

ATTAINMENT AND EVALUATION OF PROGRAM OUTCOMES AND COURSE OUTCOMES

St. Bede's College is dedicated to fostering an optimal learning environment for its students. The institution consistently updates its teaching and learning methods to align with the latest UGC/NAAC guidelines and the requirements of Himachal Pradesh University. Program Outcomes (POs) and Course Outcomes (COs) had been defined previously, but in 2022, the college initiated the mapping of POs and COs, following the principles of Bloom's Taxonomy.

Role of IQAC The Internal Quality Assurance Cell (IQAC) serves as a guiding force that motivates the teaching community to successfully implement Outcome-Based Teaching and Learning (OBTL). IQAC is responsible for enumerating and mapping Program Outcomes (POs), Program Specific Outcomes (PSOs), and Course Outcomes (COs). Additionally, IQAC plays a pivotal role in driving the implementation of innovative strategies to achieve these educational outcomes.

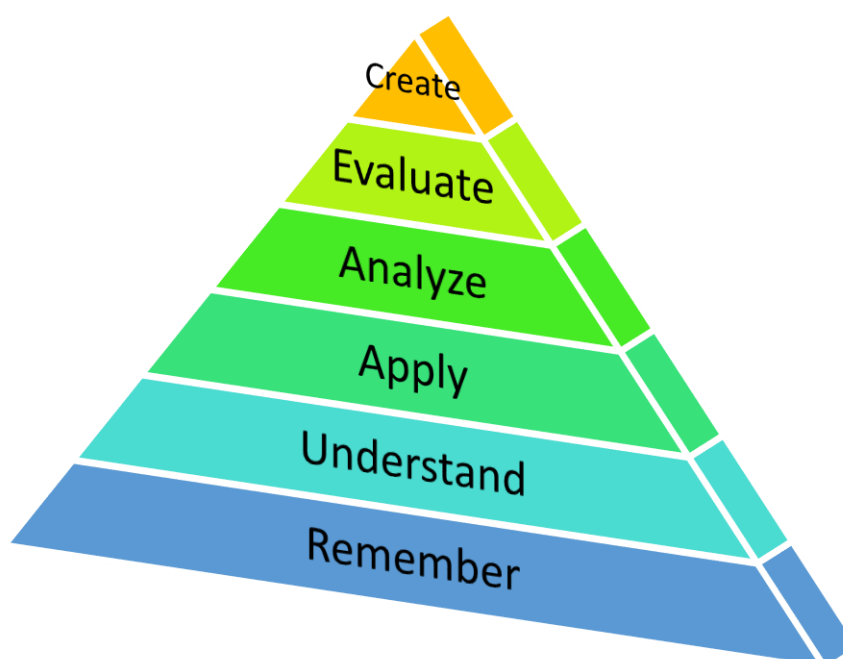
Program Outcome (PO) Enumeration

IQAC collaborates with Heads of Departments (HODs) and academic monitors to define POs for all 11 Undergraduate (UG) and 3 Postgraduate (PG) programs. These POs are derived from the learning outcomes outlined by the University after thorough discussions.

CO-PO Mapping Process:

Designing POs and COs: IQAC, academic monitors, and HODs collaboratively design program outcomes.

Designing COs: HODs, in conjunction with department faculty, create course outcomes based on Bloom's Taxonomy.



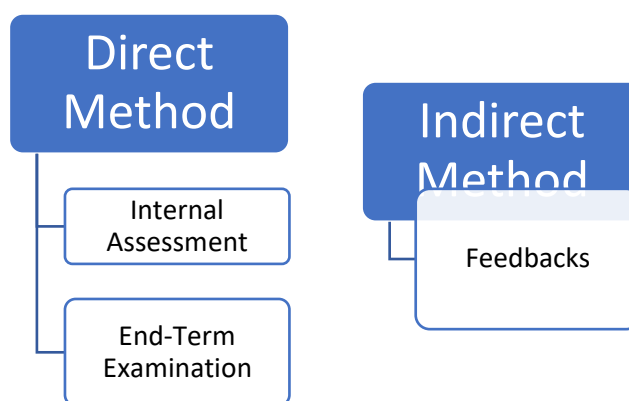
CO-PO Mapping: HODs, along with department faculty members, meticulously map COs to the corresponding POs.

Academic Monitor Review: IQAC, in collaboration with HODs and course coordinators, conducts a comprehensive review of CO statements and assesses the averages of CO-PO mapping.

Rubrics to Validate POs and PSOs: Weightages are allocated to different assessment methods, and these may vary across the 11 programs to account for the difference in program difficulty. The weightage allocation differs for various program types, such as simple BA and B.Sc, Honours programs, professional programs, and postgraduate programs. This approach ensures that the assessment methods align with the unique demands and complexities of each program, promoting a fair and accurate evaluation of Course Outcome (CO) attainment.

Target Attainment Levels of POs - Target Attainment Levels of Pos are defined for each program.

ASSESSMENT METHODS FOR CO ATTAINMENT:

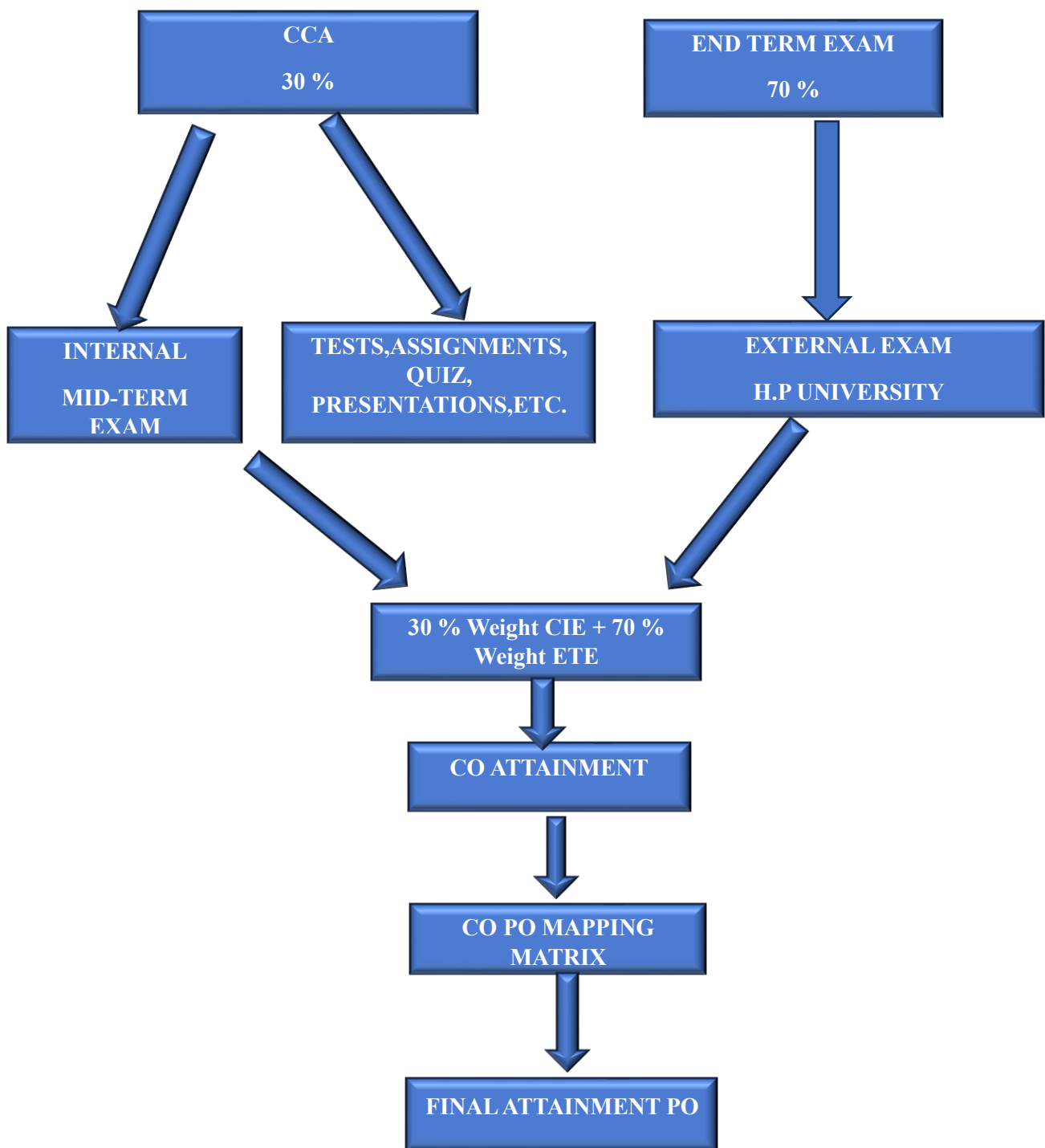


Direct Assessment Methods: These mechanisms evaluate CO attainment through students' performance in internal assessments and end-semester examinations, where internal assessments contribute 30% and end-semester exams contribute 70% to CO attainment.

Indirect Assessment Methods: Feedback from employers, students, alumni, and educators carries a 5% weightage each in the assessment process. Indirect POs attainment is calculated by mapping the question to POs in the Question-PO mapping table.

Final CO Attainment Calculation: The final PO attainment is determined by combining internal and external attainment at a ratio of 20:80. The formula used is: Final Value = 20% of Internal Level + 80% of External Level.

PO ATTAINMENT PROCESS



Attained values of POs are compared with target levels to identify gaps.

Reporting to HOD: HODs are required to prepare CO-PO attainment reports, identify curriculum gaps, and develop strategies for improvement.

By adhering to these guidelines and procedures, St. Bede's College ensures the successful implementation of Outcome-Based Education. This involves harmonizing COs and POs, assessing attainment levels, and continually enhancing the teaching and learning processes.

ATTAINMENT OF PROGRAM OUTCOMES

SAMPLE 1 BA ECONOMICS

COURSE CODE	PROGRAM OUTCOMES						
ECONA 101	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	3	1	1	-	2
	CO2	1	1			2	2
ECONA 102	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	1	1	-	-	2
	CO2	1	3	2	-	2	1
ECONA 201	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	2	1	1	1	2
	CO2	1	2	1	1	1	2
ECONA 202	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	-	1	-	-	1
	CO2	3	-	2	-	3	1
ECONA 203	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	1	1	2	-	-	2
	CO2	2	1	2	-	-	2
ECONA 205	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	3	2	1	-	2
	CO2	2	2	1	1	-	2
ECONA 303	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	-	1	-	-	2
	CO2	3	-	2	2	2	-
ECONA 308	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	-	2	2	-	-
	CO2	-	-	2	-	-	-
ECONA 310	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	-	2	2	1	2
	CO2	2	-	2	2		2
ECONA 311	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	-	2	-	-	-
	CO2	1	-	1	2	2	2

MAPPING POS/COS

PO/CO	PO1	PO2	PO3	PO4	PO5	P06
ECONA 101	2	2	1	1	2	2
ECONA 102	2	2	2	-	2	2
ECONA 201	2	2	1	1	1	2
ECONA 202	3	-	2	-	3	1
ECONA 203	2	1	2	-	-	2
ECONA 205	3	3	2	1	-	2
ECONA 303	3	-	2	2	2	2
ECONA 308	3	-	2	2	-	-
ECONA 310	3	-	2	2	1	2
ECONA 311	2	-	2	2	2	2
AVERAGE	3	2	2	2	2	2

ASSESSMENTMETHODS AND ATTAINMENT LEVELS

Assessment Methods	Attainment Level	
Direct Method 80 %	Assessment Rubrics	Level
CCA 30 % End Term Examination 70 %	≥ 75 % students attaining ≥ 60 % marks in internal exam and ≥ 50 % in external exam	3
	65-75 % students attaining ≥ 60 % marks in internal exam and ≥ 50 % in external exam	2
	55-65 % students attaining ≥ 60 % marks in internal exam and ≥ 50 % in external exam	1
	Less than 55 % students attaining ≥60 % marks in internal exam and ≥ 50 % in external exam	0
Indirect Method 20 %	Satisfaction level ≥ 40% considered	Strongly Agree 3, Agree 2 Neutral 1
Teachers Feedback 5 %		
Students Feedback 5 %		
Alumni Feedback 5 %		
Employers Feedback 5 %		

**DIRECT ASSESSMENT
BATCH 2022-23
RESULTS 2020-21 BA I**

Sr No	Student Name	ROLL No	ECONA101		ECONA102	
			70	30	70	30
1	Abhinandini Gupta	1200830008	54	23	44	19
2	Himanshi	1200830067	56	24	40	17
3	Parul Khangta	1200830113	37	16	40	17
4	Mitali Mehta	1200830094	61	26	47	20
5	Sapna Bhatia	1200830146	33	14	33	14
6	Vanshika Chauhan	1200830185	33	14	33	14
7	Yamini Sharma	1200830191	51	22	44	19
	Total no of Students		7	7	7	7
	Students \geq 50 % in external (35)	Students \geq 60 % in internal (18)	5	4	5	3
	Result Outcome		71.43	57.14	71.43	42.86
	Attainment Level		2	1	2	
	30 % CCA & 70 % ETE		1.4	0.30	1.4	0
	CO Attainment		1.70		1.4	

RESULTS 2021-22 BA II

Student Name	ROLL No	ECONA201		ECONA202		ECONA203		ECONA205	
		70	30	70	30	70	30	70	30
Abhinandini Gupta	1200830008	60	28	68	26	65	26	70	29
Himanshi Sharma	1200830067	48	24	57	24	57	25	64	24
Parul Khangta	1200830113	54	25	51	22	34	27	50	19
Mitali Mehta	1200830094	58	21	44	22	53	29	56	26
Sapna	1200830146	48	22	36	20	38	22	58	26
Vanshika Chauhan	1200830185	32	14	44	14	28	24	34	20
Yamini Sharma	1200830191	59	21	44	21	53	23	28	20
Total No of Students		7	7	7	7	7	7	7	7
Students \geq 50 % in external (35)	Students \geq 60 % in internal (18)	6	6	7	6	5	7	5	7
Result Outcome		85.71	85.71	100.00	85.71	71.4	100.00	71.4	100.00
Attainment Level		3	3	3	3	2	3	2	3
30 % CCA & 70 % ETE		2.10	0.90	2.10	0.90	1.4	0.90	1.4	0.90
CO Attainment		3		3		2.3		2.3	

RESULTS 2022-23 BA III

Sr No	Student Name	ROLL No	ECONA303		ECONA308		ECONA310		ECONA311	
			70	30	70	30	70	30	70	30
1	Abhinandini Gupta	1200830008	56	27	55	28	46	29	44	27
2	Himanshi Sharma	1200830067	51	20	51	21	47	24	31	17
3	Parul Khangta	1200830113	48	21	52	24	43	23	40	19
4	Mitali Mehta	1200830094	54	22	54	21	52	20	42	15
5	Sapna	1200830146	40	23	53	15	40	25	41	16
6	Vanshika Chauhan	1200830185	43	19	48	14	38	18	41	14
7	Yamini Sharma	1200830191	50	22	37	24	40	21	38	20
	Total no of Students		7	7	7	7	7	7	7	7
	Students \geq 50 % in external (35)	Students \geq 60 % in internal (18)	7	7	7	5	7	7	6	3
	Result Outcome		100.00	100.00	100.00	71.4	100.00	100.00	85.71	42.86
	Attainment Level		3	3	3	2	3	3	3	
	30 % CCA & 70 % ETE		2.10	0.90	2.10	0.60	2.10	0.90	2.10	0
	CO Attainment		3		2.70		3		2.1	

INDIRECT ASSESSMENT

Questions (Teachers Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
1.	Aims and objectives of the syllabi are well defined?	2	2	2	2	2	2
2.	Curriculum is skill oriented and develops innovative thinking?			1		1	1
3.	The curriculum helps in developing personality by inculcating soft skills, life, and employability skills?	1	1	1	1		1
4.	Curriculum has relevance to real life situations, reflects current trends and practices in the respective disciplines?	1		1		1	
5.	The curriculum fulfills industrial and societal needs?		1	1	1	1	1
6.	Curriculum addresses issues relevant to values and ethics	2			2	2	2
	Average	1.5	1.3	1.2	1.5	1.4	1.4
	Weightage=5%	0.08	0.07	0.06	0.08	0.07	0.07

Questions (Alumni Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
1.	Curriculum is structured, comprehensive, relevant and has good balance between theory and application?	2		2			2
2.	The Curriculum promotes internship, student exchange, field visit opportunities?	2	2	2	2		2
3.	The Curriculum inculcates soft skills, life skills and employability skills to make you ready for the world of work?		3	3		3	3
4.	Curriculum is effective in developing analytical and problem-solving skills.		2	2			2
5.	Curriculum has relevance to real life situations, reflects current trends and practices in the respective disciplines?					2	2
6.	Curriculum gives adequate balance between studies and social life.	2			2		2
7.	E-content and ICT is duly integrated in the curriculum for enhanced learning experience?	2				2	
	Average	2	2.3	2.25	2	2.3	2.17
	Weightage= 5%	0.1	0.12	0.11	0.1	0.12	0.11

Questions (Students Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
1.	Curriculum is structured, comprehensive, relevant and has good balance between theory and application?	2		2			
2.	The Curriculum promotes internship, student exchange, field visit opportunities?	2	2	2	2		2
3.	The Curriculum inculcates soft skills, life skills and employability skills to make you ready for the world of work?		2	2		2	2
4.	Curriculum is effective in developing analytical and problem-solving skills?		2	2			2
5.	Curriculum has relevance to real life situations, reflects current trends and practices in the respective disciplines?					2	2
6.	Curriculum gives adequate balance between studies and social life.	2			2		
7.	E-content and ICT is duly integrated in the curriculum for enhanced learning experience?	2		2			
	Average	2	2	2	2	2	2
	Weightage=5%	0.1	0.1	0.1	0.1	0.1	0.1

Questions (Employers Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
1.	The course objectives are well defined, and the modules are logically structured.	2	2	2			
2.	The curriculum provides scope for acquiring employable and entrepreneurship skills.		2	2	2	2	2
3.	The curriculum incorporates technical and communication skills.		2	2			
4.	The curriculum satisfies the current industry requirement.			2	2	2	2
5.	The curriculum has good balance between theory and Applications.	2	2	2			
6.	The syllabus has content for developing skills to handle problems at workplace?		1	1			
7.	Curriculum reflects current trends and practices in the respective disciplines.	3				3	3
8.	The curriculum helps the students to attain the required competency level.	3	3			3	3
	Average	2.5	2	1.8	2	2.5	2.5
	Weightage=5%	0.13	0.1	0.09	0.1	0.13	0.13

Final Indirect Assessment

Sr. No	Feedback	PO1	PO2	PO3	PO4	PO5	PO6
1	Teachers	0.08	0.07	0.06	0.08	0.07	0.07
2	Alumni	0.1	0.12	0.11	0.1	0.12	0.11
3	Students	0.1	0.1	0.1	0.1	0.1	0.1
4	Employers	0.13	0.1	0.09	0.1	0.13	0.13
	Total	0.41	0.39	0.36	0.38	0.42	0.41

FINAL ATTAINMENT

Mapping PO/Co		3	2	2	2	2	2
PO/CO	CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6
ECONA 101	1.70	1.70	1.13	1.13	1.13	1.13	1.13
ECONA 102	1.4	1.40	0.93	0.93	0.93	0.93	0.93
ECONA 201	3	3.00	2.00	2.00	2.00	2.00	2.00
ECONA 202	3	3.00	2.00	2.00	2.00	2.00	2.00
ECONA 203	2.3	2.30	1.53	1.53	1.53	1.53	1.53
ECONA 205	2.3	2.30	1.53	1.53	1.53	1.53	1.53
ECONA 303	3	3.00	2.00	2.00	2.00	2.00	2.00
ECONA 308	2.7	2.70	1.80	1.80	1.80	1.80	1.80
ECONA310	3	3.10	2.07	2.07	2.07	2.07	2.07
ECONA311	2.1	2.10	1.40	1.40	1.40	1.40	1.40
Average		2.46	1.64	1.64	1.64	1.64	1.64
Direct	80 %	1.97	1.31	1.31	1.31	1.31	1.31
Indirect	20 %	0.41	0.39	0.36	0.38	0.42	0.41
Final PO Attainment		2.38	1.70	1.67	1.69	1.73	1.72
Target		3.00	2.00	2.00	2.00	2.00	2.00
Gaps		0.62	0.30	0.33	0.31	0.27	0.28

Each Cell = CO Attainment x CO/PO Mapping

3

Final PO attainment = 80 % of Direct Average + 20 % of Indirect Assessment Average

IDENTIFICATION OF ATTAINMENT GAPS AND STRATEGIES FOR IMPROVEMENT

The significant 0.62 gap in Program Outcome 3 (PO3) focused on critical thinking and problem-solving skills is a clear concern. To improve it is vital to revamp the curriculum to better align with the goals of PO3, emphasizing practical applications and real-world problem-solving. Assessment methods will be updated to measure these skills accurately. Practical experiences like internships will be introduced to nurture critical thinking and problem-solving abilities. Continuous monitoring and feedback will be taken to evaluate the success of these strategies and ultimately bring student achievement in line with the desired outcome.

**SAMPLE 2
ECONOMICS HONOURS**

COURSE CODE		PROGRAM OUTCOMES					
ECONHA 101	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	-	2	-	1	-
	CO2	2	3	-	-		1
ECONHA 102	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	1	2	-	-	-
	CO2	2	3	1	-	-	-
ECONHA 103	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	-	1	2	2	2
	CO2	2	1	1	2	-	-
ECONHA 104	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	3	2	-	-	-
	CO2	3	3	2	-	-	-
ECONHA 201	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	1	1	2	1	1
	CO2	1	1	2	2	2	2
ECONHA 202	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	1	1	-	-	-
	CO2	2	1	1	3	2	2
ECONHA 203	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	3	3	-	-	-
	CO2	3	3	3	1	-	-
ECONHA 204	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	-	1	-	2	-
	CO2	-	2	1	2	-	2
ECONHA 205	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	1	-	1	-	-
	CO2	3	1	2	2	2	2
ECONHA 206	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	3	3	2	-	-
	CO2	3	3	3	2	2	-
ECONHA 208	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	1	-	1	3	2	2
	CO2	-	-	1	3	2	2
ECONHA 209	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	1	-	2	1	3
	CO2	2	1	1	3	2	2
ECONHA 301	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	2	-	2	2	3
	CO2	3	-	1	3	2	2
ECONHA 302	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	2	1	2	1	2
	CO2	1	-	1	3	2	2
ECONHA 303	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6

	CO1	3	-	2	1	-	1
	CO2	3	-	2	1	1	1
ECONHA 304	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	-	1	-	-	2
	CO2	3	-	2	2	2	-
ECONHA 306	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	-	1	1	-	-
	CO2	3	1	2	2	2	2
ECONHA 307	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	-	2	2	-	-
	CO2	-	-	2	-	-	-
ECONHA 310	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	-	2	-	-	-
	CO2	3	1	1	3	2	1
ECONHA 311	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	-	2	-	-	-
	CO2	1	-	1	2	2	2

MAPPING POS/COS

PO/CO	PO1	PO2	PO3	PO4	PO5	PO6
ECONHA 101	3	3	2	-	1	1
ECONHA 102	3	2	2	-	-	-
ECONHA 103	3	1	1	2	2	2
ECONHA 104	3	3	2	-	-	-
ECONHA 201	2	1	2	2	2	2
ECONHA 202	3	1	1	3	2	2
ECONHA 203	3	3	3	1	-	-
ECONHA 204	3	2	1	2	2	2
ECONHA 205	3	1	2	2	2	2
ECONHA 206	3	3	3	2	2	-
ECONHA 208	3	1	2	3	2	1
ECONHA 209	2	-	2	2	2	2
ECONHA 301	1	-	1	3	2	2
ECONHA 302	3	1	1	3	2	3
ECONHA 303	3	2	1	3	2	3
ECONHA 304	2	2	1	3	2	2
ECONHA 306	3	-	2	1	1	1
ECONHA 307	3	-	2	2	2	2
ECONHA 310	3	1	2	2	2	2
ECONHA 311	3	-	2	2	-	-
AVERAGE	3	2	2	2	2	2

ASSESSMENT METHODS AND ATTAINMENT LEVELS

Assessment Methods	Attainment Level	
Direct Method 80 %	Assessment Rubrics	Level
CCA 30 % End Term Examination 70 %	≥ 80 % students attaining 70 % marks in external exam and ≥ 75 % in internal exam	3
	70-80 % students attaining 70 % marks in external exam and ≥ 75 % in internal exam	2
	60-70 % students attaining 70 % marks in external exam and ≥ 75 % in internal exam	1
	< 60 % students attaining 70 % marks in external exam and ≥ 75 % in internal exam	0
Indirect Method 20 %	Satisfaction level ≥ 40% considered	Strongly Agree 3, Agree 2 Neutral 1
Teachers Feedback 5 %		
Students Feedback 5 %		
Alumni Feedback 5 %		
Employers Feedback 5 %		

DIRECT ASSESSMENT

BATCH 2022-23

RESULTS 2020-21 BA HONS I

			Introductory Microeconomics (DSC-1)		Mathematical Methods in Economics-I (DSC-2)		Introductory Macroeconomics (DSC-3)		Mathematical Methods in Economics-II (DSC-4)	
			ECONHA101		ECONHA102		ECONHA103		ECONHA104	
Sr No	Student Name	ROLL No	70	30	70	30	70	30	70	30
1	ANSHIKA BUSHAHRI	1200830200	44	19	61	26	56	24	49	21
2	CHAHAT DHIR	1200830047	58	25	65	28	40	17	63	27
3	KARTIKA SAM LOBO	1200830078	63	27	65	28	54	23	61	26
4	MANSI SHARMA	1200830208	63	27	68	29	61	26	63	27
5	MEHAK KHAKTA	1200830203	65	28	70	30	51	22	68	29
6	RUMJHUM	1200830140	70	30	70	30	63	27	70	30
7	SHREE	1200830157	63	27	58	25	65	28	63	27
	Total no of Students		7	7	7	7	7	7	7	7
	Students ≥ 70 Percent in external (49)	Students ≥ 75 Percent in internal (21)	6	6	7	7	6	5	7	6
	Result Outcome		85.71	85.71	100.00	100.00	85.71	71.43	100.00	85.71
	Attainment Level		3	3	3	3	3	2	3	3
	30 % CCA & 70 % ETE		2.1	0.9	2.1	0.9	2.1	0.6	2.1	0.9
	Final Attainment		3		3		2.7		3	

Results 2021-22 BA Hons II

Sr No	Student Name	ROLL No	Intermediate Microeconomics-I (DSC-5)		Intermediate Macroeconomics -I (DSC-6)		Statistical Methods for Economics (DSC-7)		Intermediate Microeconomics-II (DSC-8)		Intermediate Macroeconomics-II (DSC-9)		Introductory Econometrics (DSC-10)		Public Finance (SEC – 2)		Money and Banking (SEC – 3)	
			ECONHA201	ECONHA202	ECONHA203	ECONHA204	ECONHA205	ECONHA206	ECONHA208	ECONHA209								
			70	30	70	30	70	30	70	30	70	30	70	30	70	30	70	30
1	ANSHIKA BUSHAHRI	1200830200	49	20	52	20	62	24	60	22	52	25	52	20	52	20	51	19
2	CHAHAT DHIR	1200830047	56	26	52	21	64	25	65	24	56	22	50	27	52	21	54	25
3	KARTIKA SAM LOBO	1200830078	63	22	51	24	59	24	57	26	49	19	53	26	58	21	56	18
4	MANSI SHARMA	1200830208	54	23	53	23	50	26	60	21	51	22	50	28	52	21	45	22
5	MEHAK KHAKTA	1200830203	52	25	46	26	66	28	55	21	49	20	53	22	52	21	55	24
6	RUMJHUM	1200830140	53	26	55	25	52	30	50	30	45	22	51	30	52	21	48	21
7	SHREE	1200830157	59	25	56	27	63	29	53	28	53	24	51	30	51	24	50	22
	Total no of Students		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	Students ≥ 70 Percent in external (49)	Students ≥ 75 Percent in internal (21)	7	5	6	5	7	7	7	4	6	2	7	5	7	1	5	2
	Result Outcome		100.00	71.43	85.71	71.43	100.00	100.00	100.00	57.14	85.71	28.57	100.00	71.43	100.00	14.29	71.43	28.57
	Attainment Level		3	2	3	2	3	3	3	0	3	0	3	2	3	0	2	0
	30 % CCA & 70 % ETE		2.1	0.6	2.1	0.6	2.1	0.9	2.1	0.9	2.1	0	2.1	0.6	2.1	0	1.4	0
	Final Attainment		2.7		2.7		3		3		2.1		2.7		2.1		1.4	

Results 2022-23 BA III Year Hons

Sr No	Student Name	ROLL No	Indian Economy I (DSC 11)		Development Economics I (DSC 12)		Indian Economy II (DSC 13)		Development Economics II (DSC 14)		Economic History of India 1857-1947 (DSE 2)		Economy of Himachal Pradesh (DSE 3)		International Economics (DSE 6)		Economic Systems (DSE 7)	
			ECONHA301	ECONHA302	ECONHA303	ECONHA304	ECONHA306	ECONHA307	ECONHA310	ECONHA311								
			70	30	70	30	70	30	70	30	70	30	70	30	70	30	70	30
1	ANSHIKA BUSHAHRI	1200830200	45	22	48	23	53	22	54	25	50	25	54	22	50	24	53	25
2	CHAHAT DHIR	1200830047	53	20	52	24	53	22	56	24	52	23	51	23	51	22	57	25
3	KARTIKA SAM LOBO	1200830078	52	23	55	28	53	23	56	28	53	24	50	26	52	26	49	27
4	MANSI SHARMA	1200830208	45	23	52	21	51	22	55	27	46	24	46	21	48	24	47	24
5	MEHAK KHAKTA	1200830203	43	24	48	23	48	20	47	24	42	23	50	23	48	23	52	25
6	RUMJHUM	1200830140	50	27	52	28	50	23	53	26	50	26	49	23	51	25	52	26
7	SHREE	1200830157	50	24	50	25	54	24	54	24	51	24	51	24	48	23	44	24
	Total no of Students		7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	Students ≥ 70 Percent in external (49)	Students ≥ 75 Percent in internal (21)	4	5	5	6	6	3	6	7	5	7	6	5	4	6	5	7
	Result Outcome		57.14	71.43	71.43	85.71	85.71	42.86	85.71	100.00	71.43	100.00	85.71	71.43	57.14	85.71	71.43	100.00
	Attainment Level		0	2	2	3	3	0	3	3	2	3	3	2	0	3	2	3
	30 % CCA & 70 % ETE		0	0.6	1.4	0.9	0.9	0	2.1	0.9	1.4	0.9	2.1	0.6	0	0.9	1.4	0.9
	Final Attainment		0.6		2.3		0.9		3		2.3		2.7		0.9		2.3	

Indirect Assessment

Questions (Teachers Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
1	Aims and objectives of the syllabi are well defined?	2	2	2	2	2	2
2	Curriculum is skill oriented and develops innovative thinking?		1	1		1	
3	The curriculum helps in developing personality by inculcating soft skills, life, and employability skills?	1		1	1	1	1
4	Curriculum has relevance to real life situations, reflects current trends and practices in the respective disciplines?	1			1	1	1
5	The curriculum fulfills industrial and societal needs?	1			1	1	1
6	Curriculum addresses issues relevant to values and ethics	2					2
	Average	1.4	1.5	1.3	1.3	1.2	1.4
	Weightage=5%	0.07	0.08	0.07	0.07	0.06	0.07

Questions (Alumni Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
1	Curriculum is structured, comprehensive, relevant and has good balance between theory and application?	2	2	2			
2	The Curriculum promotes internship, student exchange, field visit opportunities?	2	2	2	2	2	
3	The Curriculum inculcates soft skills, life skills and employability skills to make you ready for the world of work?		3	3	3	3	3
4	Curriculum is effective in developing analytical and problem-solving skills.		2	2	2		
5	Curriculum has relevance to real life situations, reflects current trends and practices in the respective disciplines?	2	2		2	2	
6	Curriculum gives adequate balance between studies and social life.	2			2	2	
7	E-content and ICT is duly integrated in the curriculum for enhanced learning experience?	2	2	2			
	Average	2	2.2	2.2	2.2	2.25	3
	Weightage= 5%	0.1	0.11	0.11	0.11	0.11	0.15

Questions (Students Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
1	Curriculum is structured, comprehensive, relevant and has good balance between theory and application?	2	2	2			
2	The Curriculum promotes internship, student exchange, field visit opportunities?	2	2	2	2	2	
3	The Curriculum inculcates soft skills, life skills and employability skills to make you ready for the world of work?		2	2	2	2	2
4	Curriculum is effective in developing analytical and problem-solving skills?		2	2	2		
5	Curriculum has relevance to real life situations, reflects current trends and practices in the respective disciplines?	2	2		2	2	
6	Curriculum gives adequate balance between studies and social life.	2			2	2	
7	E-content and ICT is duly integrated in the curriculum for enhanced learning experience?	2	2	2			
	Average	2	2	2	2	2	2
	Weightage=5%	0.1	0.1	0.1	0.1	0.1	0.1

Questions (Employers Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
1	The course objectives are well defined, and the modules are logically structured.	2			2	2	2
2	The curriculum provides scope for acquiring employable and entrepreneurship skills.	2	2	2	2	2	
3	The curriculum incorporates technical and communication skills.	2	2	2	2		
4	The curriculum satisfies the current industry requirement.	2			2	2	
5	The curriculum has good balance between theory and Applications.	2	2	2	2		
6	The syllabus has content for developing skills to handle problems at workplace?			1	1	1	
7	Curriculum reflects current trends and practices in the respective disciplines.	3		3	3	3	3
8	The curriculum helps the students to attain the required competency level.	3	3	3	3	3	3
	Average	2.29	2.25	2.17	2.13	2.17	2.67
	Weightage=5%	0.11	0.11	0.12	0.11	0.12	0.13

Final Indirect Assessment

Sr. No	Feedback	PO1	PO2	PO3	PO4	PO5	PO6
1	Teachers	0.07	0.08	0.07	0.07	0.06	0.07
2	Alumni	0.1	0.11	0.11	0.11	0.11	0.15
3	Students	0.1	0.1	0.1	0.1	0.1	0.1
4	Employers	0.11	0.11	0.12	0.11	0.12	0.13
	Total	0.38	0.4	0.4	0.39	0.39	0.45

FINAL ATTAINMENT

Mapping PO/Co		3	2	2	2	2	2
PO/CO	CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6
ECONHA 101	3	3.00	2.00	2.00	2.00	2.00	2.00
ECONHA 102	3	3.00	2.00	2.00	2.00	2.00	2.00
ECONHA 103	2.7	2.70	1.80	1.80	1.80	1.80	1.80
ECONHA 104	3	3.00	2.00	2.00	2.00	2.00	2.00
ECONHA 201	2.7	2.70	1.80	1.80	1.80	1.80	1.80
ECONHA 202	2.7	2.70	1.80	1.80	1.80	1.80	1.80
ECONHA 203	3	3.00	2.00	2.00	2.00	2.00	2.00
ECONHA 204	3	3.00	2.00	2.00	2.00	2.00	2.00
ECONHA 205	2.1	2.10	1.40	1.40	1.40	1.40	1.40
ECONHA 206	2.7	2.70	1.80	1.80	1.80	1.80	1.80
ECONHA 208	2.1	2.10	1.40	1.40	1.40	1.40	1.40
ECONHA 209	1.4	1.40	0.93	0.93	0.93	0.93	0.93
ECONHA 301	0.6	0.60	0.40	0.40	0.40	0.40	0.40
ECONHA 302	2.3	2.30	1.53	1.53	1.53	1.53	1.53
ECONHA 303	0.9	0.90	0.60	0.60	0.60	0.60	0.60
ECONHA 304	3	3.00	2.00	2.00	2.00	2.00	2.00
ECONHA 306	2.3	2.30	1.53	1.53	1.53	1.53	1.53
ECONHA 307	2.7	2.70	1.80	1.80	1.80	1.80	1.80
ECONHA 310	0.9	0.90	0.60	0.60	0.60	0.60	0.60
ECONHA 311	2.3	2.30	1.53	1.53	1.53	1.53	1.53
Average		2.32	1.55	1.55	1.55	1.55	1.55
Direct (80%)		1.86	1.24	1.24	1.24	1.24	1.24
Indirect (20%)		0.38	0.40	0.40	0.39	0.39	0.45
Attainment		2.24	1.64	1.64	1.63	1.63	1.69
Target		3.00	2.00	2.00	2.00	2.00	2.00
Gaps		0.76	0.36	0.36	0.37	0.37	0.31

Each cell = CO Attainment x CO/PO Mapping

3

Final PO Attainment =80 % of Direct Average + 20 % of Indirect Assessment Average

IDENTIFICATION OF ATTAINMENT GAPS

The analysis of the Economics Honours program's achievements compared to its intended outcomes shows some significant gaps, especially in areas like advanced economic knowledge and policy analysis. To address these issues effectively, we need to make substantial changes to the curriculum. This involves adding more advanced economic theory and policy analysis courses. We should also encourage students to apply their quantitative skills to real-world economic problems, helping them think critically and analyze data. Furthermore, we should promote research excellence by motivating students to work on independent research projects, write research papers, and participate in academic conferences. Additionally, we can introduce courses that focus on the ethical aspects of economic decisions, underlining the social and

environmental responsibilities of economists. Creating opportunities for students to take on leadership roles within economic organizations or clubs and providing practical experiences through internships, guest lectures, or field visits can also be beneficial.

SAMPLE 3

CO/PO ASSESSMENT AND ATTAINMENT B.Sc. CHEMISTRY

COURSE CODE	PROGRAM OUTCOMES						
CHEM101	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	3	2	1	2	-
	CO2	3	3	2	2	2	1
CHEM102	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	3	2	1	2	1
	CO2	3	3	2	2	2	1
CHEM201	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	3	2	1	1	1
	CO2	3	3	2	2	1	1
CHEM202	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	2	2	-	1	-
	CO2	3	2	2	1	2	-
CHEM203	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	2	3	1	2	2	2
	CO2	2	3	1	2	2	2
CHEM204	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	1	1	3	3	1
	CO2	3	2	1	3	3	2
CHEM 301	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	3	3	2	3	-
	CO2	3	1	1	1	1	1
CHEM 304	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	3	2	1	1	1
	CO2	3	2	2	1	1	-
CHEM307	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	2	2	1	3	2	3
	CO2	2	1	3	2	2	1
CHEM308	COs / POs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	2	3	3	3	3
	CO2	2	1	2	1	3	2

Mapping POs/COs

PO/CO	PO1	PO2	PO3	PO4	PO5	PO6
CHEM101	3	3	2	2	2	1
CHEM102	3	3	2	2	2	1
CHEM201	3	3	2	2	1	1
CHEM202	3	2	2	1	2	-
CHEM203	2	3	1	2	2	2
CHEM204	3	2	1	3	3	2
CHEM 301	3	2	2	2	2	1
CHEM 304	3	3	2	1	1	1
CHEM307	2	2	2	3	2	2
CHEM308	3	2	3	2	3	3
AVERAGE	3	3	2	2	2	2

ASSESSMENTMETHODS AND ATTAINMENT LEVELS

Assessment Methods	Attainment Level	
Direct Method 80 %	Assessment Rubrics	Level
CCA 30 % End Term Examination 70 %	≥ 60 % students attaining ≥ 75 % marks in internal exam and ≥ 60 % in external exam	3
	50-60 % students attaining ≥ 75 % marks in internal exam and ≥ 60 % in external exam	2
	40-50% students attaining ≥ 75 % marks in internal exam and ≥ 60 % in external exam	1
	Less than 40 % students attaining ≥75 % marks in internal exam and ≥ 60 % in external exam	0
Indirect Method 20 %	Satisfaction level ≥ 40% considered	Strongly Agree 3, Agree 2 Neutral 1
Teachers Feedback 5 %		
Students Feedback 5 %		
Alumni Feedback 5 %		
Employers Feedback 5 %		

**DIRECT ASSESSMENT
BATCH 2022-23
RESULTS 2020-21 B.Sc I**

Sr No	Student Name	ROLL No	CHEM101		CHEM102	
			70	30	70	30
1	Aditi Verma	2200830009	69	29	69	29
2	Arushi Raghuwanshi	2200830016	69	29	66	28
3	Jasmine Chauhan	2200830031	69	29	69	29
4	Mahima	2200830036	66	28	66	28
5	Mannat Puharta	2200830039	68	28	69	29
6	Shivangi	2200830067	68	28	69	29
7	Simran Negi	2200830071	66	28	66	28
8	Swati Kalia	2200830074	66	28	68	28
9	Yashvi Dhiman	2200830078	68	28	68	28
Total no of Students			9	9	9	9
Students \geq 60 % in external (42)		Students \geq 75 % in internal (22.5)	9	9	9	9
Result Outcome			100	100	100	100
Attainment Level			3	3	3	3
30 % CCA & 70 % ETE			2.1	0.9	2.1	0.9
CO Attainment			3		3	

RESULTS 2021-22 B.Sc II

Student Name	ROLL No	CHEM201		CHEM202		CHEM203		CHEM204	
		70	30	70	30	70	30	70	30
Aditi Verma	2200830009	40	22	55	29	47	29	54	24
Arushi Raghuwanshi	2200830016	43	24	50	28	43	29	44	26
Jasmine Chauhan	2200830031	53	24	52	30	48	30	43	26
Mahima	2200830036	55	20	54	29	57	29	52	25
Mannat Puharta	2200830039	63	30	62	30	61	30	67	28
Shivangi	2200830067	52	22	55	29	57	30	56	27
Simran Negi	2200830071	51	23	60	28	51	29	57	27
Swati Kalia	2200830074	55	29	65	28	69	29	67	28
Yashvi Dhiman	2200830078	37	22	44	28	43	28	58	25
Total No of Students		9	9	9	9	9	9	9	9
Students \geq 60 % in external (42)		Students \geq 75 % in internal (22.5)		7	5	9	9	9	9
Result Outcome		77.78	55.56	100.00	100.00	100.00	100.00	100.00	100.00
Attainment Level		3	2	3	3	3	3	3	3
30 % CCA & 70 % ETE		2.10	0.60	2.10	0.90	2.10	0.90	2.10	0.90
CO Attainment		2.7		3		3		3	

RESULTS 2022-23 BA III

Student Name	ROLL No	CHEM301		CHEM304		CHEM307		CHEM308	
		70	30	70	30	70	30	70	30
Aditi Verma	2200830009	38	27	34	19	31	29	35	22
Arushi Raghuwanshi	2200830016	33	28	33	16	37	27	27	20
Jasmine Chauhan	2200830031	40	29	53	20	43	28	35	26
Mahima	2200830036	36	27	46	19	35	27	32	20
Mannat Puharta	2200830039	61	30	63	30	65	30	47	30
Shivangi	2200830067	47	30	37	23	48	28	36	24
Simran Negi	2200830071	38	28	35	21	40	27	45	24
Swati Kalia	2200830074	62	30	50	30	63	30	66	30
Yashvi Dhiman	2200830078	26	30	29	16	26	25	25	22
Total No of Students		9	9	9	9	9	9	9	9
Students \geq 60 % in external (42)	Students \geq 75 % in internal (22.5)	3	9	4	3	4	9	3	5
Result Outcome		33.33	100.00	44.44	33.33	44.44	100.00	33.33	55.56
Attainment Level		0	3	1	0	1	3	0	2
30 % CCA & 70 % ETE		0	0.9	0.7	0	0.7	0.9	0	0.6
CO Attainment		0.9		0.7		1.6		0.6	

INDIRECT ASSESSMENT

Questions (Teachers Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
1	Aims and objectives of the syllabi are well defined?	2	2	2	2	2	2
2	Curriculum is skill oriented and develops innovative thinking?			1	2	2	1
3	The curriculum helps in developing personality by inculcating soft skills, life, and employability skills?	2	1	1	1		1
4	Curriculum has relevance to real life situations, reflects current trends and practices in the respective disciplines?	1		1		1	
5	The curriculum fulfills industrial and societal needs?		1	2	1	2	1
6	Curriculum addresses issues relevant to values and ethics	2			2	2	2
	Average	1.7	1.3	1.4	1.6	1.8	1.4
	Weightage=5%	0.09	0.07	0.07	0.08	0.09	0.07

Questions (Alumni Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
1	Curriculum is structured, comprehensive, relevant and has good balance between theory and application?	2		2	2	2	
2	The Curriculum promotes internship, student exchange, field visit opportunities?	2	2	2		2	2
3	The Curriculum inculcates soft skills, life skills and employability skills to make you ready for the world of work?		3	3	2	3	3
4	Curriculum is effective in developing analytical and problem-solving skills.	2	2	2			2
5	Curriculum has relevance to real life situations, reflects current trends and practices in the respective disciplines?			2		2	
6	Curriculum gives adequate balance between studies and social life.	2				2	2
7	E-content and ICT is duly integrated in the curriculum for enhanced learning experience?	2		2		2	
	Average	2	2.3	2.1	2	2.1	2.2
	Weightage= 5%	0.1	0.12	0.11	0.1	0.11	0.11

Questions (Students Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO 2	PO3	PO 4	PO5	PO 6
1	Curriculum is structured, comprehensive, relevant and has good balance between theory and application?	2		2		2	
2	The Curriculum promotes internship, student exchange, field visit opportunities?	2		2	1		2
3	The Curriculum inculcates soft skills, life skills and employability skills to make you ready for the world of work?		2	2		2	2
4	Curriculum is effective in developing analytical and problem-solving skills?		2	2			
5	Curriculum has relevance to real life situations, reflects current trends and practices in the respective disciplines?			2		2	2
6	Curriculum gives adequate balance between studies and social life.	2		2			
7	E-content and ICT is duly integrated in the curriculum for enhanced learning experience?	2		2		2	
	Average	2	2	2	1	2	2
	Weightage=5%	0.1	0.1	0.1	0.05	0.1	0.1

Questions (Employers Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
1	The course objectives are well defined, and the modules are logically structured.	2	2	2	1	1	
2	The curriculum provides scope for acquiring employable and entrepreneurship skills.		2	2	2	2	1
3	The curriculum incorporates technical and communication skills.		2	2			
4	The curriculum satisfies the current industry requirement.			2	2	2	
5	The curriculum has good balance between theory and Applications.	2	2	2		1	
6	The syllabus has content for developing skills to handle problems at workplace?		1	1			
7	Curriculum reflects current trends and practices in the respective disciplines.	3	1				1
8	The curriculum helps the students to attain the required competency level.	3	3			3	3
	Average	2.5	1.8	1.8	1.6	1.8	1.6
	Weightage=5%	0.13	0.09	0.09	0.08	0.09	0.08

Final Indirect Assessment

Sr. No	Feedback	PO1	PO2	PO3	PO4	PO5	PO6
1	Teachers	0.09	0.07	0.07	0.08	0.09	0.07
2	Alumni	0.1	0.12	0.11	0.1	0.11	0.11
3	Students	0.1	0.1	0.1	0.05	0.1	0.1
4	Employers	0.13	0.09	0.09	0.08	0.09	0.08
	Total	0.42	0.38	0.37	0.31	0.39	0.36

FINAL ATTAINMENT

Mapping PO/Co		3	3	2	2	2	2
PO/CO	CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CHEM101	3	3.00	3.00	2.00	2.00	2.00	2.00
CHEM102	3	3.00	3.00	2.00	2.00	2.00	2.00
CHEM201	2.7	2.70	2.70	1.80	1.80	1.80	1.80
CHEM202	3	3.00	3.00	2.00	2.00	2.00	2.00
CHEM203	3	3.00	3.00	2.00	2.00	2.00	2.00
CHEM204	3	3.00	3.00	2.00	2.00	2.00	2.00
CHEM 301	0.9	0.90	0.90	0.60	0.60	0.60	0.60
CHEM 304	0.7	0.70	0.70	0.47	0.47	0.47	0.47
CHEM307	1.6	1.60	1.60	1.07	1.07	1.07	1.07
CHEM308	0.6	0.60	0.60	0.40	0.40	0.40	0.40
Average		2.15	2.15	1.43	1.43	1.43	1.43
80 % Direct		1.72	1.72	1.15	1.15	1.15	1.15
20% Indirect		0.42	0.38	0.37	0.31	0.39	0.36
Attainment		2.14	2.10	1.52	1.46	1.54	1.51
Target		3.00	3.00	2.00	2.00	2.00	2.00
Gaps		0.86	0.90	0.48	0.54	0.46	0.49

IDENTIFICATION OF ATTAINMENT GAPS & STRATEGIES FOR IMPROVEMENT

1. To address attainment gaps for PO-1 (Knowledge) and PO-2 (Problem Analysis), Review and enhance the curriculum for comprehensive coverage of various subjects.
2. Strengthen foundational knowledge in mathematics and science.
3. Emphasize practical applications and lab work.
4. Encourage students to identify and analyze scientific problems.
5. Promote critical thinking through case studies, group discussions, and independent problem-solving.

**SAMPLE 4
CO/PO ASSESSMENT AND ATTAINMENT
B.Sc. ZOOLOGY**

COURSE CODE	PROGRAM OUTCOMES						
ZOOL 101 TH	COs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	-	2	2	3	-
	CO2	2	1	1	3	3	1
ZOOL 102 TH	COs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	1	-	1	3	-
	CO2	3	2	-	1	3	-
ZOOL 201 TH	COs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	1	1	-	2	-
	CO2	2	1	1	-	3	-
ZOOL 202 TH	COs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	2	1	1	2	-
	CO2	3	3	1	3	2	1
ZOOL 203 TH	COs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	1	2	-	3	-
	CO2	2	2	2	-	2	-
ZOOL 204 TH	COs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	2	2	3	2	-
	CO2	2	2	3	3	3	1
ZOOL 301 (A)	COs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	2	2	2	2	-
	CO2	3	3	1	3	2	-
ZOOL 302 (C)	COs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	1	-	-	2	-
	CO2	2	2	1	-	1	2
ZOOL 303 TH	COs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	3	1	3	2	2	1
	CO2	1	3	3	-	2	1
ZOOL 304 (A)	COs	PO1	PO2	PO3	PO4	PO5	PO6
	CO1	2	1	2	2	2	-
	CO2	1	1	3	2	3	1

Mapping POs/COs

PO/CO	PO1	PO2	PO3	PO4	PO5	PO6
ZOOL 101 TH	3	1	2	3	3	1
ZOOL 102 TH	3	2	-	1	3	-
ZOOL 201 TH	3	1	1	-	3	-
ZOOL 202 TH	3	3	1	2	2	1
ZOOL 203 TH	3	2	2	-	3	-
ZOOL 204 TH	3	2	3	3	3	1
ZOOL 301 (A)	3	3	2	3	2	-
ZOOL 302 (C)	3	2	1	-	2	2
ZOOL 303 TH	2	2	3	2	2	1
ZOOL 304 (A)	2	1	3	2	3	1
Average	3	2	2	2	3	1

ASSESSMENT METHODS AND ATTAINMENT LEVELS

Assessment Methods	Attainment Level	
Direct Method 80 %	Assessment Rubrics	Level
CCA 30 % End Term Examination 70 %	≥ 60 % students attaining ≥ 75 % marks in internal exam and ≥ 60 % in external exam	3
	50-60 % students attaining ≥ 75 % marks in internal exam and ≥ 60 % in external exam	2
	40-50% students attaining ≥ 75 % marks in internal exam and ≥ 60 % in external exam	1
	Less than 40 % students attaining ≥75 % marks in internal exam and ≥ 60 % in external exam	0
Indirect Method 20 %	Satisfaction level ≥ 40% considered	Strongly Agree 3, Agree 2 Neutral 1
Teachers Feedback 5 %		
Students Feedback 5 %		
Alumni Feedback 5 %		
Employers Feedback 5 %		

**DIRECT ASSESSMENT
BATCH 2022-23
RESULTS 2020-21 B.Sc I**

Sr No	Student Name	ROLL No	Animal Diversity		Comparative Anatomy and Developmental Biology of Vertebrates	
			ZOOL 101TH	ZOOL 102 TH	ZOOL 101TH	ZOOL 102 TH
			70	30	70	30
1.	Anushka Kapoor	2200830014	64	28	64	26
2.	Awantika	2200830017	55	21	56	22
3.	Chinmay Sharma	2200830019	62	28	61	27
4.	Deepali Sharma	2200830020	52	22	54	20
5.	Diveshi Chauhan	2200830022	51	23	59	27
6.	Era Chauhan	2200830024	55	25	63	27
7.	Kaamakshi Goswami	2200830032	55	21	56	22
8.	Kalpana Sharma	2200830033	55	21	60	22
9.	Manisha Rawat	2200830037	67	27	66	28
10.	Muskan Sharma	2200830042	45	21	59	25
11.	Shaiful	2200830063	42	18	36	18
12.	Shelja	2200830065	41	19	49	25
13.	Shivangi	2200830068	50	26	60	28
14.	Shweta Punta	2200830069	51	25	67	27
15.	Tavishi Sharma	2200830075	54	30	64	28
16.	Aditi	2200830007	54	20	57	19
	Total no of Students		16	16	16	16
	Students \geq 60 % in external (42)	Students \geq 75 % in internal (22.5)	15	8	15	10
	Result Outcome		93.7	50	93.7	62.5
	Attainment Level		3	2	3	3
	30 % CCA & 70 % ETE		2.1	0.60	2.1	0.9
	Final Attainment		2.7		3.0	

RESULTS 2021-22 B.Sc II

S. No.	Student Name	ROLL No	Physiology and Biochemistry		Genetics and Evolutionary Biology		Medical Diagnostics		Apiculture	
			ZOOL 201 TH	ZOOL 201 TH	ZOOL 202 TH	ZOOL 202 TH	ZOOL 203 TH	ZOOL 203 TH	ZOOL 204 TH	ZOOL 204 TH
1.	Anushka Kapoor	2200830014	52	24	53	24	56	26	49	21
2.	Awantika	2200830017	47	22	40	24	54	23	44	22
3.	Chinmay Sharma	2200830019	37	16	39	21	38	13	38	19
4.	Deepali Sharma	2200830020	44	19	46	20	35	19	43	20
5.	Diveshi Chauhan	2200830022	59	27	44	24	32	22	44	22
6.	Era Chauhan	2200830024	39	21	40	22	50	21	52	26
7.	Kaamakshi Goswami	2200830032	45	18	51	22	51	20	46	19
8.	Kalpana Sharma	2200830033	40	21	46	18	36	20	44	19
9.	Manisha Rawat	2200830037	46	26	54	29	46	25	53	26
10.	Muskan Sharma	2200830042	45	22	50	28	53	19	56	24
11.	Shaiful	2200830063	35	17	37	16	28	19	38	18
12.	Shelja	2200830065	43	19	38	26	37	19	49	22
13.	Shivangi	2200830068	33	19	41	24	33	24	37	25
14.	Shweta Punta	2200830069	41	21	36	23	28	20	48	23
15.	Tavishi Sharma	2200830075	49	20	44	25	50	25	52	21
16.	Aditi	2200830007	58	23	56	26	60	23	53	23
	Total no of Students		16	16	16	16	16	16	16	16
	Students ≥ 60 % in external (42)	Students ≥ 75 % in internal (22.5)	9	4	9	11	8	6	13	6
	Result Outcome		56.25	25	56.25	68.75	50	37.5	81.25	37.5
	Attainment Level		2	0	2	3	2	0	3	0
	30 % CCA & 70 % ETE		1.4	0	1.4	0.9	1.4	0	2.1	0
	Final Attainment		1.4		2.3		1.4		2.1	

RESULTS 2022-23 B.Sc III

S. No.	Student Name	ROLL No	Applied Zoology		Reproductive Biology		Sericulture		Aquarium Fish Keeping	
			ZOOL 301 (A)	ZOOL 302 (C)	ZOOL 303 TH	ZOOL 304 (A)				
			70	30	70	30	70	30	70	30
1.	Anushka Kapoor	2200830014	50	24	57	21	65	22	38	25
2.	Awantika	2200830017	54	25	59	20	55	20	49	24
3.	Chinmay Sharma	2200830019	35	22	42	19	37	20	35	22
4.	Deepali Sharma	2200830020	36	24	53	23	40	19	37	24
5.	Diveshi Chauhan	2200830022	34	27	48	24	51	26	31	26
6.	Era Chauhan	2200830024	42	26	54	23	54	22	45	25
7.	Kaamakshi Goswami	2200830032	37	27	53	20	56	18	41	24
8.	Kalpna Sharma	2200830033	50	24	56	21	56	22	42	25
9.	Manisha Rawat	2200830037	49	28	49	23	53	23	43	26
10.	Muskan Sharma	2200830042	49	26	56	24	56	24	48	27
11.	Shaiful	2200830063	36	20	38	19	29	15	30	20
12.	Shelja	2200830065	35	23	55	20	51	21	42	24
13.	Shivangi	2200830068	33	23	55	18	42	19	37	24
14.	Shweta Punta	2200830069	35	22	50	18	59	19	35	25
15.	Tavishi Sharma	2200830075	51	26	54	25	62	21	48	26
16.	Adivi	2200830007	56	26	63	24	56	22	41	25
	Total no of Students		16	16	16	16	16	16	16	16
	Students \geq 60 % in external (42)	Students \geq 75 % in internal (22.5)	8	13	15	7	13	3	7	14
	Result Outcome		50	81.25	93.7	43.75	81.25	18.75	43.75	87.5
	Attainment Level		2	3	3	1	3	0	1	3
	30 % CCA & 70 % ETE		1.4	0.9	2.1	0.3	2.1	0	0.7	0.9
	Final Attainment		2.3		2.4		2.1		1.6	

Questions (Teachers Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
7.	Aims and objectives of the syllabi are well defined?	2	2	2	2	2	2
8.	Curriculum is skill oriented and develops innovative thinking?			1	2	2	1
9.	The curriculum helps in developing personality by inculcating soft skills, life, and employability skills?	2	1	1	1		1
10.	Curriculum has relevance to real life situations, reflects current trends and practices in the respective disciplines?	1		1		1	
11.	The curriculum fulfills industrial and societal needs?		1	2	1	2	1
12.	Curriculum addresses issues relevant to values and ethics	2			2	2	2
	Average	1.7	1.3	1.4	1.6	1.8	1.4
	Weightage=5%	0.09	0.07	0.07	0.08	0.09	0.07

Questions (Alumni Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
1.	Curriculum is structured, comprehensive, relevant and has good balance between theory and application?	2		2	2	2	
2.	The Curriculum promotes internship, student exchange, field visit opportunities?	2	2	2		2	2
3.	The Curriculum inculcates soft skills, life skills and employability skills to make you ready for the world of work?		3	3	2	3	3
4.	Curriculum is effective in developing analytical and problem-solving skills.	2	2	2			2
5.	Curriculum has relevance to real life situations, reflects current trends and practices in the respective disciplines?			2		2	
6.	Curriculum gives adequate balance between studies and social life.	2				2	2
7.	E-content and ICT is duly integrated in the curriculum for enhanced learning experience?	2		2		2	
	Average	2	2.3	2.1	2	2.1	2.2
	Weightage= 5%	0.1	0.12	0.11	0.1	0.11	0.11

Questions (Students Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
15.	Curriculum is structured, comprehensive, relevant and has good balance between theory and application?	2		2		2	
16.	The Curriculum promotes internship, student exchange, field visit opportunities?	2		2	1		2
17.	The Curriculum inculcates soft skills, life skills and employability skills to make you ready for the world of work?		2	2		2	2
18.	Curriculum is effective in developing analytical and problem-solving skills?		2	2			
19.	Curriculum has relevance to real life situations, reflects current trends and practices in the respective disciplines?			2		2	2
20.	Curriculum gives adequate balance between studies and social life.	2		2			
21.	E-content and ICT is duly integrated in the curriculum for enhanced learning experience?	2		2		2	
	Average	2	2	2	1	2	2
	Weightage=5%	0.1	0.1	0.1	0.05	0.1	0.1

Questions (Employers Feedback on Curriculum) mapping with PO

Sr. No.	Questions	PO1	PO2	PO3	PO4	PO5	PO6
9.	The course objectives are well defined, and the modules are logically structured.	2	2	2	1	1	
10.	The curriculum provides scope for acquiring employable and entrepreneurship skills.		2	2	2	2	1
11.	The curriculum incorporates technical and communication skills.		2	2			
12.	The curriculum satisfies the current industry requirement.			2	2	2	
13.	The curriculum has good balance between theory and Applications.	2	2	2		1	
14.	The syllabus has content for developing skills to handle problems at workplace?		1	1			
15.	Curriculum reflects current trends and practices in the respective disciplines.	3	1				1
16.	The curriculum helps the students to attain the required competency level.	3	3			3	3
	Average	2.5	1.8	1.8	1.6	1.8	1.6
	Weightage=5%	0.13	0.09	0.09	0.08	0.09	0.08

Final Indirect Assessment

Sr. No	Feedback	PO1	PO2	PO3	PO4	PO5	PO6
1	Teachers	0.09	0.07	0.07	0.08	0.09	0.07
2	Alumni	0.1	0.12	0.11	0.1	0.11	0.11
3	Students	0.1	0.1	0.1	0.05	0.1	0.1
4	Employers	0.13	0.09	0.09	0.08	0.09	0.08
	Total	0.42	0.38	0.37	0.31	0.39	0.36

FINAL ATTAINMENT

Mapping PO/Co		3	2	2	2	3	1
PO/CO	CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6
ZOOL 101 TH	2.7	2.70	1.80	1.80	1.80	2.70	0.90
ZOOL 102 TH	3.0	3.00	2.00	2.00	2.00	3.00	1.00
ZOOL 201 TH	1.4	1.40	0.93	0.93	0.93	1.40	0.47
ZOOL 202 TH	2.3	2.30	1.53	1.53	1.53	2.30	0.77
ZOOL 203 TH	1.4	1.40	0.93	0.93	0.93	1.40	0.47
ZOOL 204 TH	2.1	2.10	1.40	1.40	1.40	2.10	0.70
ZOOL 301 (A)	2.3	2.30	1.53	1.53	1.53	2.30	0.77
ZOOL 302 (C)	2.4	2.40	1.60	1.60	1.60	2.40	0.80
ZOOL 303 TH	2.1	2.10	1.40	1.40	1.40	2.10	0.70
ZOOL 304 (A)	1.6	1.60	1.07	1.07	1.07	1.60	0.53
Average		2.13	1.42	1.42	1.42	2.13	0.71
Direct (80%)		1.70	1.14	1.14	1.14	1.70	0.57
Indirect (20%)		0.42	0.38	0.37	0.31	0.39	0.36
Attainment		2.12	1.52	1.51	1.45	2.09	0.93
Target		3.00	2.00	2.00	2.00	3.00	1.00
Gaps		0.88	0.48	0.49	0.55	0.91	0.07

IDENTIFICATION OF ATTAINMENT GAPS

- Addition of pertinent information regarding calculations using applied mathematics.
- The inclusion of courses on scientific problems and problem analysis.
- When curriculum revisions are made at the university level, bioinformatics-related subjects to be added.
- To help students achieve the outcomes industry visits can be incorporated, which require extra support services like mentorship or counselling.
- Practical training to be offered while teaching Skill enhancement courses.
- Specific themes must be included in the curriculum to ensure lifelong learning.

STRATEGIES FOR IMPROVEMENT

- Establishing clear and measurable learning outcomes for the educational program or course
- Create transparent and easily understood assessment standards and rubrics to make it easier for teachers and students to understand how student work will be assessed in relation to learning objectives.
- Create a feedback mechanism for ongoing development. Data on student performance should be gathered, analysed, and used to improve teaching strategies and curriculum.
- Invest in faculty members continued professional development to keep them informed about cutting-edge approaches to teaching, assessment and outcome-based learning.
- Encourage students to regularly evaluate their performance in relation to the learning objectives and to give faculty comments on the efficiency of the teaching and evaluation strategies.
- Encourage interdepartmental collaboration to develop a holistic educational experience that considers problems from the real world.
- Actively incorporate feedback from students, alumni, and employers to inform ongoing improvements in the outcome-based education approach.