



INTERNAL QUALITY ASSURANCE CELL
KARIM CITY COLLEGE, JAMSHEDPUR

**ATTAINMENT OF
COURSE OUTCOMES
AND
PROGRAM OUTCOMES**



MANUAL

Attainment of Course Outcomes and Program Outcomes

Outcome- Based Education (OBE) is a student-centric teaching methodology in which the course delivery, assessment, and evaluation are planned to achieve stated objectives and outcomes. It focuses on measuring student performance.

Program Outcomes (PO): Program outcomes are statements that describe the knowledge, skills and graduate attributes, which students should acquire at the time of their graduation. It focuses on measuring the students' performance holistically. The program outcome attainment focuses on curriculum, co-curricular, and extra-curricular activities in the teaching-learning process.

Program Specific Outcomes (PSO): PSO's are outcome statements that are specific to the graduate attributes. It describes the specific skills a graduate will own after completing their respective program.

Course Outcomes (CO): COs are statements that describe the knowledge the student would acquire at the end of each course. After extensive discussions at the department level, the COs are drafted by the individual faculty and mapped with the POs.

CO-PO Attainment Process

1. Defining Course Outcomes and Setting Target Levels for Attainment of Course Outcomes by the respective departments:

The course outcomes are the statements that describe knowledge and ability acquired by the student at the end of each course. The focus is on the attainment of skills rather than mere content. After discussion at the department level, the COs are framed and defined course-wise by individual faculty/subject coordinators, and also, the target level is set for attainment. The following method was also adopted to obtain the target average score for the course;



$$\text{Target Average Score} = \frac{\text{Sum of Grand total of all students}}{\text{Total No. of students}} \dots \dots \dots (\text{Equation} - 1)$$

$$\text{Percentage of Target Average Score} = \frac{\text{Result of Equation} - 1}{\text{Total Assigned Marks}} \times 100$$

2. CO Attainment Methodology: The following method is adopted to calculate the average CO attainment of each course:

$$\text{CO Attainment} = \frac{\text{No. of students scoring more than the class average}}{\text{Total No. of students}} \times 100$$

CO attainment levels:

- Level-1: <50% of students scored more than the class average (Low).**
- Level 2: >50% - <60% of students scored more than the class average (Medium).**
- Level 3: >60% of students scored above the class average (High).**
- E.g., If Level 2 is selected as a target, it indicates that between 50% and 60% of the students score more than the class average in that particular course.**

3. Defining and Set Target Level for Attainment of Program Outcomes:

The PO attainment target level is set (at Level 4) by the faculty in charge in consultation with the department heads. It implies that the department is aiming at minimum level-4 (Very Good) in the performance of the graduates under each program. The POs attainment are defined/set and stated as below:

PO Attainment Level:

- Level-1: >0.5 and <1.0 (Poor)**
- Level-2: >1.0 and <1.5 (Average)**
- Level-3: >1.5 and <2.0 (Good)**
- Level-4: >2.0 and <2.5 (Very Good)**



Level-5: >2.5 and <3.0 (Excellent)

4. PO Attainment Methodology: PO attainment of each faculty is obtained with the help of the following method:

$$\text{PO Attainment} = \frac{\text{Sum of all courses}}{\text{No. of courses}}$$

Sum of all courses = Percentage of Total Students scored more than average percentage

5. Calculation of Attainment Levels using the above CO and PO methodology:

MS Excel spreadsheet is used to calculate the attainment levels of COs and POs for all courses in the institution.

6. Actions for Course and Program Outcome Attainment:

The Courses having attainment **lesser than level-2** shall be addressed by the academic committee/ HOD, and remedial measures such as assignments, tutorials, and remedial coaching by the respective department heads are undertaken. The PO having an attainment level lesser than Level-4 will be addressed by the department and head of the Institution for corrective actions.



About Team:

Evaluation of Course Outcomes (COs) and Program Outcomes (POs) of the institutions were accomplished as per the standard parameters and guidelines set by different highly UGC-accredited institutions of the country. The following members were completed the attainment of the course and program outcomes:

1. Dr. Mohammad Reyaz (**Principal**)
2. Dr. S. M. Yahiya Ibrahim (**IQAC Coordinator**)
3. Dr. Syed Zahid Perwaiz
4. Dr. Md. Mujahidul Haque
5. Dr. Aftab Alam
6. Dr. Mohammad Shahnawaz
7. Dr. Firoj Alam
8. Dr. Pasarul Islam



Faculty of Humanities
Attainment of Course Outcomes and Program Outcomes
B.A (Hons.) Programs
Batch: 2016-19

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Bangla	6	56.16	2	33.33	1
	English	91	54.57	49	53.85	2
	Hindi	10	61.86	5	50.00	2
	Philosophy	NIL	---	---	---	---
	Urdu	9	54.88	3	33.33	1
Program Outcome of Humanities: Good (Level – 3)						1.5



Faculty of Humanities
Attainment of Course Outcomes and Program Outcomes
M.A Programs
Batch: 2017-19

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcome	Urdu	19	54.88	7	36.84	1
Program Outcome of Humanities: Average (Level – 1)						1



Faculty of Humanities
Attainment of Course Outcomes and Program Outcomes
B.A (Hons.) Programs
Batch: 2017-20

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Bangla	4	62.91	2	50.00	2
	English	84	68.66	19	22.62	1
	Hindi	12	65.94	6	50.00	2
	Philosophy	NIL	---	---	---	---
	Urdu	6	64.21	4	66.67	3
Program Outcome of Humanities: Very Good (Level – 4)						2



Faculty of Humanities
Attainment of Course Outcomes and Program Outcomes
M.A Programs
Batch: 2018-20

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcome	Urdu	16	64.21	6	37.50	1
Program Outcome of Humanities: Average (Level – 2)						1



Faculty of Humanities
Attainment of Course Outcomes and Program Outcomes
B.A (Hons.) Programs
Batch: 2018-21

	Subject	Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Bangla	7	70.50	4	57.14	2
	English	102	64.88	47	46.08	1
	Hindi	28	68.19	15	53.57	2
	Philosophy	4	67.33	3	75.00	3
	Urdu	13	60.42	7	53.85	2
Program Outcome of Humanities: Very Good (Level – 4)						2



Faculty of Humanities
Attainment of Course Outcomes and Program Outcomes
M.A. Programs
Batch: 2019-21

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcome	Urdu	14	60.42	8	57.14	2
Program Outcome of Humanities: Very Good (Level – 4)						2



Faculty of Humanities
Attainment of Course Outcomes and Program Outcomes
B.A (Hons.) Programs
Batch: 2019-22

	Subject	Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Bangla	4	74.31	2	50.00	2
	English	118	60.94	92	77.97	3
	Hindi	22	62.44	16	72.73	3
	Philosophy	2	75.875	1	50.00	2
	Urdu	3	67.375	1	33.33	1
Program Outcome of Humanities: Very Good (Level – 4)						2.2



Faculty of Humanities
Attainment of Course Outcomes and Program Outcomes
M.A Programs
Batch: 2020-22

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcome	Urdu	5	67.375	2	40.00	1
Program Outcome of Humanities: Average (Level – 2)						1



Faculty of Humanities
Attainment of Course Outcomes and Program Outcomes
B.A (Hons.) Programs
Batch: 2020-23

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Bangla	12	74.83	6	50.00	2
	English	122	57.54	105	86.07	3
	Hindi	13	72.36	9	69.23	3
	Philosophy	NIL	---	---	---	---
	Urdu	5	71.21	2	40.00	1
Program Outcome of Humanities: Very Good (Level – 4)						2.25



Faculty of Humanities
Attainment of Course Outcomes and Program Outcomes
M.A Programs
Batch: 2020-23

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcome	Urdu	13	71.21	6	46.15	1
Program Outcome of Humanities: Average (Level – 2)						1



Faculty of Social Sciences
Attainment of Course Outcomes and Program Outcomes
B.A (Hons.) Programs
Batch: 2016-19

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Economics	46	49.66	20	43.48	1
	History	71	52.40	43	60.56	3
	Geography	80	56.20	58	72.50	3
	Political Science	52	52.63	28	53.85	2
	Psychology	51	59.28	25	49.02	1
Program Outcome of Social Sciences: Very Good (Level – 4)						2



Faculty of Social Sciences
Attainment of Course Outcomes and Program Outcomes
M.A Programs
Batch: 2017-19

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcome	Psychology	21	59.49	10	47.62	1
Program Outcome of Social Sciences: Average (Level – 2)						1



Faculty of Social Sciences
Attainment of Course Outcomes and Program Outcomes
B.A (Hons.) Programs
Batch: 2017-20

	Subject	Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Economics	21	65.83	11	52.38	2
	History	58	62.93	36	62.07	3
	Geography	51	66.57	33	64.71	3
	Political Science	52	68.37	36	69.23	3
	Psychology	20	64.87	11	55.00	2
Program Outcome of Social Sciences: Excellent (Level – 5)						2.6



Faculty of Social Sciences
Attainment of Course Outcomes and Program Outcomes
M.A Programs
Batch: 2018-20

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcome	Psychology	18	56.678	8	44.44	1
Program Outcome of Social Sciences: Average (Level – 2)						1



Faculty of Social Sciences
Attainment of Course Outcomes and Program Outcomes
B.A (Hons.) Programs
Batch: 2018-21

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Economics	64	64.67	25	39.06	1
	History	62	67.37	42	67.74	3
	Geography	46	67.60	30	65.22	3
	Political Science	74	65.51	48	64.86	3
	Psychology	32	67.69	13	40.63	1
Program Outcome of Social Sciences: Very Good (Level – 4)						2.2



Faculty of Social Sciences
Attainment of Course Outcomes and Program Outcomes
M.A Programs
Batch: 2019-21

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcome	Psychology	19	63.15	19	100.00	3
Program Outcome of Social Sciences: Excellent (Level – 5)						3



Faculty of Social Sciences
Attainment of Course Outcomes and Program Outcomes
B.A (Hons.) Programs
Batch: 2019-22

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Economics	46	62.37	34	73.91	3
	History	61	71.77	42	68.85	3
	Geography	45	69.86	29	64.44	3
	Political Science	71	68.37	49	69.01	3
	Psychology	22	68.63	11	50.00	2
Program Outcome of Social Sciences: Excellent (Level – 5)						2.8



Faculty of Social Sciences
Attainment of Course Outcomes and Program Outcomes
M.A Programs
Batch: 2020-22

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcome	Psychology	20	75.45	12	60.00	3
Program Outcome of Social Sciences: Excellent (Level – 5)						3



Faculty of Social Sciences
Attainment of Course Outcomes and Program Outcomes
B.A (Hons.) Programs
Batch: 2020-23

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Economics	53	66.75	25	47.17	1
	History	50	70.28	31	62.00	3
	Geography	56	67.72	43	76.79	3
	Political Science	69	65.91	49	71.01	3
	Psychology	6	68.09	3	50.00	2
Program Outcome of Social Sciences: Very Good (Level – 4)						2.4



Faculty of Social Sciences
Attainment of Course Outcomes and Program Outcomes
M.A Programs
Batch: 2021-23

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcome	Psychology	7	75.30	3	42.86	1
Program Outcome of Social Sciences: Average (Level – 2)						1



Faculty of Science
Attainment of Course Outcomes and Program Outcomes
B.Sc. (Hons.) Programs
Batch: 2016-19

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Botany	16	59.96	12	75	3
	Chemistry	73	65.27	27	36.99	1
	Mathematics	108	61	58	53.70	2
	Physics	51	62.03	44	86.27	3
	Zoology	56	59.12	35	62.50	3
Program Outcome of Science: Very Good (Level – 4)						2.4



Faculty of Science
Attainment of Course Outcomes and Program Outcomes
M.Sc. Programs
Batch: 2017-19

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcome	Mathematics	39	64	38	97.44	3
Program Outcome of Science: Excellent (Level – 5)						3



Faculty of Science
Attainment of Course Outcomes and Program Outcomes
B.Sc. (Hons.) Programs
Batch: 2017-20

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Botany	8	59.97	5	62.50	3
	Chemistry	66	67.20	36	54.55	2
	Mathematics	123	62.00	82	66.67	3
	Physics	121	68.72	97	80.17	3
	Zoology	70	65.62	42	60.00	3
Program Outcome of Science: Excellent (Level – 5)						2.8



Faculty of Science
Attainment of Course Outcomes and Program Outcomes
M.Sc. Programs
Batch: 2018-20

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcome	Mathematics	56	65.00	53	94.64	3
Program Outcome of Science: Excellent (Level – 5)						3



Faculty of Science
Attainment of Course Outcomes and Program Outcomes
B.Sc. (Hons.) Programs
Batch: 2018-21

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Botany	43	64.11	38	88.37	3
	Chemistry	127	68.30	60	47.24	1
	Mathematics	180	63.00	138	76.67	3
	Physics	138	65.56	124	89.86	3
	Zoology	85	67.70	52	61.18	3
Program Outcome of Science: Very Good (Level – 4)						2.2



Faculty of Science
Attainment of Course Outcomes and Program Outcomes
M.Sc. Programs
Batch: 2019-21

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcome	Mathematics	76	66.00	76	100.00	3
Program Outcome of Science: Excellent (Level – 5)						3



Faculty of Science
Attainment of Course Outcomes and Program Outcomes
B.Sc. (Hons.) Programs
Batch: 2019-22

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Botany	25	66.80	22	88.00	3
	Chemistry	88	70.47	44	50.00	2
	Mathematics	169	64.00	128	75.74	3
	Physics	122	71.50	79	64.75	3
	Zoology	84	70.79	51	60.71	3
Program Outcome of Science: Excellent (Level – 5)						2.8



Faculty of Science
Attainment of Course Outcomes and Program Outcomes
M.Sc. Programs
Batch: 2020-22

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Chemistry	20	73.50	12	60.00	3
	Mathematics	62	67.00	53	85.48	3
Program Outcome of Science: Excellent (Level – 5)						3



Faculty of Science
Attainment of Course Outcomes and Program Outcomes
B.Sc. (Hons.) Programs
Batch: 2020-23

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Botany	13	68.87	12	92.31	3
	Chemistry	42	69.34	21	50.00	2
	Mathematics	80	65.00	63	78.75	3
	Physics	121	71.82	87	71.90	3
	Zoology	70	69.66	46	65.71	3
Program Outcome of Science: Excellent (Level – 5)						2.8



Faculty of Science
Attainment of Course Outcomes and Program Outcomes
M.Sc. Programs
Batch: 2021-23

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Chemistry	20	67.49	10	50.00	2
	Mathematics	65	68.00	30	46.15	1
Program Outcome of Science: Good (Level – 3)						1.5



Faculty of Commerce
Attainment of Course Outcomes and Program Outcomes
B.Com. (Hons.) Program
Batch: 2016-19 to 2020-23

Batch	Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
2016-19	681	56.36	342	50.22	2
2017-20	617	67.47	404	65.48	3
2018-21	619	72.08	421	68.01	3
2019-22	603	73.34	451	74.79	3
2020-23	451	70.67	353	78.27	3



Faculty of Commerce
Attainment of Course Outcomes and Program Outcomes
M.Com. Program
Batch: 2018-20 to 2021-23

Batch	Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
2018-20	52	77.00	30	57.69	2
2019-21	52	79.00	37	71.15	3
2020-22	85	71.00	57	67.10	3
2022-23	84	77.00	45	53.57	2



Faculty of Education
Attainment of Course Outcomes and Program Outcomes
B.Ed. Program
Batch: 2016-18 to 2021-23

Batch	Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
2016-18	100	74.28	68	68.00	3
2017-19	94	78.73	76	80.85	3
2018-20	99	82.6	85	85.86	3
2019-21	48	80.54	41	85.42	3
2020-22	98	81.49	62	63.27	3
2021-23	97	81.69	77	79.38	3



Vocational Programs
Attainment of Course Outcomes and Program Outcomes
Batch: 2016-19

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Mass Com.	46	71.91	36	78.26	3
	CA	22	67.72	21	95.45	3
	IT	62	78.00	41	66.13	3
Program Outcome of Vocational: Excellent (Level – 5)						3



Vocational Programs
Attainment of Course Outcomes and Program Outcomes
Batch: 2017-20

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Mass Com.	39	70.95	25	64.10	3
	CA	45	69.5	35	77.78	3
	IT	48	75	30	62.50	3
Program Outcome of Vocational: Excellent (Level – 5)						3



Vocational Programs
Attainment of Course Outcomes and Program Outcomes
Batch: 2018-21

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Mass Com.	45	72.91	23	51.11	2
	CA	55	70.57	43	78.18	3
	IT	35	56.00	24	68.57	3
Program Outcome of Vocational: Excellent (Level – 5)						2.67



Vocational Programs
Attainment of Course Outcomes and Program Outcomes
Batch: 2019-22

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Mass Com.	51	73.75	38	74.51	3
	CA	55	75.21	48	87.27	3
	IT	58	75.00	47	81.03	3
Program Outcome of Vocational: Excellent (Level – 5)						3



Vocational Programs
Attainment of Course Outcomes and Program Outcomes
Batch: 2020-23

Subject		Total No. of students Appeared in Exam	Target Average Score (%)	No. of Students scoring more than average percentage	Percentage of Total Students scored more than average percentage	Attainment Levels
Course Outcomes	Mass Com.	37	69.08	24	64.86	3
	CA	57	75.32	47	82.46	3
	IT	33	74.17	21	63.64	3
Program Outcome of Vocational: Excellent (Level – 5)						3