

### Criteria-3: Course Outcomes And Program Outcomes

The attainment levels are set according to the performance of students in the internal assessment and university examinations. Internal assessment is carried at department level by course teacher for different courses. There are different parts of internal assessment. The details of the target levels set for internal assessment and university examinations are given in Table 3.2.1-b

#### A. List of assessment Metrics

Assessment of program learning outcomes (POs) and program specific outcomes (PSOs) is done through Direct Assessment tools and Indirect Assessment tools. The tools used to calculate the attainment is given in Table 3.3.1

Sr. No.	Direct Assessment Tool
<b>A.</b>	<b>Internal</b>
1	Unit Test Exam
2	Preliminary Exam
3	Laboratory Experiments
4	Assignments
5	Mock Oral / Practical Exam
6	Theory Attendance
7	Practical Attendance
<b>B.</b>	<b>University</b>
1	In Sem Exam
2	End Sem Exam
3	OR/PR Exam

Sr. No.	Indirect Assessment Tool
1	Graduate Exit Survey
2	Industry Exit Survey
3	Alumni Feedback

Table 3.3.1: POs Assessment Tools

#### B. The quality / relevance of assessment tools / processes used.

**Direct Assessment:** It is taken from COs contribution of each course in POs and PSOs attainment and program level courses to attainment. The weightage to this assessment is 80% of total attainment.

After collection, verification and analysis decision is taken on the basis of internal assessment and university examinations. As per the curriculum of the affiliating university internal assessment has 40% weightages and university examinations are 60%.. The calculations of outcome for each course is done according to equation (1)

Course Outcome =(40% Internal Assessment +60% University Examinations ) ---- (1)

$$= (0.4 *IA) +(0.6*UE)$$

**Indirect Assessment:** It is based on following different surveys carried out with stakeholders of the program. The weightage to this assessment is 20% of total attainment. On the basis of stake holders feedback regarding the POs, PSOs and functioning of the department is analyzed.

The step-by-step assessment processes used to gather the data for evaluation of program outcomes (POs) and program specific outcomes(PSOs) is

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Calculation of POs attainment by Direct Method ( 80% weightages )

- Analysis from Surveys ( 20% weightages)
- Attainment POs and PSOs = (80% Direct Assessment + 20 % Indirect Assessment)

#### **3.3.2. Provide results of evaluation of each PO and PSO (40)**

Program shall set Program Outcome attainment levels for all POs & PSOs.

(The attainment levels by direct (student performance) and indirect (surveys) are to be presented through Program level Course – PO & PSO matrix as indicated).

## PO Attainment AY 2022-23

PO ATTAINMENT													
Sr. No	COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO12
1	C107001	3	2.8	1.6	1	0	1	0	0	1	0	0	2
2	C107002	2.83	2.82	2.82	2.82	2.82	2.82	2.84	0	0	0	0	2.83
3	C107009	2.91	2.9	2.91	2.93	2.92	2.92	2.89	2.88	2.91	0	0	2.91
4	C102003	3	2.17	1.67	1	1.4	1.6	2.17	2	1	1.33	2	2
5	C103004	3.0	2.0	1.2	0.3	0.0	0.5	0.3	0.0	0.0	0.0	0.0	0.3
6	C104010	2.63	2.5	2.63	2.88	0	0	0	0	0	2.69	0	0
7	C110005	3	2.5	1.5	1.25	2	1.3333	2	1.67	2	1.5	2	2
8	C101011	2.15	2.15	2.18	0	0	0	0	0	2.15	0	0	0
9	C111006	3	3	3	3	3	3	3	3	3	3	3	3
10	C107008	3	2.2	2.2	1.4	0	1.4	0	0	1	0	0	1.8
11	C102012	3	2.17	1.67	1	1.4	1.6	2.17	2	1	1.33	2	2
12	C110013	3	3	3	3	3	3	3	3	3	3	3	3
13	C207005	3	2.2	2.2	1.4	0	2	0	0	1	0	0	2
14	C204181	2	2	1.5	2.85	2	1	1	0	2.8	3	3	3
15	C204182	2.83	2.84	0.00	2.84	0.00	2.84	2.83	2.80	0.00	2.84	2.84	2.83
16	C204183	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90
17	C204184	2.86	2.86	2.87	2.89	2.87	2.86	2.87	2.90	2.87	2.87	2.85	2.86
18	C204191	2.67	2.67	2.68	2.68	2.66	2.66	2.70	2.68	2.66	2.69	2.63	2.67
19	C204192	2.79	2.77	2.79	2.79	2.78	0.00	0.00	2.78	2.77	2.80	0.00	2.78
20	C204193	2.63	2.63	2.64	2.64	2.65	2.65	2.60	0.00	0.00	0.00	0.00	0.00
21	C204194	2.64	2.66	2.63	2.62	2.63	2.63	2.67	2.60	2.62	2.63	2.64	2.65
22	C304181	2.22	2.22	2.22	2.22	2.23	2.20	0.00	0.00	0.00	2.20	0.00	2.20
23	C304182	1.87	1.87	1.86	1.85	1.86	1.86	1.40	0.00	1.00	1.00	1.00	1.87

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24	C304183	2.22	2.22	2.22	2.22	2.23	2.20	0.00	0.00	0.00	2.20	0.00	2.20
25	C304184	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67
26	C304185 -FJP	2.62	2.63	2.61	2.64	2.61	2.60	2.63	2.60	2.61	2.60	2.60	2.63
27	C304185-CN	1.32	1.35	1.33	1.38	1.37	1.34	1.42	1.40	1.32	1.45	1.32	1.32
28	C304192	2.65	2.66	2.65	2.66	2.66	2.66	2.65	2.65	2.65	2.66	2.65	2.66
29	C304193	1.85	1.87	1.86	1.85	1.85	1.00	1.20	1.00	1.30	1.20	1.87	1.86
30	C304194	2.70	2.69	2.69	2.69	2.69	2.67	2.68	2.68	2.67	2.71	2.68	2.68
31	C304195 -AJP	2.75	2.73	2.75	2.75	2.73	2.72	2.74	2.72	2.72	2.70	2.72	2.75
32	C304195-NS	2.43	2.44	2.43	2.44	2.44	2.43	2.45	2.45	2.43	2.45	2.43	2.43
33	C404181	2.83	2.83	2.83	2.79	2.82	2.84	2.86	2.83	2.84	2.82	2.81	2.81
34	C404182	2	2	2	2	2	1	2	1	2	2	1	1.83333 3333
35	C404183	1.83	-	-	1.83	-	-	-	-	-	-	-	1.84
36	C404184- ELECTIVE-III ERTOS	2.75	2.73	2.75	2.75	2.73	1.22	1	1	1.33	1	1	1
37	C404185- ELECTIVE – IVEPD	2.74	2.73	2.67	2.71	2.71	0.00	0.00	0.00	0.00	2.69	2.70	2.73
38	C404190	2.81	2.81	2.81	2.80	2.80	2.81	2.80	2.80	2.80	2.81	2.80	2.81
39	C404191 ELECTIVE-V- MC	2.76	-	-	-	-	-	-	-	-	2.76	-	-
40	C404192 ELECTIVE-VI -DM	2.72	2.67	-	-	-	-	1	-	1	1	-	1
Direct Attainment (DA)		2.55	2.21	2.23	1.88	2.15	1.63	1.86	1.39	1.73	1.79	1.92	2.07
Indirect Attainment (IA)		2.75	2.63	2.51	2.46	2.53	1.98	2.6	1.95	2.6	2.65	2.1	2.78
PO Attainment 0.80*DA+0.20*IA		2.59	2.294	2.286	1.996	2.226	1.7	2.008	1.502	1.904	1.962	1.95	2.212

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Table 3.3.2.1: PO attainment AY 2022-23

**PSO Attainment AY 2022-23**

Sr. No	COURSE	PSO1	PSO2
1	C207005	2.63	2.66
2	C204181	2.63	2.66
3	C204182	2.84	2.826666667
4	C204183	2.63	2.66
5	C204184	2.87	2.88
6	C204191	2.67	2.66
7	C204192	2.80	2.80
8	C204193	2.63	2.66
9	C204194	2.62	2.64
10	C304181	2.22	2.24
11	C304182	1.40	1.80
12	C304183	2.22	2.64
13	C304184	2.67	2.67
14	C304185 -FJP	2.63	2.65
15	C304185-CN	2.62	2.64
16	C304192	2.65	2.66

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17	C304193	1.80	1.90
18	C304194	2.67	2.68
19	C304195-AJP	2.72	2.74
20	C304195-NS	2.44	2.43
21	C404181	2.78	2.79
22	C404182	2.53	2.53
23	C404183	1.82	1.82
24	C404184-ELECTIVE-III ERTOS	1.80	2.65
25	C404185-ELECTIVE –IV EPD	2.75	2.70
26	C404190	2.81	2.81
27	C404191 ELECTIVE-V MC	2.75	2.76
28	C404192 ELECTIVE VI- DIGITAL MARKETING	2.50	2.50
Direct Attainment (DA)		2.15	2.16
Indirect Attainment (IA)		2.8	2.7
PSO Attainment 0.80*DA+0.20*IA		<b>2.56</b>	<b>2.60</b>