



**PRINCETON INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN**

(Approved by AICTE, New Delhi & Affiliated to JNTU Hyderabad)

Chowdaryguda (V), Ghatkesar (M), Medchal-Malkajgiri (D).TS-500088

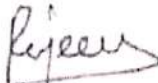
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JNTUH Code (6M) CIVIL-EEE-ECE-CSE-CSE (AI&ML) -CSE (DS) -CSE (CS) EAMCET Code- PETW

**2.6.2 Attainment of Program Outcomes and Course Outcomes are evaluated by the institution.**

Sl.No:	Subject
1	Attainment Procedure of POs and COs with Sample data
2	Sample CO-PO attainment of an Academic Year
3	Sample CO-PSO attainment of an Academic Year

  
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Chowdaryguda, Korremula (V),  
Ghatkesar (M), Medchal Dist. T S-500088



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**ATTAINMENT OF COUSE OUTCOMES**

Assessment Process adopted for attainment of course outcomes for various courses:

**Tools used for assessment:**

**Marks allocation by University:** The division of marks given by university, and weightage sib arriving at the attainment of CO is given below. The CO assessment is carried out through CIE and SEE with the following proportions:

**Table: Weightage of Marks for CIE:SEE**

Type of Course	Internal Marks (CIE)	External Marks (SEE)	Total Marks	Net CO attainment level as per weightage
Theory	25	75	100	0.25*CIE Level + 0.75*SEE Level
Laboratory	25	75	100	0.25*CIE Level + 0.75*SEE Level
Seminar	100		100	CIE Level
Industrial Oriented Mini Project/Summer Internship	25	75	100	0.25*CIE Level + 0.75*SEE Level
Project Stage-I	100		100	CIE Level
Project Stage-II	25	75	100	0.25*CIE Level + 0.75*SEE Level
Mandatory Course	100		100	CIE Level

Based on combined marks (i.e. CIE+SEE) obtained by the candidate, Letter grades are awarded as shown below and corresponding Grade Points are also shown in table

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A + (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B + (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (FAIL)	0
Absent	Ab	0

**Table: Letter grades with respect to academic Performance**

For attainment of course outcomes

- Final Letter grades obtained by each student in the course are made available by university.
- These Letter grades must be converted to marks as shown in below table.

% of Marks Secured in a Subject	Letter Grade	Corresponding Marks
Greater than or equal to 90%	O	1*Max SEE Marks
80 and less than 90%	A +	0.89*Max SEE Marks
70 and less than 80%	A	0.79*Max SEE Marks
60 and less than 70%	B +	0.69*Max SEE Marks
50 and less than 60%	B	0.59*Max SEE Marks
40 and less than 50%	C	0.49*Max SEE Marks
Below 40%	F	0.39*Max SEE Marks

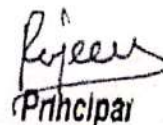
**Table: Conversion of Letter grades into corresponding marks**

➤ **Frequency of Data Collection**

The data required for calculating attainments is to be gathered. Each course instructor maintains the data required like Internal Marks mid wise and External Marks of their respective course. The frequency of data collection for each assessment tool is shown in a table.

Assessment Tool	Frequency
University Examination	Once a semester
Mid Examination	twice a semester
Assignments	twice a semester
Internal/External Lab Examination	Once a semester

Table: Data Frequency

  
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**Attainment of CO's for Theory Courses:**

Attainment of theory courses calculated based on student performance in Continuous Internal Evaluation (CIE) and Semester End Examination (SEE)

$$\text{Overall CO attainment} = 0.25 * \text{CIE Level} + 0.75 * \text{SEE Level}$$

These values of the CO levels for the course are then used for mapping the PO attainments, using the array of target PO values for the course. The procedure adopted for calculating the attainment of course Outcomes for a Theory course is described with an example for the course Python Programming.

**Table: Mid - I Internal Examination Attainment**

Subject Name: Data Mining

Set-I

Section-A

Question Numbers	Descriptive Question								Objective	Assignment	
	Q.NO : 1		Q.NO : 2		Q.NO : 3		Q.NO : 4				
	Maximum Marks										
	5		5		5		5		10	5	
Sub-Division	(a) 2.5	(b) 2.5	(a) 2.5	(b) 2.5	(a) 2.5	(b) 2.5	(a) 2.5	(b) 2.5			
Sl. NO	Course Outcomes / Hall Ticket No	CO1	CO2	CO2	CO2	CO2	CO2	CO2	CO2		
1	186M1A0539	2	1	2						8	5
2	196M1A0501	2	2	2	2					10	5
3	196M1A0502		2	2						5	5
4	196M1A0503	2	2	1	1					10	5
5	196M1A0504	2	2	1	1					10	5
6	196M1A0505	2	2	1	1					10	5
7	196M1A0506	2	2	1	1					10	5
8	196M1A0507	2	2		1					9	5
9	196M1A0508	2	2	1	1					9	5
10	196M1A0509	2	2							9	5
11	196M1A0510	2	2		2					5	5
12	196M1A0511	2	2	2						9	5
13	196M1A0512	2	2							8	5
14	196M1A0513	2		2						5	5
15	196M1A0514	2		2	2					9	5
16	196M1A0515	1	2	1						8	5
17	196M1A0516	2	2	1	1					9	5
18	196M1A0517					2	2	2	2	9	5
19	196M1A0518	2.5	2.5	2.5	2.5					10	5
20	196M1A0519	2	2	2	2					10	5

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21	196M1A0520	2	2	1						10	5
22	196M1A0522		2	2						10	5
23	196M1A0523	1	2	2	2					10	5
24	196M1A0524	2	2	1	1					5	5
25	196M1A0525	2	2	2	1					8	5
26	196M1A0526	2	2	2	1					10	5
27	196M1A0527	2	2	2	2					8	5
28	196M1A0528	2	2	2	2					7	5
29	196M1A0529			2	2					5	5
30	196M1A0530	2	2							10	5
31	196M1A0531			2	2					5	5
32	196M1A0532			2	1	2	2			7	5
33	196M1A0533	2	2	1	1					10	5
34	196M1A0534	2	2	2	2					10	5
35	196M1A0535	2	2	1	1					7	5
36	196M1A0536	2	2	2	1					10	5
37	196M1A0538	2	2	1	1					10	5
38	196M1A0539	2	2		1					10	5
39	196M1A0540	2	2.5	2	2.5					10	5
40	196M1A0541	2	2	2	2					10	5
41	196M1A0542	1	1	2				1		10	5
42	196M1A0543	2	2	2						8	5
43	196M1A0544			2	2					5	5
44	196M1A0545			2	2					10	5
45	196M1A0546	2	2	2	2					10	5
46	196M1A0547	2	2							6	5
47	196M1A0548	2	1	2	2					9	5
48	196M1A0549			2	2	2	2			10	5
49	196M1A0551	2	2		2					10	5
50	196M1A0552	2	2							5	5
51	196M1A0553	2	2	1	1					10	5
52	196M1A0554	2	2	2	2					10	5
53	196M1A0555	2	1	2	1					7	5
54	196M1A0558	2	2	2	2					6	5
55	196M1A0559			2	2					5	5
56	196M1A0560	2	2	2	2					10	5

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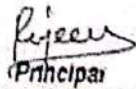
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57	196M1A0561	2	1	2	1					8	5
58	196M1A0562	2	2	1	1					8	5
59	196M1A0563	2	2	2	1					10	5
60	196M1A0564			1	2	2	2			10	5
61	196M1A0565	2	2	2	2					10	5
62	196M1A0566	2	2	2	1					10	5

COs	CO1	CO2	CO2	CO2	CO2	CO2	CO2	CO2	CO2		
No. of Students attempted	51	51	53	47	4	4	2	1			
Threshold 55%	2.75		2.75		2.75		2.75				
No. of Students above threshold	49	49	34	34	4	4	1	1			
% of students > Target Score	96.07	96.07	64.15	72.34	100	100	50	50			
Attainment Level	3	3	1	2	3	3					
COs	CO1	CO2	CO3	CO4	CO5						
Total Attainment	3	2.4									

Attainment Level 1:	60% students scored more than threshold
Attainment Level 2:	70% students scored more than threshold
Attainment Level 3:	80% students scored more than threshold

Course Outcome Attainment based on Exam Questions in terms of percentage of total students when mapped to each question				
COs	Subjective	Objective	Assignment	Attainment Level
Course Outcome - 1	3	3	3	3
Course Outcome - 2	2.4	3	3	3
Course Outcome - 3			3	3
Course Outcome - 4				
Course Outcome - 5				

  
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**Table: Mid - I Internal Examination Attainment**

Subject Name: Data Mining

Set-I

Section-B

		Descriptive Question								Objective	Assignment
Question Numbers		Q.NO : 1		Q.NO : 2		Q.NO : 3		Q.NO : 4			
Maximum Marks		5		5		5		5		10	5
Sub-Division		(a) 2.5	(b) 2.5	(a) 2.5	(b) 2.5	(a) 2.5	(b) 2.5	(a) 2.5	(b) 2.5		
Sl. NO	Course Outcomes / Hall Ticket No	CO1	CO2	CO2	CO2	CO2	CO2	CO2	CO2		
1	196M1A0567	2	2	1	1					10	5
2	196M1A0568	2	2							5	5
3	196M1A0569	1	1		2					10	5
4	196M1A0570	2	2							5	5
5	196M1A0572	2	2	1						10	5
6	196M1A0573	2	2							5	5
7	196M1A0574	2	2	1	1					9	5
8	196M1A0575	2	2							5	5
9	196M1A0577	2	1	1	1					9	5
10	196M1A0578	2	2							5	5

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11	196M1A0579	2	2	1						6	5
12	196M1A0580	2	2							9	5
13	196M1A0581	2	2	1	1					8	5
14	196M1A0582	2	2	2						9	5
15	196M1A0583	2	2		1					7	5
16	196M1A0584	2	2	1	1					9	5
17	196M1A0585					2	2	2	2	9	5
18	196M1A0586	2	2	2						10	5
19	196M1A0587	2	2	1						10	5
20	196M1A0588	2	2	1						8	5
21	196M1A0589	2	2	2	1					7	5
22	196M1A0590	2	1	1	1					6	5
23	196M1A0591	2	2	1	1					7	5
24	196M1A0592	2	2	1	1					9	5
25	196M1A0593	2	2	1	1					8	5
26	196M1A0594	2	2							8	5
27	196M1A0595	2	2							6	5
28	196M1A0596	2	2		1					6	5
29	196M1A0597	2	2	1	1					6	5
30	196M1A0598	2		1	1					7	5
31	196M1A0599	2	1	1						6	5
32	196M1A05A0	2	2		1					10	5
33	196M1A05A1			2	2					5	5
34	196M1A05A2	2								8	5
35	196M1A05A3	2	2		1					8	5
36	196M1A05A4	2	2							5	5
37	196M1A05A5	2	2		0					5	5
38	196M1A05A6	1	1	1	1					7	5
39	196M1A05B0	2	2	2	2					8	5
40	196M1A05B3	2	2		0						5
41	196M1A05B4	2	1	1						10	5
42	196M1A05B5	2			2		2			8	5
43	196M1A05B6	2	2	1	1					9	5
44	206M5A0501			2	2					5	5
45	206M5A0502	2	2	1						10	5

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46	206MSA0503			2	2					5	5
47	206MSA0504	2	2							5	5
48	206MSA0505	2	2							5	5
49	206MSA0506	2	2		1					10	5
50	206MSA0507			2	2	2	2			10	5
51	206MSA0509			2.5	2.5	2.5	2.5			10	5
52	206MSA0510	2	2	2	1					10	5
53	206MSA0511	2			2					5	5
54	206MSA0512	2	2	2	2					10	5
55	206MSA0513	1	2	2	2					9	5
56	206MSA0514	2	2	1	1					10	5
57	206MSA0515	2	2	1	1					10	5
58	206MSA0516	2		2						5	5

COs	CO1	CO2	CO2	CO2	CO2	CO2	CO2	CO2	CO2		
No. of Students attempted	52	47	35	33	3	4	1	1			
Threshold 55%	2.75		2.75		2.75		2.75				
No. of Students above threshold	45	45	10	10	3	3	1	1			
% of students > Target Score	86.53	95.74	28.57	30.3	100	75	100	100			
Attainment Level	3	3			3	2	3	3			
COs	CO1	CO2	CO3	CO4	CO5						
Total Attainment	3	2.8									

Attainment Level 1:	60% students scored more than threshold
Attainment Level 2:	70% students scored more than threshold
Attainment Level 3:	80% students scored more than threshold

Course Outcome Attainment based on Exam Questions in terms of percentage of total students when mapped to each question				
COs	Subjective	Objective	Assignment	Attainment Level
Course Outcome - 1	2.83	3	3	3
Course Outcome - 2			3	3
Course Outcome - 3				
Course Outcome - 4				
Course Outcome - 5				

  
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**Table: Mid - II Internal Examination Attainment**

Subject Name: Data Mining

Set-I

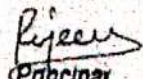
Section-A

Question Numbers		Descriptive Question								Objective	Assignment
		Q.NO : 1		Q.NO : 2		Q.NO : 3		Q.NO : 4			
Maximum Marks		5		5		5		5		10	5
Sub-Division		(a) 2.5	(b) 2.5	(a) 2.5	(b) 2.5	(a) 2.5	(b) 2.5	(a) 2.5	(b) 2.5		
Sl. NO	Course Outcomes / Hall Ticket No	CO5	CO4	CO3	CO5	CO4	CO5	CO5	CO5		
1	186M1A0539	2	2	2	2					10	5
2	196M1A0501	2	2					2	1	10	5
3	196M1A0502	2	2	2	2					10	5
4	196M1A0503	2	2					2	2	10	5
5	196M1A0504	2	2					2	2	10	5
6	196M1A0505	2	2						2	10	5
7	196M1A0506	2	2			2	2			10	5
8	196M1A0507	2	2	2	2					10	5
9	196M1A0508	2	2	2	2					10	5
10	196M1A0509	2	2	2	2					10	5
11	196M1A0510	2	2	2	2					10	5
12	196M1A0511	2	2	2	2					10	5
13	196M1A0512	2	2	2	1					10	5
14	196M1A0513	2	2	2		1				10	5
15	196M1A0514	2	2			2	2			10	5
16	196M1A0515	2	2	2	2					10	5
17	196M1A0516	2	2			2				10	5

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18	196M1A0517	2	2					2	2	10	5
19	196M1A0518	2.5	2.5			2.5	2.5			10	5
20	196M1A0519	2	2	2	2					10	5
21	196M1A0520	2	2	2	2					10	5
22	196M1A0522	2	2	2	1					10	5
23	196M1A0523	2	1			2	2			10	5
24	196M1A0524	2	2			2	2			10	5
25	196M1A0525	2	2			2	1			10	5
26	196M1A0526	2.5	2.5			2.5	2.5			10	5
27	196M1A0527	2	2					2	2	10	5
28	196M1A0528	2.5	2							10	5
29	196M1A0529	2	2	2	2					10	5
30	196M1A0530			2	2	2	2			10	5
31	196M1A0531	2.5	2.5	2	1					10	5
32	196M1A0532	2	2			2	2			10	5
33	196M1A0533			2	2	2	1			10	5
34	196M1A0534	2	2			2	2			10	5
35	196M1A0535	2	2			2	2			10	5
36	196M1A0536	2.5	2.5	2	2					10	5
37	196M1A0538	2	2	2	2					10	5
38	196M1A0539	2	2	2	2					10	5
39	196M1A0540	2	2					2	2	10	5
40	196M1A0541	2	2	2	2					10	5
41	196M1A0542	2	2					2	2	10	5
42	196M1A0543	2	2					2	2	10	5
43	196M1A0544	2	2	2	2					10	5
44	196M1A0545	2	2					2	1	10	5
45	196M1A0546	2	2		2	2				10	5
46	196M1A0547	2	2	2	2					10	5
47	196M1A0548	2.5	2.5	2.5	2.5					10	5
48	196M1A0549	2	2	2	2					10	5
49	196M1A0551	2	2	2	2					10	5
50	196M1A0552	2	2	2	2					10	5
51	196M1A0553	2	1			2	2			10	5
52	196M1A0554	2	2			2	2			10	5

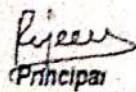
  
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53	196M1A0555	2	2			2				10	5
54	196M1A0558	2	2					2	2	10	5
55	196M1A0559	2	2	2	2					10	5
56	196M1A0560	2	2			2	2			10	5
57	196M1A0561	2	2	2	2					10	5
58	196M1A0562	2	2	2						10	5
59	196M1A0563	2	2					2	2	10	5
60	196M1A0564	2	2			2	2			10	5
61	196M1A0565	2	2			2	1			10	5
62	196M1A0566	2	2			2	2			10	5

COs	CO5	CO4	CO3	CO5	CO4	CO5	CO5	CO5		
No. of Students attempted	60	60	30	29	22	18	11	12		
Threshold 55%	2.75		2.75		2.75		2.75			
No. of Students above threshold	60	60	28	28	18	18	11	11		
% of students > Target Score	100	100	93.33	96.55	81.81	100	100	91.67		
Attainment Level	3	3	3	3	3	3	3	3		
COs	CO1	CO2	CO3	CO4	CO5					
Total Attainment			3	3	3					

Attainment Level 1:	60% students scored more than threshold
Attainment Level 2:	70% students scored more than threshold
Attainment Level 3:	80% students scored more than threshold

Course Outcome Attainment based on Exam Questions in terms of percentage of total students when mapped to each question				
COs	Subjective	Objective	Assignment	Attainment Level
Course Outcome - 1				
Course Outcome - 2				
Course Outcome - 3	3	3	3	3
Course Outcome - 4	3	3	3	3
Course Outcome - 5	3	3	3	3

  
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JNTUH Code(6M) CIVIL-EEE-ECE-CSE-CSE(AI&ML)-CSE(DS)-CSE(CS) EAMCET Code- PETW

**Attainment of CO's for Theory Courses:**

Attainment of theory courses calculated based on student performance in Continuous Internal Evaluation (CIE) and Semester End Examination (SEE)

**Overall CO attainment = 0.25\*CIE Level + 0.75\* SEE Level**

These values of the CO levels for the course are then used for mapping the PO attainments, using the array of target PO values for the course. The procedure adopted for calculating the attainment of course Outcomes for a Theory course is described with an example for the course Python Programming.

**Table: Mid - II Internal Examination Attainment**

Subject Name: Data Mining

Set-I

Section-B

		Descriptive Question								Objective	Assignment
Question Numbers		Q.NO : 1		Q.NO : 2		Q.NO : 3		Q.NO : 4			
Maximum Marks		5		5		5		5		10	5
Sub-Division		(a) 2.5	(b) 2.5	(a) 2.5	(b) 2.5	(a) 2.5	(b) 2.5	(a) 2.5	(b) 2.5		
SLN O	Course Outcomes / Hall Ticket No	CO5	CO4	CO3	CO5	CO4	CO5	CO5	CO5		
1	196M1A0567	2	2	2						10	5
2	196M1A0568	2	2	2	2					10	5
3	196M1A0569			2				2	2	10	5
4	196M1A0570	2	2			1				10	5
5	196M1A0572	2	2	1						10	5
6	196M1A0573	2	2							10	5
7	196M1A0574	2	2							10	5
8	196M1A0575	2	2							9	5
9	196M1A0577	2							2	10	5
10	196M1A0578	2	2							10	5

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11	196M1A0579	2	2	2	2					10	5
12	196M1A0580	2		2						10	5
13	196M1A0581	2	2	2	2					10	5
14	196M1A0582	2	2	2						10	5
15	196M1A0583	2	2	2						10	5
16	196M1A0584	2	2					2	2	9	5
17	196M1A0585	2	2							10	5
18	196M1A0586	2	2			2	2			10	5
19	196M1A0587	2	2	2	2					10	5
20	196M1A0588	2	2					2	2	9	5
21	196M1A0589	2	2							10	5
22	196M1A0590	2	2							10	5
23	196M1A0591	2	2							6	5
24	196M1A0592	2	2					2	2	10	5
25	196M1A0593	2						2	2	10	5
26	196M1A0594	2	2							10	5
27	196M1A0595	2	2							10	5
28	196M1A0596	2	2						2	10	5
29	196M1A0597	2						2	2	10	5
30	196M1A0598	2	2							10	5
31	196M1A0599	2	2	1						10	5
32	196M1A05A0	2	2						2	10	5
33	196M1A05A1	2	2	2	2					10	5
34	196M1A05A2	2						2		9	5
35	196M1A05A3	2	2	2	2				2	9	5
36	196M1A05A4	2	2					2	1	10	5
37	196M1A05A5	2	2					2	2	10	5
38	196M1A05A6	2	2			2	2			10	5
39	196M1A05B0	2	2			2				6	5
40	196M1A05B3	2	2							10	5
41	196M1A05B4	2	2			1				10	5
42	196M1A05B5	2	2							9	5
43	196M1A05B6	2	2						2	10	5
44	206M5A0501	2	2	2	2					10	5
45	206M5A0502	2	2						2	10	5

*P. Jeeva*  
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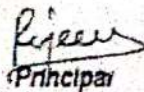
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46	206M5A0503	2	2	2	2					10	5
47	206M5A0504	2	2	2	2					10	5
48	206M5A0505	2	2	2	2					10	5
49	206M5A0506	2	2	2	2					10	5
50	206M5A0507	2	2	2	2					10	5
51	206M5A0509	2		2	2			2	2	10	5
52	206M5A0510	2								10	5
53	206M5A0511	2	2	2	2					10	5
54	206M5A0512	2	2	2	2					10	5
55	206M5A0513		2	2						10	5
56	206M5A0514	2	2	2	2					10	5
57	206M5A0515	2	2	2						10	5
58	206M5A0516	2	2	2	2					10	5

COs	CO5	CO4	CO3	CO5	CO4	CO5	CO5	CO5		
No.of Students attempted	56	50	26	17	5	2	10	15		
Threshold 55%	2.75		2.75		2.75		2.75			
No.of Students above threshold	49	49	17	17	2	2	9	9		
% of students > Target Score	87.5	98	65.38	100	40	100	90	60		
Attainment Level	3	3	1	3		3	3	1		
COs	CO1	CO2	CO3	CO4	CO5					
Total Attainment			3	1.5	2.6					

Attainment Level 1:	60% students scored more than threshold
Attainment Level 2:	70% students scored more than threshold
Attainment Level 3:	80% students scored more than threshold

Course Outcome Attainment based on Exam Questions in terms of percentage of total students when mapped to each question				
COs	Subjective	Objective	Assignment	Attainment Level
Course Outcome - 1				
Course Outcome - 2				
Course Outcome - 3	3	3	3	3
Course Outcome - 4	1.5	3	3	3
Course Outcome - 5	2.6	3	3	3

  
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**External Examination Attainment**

Sl.No	HALL TICKET NO	TOTAL MARKS (Max. Score:75)
1	186M1A0539	
2	196M1A0501	
3	196M1A0502	
4	196M1A0503	
5	196M1A0504	
6	196M1A0505	
7	196M1A0506	
8	196M1A0507	
9	196M1A0508	
10	196M1A0509	
11	196M1A0510	
12	196M1A0511	
13	196M1A0512	
14	196M1A0513	
15	196M1A0514	
16	196M1A0515	
17	196M1A0516	
18	196M1A0517	
19	196M1A0518	
20	196M1A0519	
21	196M1A0520	
22	196M1A0522	
23	196M1A0523	
24	196M1A0524	
25	196M1A0525	
26	196M1A0526	
27	196M1A0527	
28	196M1A0528	
29	196M1A0529	
30	196M1A0530	
31	196M1A0531	
32	196M1A0532	



33	196M1A0533	
34	196M1A0534	
35	196M1A0535	
36	196M1A0536	
37	196M1A0538	
38	196M1A0539	
39	196M1A0540	
40	196M1A0541	
41	196M1A0542	
42	196M1A0543	
43	196M1A0544	
44	196M1A0545	
45	196M1A0546	
46	196M1A0547	
47	196M1A0548	
48	196M1A0549	
49	196M1A0551	
50	196M1A0552	
51	196M1A0553	
52	196M1A0554	
53	196M1A0555	
54	196M1A0558	
55	196M1A0559	
56	196M1A0560	
57	196M1A0561	
58	196M1A0562	
59	196M1A0563	
60	196M1A0564	
61	196M1A0565	
62	196M1A0566	

No. of Students who attempted the Subject	
Max. Marks	
Threshold 40%	
No. of students who scored more than the target score	
Percentage of students who scored more than target score	
Overall External Attainment Level	

Table: Overall Attainment for Data Mining (Subject Code)

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal (Avg.)	University Exam	Overall Attainment
Course Outcome-1					
Course Outcome-2					
Course Outcome-3					
Course Outcome-4					
Course Outcome-5					

Similarly CO attainment is calculated for all theory courses for corresponding academic years respectively.



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JNTUH Code(6M) CIVIL-EEE-ECE-CSE-CSE(AI&ML)-CSE(DS)-CSE(CS) EAMCET Code- PETW

**External Examination Attainment**

Sl.No	HALL TICKET NO	TOTAL MARKS (Max. Score:75)
1	196M1A0567	
2	196M1A0568	
3	196M1A0569	
4	196M1A0570	
5	196M1A0572	
6	196M1A0573	
7	196M1A0574	
8	196M1A0575	
9	196M1A0577	
10	196M1A0578	
11	196M1A0579	
12	196M1A0580	
13	196M1A0581	
14	196M1A0582	
15	196M1A0583	
16	196M1A0584	
17	196M1A0585	
18	196M1A0586	
19	196M1A0587	
20	196M1A0588	
21	196M1A0589	
22	196M1A0590	
23	196M1A0591	
24	196M1A0592	
25	196M1A0593	
26	196M1A0594	
27	196M1A0595	
28	196M1A0596	
29	196M1A0597	
30	196M1A0598	

31		
32	196M1A0599	
33	196M1A05A0	
34	196M1A05A1	
35	196M1A05A2	
36	196M1A05A3	
37	196M1A05A4	
38	196M1A05A5	
39	196M1A05A6	
40	196M1A05B0	
41	196M1A05B3	
42	196M1A05B4	
43	196M1A05B5	
44	196M1A05B6	
45	206M5A0501	
46	206M5A0502	
47	206M5A0503	
48	206M5A0504	
49	206M5A0505	
50	206M5A0506	
51	206M5A0507	
52	206M5A0509	
53	206M5A0510	
54	206M5A0511	
55	206M5A0512	
56	206M5A0513	
57	206M5A0514	
58	206M5A0515	
	206M5A0516	

No. of Students who attempted the Subject	
Max. Marks	
Threshold 40%	
No. of students who scored more than the target score	
Percentage of students who scored more than target score	
Overall External Attainment Level	

Table: Overall Attainment for Data Mining (Subject Code)

Course Outcomes	1st Internal Exam	2nd Internal Exam	Internal (Avg.)	University Exam	Overall Attainment
Course Outcome-1					
Course Outcome-2					
Course Outcome-3					
Course Outcome-4					
Course Outcome-5					

Similarly CO attainment is calculated for all theory courses for corresponding academic years respectively.



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**CO ATTAINMENT LEVEL FOR COURSES OTHER THAN THEORY:**

**a) Laboratory:**

**Continuous Internal Evaluation:**

The Internal Evaluation is based on session wise performance of experiment and vice voce, Observation, Record and internal examination. The final internal marks are considered for CIE and CO Level for CIE attainment id decided upon the percentage of students who score more than 55% of the maximum internal marks, i.e., 13.75 out of 25 is used to decide the CO attainment level and is uniform for all CO's.

**Semester End University Examination Evaluation (SEE):**

SEE Lab exam is evaluated for 75 marks. In SEE of the Lab, % of students who score over 40% of the maximum marks, i.e., 30 out of 75 marks, is used to decide the CO attainment level and is uniform for all CO's.

**b) Seminar:**

For Seminars, the assessment is based only on internal evaluation. The marks obtained in seminar is used to decide the % of students who scored more than 55% of maximum marks, and this % is used for determining corresponding CO attainment Level. This Attainment Level is construed as uniform for all COs of the course.

**c) Industry Oriented Mini Project:**

For Industry Oriented Mini Project, the assessment is based only on External evaluation. The marks obtained in Industrial Oriented Mini Project is used to decide the % of students who scored more than 40% of maximum marks, and this % is used for determining corresponding CO attainment level. This Attainment Level is construed as uniform for all COs of the course.

**d) Projects:**

**Continuous Internal Evaluation:**

The internal marks for project (25) are the total of marks allotted in Project review, final presentation and by project guide. The final internal marks are considered for CIE and CO level for CIE attainment is decided upon the percentage of students who score more than 55% of the maximum internal marks, i.e., 13.75 out of 25 is used to decide the CO attainment level and is uniform for all COs.

**Semester End University Examination Evaluation (SEE):**

The External evaluation is by award of Grade (Excellent/Very Good/Satisfactory/Poor). These grades are considered for SEE and CO level for SEE attainment is decided upon the percentage of students who got Excellent/Very Good/Good to the number of students appeared is used to decide the CO attainment level and is uniform for all COs. The average value of the CO levels for the course are then used for mapping the PO attainments, using the array of target PO values for the course.

### Attainment of Program Outcomes and Program Specific Outcomes:

Direct assessment of POS and PSOS for a course is obtained by mapping the respective CO value of Course Outcome attainment with the mapping of the target or expected POs and PSOs for the particular course.

The procedure adapted for calculating the attainment of Course Outcomes for a Theory course is described with an example for the course Data Mining.

The CO values arrived from CIE and SEE for the course Data Mining (CS702PC) for academic year 2022-23 is

**Table: CO values of Data Mining**

CS702PC	CO1	CO2	CO3	CO4	CO5
	2.25	2.25	2.25	2.25	2

The Mapping POs for particular COs for the course CS702PC are given below

**Table: CO-PO Mapping of CS702PC Course**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	3	3	3	2	1	-	-	-	3	3	3	3	3
CO2	1	1	3	2	3	2	2	-	-	-	3	3	3	3	3
CO3	1	1	3	2	2	2	2	-	-	-	3	3	3	3	3
CO4	2	2	3	3	2	2	2	-	-	-	3	3	3	3	3
CO5	2	2	3	2	2	2	2	-	-	-	3	3	2	2	2
Avg.	1.4	1.4	3	2.4	2.4	2	1.8	-	-	-	3	3	2.8	2.8	2.8

Mapping value for combination of CO1-PO1 is 1.

Then the attained value is  $2.25 \times 1/3 = 0.75$

Mapping value for combination of CO2-PO4 is 2.

Then the attained value is  $2.25 \times 2/3 = 1.50$

Other POs are mapped similarly.

The Complete PO Attainment mapping for the course CS702PC is shown below.

**Table: PO attainment from Course Outcomes**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	0.75	0.75	2.25	2.25	2.25	1.5	0.75	-	-	-	2.25	2.25	2.25	2.25	2.25
CO2	0.75	0.75	2.25	1.5	2.25	1.5	1.5	-	-	-	2.25	2.25	2.25	2.25	2.25
CO3	0.75	0.75	2.25	1.5	1.5	1.5	1.5	-	-	-	2.25	2.25	2.25	2.25	2.25
CO4	1.5	1.5	2.25	2.25	1.5	1.5	1.5	-	-	-	2.25	2.25	2.25	2.25	2.25
CO5	1.33	1.33	2	1.33	1.33	1.33	1.33	-	-	-	2	2	1.33	1.33	1.33
Avg.	1.02	1.02	2.2	1.77	1.77	1.47	1.32	-	-	-	2.2	2.2	2.07	2.07	2.07

The PO/PSO attainment values so obtained from their direct component for the course. The direct components for all the courses are obtained similarly and tabulated. The average for each PO/PSO gives the values attained directly.

**Indirect Component:**

The PO/PSOs attained indirectly by taking different surveys. These surveys are also having equal weightage for Overall PO/PSO attainment.

1. Program Exit Survey
2. Alumni Survey
3. Employer Feedback Survey

**Frequency of Data Collection:**

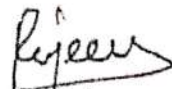
Assessment Tool	Frequency of Data Collection
Program Exit Survey	Once a Year
Alumni Survey	Once a Year
Employer Feedback Survey	Once a Year

**Indirect Assessment Tool:**

**Program Exit Survey:** The program graduate exit survey is collected at the end of the program. The Objective of the Survey is to know the level of confidence of each POs and PSOs that a graduate possess by the end of the program.

**Alumni Survey:** A feedback is collected on POs and PSOs from alumni students. It contributes towards the weightage of PO and PSO attainment. This survey is conducted by Alumni coordinator with the passed out students. Alumni coordinator collects both Alumni feedback forms filled by passed out students.

**Employer feedback survey:** A feedback is collected on Vision, Mission, PEOs, PSOs and POs. It is an indirect assessment tool which contributes towards the weightage of PO PSOs. It is conducted after one year of service completed by the graduates from joining those respective Organizations.

  
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