



BALAJI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Approved by AICTE & PCI, Under Section 12, New Delhi and Affiliated to Kakatiya University, Wgl)

Laknepally (V) Narsampet (M) Warangal Rural (Dist) Telangana State 506331

Contact : +91 9866050044 (Office), +91 986652412 (Principal), +91 8718-230521 (Fax)

Steps for preparation of CO-PO attainment

Step 1: Details of the programme. : B.PHARMACY III sem

Details of Course : Physical pharmaceutics-I

Course Objective: Student should learn various physicochemical properties of Drugs

Step 2: Outline the Course Outcomes (COs) as shown below:

CO1	Understand various physicochemical properties of drug molecules in the designing the dosage form
CO2	Know the principles of chemical kinetics & to use them in assigning expiry date for formulation.
CO3	Demonstrate use of physicochemical properties in evaluation of dosage forms
CO4	Appreciate physicochemical properties of drug molecules in formulation Research and development
CO5	Understand various physicochemical properties of drug molecules in the designing the dosage form

Step 3: Outline the Program Outcomes (PO) and Program Specific Outcomes (PSO). Perform the CO mapping with PO and PSO.

PO1	Pharmacy Knowledge
PO2	Planning Abilities
PO3	Problem analysis
PO4	Modern tool usage
PO5	Leadership skills
PO6	Professional Identity
PO7	Pharmaceutical Ethics
PO8	Communication
PO9	The Pharmacist and society



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PO10	Environment and sustainability
PO11	Life-long learning

PSO1	The students shall be able to apply the knowledge and skill gained from various subjects and the aptitude developed throughout the course of the program in performing a job either independently or as a member of a team in various fields of pharmacy profession
PSO2	The students shall be able to make an initiation and achieve an innovation by properly integrating the input from various resources either independently or as a member of a team in various fields of pharmacy profession for betterment of the quality of life of the patients in the society

Step 4: Perform the CO mapping with PO and PSO.

Course Outcomes	Program outcomes											PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO1	3	0	0	2	0	0	0	0	0	0	2	3	2
CO2	3	0	0	3	0	0	0	0	0	0	3	3	3
CO3	3	0	0	1	0	0	0	0	0	0	1	3	1
CO4	3	0	0	3	0	0	0	0	0	0	1	3	1
Average	3.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00	0.00	1.75	3.00	1.75

Here in the table, '3' corresponds to a high correlation; '2' corresponds to a medium correlation, and

'1' corresponds to a low correlation, between CO and PO/PSO.



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Step 5: Fill in the entries (**bold**) as suggested in the table for CO attainment calculations.

If needed, one may use more internal assessment tools (assignments/quiz, etc.).

The target (P) may be 50% as per the requirements of the course and program.

Further, the target remains same for direct and indirect assessments **CO Attainment Calculations**

	Direct Assessment					Indirect Assessment	
	Internal Marks					External marks (75M)	Student course survey
	Continuous mode	Sess-1 (30 M)	Sess-2 (30 M)	Average marks (Computed for 15M)	Total sessional marks (25M)		
Target marks (50%)	5	15	15	7.5	12.5	50%	
Number of students above target marks	P	P	P	P	P	P	
Number of students attended	N	N	N	N	N	N	
% of Students above Target Marks :	$P/N \times 100$	$P/N \times 100$	$P/N \times 100$	$P/N \times 100$	$P/N \times 100$	$P/N \times 100$	
COs							
Attainment level	a				b	c	d

Attainment ($3 \geq 70\%$, $2 \geq 60\%$, $1 \geq 50\%$, $0 < 50\%$)

Internal Exam Attainment value	Average of a&b
External Exam Attainment value	c
overall direct attainment value (70% of external + 30% of internal Examination)	
Indirect attainment value	d
Overall CO attainment (80% of direct attainment +20% of indirect attainment)	



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Step 6: After filling in the details in the last step (P and P/N), assign the attainment level (3/2/1 according to (P/N) values) based on Direct Assessment 1, Direct Assessment 2, and Indirect Assessment.

Attainment level (3 if more than 70% of students achieved the target / 2 for >60% / 1 for >50%)

Direct assessment 1: refers to evaluation through internal assessments which majorly include Continuous mode (Assignments, slip tests, attendance etc) and Sessional marks.

Direct assessment 2: refers to evaluation through End Semester Examination (ESE)

Indirect assessment: refers to the exit feedback survey taken by students/faculty/employers. The exit feedback survey must be taken up before the end of the semester.

The exit survey may be based on a marking scheme (1-3) for each CO.

The course exit survey samples are given below for student/faculty/employer

Sample1: Course Outcome exit survey for students.

	Course Outcome	1(Low)	2(Moderate)	3(High)
CO1	Understand various physicochemical properties of drug molecules in the designing the dosage form			
CO2	Know the principles of chemical kinetics & to use them in assigning expiry date for formulation.			
CO3	Demonstrate use of physicochemical properties in evaluation of dosage forms			
CO4	Appreciate physicochemical properties of drug molecules in formulation Research and development			
CO5	Understand various physicochemical properties of drug molecules in the designing the dosage form			

Sample 2: Course Contents exit survey for students.

Questions	1(Low)	2(Moderate)	3(High)
Quality of the Course Content			
Relevance of the textbook to this course			
Were the lectures clear/well organized and presented at a reasonable pace?			
Did the lectures stimulate you intellectually?			
Are the assignment/lab experiment procedures clearly explained?			
Does the faculty utilizes LCD projectors			



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Sample3: Faculty/Employer Survey

Questions	1(Low)	2(Moderate)	3(High)
Satisfaction with the caliber of the graduates			
Courses are relevant to the organization's vision and mission			
Satisfaction with the speed at which course content is being adapted to meet changing industrial needs			
Relevant subject or discipline knowledge			
Quality of employability skills and attributes			
The satisfaction that graduates are learning the right skills			

Further steps to follow for the calculation of Course Outcome attainment (COA) level:

- Assign the attainment level (3 for >70%/2 for >60%/1 for >50%) for Direct Assessment and Indirect Assessment.
- Attainment based on internal assessment = Average of sessional I,II & Continuous mode.
- Direct CO Attainment Level (DA) = 30% IA + 70% EA
- Indirect CO Attainment Level (IA)
- Finally, Course Outcome Attainment (COA) level = 80% of DA and 20% of IA

	Direct Assessment						Indirect Assessment
	Internal Marks					External marks	Student course survey
	Continuous mode	Sess-1	Sess-2	Avg	Total sessional marks		
Target marks (50%)	5	15	15	7.5	12.5	50%	attainment
Number of students above target marks	101	72	65	69	70	78	101
Number of students attended	101	99	99	101	101	101	101
% of Students above Target Marks :	100.00	72.72	65.65	68.31	99.01	77.23	100
COs	CO1 TO CO5	CO1,CO2,CO3	CO3,CO4,CO5				
Attainment level	3.00	3	2			3.00	3.00

Attainment (3 ≥ 70%, 2 ≥ 60%, 1 ≥ 50%, 0 < 50%)

Internal Exam Attainment value	2.66
External Exam Attainment value	3
overall direct attainment value (70% of external + 30% of internal Examination)	2.8
Indirect attainment value	3
Overall CO attainment (80% of direct attainment +20% of indirect attainment)	2.84

Step 7: Based on the Course Objectives Attainment (COA) value as calculated at the end of step 6, perform the PO/PSO Attainment Calculations as shown below:

$$\text{PO/PSO Attainment} = \text{COA} \times M/3$$

(Refer to Step 6 for COA value)

M=Mapping value

	CO-PO-PSO Attainment Calculation												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO-PO/PSO mapping	3	0	0	2.25	0	0	0	0	0	0	1.75	3.00	1.75
CO-PO/PSO attainment	2.84	0	0	2.13	0	0	0	0	0	0	1.65	2.84	1.65



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CO-PO attainment

Details of the programme. : B.PHARMACY I sem

Details of Course : PHARMACEUTICAL INORGANIC CHEMISTRY-I

Course Objective: Student should learn basic anatomy and physiology of various organs

Course Outcomes (COs)

CO1	Knowledge of sources of impurities and methods to determine the impurities in inorganic drugs and pharmaceuticals
CO2	Understanding of the basic concepts of acidity /basicity, buffers and tonicity applicable in pharmaceuticals
CO3	Understanding of the medicinal and pharmaceutical importance of inorganic compounds
CO4	Understanding of concepts and principles of radiopharmaceuticals

Program Outcomes (PO) and Program Specific Outcomes (PSO).

PO1	Pharmacy Knowledge
PO2	Planning Abilities
PO3	Problem analysis
PO4	Modern tool usage
PO5	Leadership skills
PO6	Professional Identity
PO7	Pharmaceutical Ethics
PO8	Communication
PO9	The Pharmacist and society
PO10	Environment and sustainability
PO11	Life-long learning




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PSO1	The students shall be able to apply the knowledge and skill gained from various subjects and the aptitude developed throughout the course of the program in performing a job either independently or as a member of a team in various fields of pharmacy profession
PSO2	The students shall be able to make an initiation and achieve an innovation by properly integrating the input from various resources either independently or as a member of a team in various fields of pharmacy profession for betterment of the quality of life of the patients in the society

CO mapping with PO and PSO.

Course Outcomes	Program outcomes											PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO1	2	2	0	2	0	1	0	0	1	3	0	1	0
CO2	2	2	1	2	0	1	0	0	1	2	0	1	1
CO3	2	1	1	1	0	1	0	0	1	2	0	2	1
CO4	3	1	1	0	0	1	0	0	2	2	0	1	2
CO5	2	3	0	1	0	1	0	0	2	2	0	2	2
Average	2.20	1.80	1.00	1.50	0.00	1.00	0.00	0.00	1.40	2.20	0.00	1.40	1.50

Here in the table, '3' corresponds to a high correlation; '2' corresponds to a medium correlation, and

'1' corresponds to a low correlation, between CO and PO/PSO.

S No.	Hall Ticket No.	Name of the Student	Continuos mode (10M)	Sessional Marks (30M)		average marks computed for 15M	Total Sessional Marks 25M (A+B)	External	Ind Ass e
			A	I	II	B			
1	35123-6001	ABDUL ARIF ALAM	10	26	26	13	23	C	2
2	35123-6002	ABDUR RAHIM	10	28	29	15	25	C	2
3	35123-6003	ABUL UDDIN	10	30	30	15	25	B	2
4	35123-6004	AKBAR ALI	10	14	18	8	17	F	2
5	35123-6006	ANKALLA CHANDANA	10	29	30	15	25	C	2
6	35123-6007	ANOWAR HUSSAIN	10	10	20	8	17	D	2
7	35123-6008	ARFATH ALI	10	27	13	10	19	F	2
8	35123-6009	ARSAD AHMED CHOUDHURY	10	23	16	10	18	D	2




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9	35123-6010	ASHRAFUL AHMED	10	20	27	12	21	D	2.3
10	35123-6011	ASHRAFUL ISLAM	10	30	25	14	24	C	2.4
11	35123-6012	ASRAFUL HOQUE	10	23	26	13	22	B	2.2
12	35123-6013	BATTU SRAVAN KUMAR	10	25	20	12	21	D	2.3
13	35123-6014	BHUKYA SONIKA	10	28	25	14	24	D	2.4
14	35123-6016	BODDUPALLI SUVARNA	10	24	22	12	22	F	2.6
15	35123-6017	BONDUGULA SANJANA	10	22	30	13	23	D	2.4
16	35123-6018	BOODIDA AKSHAYA	10	30	29	15	24	A	2.3
17	35123-6019	BURRA MILIND GOUD	10	25	27	13	23	D	2.3
18	35123-6020	CHILUKURI THARUN	10	26	30	14	24	D	2.3
19	35123-6021	CHINTHAPANDU SAI SUDHA	10	29	24	14	24	D	2.3
20	35123-6022	DADIGELA SNEHA	10	27	25	13	23	B	2.3
21	35123-6023	DILSHA	10	28	28	14	24	D	2.3
22	35123-6024	EADARA MADHULIKA	10	26	30	14	24	C	2.3
23	35123-6025	ERRELI SONI	10	26	15	11	20	Ab	2.3
24	35123-6026	FARIDUL ISLAM	10	27	27	14	24	B	2.3
25	35123-6027	FARISA FATHIMA	10	28	23	13	23	A	2.3
26	35123-6028	FIDDUSUR RAHMAN	10	22	19	11	21	F	2.3
27	35123-6029	GOPALAPURAM SRIYA	10	29	30	15	25	C	2.3
28	35123-6030	GUGGILLA SHARON	10	21	A	6	15	D	2.3
29	35123-6031	GUGULOTHU GNANESHWARI	10	23	20	11	21	C	2.3
30	35123-6032	GUGULOTHU SHIVA SHANKAR	10	28	A	7	16	D	2.3
31	35123-6033	HAFIJUR RAHMAN	10	20	25	12	21	D	2.3




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32	35123-6034	HASANUR RAHMAN	10	24	20	11	20	F	2.2
33	35123-6035	JADI PRAHALAD	10	20	24	11	21	B	2.6
34	35123-6036	JAHDUL ISLAM	10	8	16	5	14	D	2.2
35	35123-6037	JAINUDDIN	10	19	14	9	17	D	2.0
36	35123-6038	JAKKULA SWETHA	10	30	30	15	25	C	2.4
37	35123-6039	K KARTHIK	10	21	21	11	20	D	2.2
38	35123-6040	KAKKERLA SUSHMA	10	26	30	14	24	D	2.3
39	35123-6041	KAMAGONI SAI CHARITHA	10	29	25	14	24	C	2.2
40	35123-6042	KONDURI SIREESHA	10	28	25	14	24	D	2.2
41	35123-6043	KOTA ABHISHAKTH	10	21	23	11	21	D	2.2
42	35123-6044	KOYYADA PRASHAMSHA	10	26	28	14	24	F	2.2
43	35123-6045	LINGAM BHEEMAMMA	10	24	20	11	19	F	2.2
44	35123-6046	MADDINALA SHANKAR	10	24	21	12	22	F	2.2
45	35123-6047	MAHBUBUL HASAN LASKAR	10	22	26	12	22	F	2.2
46	35123-6048	MAHMUDUL HASAN CHOUDHURY	10	18	22	10	20	D	2.2
47	35123-6049	MALA BALA KRISHNA	10	24	24	12	22	F	2.2
48	35123-6050	MALOTH AKASH	10	20	18	10	20	F	2.2
49	35123-6051	MAMUNURI NETHAJI	10	24	18	11	19	F	2.2
50	35123-6052	MANDAL ZAINUL ABEDIN SAIFUL ISLAM	10	A	11	3	10	F	2.2
51	35123-6053	MATTAPELLY OMSREEJA	10	28	28	14	24	F	2.2
52	35123-6055	MEDA DILEEP	10	15	20	14	24	F	2.2
53	35123-6056	MERAJUL ISLAM	10	15	15	8	17	F	2.2



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54	35123-6057	MINAL ALOM	10	19	20	10	18	F	2.2
55	35123-6058	MIR NISAR ALI	10	8	A	2	12	F	2.6
56	35123-6059	MOHAMMAD SANA	10	28	24	13	23	F	2.2
57	35123-6060	MOKIBUR RAHMAN	10	18	25	11	19	F	2.6
58	35123-6061	MONOWAR HUSSAIN	10	28	30	15	25	B	2.4
59	35123-6062	MOTHE MEGHANA	10	25	28	14	24	B	2.6
60	35123-6063	MUDASTHU THANMAI	10	26	18	11	21	D	2.2
61	35123-6064	MUDUTHANAPALLY THANU SRI	10	27	20	12	22	D	2.6
62	35123-6065	MUJAHIDUL ISLAM	10	14	16	8	18	D	2.4
63	35123-6066	MUJAMMIL ALI	10	17	22	10	20	F	2.2
64	35123-6067	MUSTAFA EZAZUL HOQUE	10	24	22	12	21	F	2.2
65	35123-6069	NAZRUL ISLAM	10	15	24	10	19	F	2.2
66	35123-6070	NENAVATH SANDEEP	10	24	25	13	23	F	2.2
67	35123-6071	NOMULA AMUKTHA MALYADA	10	29	30	15	25	D	2.2
68	35123-6072	NUNAVATH BHAVANI	10	10	24	9	19	F	2.2
69	35123-6073	NUR ISLAM MIAH	10	30	30	15	25	D	2.2
70	35123-6074	ODELA VAISHNAVI	10	30	28	15	25	D	2.2
71	35123-6075	PANDIT ALI SK	10	30	21	13	21	F	2.2
72	35123-6076	POTHU SREEJA	10	30	30	15	25	D	2.2
73	35123-6077	PUCHAKAYALA SAISATHVIKA	10	30	23	14	24	F	2.2
74	35123-6078	PUPPALA MUNEENDRA	10	16	21	10	19	F	2.2
75	35123-6079	RAKIBUL HUSSAIN	10	18	18	9	18	F	2.2
76	35123-6080	RAKIBUL ISLAM	10	16	17	9	18	F	2.2




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77	35123-6081	RAKIBUL MIYA	10	10	14	6	14	F	2.4
78	35123-6082	RAPOL NIVEDITHA	10	30	26	14	24	B	2.4
79	35123-6083	RIDWAN AHMED MAZUMDER	10	26	29	14	23	D	2.3
80	35123-6084	SADIQUR RAHMAN	10	5	10	4	12	F	2.2
81	35123-6085	SAHEDUR RAHMAN	10	9	18	6	15	F	2.0
82	35123-6086	SAHIL AHMED CHOUDHURY	10	25	22	12	21	F	2.1
83	35123-6087	SAMREEN	10	24	30	14	24	D	2.0
84	35123-6088	SANIYA YASMEEN	10	26	27	14	24	D	2.0
85	35123-6089	SARDAGANI POOJITHA	10	27	23	13	23	F	2.0
86	35123-6090	SHAIK SAFATH	10	26	20	12	22	F	2.0
87	35123-6091	SHAKIL AKTAR KHAN	10	20	23	11	21	F	2.0
88	35123-6092	SHAMIM SHAFI SIKDER	10	4	2	2	10	F	2.0
89	35123-6093	SOURAM SRIVARSHA	10	18	26	11	21	F	2.0
90	35123-6094	SUTHARI ISHWARYA	10	30	30	8	18	D	2.0
91	35123-6095	T SRIKANTH	10	19	26	12	22	F	2.0
92	35123-6096	TAHIDUL ISLAM	10	22	22	11	20	F	2.0
93	35123-6097	TEETLA SRAVYA	10	30	30	15	25	D	2.0
94	35123-6098	THANGALLAPELL Y JAHNAVI	10	23	23	12	22	D	2.0
95	35123-6099	TOMASH KULI	10	7	7	4	13	F	2.0
96	35123-6101	UPPULA SUNIL	10	25	20	13	23	B	2.0
97	35123-6102	VANGA JYOTHIKA	10	30	30	15	25	C	2.0

Target marks (50%)	5	15	15	7.5	12.5	50%	2
Number of students above target marks	97	82	85	87	93	55	97




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Number of students attended	97	96	94	97	97	96	97
% of Students above Target Marks :	100.00	85.42	90.43	89.69	95.88	57.29	100
Attainment level	3.00	3.00	3.00			1.00	3.00

Attainment ($3 \geq 70\%$, $2 \geq 60\%$, $1 \geq 50\%$, $0 < 50\%$)

Internal Exam Attainment value	3.00
External Exam Attainment value	1.00
overall direct attainment value (70% of external + 30% of internal Examination)	1.60
Indirect attainment value	3.00
Overall CO attainment (80% of direct attainment +20% of indirect attainment)	1.88

PO/PSO Attainment= COA x M/3

Course Outcomes	Program Outcomes											PSOs	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO-PO-PSO MAPPING	3	1.5	1.67	1.50	1.25	1.25	1.50	0.00	1.00	2.00	2.25	1.75	2
CO-PO-PSO ATTAINMENT	1.88	0.94	1.04	0.94	0.78	0.78	0.94	0.00	0.63	1.25	1.41	1.10	1.25




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CO-PO attainment

Details of the programme. : B.PHARMACY I SEM

Details of Course : Human Anatomy and physiology

Course Objective: Student should learn basic anatomy and physiology of various organs

Course Outcomes (COs)

CO1	Describe various systems of human body, cellular organization and Tissue levels
CO2	Describe integumentary system, skeletal system and joints and their disorders
CO3	Knowledge on various body fluid, Blood and lymphatic system
CO4	Relationship between various organs physiology and nervous system control, knowledge on special senses
CO5	Knowledge on cardiovascular system and its regulation



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Program Outcomes (PO) and Program Specific Outcomes (PSO).

PO1	Pharmacy Knowledge
PO2	Planning Abilities
PO3	Problem analysis
PO4	Modern tool usage
PO5	Leadership skills
PO6	Professional Identity
PO7	Pharmaceutical Ethics
PO8	Communication
PO9	The Pharmacist and society
PO10	Environment and sustainability
PO11	Life-long learning

PSO1	The students shall be able to apply the knowledge and skill gained from various subjects and the aptitude developed throughout the course of the program in performing a job either independently or as a member of a team in various fields of pharmacy profession
PSO2	The students shall be able to make an initiation and achieve an innovation by properly integrating the input from various resources either independently or as a member of a team in various fields of pharmacy profession for betterment of the quality of life of the patients in the society

CO mapping with PO and PSO.

Course Outcomes	Program outcomes											PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO1	2	2	0	2	0	1	0	0	1	3	0	1	0
CO2	2	2	1	2	0	1	0	0	1	2	0	1	1
CO3	2	1	1	1	0	1	0	0	1	2	0	2	1
CO4	3	1	1	0	0	1	0	0	2	2	0	1	2
CO5	2	3	0	1	0	1	0	0	2	2	0	2	2
Average	2.20	1.80	1.00	1.50	0.00	1.00	0.00	0.00	1.40	2.20	0.00	1.40	1.50

Here in the table, '3' corresponds to a high correlation; '2' corresponds to a medium correlation, and

'1' corresponds to a low correlation, between CO and PO/PSO.




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S No.	Hall Ticket No.	Name of the Student	Continuos mode (10M)	Sessional Marks (30M)		average marks computed for 15M	Total Sessional Marks 25M (A+B)	External	Indire Assess ent
			A	I	II	B			
1	35123-6001	ABDUL ARIF ALAM	10	27	27	13.5	23.5	C	2.4
2	35123-6002	ABDUR RAHIM	10	27	27	13.5	23.5	C	2.2
3	35123-6003	ABUL UDDIN	10	29	28	14.25	24.25	C	2.6
4	35123-6004	AKBAR ALI	10	18	20	9.5	19.5	F	2.2
5	35123-6006	ANKALLA CHANDANA	10	27	25	13	23	C	2.6
6	35123-6007	ANOWAR HUSSAIN	10	22	23	11.25	21.25	D	2.4
7	35123-6008	ARFATH ALI	10	2	17	4.75	14.75	F	2.2
8	35123-6009	ARSAD AHMED CHOUDHURY	10	15	23	9.5	19.5	D	2.3
9	35123-6010	ASHRAFUL AHMED	10	23	22	11.25	21.25	D	2.4
10	35123-6011	ASHRAFUL ISLAM	10	24	26	12.5	22.5	B	2.6
11	35123-6012	ASRAFUL HOQUE	10	25	27	13	23	C	2.3
12	35123-6013	BATTU SRAVAN KUMAR	10	28	26	13.5	23.5	D	2.4
13	35123-6014	BHUKYA SONIKA	10	25	25	12.5	22.5	C	2.3
14	35123-6016	BODDUPALLI SUVARNA	10	24	26	12.5	22.5	D	2.3
15	35123-6017	BONDUGULA SANJANA	10	AB	27	7	17	C	2.3
16	35123-6018	BOODIDA AKSHAYA	10	29	28	14.25	24.25	B	2.3
17	35123-6019	BURRA MILIND GOUD	10	29	28	14.25	24.25	C	2.3
18	35123-6020	CHILUKURI THARUN	10	25	23	12	22	D	2.3
19	35123-6021	CHINTHAPANDU SAI SUDHA	10	29	27	14	24	B	2.3
20	35123-6022	DADIGELA SNEHA	10	27	28	13.75	23.75	C	2.3
21	35123-6023	DILSHA	10	22	24	11.5	21.5	C	2.3
22	35123-6024	EADARA MADHULIKA	10	23	27	12.5	22.5	C	2.3
23	35123-6025	ERRELI SONI	10	19	25	11	21	F	2.3
24	35123-6026	FARIDUL ISLAM	10	27	27	13.5	23.5	C	2.3
25	35123-6027	FARISA FATHIMA	10	29	28	14.25	24.25	B	2.3
26	35123-6028	FIDDUSUR RAHMAN	10	24	22	11.5	21.5	D	2.3
27	35123-6029	GOPALAPURAM	10	29	28	14.25	24.25	B	2.3




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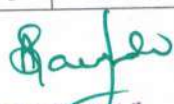
		SRIYA							
28	35123-6030	GUGGILLA SHARON	10	17	27	11	21	D	2.3
29	35123-6031	GUGULOTHU GNANESHWARI	10	21	26	11.75	21.75	D	2.4
30	35123-6032	GUGULOTHU SHIVA SHANKAR	10	25	24	12.25	22.25	D	2.3
31	35123-6033	HAFIJUR RAHMAN	10	28	20	12	22	C	2.4
32	35123-6034	HASANUR RAHMAN	10	15	17	8	18	F	2.4
33	35123-6035	JADI PRAHALAD	10	22	24	11.5	21.5	A	2.2
34	35123-6036	JAHDUL ISLAM	10	26	21	11.75	21.75	D	2.6
35	35123-6037	JAINUDDIN	10	7	21	7	17	D	2.2
36	35123-6038	JAKKULA SWETHA	10	29	28	14.25	24.25	C	2.6
37	35123-6039	K KARTHIK	10	21	22	10.75	20.75	C	2.4
38	35123-6040	KAKKERLA SUSHMA	10	26	28	13.5	23.5	C	2.2
39	35123-6041	KAMAGONI SAI CHARITHA	10	23	25	12	22	C	2.3
40	35123-6042	KONDURI SIREESHA	10	27	26	13.25	23.25	D	2.4
41	35123-6043	KOTA ABHISHAKTH	10	25	26	12.75	22.75	D	2.4
42	35123-6044	KOYYADA PRASHAMSHA	10	28	28	14	24	B	2.4
43	35123-6045	LINGAM BHEEMAMMA	10	24	17	10.25	20.25	F	2.4
44	35123-6046	MADDINALA SHANKAR	10	27	25	13	23	D	2.4
45	35123-6047	MAHBUBUL HASAN LASKAR	10	26	27	13.25	23.25	C	2.4
46	35123-6048	MAHMUDUL HASAN CHOUDHURY	10	22	27	12.25	22.25	C	2.4
47	35123-6049	MALA BALA KRISHNA	10	28	27	13.75	23.75	C	2.4
48	35123-6050	MALOTH AKASH	10	20	26	11.5	21.5	D	2.4
49	35123-6051	MAMUNURI NETHAJI	10	19	5	6	16	F	2.4
50	35123-6052	MANDAL ZAINUL ABEDIN SAIFUL ISLAM	10	AB	21	5.5	15.5	F	2.4
51	35123-6053	MATTAPELLY OMSREEJA	10	23	26	12.25	22.25	D	2.4
52	35123-6055	MEDA DILEEP	10	19	18	9.25	19.25	F	2.4



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53	35123-6056	MERAJUL ISLAM	10	24	21	11.25	21.25	D	2.6
54	35123-6057	MINAL ALOM	10	17	25	10.5	20.5	F	2.4
55	35123-6058	MIR NISAR ALI	10	6	AB	1.5	11.5	F	2.2
56	35123-6059	MOHAMMAD SANA	10	26	27	13.25	23.25	D	2.3
57	35123-6060	MOKIBUR RAHMAN	10	24	17	10.25	20.25	F	2.4
58	35123-6061	MONOWAR HUSSAIN	10	28	26	13.5	23.5	D	2.6
59	35123-6062	MOTHE MEGHANA	10	27	28	13.75	23.75	D	2.3
60	35123-6063	MUDASTHU THANMAI	10	18	23	10.25	20.25	F	2.4
61	35123-6064	MUDUTHANAPALLY THANU SRI	10	23	20	10.75	20.75	D	2.4
62	35123-6065	MUJAHIDUL ISLAM	10	14	16	7.5	17.5	D	2.3
63	35123-6066	MUJAMMIL ALI	10	22	18	10	20	F	2.4
64	35123-6067	MUSTAFA EZAZUL HOQUE	10	23	22	11.25	21.25	D	2.2
65	35123-6069	NAZRUL ISLAM	10	21	18	9.75	19.75	F	2.6
66	35123-6070	NENAVATH SANDEEP	10	14	24	9.5	19.5	F	2.2
67	35123-6071	NOMULA AMUKTHA MALYADA	10	29	29	14.5	24.5	B	2.6
68	35123-6072	NUNAVATH BHAVANI	10	22	26	12	22	F	2.4
69	35123-6073	NUR ISLAM MIAH	10	21	25	11.5	21.5	C	2.2
70	35123-6074	ODELA VAISHNAVI	10	26	29	13.75	23.75	B	2.2
71	35123-6075	PANDIT ALI SK	10	25	20	11.25	21.25	D	2.2
72	35123-6076	POTHU SREEJA	10	30	29	14.75	24.75	A	2.2
73	35123-6077	PUCHAKAYALA SAISATHVIKA	10	23	24	11.75	21.75	C	2.2
74	35123-6078	PUPPALA MUNEENDRA	10	13	15	7	17	F	2.2
75	35123-6079	RAKIBUL HUSSAIN	10	13	11	6	16	F	2.2
76	35123-6080	RAKIBUL ISLAM	10	9	9	4.5	14.5	F	2.2
77	35123-6081	RAKIBUL MIYA	10	5	5	2.5	12.5	F	2.2
78	35123-6082	RAPOL NIVEDITHA	10	23	29	13	23	B	2.2
79	35123-6083	RIDWAN AHMED MAZUMDER	10	23	27	12.5	22.5	D	2.2
80	35123-6084	SADIQUR RAHMAN	10	2	11	3.25	13.25	F	2.2
81	35123-6085	SAHEDUR RAHMAN	10	5	11	4	14	F	2.2
82	35123-6086	SAHIL AHMED	10	19	24	10.75	20.75	D	2.2




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		CHOUDHURY							
83	35123-6087	SAMREEN	10	30	29	14.75	24.75	B	2.6
84	35123-6088	SANIYA YASMEEN	10	22	24	11.5	21.5	C	2.4
85	35123-6089	SARDAGANI POOJITHA	10	28	27	13.75	23.75	C	2.3
86	35123-6090	SHAIK SAFATH	10	19	23	10.5	20.5	F	2.2
87	35123-6091	SHAKIL AKTAR KHAN	10	7	21	7	17	D	2.6
88	35123-6092	SHAMIM SHAFI SIKDER	10	12	4	4	14	F	2.2
89	35123-6093	SOURAM SRIVARSHA	10	19	29	12	22	C	2.6
90	35123-6094	SUTHARI ISHWARYA	10	30	29	14.75	24.75	B	2.4
91	35123-6095	T SRIKANTH	10	27	25	13	23	C	2.2
92	35123-6096	TAHIDUL ISLAM	10	18	17	8.75	18.75	F	2.3
93	35123-6097	TEETLA SRAVYA	10	25	29	13.5	23.5	B	2.4
94	35123-6098	THANGALLAPELL Y JAHNAVI	10	16	24	10	20	D	2.3
95	35123-6099	TOMASH KULI	10	4	10	3.5	13.5	F	2.3
96	35123-6101	UPPULA SUNIL	10	19	29	12	22	D	2.3
97	35123-6102	VANGA JYOTHIKA	10	30	29	14.75	24.75	C	2.3

Taget marks (50%)	5	15	15	7.5	12.5	50%	2
Number of students above target marks	97	79	87	81	95	71	97
Number of students attended	97	95	96	97	97	96	97
% of Students above Target Marks :	100.00	83.16	90.63	83.51	97.94	73.96	100
Attainment level	3.00	3.00	3.00			3.00	3.00

Attainment ($3 \geq 70\%$, $2 \geq 60\%$, $1 \geq 50\%$, $0 < 50\%$)

Internal Exam Attainment value	3
External Exam Attainment value	3
overall direct attainment value (70% of external + 30% of internal Examination)	3
Indirect attainment value	3
Overall CO attainment (80% of direct attainment +20% of indirect attainment)	3




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$$\text{PO/PSO Attainment} = \text{COA} \times \text{M}/3$$

Course Outcomes	Program Outcomes											PSOs	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO-PO-PSO MAPPING	2.20	1.80	1.00	1.50	0.00	1.00	0.00	0.00	1.40	2.20	0.00	1.40	1.50
CO-PO-PSO ATTAINMENT	2.20	1.80	1.00	1.50	0.00	1.00	0.00	0.00	1.40	2.20	0.00	1.40	1.50



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