



**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	$0.25 * \text{CIE Level} + 0.75 * \text{SEE Level}$
Laboratory	25	75	100	$0.25 * \text{CIE Level} + 0.75 * \text{SEE Level}$
Seminar	100		100	CIE Level
Industrial Oriented Mini Project/Summer Internship	25	75	100	$0.25 * \text{CIE Level} + 0.75 * \text{SEE Level}$
Project Stage-I	100		100	CIE Level
Project Stage-II	25	75	100	$0.25 * \text{CIE Level} + 0.75 * \text{SEE Level}$
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.

<b>% of Marks Secured in a Subject</b>	<b>Letter Grade</b>	<b>Corresponding Marks</b>
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.

<b>Assessment Tool</b>	<b>Frequency</b>
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 Data Mining.

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

Subject Name: Data Mining		Set-I								Section-A	
		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		
SI. 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							5	5
11	196M1A0510	2	2		2					9	5
12	196M1A0511	2	2	2						8	5
13	196M1A0512	2	2							5	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

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

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

<b>COs</b>	<b>CO1</b>	<b>CO2</b>	<b>CO2</b>	<b>CO2</b>	<b>CO2</b>	<b>CO2</b>	<b>CO2</b>	<b>CO2</b>	<b>CO2</b>		
<b>No. of Students attempted</b>	51	51	53	47	4	4	2	1			
<b>Threshold 55%</b>	<b>2.75</b>		<b>2.75</b>		<b>2.75</b>		<b>2.75</b>				
<b>No. of Students above threshold</b>	48	48	34	34	4	4	1	1			
<b>% of students &gt; Target Score</b>	94.11	94.11	64.15	72.34	100	100	50	50			
<b>Attainment Level</b>	3	3	1	2	3	3					
<b>COs</b>	<b>CO1</b>	<b>CO2</b>	<b>CO3</b>	<b>CO4</b>	<b>CO5</b>						
<b>Total Attainment</b>	3	2.4									

<b>Attainment Level 1:</b>	<b>60% students scored more than threshold</b>
<b>Attainment Level 2:</b>	<b>70% students scored more than threshold</b>
<b>Attainment Level 3:</b>	<b>80% students scored more than threshold</b>

<b>Course Outcome Attainment based on Exam Questions in terms of percentage of total students when mapped to each question</b>				
<b>COs</b>	<b>Subjective</b>	<b>Objective</b>	<b>Assignment</b>	<b>Attainment Level</b>
<b>Course Outcome - 1</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>Course Outcome - 2</b>	<b>2.4</b>	<b>3</b>	<b>3</b>	<b>2.8</b>
<b>Course Outcome - 3</b>			<b>3</b>	<b>3</b>
<b>Course Outcome - 4</b>				
<b>Course Outcome - 5</b>				

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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 Data Mining.

**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			
SI. 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



46	206M5A0503			2	2					5	5
47	206M5A0504	2	2							5	5
48	206M5A0505	2	2							5	5
49	206M5A0506	2	2		1					10	5
50	206M5A0507			2	2	2	2			10	5
51	206M5A0509			2.5	2.5	2.5	2.5			10	5
52	206M5A0510	2	2	2	1					10	5
53	206M5A0511	2			2					5	5
54	206M5A0512	2	2	2	2					10	5
55	206M5A0513	1	2	2	2					9	5
56	206M5A0514	2	2	1	1					10	5
57	206M5A0515	2	2	1	1					10	5
58	206M5A0516	2		2						5	5

<b>COs</b>	<b>CO1</b>	<b>CO2</b>	<b>CO2</b>	<b>CO2</b>	<b>CO2</b>	<b>CO2</b>	<b>CO2</b>	<b>CO2</b>	<b>CO2</b>		
<b>No.of Students attempted</b>	52	47	35	33	3	4	1	1			
<b>Threshold 55%</b>	<b>2.75</b>		<b>2.75</b>		<b>2.75</b>		<b>2.75</b>				
<b>No.of Students above threshold</b>	49	41	10	10	3	3	1	1			
<b>% of students &gt; Target Score</b>	94.23	87.23	28.57	30.3	100	75	100	100			
<b>Attainment Level</b>	3	3			3	2	3	3			
<b>COs</b>	<b>CO1</b>	<b>CO2</b>	<b>CO3</b>	<b>CO4</b>	<b>CO5</b>						
<b>Total Attainment</b>	3	2.8									

<b>Attainment Level 1:</b>	<b>60% students scored more than threshold</b>
<b>Attainment Level 2:</b>	<b>70% students scored more than threshold</b>
<b>Attainment Level 3:</b>	<b>80% students scored more than threshold</b>

<b>Course Outcome Attainment based on Exam Questions in terms of percentage of total students when mapped to each question</b>				
<b>COs</b>	<b>Subjective</b>	<b>Objective</b>	<b>Assignment</b>	<b>Attainment Level</b>
<b>Course Outcome - 1</b>	3	3	3	3
<b>Course Outcome - 2</b>	2.8	3	3	2.93
<b>Course Outcome - 3</b>				
<b>Course Outcome - 4</b>				
<b>Course Outcome - 5</b>				

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

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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

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

<b>Attainment Level 1:</b>	<b>60% students scored more than threshold</b>
<b>Attainment Level 2:</b>	<b>70% students scored more than threshold</b>
<b>Attainment Level 3:</b>	<b>80% students scored more than threshold</b>

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



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

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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 Data Mining.

**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		
SL.N 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

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					10	5
52	206M5A0510	2					2	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	56	50	24	17	3	2	10	14		
% of students > Target Score	100	100	92.3	100	60	100	100	93.33		
Attainment Level	3	3	3	3	1	3	3	3		
COs	CO1	CO2	CO3	CO4	CO5					
Total Attainment			3	2	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	2	3	3	2.67
Course Outcome - 5	3	3	3	3



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## External Examination Attainment

## Section-A

Sl.No	HALL TICKET NO	TOTAL MARKS (Max. Score:75)
1	186M1A0539	59
2	196M1A0501	70
3	196M1A0502	38
4	196M1A0503	68
5	196M1A0504	67
6	196M1A0505	57
7	196M1A0506	35
8	196M1A0507	68
9	196M1A0508	69
10	196M1A0509	AB
11	196M1A0510	69
12	196M1A0511	56
13	196M1A0512	49
14	196M1A0513	35
15	196M1A0514	65
16	196M1A0515	47
17	196M1A0516	56
18	196M1A0517	65
19	196M1A0518	67
20	196M1A0519	63
21	196M1A0520	66
22	196M1A0522	54
23	196M1A0523	57
24	196M1A0524	64
25	196M1A0525	56
26	196M1A0526	66
27	196M1A0527	AB
28	196M1A0528	59
29	196M1A0529	48
30	196M1A0530	57
31	196M1A0531	49
32	196M1A0532	49

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33	196M1A0533	67
34	196M1A0534	63
35	196M1A0535	58
36	196M1A0536	57
37	196M1A0538	69
38	196M1A0539	67
39	196M1A0540	65
40	196M1A0541	64
41	196M1A0542	55
42	196M1A0543	54
43	196M1A0544	43
44	196M1A0545	57
45	196M1A0546	79
46	196M1A0547	48
47	196M1A0548	69
48	196M1A0549	67
49	196M1A0551	68
50	196M1A0552	AB
51	196M1A0553	65
52	196M1A0554	62
53	196M1A0555	47
54	196M1A0558	59
55	196M1A0559	AB
56	196M1A0560	66
57	196M1A0561	32
58	196M1A0562	69
59	196M1A0563	29
60	196M1A0564	57
61	196M1A0565	59
62	196M1A0566	69

No. of Students who attempted the Subject	58
Max. Marks	100
Threshold 40%	54
No. of students who scored more than the target score	54
Percentage of students who scored more than target score	93.10%
Overall External Attainment Level	3

**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	3		3		3
Course Outcome-2	2.4		2.4		3
Course Outcome-3		3	3		3
Course Outcome-4		3	3		3
Course Outcome-5		3	3		3
			2.88		3

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

Overall CO attainment =  $0.25 \times 2.88 + 0.75 \times 3$

Overall CO attainment =  $0.72 + 2.25$

Overall CO attainment = 2.97

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



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### External Examination Attainment

### Section-B

SLNo	HALL TICKET NO	TOTAL MARKS (Max. Score:75)
1	196M1A0567	69
2	196M1A0568	AB
3	196M1A0569	47
4	196M1A0570	28
5	196M1A0572	30
6	196M1A0573	47
7	196M1A0574	59
8	196M1A0575	32
9	196M1A0577	30
10	196M1A0578	57
11	196M1A0579	59
12	196M1A0580	58
13	196M1A0581	59
14	196M1A0582	79
15	196M1A0583	49
16	196M1A0584	59
17	196M1A0585	69
18	196M1A0586	49
19	196M1A0587	57
20	196M1A0588	69
21	196M1A0589	29
22	196M1A0590	28
23	196M1A0591	48
24	196M1A0592	69
25	196M1A0593	67
26	196M1A0594	59
27	196M1A0595	42
28	196M1A0596	23
29	196M1A0597	42
30	196M1A0598	46

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31	196M1A0599	42
32	196M1A05A0	37
33	196M1A05A1	AB
34	196M1A05A2	33
35	196M1A05A3	49
36	196M1A05A4	32
37	196M1A05A5	30
38	196M1A05A6	31
39	196M1A05B0	49
40	196M1A05B3	46
41	196M1A05B4	42
42	196M1A05B5	45
43	196M1A05B6	27
44	206M5A0501	20
45	206M5A0502	59
46	206M5A0503	49
47	206M5A0504	AB
48	206M5A0505	47
49	206M5A0506	69
50	206M5A0507	67
51	206M5A0509	68
52	206M5A0510	27
53	206M5A0511	59
54	206M5A0512	79
55	206M5A0513	47
56	206M5A0514	59
57	206M5A0515	69
58	206M5A0516	AB

No. of Students who attempted the Subject	54
Max. Marks	100
Threshold 40%	39
No. of students who scored more than the target score	39
Percentage of students who scored more than target score	72.22%
Overall External Attainment Level	2

**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	3		3		2
Course Outcome-2	2.8		2.8		2
Course Outcome-3		3	3		2
Course Outcome-4		2	2		2
Course Outcome-5		3	3		2
			2.76		2


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

Overall CO attainment =  $0.25 \times 2.76 + 0.75 \times 2$

Overall CO attainment =  $0.69 + 1.5$

Overall CO attainment = 2.19

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

  
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