

OUTCOME BASED EDUCATION ATTAINMENT

Holy Cross College (Autonomous), Nagercoil was established in the year 1965, to impart quality education to the rural women of Kanyakumari district. The institution is committed to empower women where academic excellence and skills would help them to face the competitive world. Having realized the importance of Outcome Based Education (OBE) the college ventured into OBE in the year 2017. Since then, Learning Outcome-based Curriculum Framework (LOCF), student-centric teaching and learning and assessment are planned to achieve stated objectives and outcomes. It focuses on measuring student performance i.e. outcomes at different cognitive levels.

OBE question entry portal:

The question pattern is decided by the faculty and questions of different cognitive level and course outcomes are generated.

HCCNGL ERP | Vinolya Josephine Mary. J

OBE QP Generate Pattern Entry

Academic Year: 2024 | Setting: ODD Semester - 2024 | OBE Pattern: III UG INTERNAL PATTERN F

Course List: MAJOR CORE VII: ECOLOGY | Component: INTERNAL 1 | **Get**

Q.S.No	Question No	KO Level	CO Level	Unit	Sub Unit	Question Type
1	1	K1	CO1	UNIT - 1	1.1	MCQ
2	2	K1	CO1	UNIT - 1	1.1	MCQ
3	3	K1	CO1	UNIT - 1	1.1	MCQ
4	4	K4	CO4	UNIT - 4	1.2	V.S.A
5	5.A	K2	CO4	UNIT - 1	1.2	PART B
6	5.B	K2	CO2	UNIT - 1	1.2	PART B

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HCCNGL ERP

Navigation menu (left): CIA, Student, External Foil, Attendance, NME/SLC, Fee, OBE

Filters: Academic Year: 2023, Setting: ODD Semester - 2023, Course: MAJOR CORE VII: ECOLOGY AND TOXICOLOGY, QuestionLevel: PART C

Buttons: Get, + Add

Show: 10 entries

#	Course	OBE Question	OBE Unit	OBE SubUnit	OBE K-Level	Action
1	ZC2053- MAJOR CORE VII: ECOLOGY AND TOXICOLOGY	1 a. Classify the main categories of toxicants. (CO -2; U)	UNIT - 1	1.1	K2	
2	ZC2053- MAJOR CORE VII: ECOLOGY AND TOXICOLOGY	1.b. Explain how different factors influence the toxicity of a substance	UNIT - 1	1.1	K2	
3	ZC2053- MAJOR CORE VII: ECOLOGY AND TOXICOLOGY	1. a. Discuss mutualism and commensalism as an interspecific relationship.	UNIT - 1	1.3	K2	
4	ZC2053- MAJOR CORE VII: ECOLOGY AND TOXICOLOGY	2. b. Explain the deep sea adaptations of animals.	UNIT - 1	1.1	K2	
5	ZC2053- MAJOR CORE VII: ECOLOGY AND TOXICOLOGY	3 a. Appraise the role of temperature on living organisms and the measures taken to survive in extreme temperatures.	UNIT - 4	1.2	K5	

Taskbar: 11:57 08-08-2024

OBE mark entry portal

The marks are entered for the continuous internal assessment and end semester examination in the mark entry portal.

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HCCNGL ERP

Navigation menu (left): Attendance, NME/SLC, Fee, OBE

Section: OBE Mark Entry

Filters: Academic Year: 2023, Setting: ODD Semester - 2023, Class List: II - MSc CHEMISTRY, Course List: CORE VIII: THERMODYNAMICS AN..., Component: ASSIGNMENT

Buttons: Get, CIA Push

Reg.No	Roll No	S.Name	Internal 1	Internal 2	Assignment	Quiz 1	Seminar	Absent	1 / 20	Total
K / CO Level fixing										
2022SPG140	2022SPG140	ABITHA M						<input type="checkbox"/>	20	20
2022SPG141	2022SPG141	ANTONY RASHMIN M						<input type="checkbox"/>	20	20
2022SPG142	2022SPG142	ANUSHA M						<input type="checkbox"/>	20	20
2022SPG143	2022SPG143	ASHWINI S						<input type="checkbox"/>	20	20
2022SPG144	2022SPG144	BABITHA S						<input type="checkbox"/>	20	20
2022SPG145	2022SPG145	BLESSY J S						<input type="checkbox"/>	20	20
2022SPG146	2022SPG146	FARHANA M						<input type="checkbox"/>	20	20

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HCCNGL ERP

Timetable | CIA | Student | External Foil | Staff | Attendance | NME/SLC | Fee | OBE

OBE Mark Entry

Home Examination OBE Mark Entry

Academic Year: 2023 Setting: ODD Semester - 2023 Class List: II - M.SC CHEMISTRY

Course List: CORE VIII: THERMODYNAMICS AN Component: INTERNAL 1

Get CIA Push

Reg.No	Roll No	S.Name	Absent	1 / 1	2 / 1	3 / 1	4 / 1	5 .A / 4	5 .B / 4	6 .A / 4	6 .B / 4
K / CO Level fixing				K2	K2	K2	K2	K3	K3	K4	K4
				CO1	CO1	CO1	CO1	CO2	CO2	CO3	CO3
2022SPG140	2022SPG140	ABITHA M	<input type="checkbox"/>	1	2	3	4	5 .A	5 .B	6 .A	6 .B
				1	1	1	1	2			3.5
2022SPG141	2022SPG141	ANTONY RASHMIN M	<input type="checkbox"/>	1	2	3	4	5 .A	5 .B	6 .A	6 .B
				1	1	1	1	3			4
2022SPG142	2022SPG142	ANUSHA M	<input type="checkbox"/>	1	2	3	4	5 .A	5 .B	6 .A	6 .B
				1	0	1	1	2			4
2022SPG143	2022SPG143	ASHWINI S	<input type="checkbox"/>	1	2	3	4	5 .A	5 .B	6 .A	6 .B
				1	1	0	1	2			4
2022SPG144	2022SPG144	BABITHA S	<input type="checkbox"/>	1	2	3	4	5 .A	5 .B	6 .A	6 .B
				1	1	1	1	2		4	

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HCCNGL ERP

Timetable | CIA | Student | External Foil | Staff | Attendance | NME/SLC | Fee | OBE

1.OBE Question Entry
2.OBE QPaper
3.OBE Mark Entry
4.OBE CO PO Matrix
5.OBE CO PSO Matrix
6.OBE CO PO calculation
7.OBE Indirect Attainment
8.OBE CO Attainment Gap
9.OBE Survey PO Attainment
10.Consolidated CO Attainment Report
11.Consolidated PO & PSO Attainment Report

K4	K4	K4	K4	K3	K3	K5	K5	K3	K3	
CO3	CO3	CO3	CO3	CO2	CO2	CO4	CO4	CO2	CO2	
6 .A	6 .B	7 .A	7 .B	8 .A	8 .B	9 .A	9 .B	10 .A	10 .B	32.5
	3.5		3	7			6	7		
6 .A	6 .B	7 .A	7 .B	8 .A	8 .B	9 .A	9 .B	10 .A	10 .B	37
	4		3.5		8		7.5	7		
6 .A	6 .B	7 .A	7 .B	8 .A	8 .B	9 .A	9 .B	10 .A	10 .B	35
	4		3.5		8		7.5	7		
6 .A	6 .B	7 .A	7 .B	8 .A	8 .B	9 .A	9 .B	10 .A	10 .B	34.5
	4		3	8			7.5		7	
6 .A	6 .B	7 .A	7 .B	8 .A	8 .B	9 .A	9 .B	10 .A	10 .B	36
4		3.5			8		7.5	7		
6 .A	6 .B	7 .A	7 .B	8 .A	8 .B	9 .A	9 .B	10 .A	10 .B	34
	4		4		8		5	7		
6 .A	6 .B	7 .A	7 .B	8 .A	8 .B	9 .A	9 .B	10 .A	10 .B	35.5
4		3			8		7.5	7		
6 .A	6 .B	7 .A	7 .B	8 .A	8 .B	9 .A	9 .B	10 .A	10 .B	36

Submit

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OBE Mark Entry | Home | Examination | OBE Mark Entry

Academic Year: 2023 | Setting: ODD Semester - 2023 | Class List: II - M.SC CHEMISTRY

Course List: CORE VIII: THERMODYNAMICS AN | Component: SEMINAR | Get | CIA Push

Reg.No	Roll No	S.Name	Absent	1 / 20	Total
K / CO Level fixing					
2022SPG140	2022SPG140	ABITHA M	<input type="checkbox"/>	17	17
2022SPG141	2022SPG141	ANTONY RASHMIN M	<input type="checkbox"/>	18	18
2022SPG142	2022SPG142	ANUSHA M	<input type="checkbox"/>	20	20
2022SPG143	2022SPG143	ASHWINI S	<input type="checkbox"/>	20	20
2022SPG144	2022SPG144	BABITHA S	<input type="checkbox"/>	20	20
2022SPG145	2022SPG145	BLESSY J S	<input type="checkbox"/>	20	20
2022SPG146	2022SPG146	FARHANA M	<input type="checkbox"/>	19	19

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HCCNGL ERP | Lizzy Roselet: S

OBE Mark Entry | Home | Examination | OBE Mark Entry

Academic Year: 2023 | Setting: ODD Semester - 2023 | Class List: II - M.SC CHEMISTRY

Course List: CORE VIII: THERMODYNAMICS AN | Component: ASSIGNMENT | Get | CIA Push

Reg.No	Roll No	S.Name	Absent	1 / 20	Total
K / CO Level fixing					
2022SPG140	2022SPG140	ABITHA M	<input type="checkbox"/>	20	20
2022SPG141	2022SPG141	ANTONY RASHMIN M	<input type="checkbox"/>	20	20
2022SPG142	2022SPG142	ANUSHA M	<input type="checkbox"/>	20	20
2022SPG143	2022SPG143	ASHWINI S	<input type="checkbox"/>	20	20
2022SPG144	2022SPG144	BABITHA S	<input type="checkbox"/>	20	20
2022SPG145	2022SPG145	BLESSY J S	<input type="checkbox"/>	20	20
2022SPG146	2022SPG146	FARHANA M	<input type="checkbox"/>	20	20

16:14 16-08-2024

The screenshot displays the 'OBE CO-PSO Matrix' interface. At the top, there are filters for 'Academic Year' (2023), 'Setting' (ODD Semester - 2023), and 'Class List' (II - M.SC CHEMISTRY). Below these, a 'Course List' dropdown is open, showing several options. The main area is a table with columns for CO# and PSO1 through PSO8. The table is currently empty, with a 'Submit' button at the bottom left.

#	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8
CO1	3			3	3	0	0	0
CO2	3			2	2	0	0	0
CO3	3	3	2	3	3	0	0	0
CO4	3	3	3	2	2	0	0	0
CO5	0	0	0	0	0	0	0	0
CO6	0	0	0	0	0	0	0	0
CO7	0	0	0	0	0	0	0	0

EVALUATION OF ATTAINMENT OF OUTCOMES –Direct and Indirect

COs attainment: Attainment of course outcomes for each course is calculated through different components included in Continuous Internal Assessments and End Semester Examination. Course Attainment of COs can be measured **directly** and **indirectly**. Direct attainment of COs can be determined from the performances of learners in all the relevant academic assessment tools. However, indirect attainment of COs can be determined from exit surveys and stakeholder surveys. It is expected that the exit survey form should permit receiving feedback from students on individual COs.

Bench marks and Criteria for the attainment of COs:

To meet the expected level of attainment a student must score more than 50% of the marks to assess the attainment of COs. The threshold limit can be fixed based on the level of students.

Attainment level 1: If at least 50% of the students met the expected level of attainment.

Attainment level 2: If at least 60% of the students met the expected level of attainment.

Attainment level 3: If at least 70% of the students met the expected level of attainment

OBE CO Calculation –Direct attainment

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OBE CO Calculation

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OBE CO Calculation

AcYear: 2023 examSetting: EVEN Semester April -2024-2023 Class: III - B.SC ZOOLOGY

Course: MAJOR CORE X: ORGANIC EVOLUTION COLevel: CO2

#	RollNo	Reg.No	Stu.Name	INTERNAL 1	INTERNAL 2	ASSIGNMENT	QUIZ 1	QUIZ 2	EXTERNAL	CLASS TEST	COMax.	COsec.	COPercent	IntCOPercent	ExtCOPercent	COValue	IntCOValue	ExtCOValue
1	2021AUZ092	2021AUZ092	VININARASI A	17.5	10	0	12	8	20	22	161	89.5	55.59	52.26	71.43	3	3	3
2	2021AUZ133	2021AUZ133	AADHARSHA G K	3	4	0	13	10	30	21	148	81	54.73	47.22	75	3	2	3
3	2021AUZ134	2021AUZ134	ABI ESTHER R	6	10.5	0	15	15	34	15	148	95.5	64.53	56.94	85	3	3	3
4	2021AUZ135	2021AUZ135	ABINAYA SREES	5.5	5	0	9	8	22	5	148	54.5	36.82	30.09	55	1	1	3
5	2021AUZ136	2021AUZ136	ABISHA I	5	5	0	14	11	23	18	144	76	52.78	49.07	63.89	3	2	3
6	2021AUZ138	2021AUZ138	ANTO MONISHAS	11.5	13	0	15	12	33	29	148	113.5	76.69	74.54	82.5	3	3	3
7	2021AUZ139	2021AUZ139	ANU FLOWERCYA	6	11	0	12	13	28	26	140	96	68.57	68	70	3	3	3
8	2021AUZ140	2021AUZ140	ANUSHA K	5.5	1.5	0	11	9	14	12	148	53	35.81	36.11	35	1	1	1
9	2021AUZ141	2021AUZ141	DRENU F	6.5	8.5	0	14	10	16	12	144	67	46.53	47.22	44.44	2	2	2
10	2021AUZ142	2021AUZ142	DHARSHINI N	4.5	12.5	0	11	12	27	25	148	92	62.16	60.19	67.5	3	3	3
11	2021AUZ144	2021AUZ144	KARUNYA R	6.5	7.5	0	13	12	29	26	148	94	63.51	60.19	72.5	3	3	3
12	2021AUZ145	2021AUZ145	KEVISH MITHYALJ	2.5	1.5	0	12	8	15	8	148	47	31.76	29.63	37.5	1	0	1
13	2021AUZ146	2021AUZ146	MATHUA M	10.5	12	0	14	12	26	28	148	102.5	69.26	70.83	65	3	3	3
14	2021AUZ147	2021AUZ147	NISOUN RAJEE I	5.5	11.5	0	13	10	30	28	148	98	66.22	62.96	75	3	3	3
15	2021AUZ150	2021AUZ150	REMI THASNI S	4	7.5	0	7	9	17	19	144	63.5	44.1	43.06	47.22	2	2	2
16	2021AUZ151	2021AUZ151	SARANYA K	12	13	0	16	12	35	26	148	114	77.03	73.15	87.5	3	3	3
17	2021AUZ152	2021AUZ152	SELVA LEKSHMI S	12	12	0	14	10	35	29	148	112	75.68	71.3	87.5	3	3	3
18	2021AUZ153	2021AUZ153	SHAFNA SHERIN M	3	1	0	12	8	12	10	148	46	31.08	31.48	30	1	1	0
19	2021AUZ154	2021AUZ154	UBASANA J	12	11.5	0	15	12	34	27	148	111.5	75.34	71.76	85	3	3	3
20	2021AUZ155	2021AUZ155	VARSHINI J	0	7.5	0	0	12	16	10	148	45.5	30.74	27.31	40	1	0	1
21	2021AUZ407	2021AUZ407	AKISHA MOL S	9	6.5	0	10	12	33	22	148	92.5	62.5	55.09	82.5	3	3	3
22	2021AUZ408	2021AUZ408	SOWMIYA T	1	2.5	0	13	11	31	24	148	82.5	55.74	47.69	77.5	3	2	3
23	2021AUZ443	2021AUZ443	ABISHA R	1	6	0	12	11	20	20	148	70	47.3	46.3	50	2	2	2
24	2021AUZ449	2021AUZ449	BERCLIN S	0	12	0	16	9	27	18	148	82	55.41	50.93	67.5	3	3	3
25	2021AUZ450	2021AUZ450	PRADISHA S	0	8.5	0	11	11	19	18	136	67.5	49.63	44.91	67.86	2	2	3
26	2021AUZ451	2021AUZ451	SAHAYA MINI A	11.5	12	0	16	15	33	28	148	115.5	78.04	76.39	82.5	3	3	3
Internal CO Avg							<input type="text" value="2.27"/>											
External CO Avg							<input type="text" value="2.54"/>											
Total CO Avg							<input type="text" value="2.46"/>											

10:51 19-08-2024

OBE-CO Indirect Attainment

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1.OBE Question Entry
 2.OBE QPaper Generate Pattern Entry
 3.OBE Mark Entry
 4.OBE CO PO Matrix
 5.OBE CO PSO Matrix
 6.OBE CO PO calculation
 7.OBE Indirect Attainment
 8.OBE CO Attainment Gap
 9.OBE Survey PO Attainment
 10.Consolidated CO Attainment Report
 11.Consolidated PO & PSO Attainment Report
 12.Over All CO Attainment Report
 13.Over All PO Attainment

Home Examination OBE CO Indirect Attainment

OBE CO Indirect Attainment

Academic Year: 2023 Setting: ODD Semester - 2023 Class List: II - M.SC CHEMISTRY

Course List: CORE VIII: THERMODYNAMICS AN Component: INDIRECT ATT Get

Course Outcomes	Number of Student Response Rating					Total Response	Attainment %	Attainment Grade
	100	75	50	25	0			
CO1	13	14	0	0	0	27	87.04	2.61
CO2	12	15	0	0	0	27	86.11	2.58
CO3	13	1	13	0	0	27	75.00	2.25
CO4	12	14	1	0	0	27	85.19	2.56
CO5								
CO6								
CO7								

Submit

15:42
16-08-2024

OBE-CO Attainment gap

The target for each CO will be used to see if the specific CO has been attained or not, or in other words, to identify if any gap remains in the attainment of CO.

When there are no attainment gaps, or attainment gaps or are negative, it is expected that the CO target should be enhanced the next time the course is offered.

Attainment values of respective COs were mapped against their correlated POs and PSOs. Average values for each PO/PSO were considered as final attainment for the respective course.

The screenshot shows the HCCNGL ERP interface for the 'CO Attainment Gap' report. The report is for the Academic Year 2023, ODD Semester - 2023, and Class List II - M.SC CHEMISTRY. The Course List is CORE VIII: THERMODYNAM. The table displays attainment data for five COs (CO1 to CO5).

Course Outcomes	Target	Direct Attainment	Indirect Attainment	Total CO Attainment	Gap
CO1	2	1.8	2.61	1.962	0.04
CO2	2	2.4	2.58	2.436	-0.44
CO3	2	3	2.25	2.85	-0.85
CO4	2	2.4	2.56	2.432	-0.43
CO5	0	0	1	0.2	-0.20

OBE-PO indirect attainment

Indirect attainment was calculated based on Graduate Exit Survey for PO attainment.

The screenshot shows the HCCNGL ERP interface for OBE PO Indirect Attainment. The user is logged in as Lizy Roselet. The report is for the Academic Year 2023, ODD Semest, and Class List II - M.SC CHE. The table displays the number of student response ratings for five POs (PO1 to PO5) across five rating categories (100, 75, 50, 25, 0), along with the total response, attainment percentage, and attainment grade for each PO.

Course Outcomes	Number of Student Response Rating					Total Response	Attainment %	Attainment Grade
	100	75	50	25	0			
PO1	8	3	15	1		27	66.67	2.00
PO2	9	6	11		1	27	70.37	2.11
PO3	9	3	12	2	1	27	65.74	1.97
PO4	8	6	12	1		27	69.44	2.08
PO5	9	5	11	1	1	27	68.52	2.06

Consolidated CO Attainment Report

- **Direct attainment:** Obtained by taking averages of all CO attainment for all courses for all semesters.
- **Indirect attainment:** Obtained from attainment values of COs of Course exit survey. Final attainments were calculated by considering 80% of direct assessment & 20% of the indirect assessment.



HOLY CROSS COLLEGE (AUTONOMOUS)

NAGERCOIL - 629 004 .

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli - 627 012).

Accredited with 'A+' Grade (CGPA 3.35) by NAAC

CONSOLIDATED CO ATTAINMENT REPORT

Semester	Course Code	Course Title	CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO.Avg
I	PG2011	Core I: Structure and Bonding	1.6	1.6	1.6	2.2	-	-	-	1.75
	PG2012	Core II: Reaction Mechanism and Stereochemistry	1.6	1.6	1.6	1.6	-	-	-	1.60
	PG2013	Core III: Chemical Kinetics and Electrochemistry	2.2	1.6	2.2	2.2	-	-	-	2.05
	PG2014	Elective I: Analytical Chemistry	1.6	1.6	2.2	1.6	-	-	-	1.75
II	PG2021	Core IV: Coordination Chemistry	1.6	1.6	1.6	2.2	-	-	-	1.75
	PG2022	Core V: Reaction Mechanism and Molecular Rearrangements	1	1.6	1.6	2.2	1.6	-	-	1.60
	PG2023	Core VI: Quantum Chemistry and Spectroscopy	1.6	1.6	2.2	2.2	2.2	-	-	1.96
	PG2024	Elective II: Research Methodology	1	1.6	1.6	1.6	-	-	-	1.45
III	PG2031	Core VII: Organic Spectroscopy	2.6	2.4	3	2.4	1.4	-	-	2.36
	PG2032	Core VIII: Thermodynamics and Group Theory	1.8	2.4	3	2.4	-	-	-	2.40
	PG2033	Elective III: Advanced Topics in Chemistry	2.4	3	3	3	2.2	-	-	2.72
IV	PG2041	Core IX: Inorganic Spectroscopy, Photochemistry and Organometallics	3	3	3	2.2	-	-	-	2.80
	PG2042	Core X: Photochemistry and Natural Products	2.4	3	3	2.4	2.2	-	-	2.60
	PG2043	Core XI: Polymer Chemistry	3	3	2.4	2.2	-	-	-	2.65
	PG2044	Elective IV: Energy for future	2.4	3	3	3	-	-	-	2.85
Over All Avg			1.99	2.17	2.33	2.23	1.92	-	-	2.13

Consolidated PO – PSO Attainment Report

• **Direct attainment:** Obtained by taking averages of all CO-PO and CO-PSO attainment matrices defined for all courses for all semesters.

• **Indirect attainment:** Obtained from attainment values of COs of Course exit survey. Final attainments were calculated by considering 80% of direct assessment & 20% of the indirect assessment.



HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL - 629 004 .
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CONSOLIDATED PO & PSO ATTAINMENT REPORT

Semester	Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO.Avg	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO.Avg
I	PG2011	Core I: Structure and Bonding	1.75	1.80	1.78	1.75	-	-	-	-	1.77	1.72	1.75	1.76	1.75	1.75	-	-	-	1.75
	PG2012	Core II: Reaction Mechanism and Stereochemistry	1.60	1.60	1.60	1.60	1.60	-	-	-	1.60	1.60	1.60	1.60	1.60	1.60	-	-	-	1.60
	PG2013	Core III: Chemical Kinetics and Electrochemistry	2.04	2.09	2.05	2.02	-	-	-	-	2.05	2.05	2.05	2.02	2.08	2.04	-	-	-	2.05
	PG2014	Elective I: Analytical Chemistry	1.75	1.71	1.78	1.76	-	-	-	-	1.75	1.40	1.49	1.39	1.34	1.49	-	-	-	1.42
II	PG2021	Core IV: Coordination Chemistry	1.43	1.40	1.49	1.40	-	-	-	-	1.43	1.42	1.35	1.45	1.37	1.27	-	-	-	1.37
	PG2022	Core V: Reaction Mechanism and Molecular Rearrangements	1.56	1.60	1.64	1.60	-	-	-	-	1.60	1.56	1.60	1.60	1.60	1.60	-	-	-	1.59
	PG2023	Core VI: Quantum Chemistry and Spectroscopy	1.84	1.96	1.87	1.90	-	-	-	-	1.89	1.90	1.93	1.87	1.90	1.90	-	-	-	1.90
	PG2024	Elective II: Research Methodology	1.16	1.26	1.13	1.13	-	-	-	-	1.17	1.16	1.13	1.13	1.13	1.16	-	-	-	1.14
III	PG2031	Core VII: Organic Spectroscopy	2.36	2.31	2.42	2.36	-	-	-	-	2.36	2.31	2.36	2.34	2.36	2.43	-	-	-	2.36
	PG2032	Core VIII: Thermodynamics and Group Theory	2.40	2.40	2.35	2.34	-	-	-	-	2.37	2.40	2.40	2.35	2.40	2.40	-	-	-	2.39
	PG2033	Elective III: Advanced Topics in Chemistry	2.72	2.70	2.72	2.70	-	-	-	-	2.71	2.72	2.74	2.74	2.70	2.76	-	-	-	2.73
IV	PG2041	Core IX: Inorganic Spectroscopy, Photochemistry and Organometallics	2.78	2.80	2.80	2.78	-	-	-	-	2.79	2.80	2.84	2.80	2.80	2.80	-	-	-	2.81
	PG2042	Core X: Photochemistry and Natural Products	2.70	2.73	2.73	2.70	-	-	-	-	2.71	2.67	2.70	2.70	2.73	2.70	-	-	-	2.70
	PG2043	Core XI: Polymer Chemistry	2.65	2.62	2.65	2.72	2.69	-	-	-	2.67	2.62	2.69	2.62	2.45	2.64	-	-	-	2.60
	PG2044	Elective IV: Energy for future	2.84	2.84	2.85	2.84	2.89	-	-	-	2.85	2.84	2.84	2.89	2.84	2.88	-	-	-	2.86
Overall PO/PSO Avg			2.11	2.12	2.12	2.11	1.77	-	-	-	2.05	2.08	2.10	2.08	2.07	2.09	-	-	-	2.08

Overall CO Attainment Report

The overall attainment is calculated based on the direct and indirect attainment of course outcomes.



HOLY CROSS COLLEGE (AUTONOMOUS)

NAGERCOIL - 629 004 .

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Tirunelveli - 627 012).

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OVERALL CONSOLIDATED CO ATTAINMENT REPORT

Semester	Course Code	Course Title	CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO.Avg
I	PG2011	Core I: Structure and Bonding	1.8	1.7	1.7	2.3	0.2	-	-	1.54
	PG2012	Core II: Reaction Mechanism and Stereochemistry	1.8	1.8	1.8	1.8	0.2	-	-	1.48
	PG2013	Core III: Chemical Kinetics and Electrochemistry	2.3	1.8	2.3	2.3	0.2	-	-	1.78
	PG2014	Elective I: Analytical Chemistry	1.8	1.8	2.3	1.8	0.2	-	-	1.58
II	PG2021	Core IV: Coordination Chemistry	1.8	1.7	1.8	2.3	0.2	-	-	1.56
	PG2022	Core V: Reaction Mechanism and Molecular Rearrangements	1.3	1.8	1.9	2.3	1.9	-	-	1.84
	PG2023	Core VI: Quantum Chemistry and Spectroscopy	1.8	1.8	2.2	2.3	2	-	-	2.02
	PG2024	Elective II: Research Methodology	1.3	1.8	1.8	1.8	0.5	-	-	1.44
III	PG2031	Core VII: Organic Spectroscopy	2.6	2.4	2.9	2.4	1.6	-	-	2.38
	PG2032	Core VIII: Thermodynamics and Group Theory	2	2.4	2.8	2.4	0.2	-	-	1.96
	PG2033	Elective III: Advanced Topics in Chemistry	2.4	2.9	2.9	2.9	2.2	-	-	2.66
IV	PG2041	Core IX: Inorganic Spectroscopy, Photochemistry and Organometallics	2.9	2.9	2.9	2.3	0.5	-	-	2.30
	PG2042	Core X: Photochemistry and Natural Products	2.4	2.9	2.9	2.4	2	-	-	2.52
	PG2043	Core XI: Polymer Chemistry	2.9	2.9	2.4	2.3	0.2	-	-	2.14
	PG2044	Elective IV: Energy for future	2.5	2.9	2.9	2.9	0.5	-	-	2.34
Over All Avg			2.11	2.23	2.37	2.30	0.84	-	-	1.97

Overall PO Attainment Report

The overall attainment is calculated based on the direct and indirect attainment of program outcomes.

Overall PO Attainment Report

Batch: 2022 Application Type: PG Programme: M.Sc. CHEMISTRY (Self F.)

HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL - 620 004
(Affiliated to Marianamma Sundaravar University, Thiruvananthapuram - 07-05)
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Direct and Indirect PO ATTAINMENT

PO	Direct Attainment	Indirect Attainment	Total PO Attainment
PO1	2.11	2.00	2.08
PO2	2.12	2.14	2.12
PO3	2.12	2.00	2.10
PO4	2.11	2.08	2.10
PO5	1.77	2.08	1.83
PO6	-	-	-
PO7	-	-	-
PO8	-	-	-

Conclusion

Outcome Based Assessment process has enabled the institution to identify areas for improvement, address curricular gaps, and bridge the same to enhance the overall quality of education provided to the students.

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