</b>

<b>CO-PSO Correlation</b>		
CO\PO	PSO1	PSO2
BTECH_AI&DS_406T.1	3	2
BTECH_AI&DS_406T.2	3	2
BTECH_AI&DS_406T.3	3	3
BTECH_AI&DS_406T.4	3	2
BTECH_AI&DS_406T.5	3	2
BTECH_AI&DS_406T	<b>3.00</b>	<b>2.20</b>

<b>CO-PSO Attainment</b>		
CO\PO	PSO1	PSO2
BTECH_AI&DS_406T.1	1.13	0.75
BTECH_AI&DS_406T.2	1.10	0.73
BTECH_AI&DS_406T.3	1.10	1.10
BTECH_AI&DS_406T.4	1.10	0.73
BTECH_AI&DS_406T.5	1.07	0.71
BTECH_AI&DS_406T	<b>1.10</b>	<b>0.81</b>

**Prof. P.C. Patil**  
**Subject Teacher**









**Assign/ Tut**

CO3	CO4	CO5	CO6
1.00	1.00	1.00	—