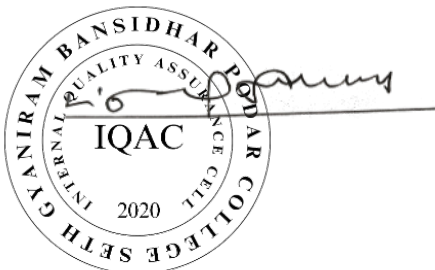




Seth Gyaniram Bansidhar Podar College, Nawalgarh

Methodology with Examples used to Calculate the Attainment Levels for CO, PO and PSO

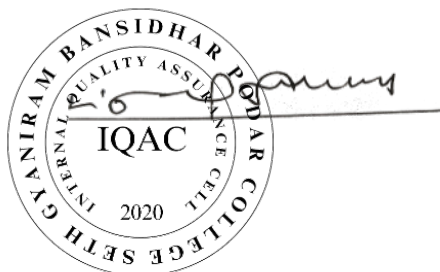


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INDEX

S.No.	Name
1	Introduction
2	Course Outcomes (COs)
3	Program Outcomes (POs)
4	Program Specific Outcomes (PSOs)
5	Program Educational Objectives (PEOs)
6	Assessment Methods
7	Attainment Levels
8	Data Analysis and Improvement
9	Conclusion
10	Appendices



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Introduction

Seth Gyaniram Bansidhar Podar College (Seth G.B. Podar College) is dedicated to providing its students with a superior education that prepares them to thrive in their chosen fields. Outcome-Based Education (OBE) serves as the bedrock of our educational philosophy. This manual outlines the comprehensive OBE framework implemented at Seth G.B. Podar College, ensuring a well-defined and measurable learning experience for our students.

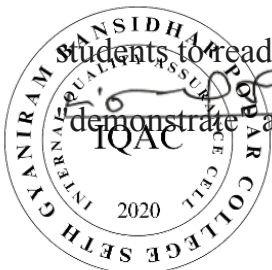
OBE emphasizes student learning outcomes, placing significance on the knowledge, skills, and attitudes students acquire throughout their academic journey. It underscores aligning these outcomes with the broader objectives of the program and the long-term aspirations for graduates. This manual delves into the core components of OBE at Seth G.B. Podar College, including Course Outcomes (COs), Program Outcomes (POs), Program Specific Outcomes (PSOs), and Program Educational Objectives (PEOs).

Course Outcomes (COs)

Course Outcomes (COs) represent the specific knowledge, skills, and abilities students are expected to gain upon completing a particular course. They are measurable statements that clearly articulate the desired learning outcomes. Seth G.B. Podar College emphasizes the following key aspects of COs:

- **Alignment:** COs are meticulously aligned with the relevant POs, PSOs, and PEOs. This ensures that all courses contribute to the broader educational goals of the program.

- **Measurability:** Each CO is expressed in measurable terms, allowing faculty and students to readily assess achievement. Verbs like "analyze," "design," "evaluate," or "demonstrate" are often used to describe the expected behavior of students.



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Specificity: COs are specific and focused, avoiding ambiguity. They clearly articulate the level of knowledge or skill students should possess by the course's end.

Developing COs requires a collaborative effort between faculty members within a program. The following steps guide the creation of effective COs:

1. **Review POs, PSOs, and PEOs:** Faculty begin by thoroughly reviewing the program's POs, PSOs, and PEOs to understand the broader learning objectives.
2. **Identify Key Course Concepts:** Faculty then identify the key concepts and skills they intend to impart in the course.
3. **Define Learning Objectives:** Based on the key concepts and skills, faculty define specific learning objectives that detail what students should be able to do by the end of the course.
4. **Formulate COs:** Finally, the learning objectives are transformed into measurable COs.

Examples of COs:

BSC I C2 Chemistry - II (Organic)

CO1. Explain mechanisms of organic reactions (bond cleavage, reagents, intermediates).

CO2. Identify and differentiate various types of isomerism.

CO3. Apply stereochemistry principles to chiral molecules (optical activity, diastereoisomers & resolution).

CO4. Analyze and interpret organic reaction mechanisms using various methods.

CO5. Understand fundamental Concepts preparation and reactions of cycloalkanes, dienes, and alkynes.

Program Outcomes (POs)

Program Outcomes (POs) represent the broad knowledge, skills, and abilities expected

of graduates upon completing their program at Seth G.B. Podar College. POs are

common across a specific program and independent of the student.



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reflect the overall educational goals of the program and align with the institution's PEOs.

Developing Program Outcomes:

The development of POs involves a comprehensive process that considers various stakeholders.

- **Industry Needs:** Faculty consult with industry experts and professionals to identify the essential skills and knowledge required for graduates to succeed in their chosen careers.
- **Professional Accreditation:** If a program seeks accreditation from a professional body, its POs must adhere to the accreditation criteria.
- **Graduate Employability:** POs are designed to ensure graduates are well-equipped for the job market and possess the necessary skills to contribute meaningfully to their fields.

Examples of POs:

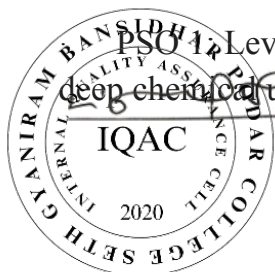
- PO 1: Fundamental chemical knowledge (atomic structure, bonding, thermodynamics, kinetics, spectroscopy, nuclear chemistry).
- PO 2: Organic chemistry skills (reaction mechanisms, isomerism, stereochemistry, aromatic chemistry).
- PO 3: Physical chemistry understanding (thermodynamics, kinetics, electrochemistry, colloids, crystallography).

Program Specific Outcomes (PSOs)

PSOs are formulated to ensure graduates possess a distinct edge in their chosen field compared to graduates from generic programs.

Examples of PSOs:

PSO 1: Leverage chemical knowledge for innovation: Graduates will apply their deep chemical understanding and practical skills to develop innovative solutions



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across diverse fields, including materials science, pharmaceuticals, environmental science, and energy technology.

- **PSO 2: Translate science into practice:** Graduates will be proficient in translating scientific knowledge into tangible applications, working effectively in interdisciplinary teams, and communicating complex scientific concepts to various audiences, both technical and non-technical.

- **PSO 3: Ethical and sustainable impact:** Graduates will demonstrate a strong commitment to applying their knowledge for the betterment of society, incorporating ethical considerations, environmental awareness, and sustainable practices into their work.

- **Program Educational Objectives (PEOs)**

Program Educational Objectives (PEOs) represent the long-term aspirations for graduates of a program at Seth G.B. Podar College. PEOs describe the desired qualities, knowledge, and skills graduates will possess several years after completing their program. They reflect the college's broader vision for its graduates and their contributions to society.

Developing Program Educational Objectives:

The formulation of PEOs is a strategic process involving various stakeholders:

- **Faculty:** Faculty members provide the academic foundation for PEOs, ensuring alignment with program curriculum and learning outcomes.

- **Alumni:** Alumni feedback is crucial in understanding how well graduates are performing in their careers and how the program prepared them.

- **Employers:** Input from potential employers helps tailor PEOs to meet the evolving needs of the job market.

Examples of PEOs:

PEO 1: Graduates will be successful engineers who can apply their technical expertise to solve real-world problems ethically and creatively.



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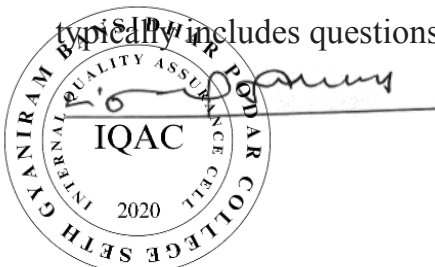
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- PEO 2: Graduates will be effective communicators, critical thinkers, and lifelong learners who can contribute meaningfully to a globalized society. (All Programs)
- PEO 3: Graduates will demonstrate a strong sense of social responsibility and ethical conduct, becoming leaders who contribute positively to their communities. (All Programs)

Assessment Methods

Seth G.B. Podar College utilizes a combination of direct and indirect assessment methods to measure student attainment of COs, POs, PSOs, and PEOs. This multi-pronged approach provides a comprehensive picture of student learning and program effectiveness.

- **Direct Assessment (80% weightage):**
 - o **Internal Assessments :**
 - § The college conducts four internal assessments throughout the session
 - § These assessments can include various formats like:
 - § First Term Test (3 questions: 2 x 3 marks, 1 x 4 marks)
 - § Second Term Test (similar format)
 - § Third Term Test (similar format)
 - § Assignments, quizzes, projects, presentations, or practical examinations (depending on the course)
 - o **Pre-University Exam:**
 - § The pre-university exam serves as a comprehensive assessment at the end of the session.
 - § The format of the pre-university exam may vary depending on the course but typically includes questions designed to assess the achievement of COs.



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o **Threshold for all Assessments:** A minimum of 50% marks is considered the threshold for satisfactory performance in each assessment component.

· **Indirect Assessment (20% weightage):**

o **Course/Program End Survey (20% weightage):**

§ Indirect assessment focuses on gauging the effectiveness of the program in nurturing broader skills and attitudes aligned with POs, PSOs, and PEOs.

§ Seth G.B. Podar College conducts course/program end surveys to gather student feedback on various aspects like:

§ The program's relevance to industry needs

§ The effectiveness of teaching methods in achieving COs

§ The development of critical thinking, problem-solving, and communication skills

§ The alignment of the program with the stated PEOs

Attainment Levels

To evaluate student performance and program effectiveness, Seth G.B. Podar College employs a three-tiered attainment level system:

· **Level 1 (50% - 60%): Meets Minimum Requirements**

o Students in this level demonstrate a basic understanding of the course content and achieve the minimum passing grade.

· **Level 2 (61% - 74%): Exceeds Minimum Requirements**

o Students in this level exhibit a good grasp of the course content, demonstrating critical thinking and problem-solving skills beyond the minimum requirements.

· **Level 3 (75% and Above): Achieves Distinction**

o Students in this level display a thorough understanding of the course material and the ability to apply knowledge creatively and independently. They are considered high



Calculation Of PO and PSO Attainment

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Direct Assessment:

The attainment of each PO and PSO is calculated based on the weighted average of the

attainment of the COs that contribute to it. The specific COs mapped to each PO and PSO are

documented in a Course Outcome Mapping Table (refer to Appendix A).

The formula for calculating PO and PSO attainment through direct assessment:

$$\text{PO/PSO Attainment (\%)} = (\Sigma (\text{CO Attainment} \times \text{CO Weightage})) / \text{Total Weightage}$$

Data Analysis and Improvement

Seth G.B. Podar College faculty actively engages in data analysis and continuous improvement processes based on the assessment results.

Assessment Data Analysis:

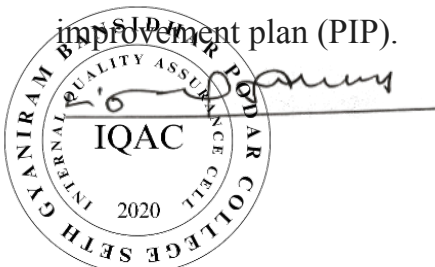
- o Faculty analyzes the assessment data (direct and indirect) for each course to identify areas where students are excelling and areas requiring improvement.
- o This analysis helps gauge the effectiveness of COs and teaching methods.

Curriculum Revision:

- o Based on the analysis, faculty may recommend revisions to the course curriculum, COs, or teaching methods to enhance student learning outcomes.
- o Program-level committees review these recommendations and propose changes to the program structure or learning objectives if necessary.

Program Improvement Plan:

- o The insights gleaned from assessment data are used to formulate a program improvement plan (PIP).



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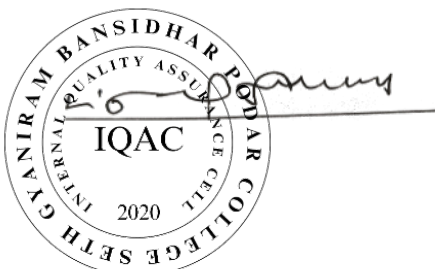
- o The PIP outlines specific actions and strategies for continuous improvement in the program's curriculum, delivery methods, and assessment practices.

Conclusion

Seth G.B. Podar College's Outcome-Based Education framework ensures a quality learning experience for students. By aligning COs, POs, PSOs, and PEOs, the college fosters the development of well-rounded graduates who are prepared to excel in their chosen fields. The emphasis on continuous assessment and data-driven improvement further strengthens the program's effectiveness in achieving its educational goals. This manual serves as a comprehensive guide for faculty members in implementing OBE principles and ensuring a transformative learning experience for Seth G.B. Podar College students.

Appendices

- 1. Sample of Result Analysis of Internal Assessment for the calculation of Attainment level**
- 2. Sample sheet of Attainment levels for CO, PO & PSO for UG**
- 3. Sample sheet of Attainment levels for CO, PO & PSO for UG**



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Seth Gyaniram Bansidhar Podar College, Nawalgarh

Analysis of Internal Assessment B.Sc.Chemistry 2022-23

Program Name :- B.Sc.Chemistry																
CourseName:- B.Sc. I Inorganic Chemistry																
S.No.	Name of Student	Questions	First Term Test			Second Term Test			Third Term Test			Pre- University Exam				
			1	2	3	1	2	3	1	2	3	1	2	3	4	5
		Blooms Taxonomy Level	L2	L2	L3	L3	L4	L4	L3	L4	L4	L2	L4	L5	L3	L5
		CO	CO 1	CO2	CO2	CO3	CO3	CO4	CO1	CO3	CO5	CO1	CO2	CO3	CO4	CO5
		Max Marks	3	3	4	3	3	4	3	3	4	20	20	20	20	20
		50%Marks														
1	Ajay Aalaharia		2.5	1.5	1	1	1	1	1.5	2	2	10	15	9	15	15
2	Akash Saini		2.5	2	3	2	3	2	3	2	3	17	15	17	16	18
3	Amit Bhaskar		2	2	3	1	3	1	2	3	3	16	18	9	16	18
4	Anisha Jangir		2.5	1	1	2	1	2	3	2	3	17	15	17	16	18
5	Anjali Saini		2	1.5	2	1	2	1	1.5	2	2	10	15	9	12	12
6	Ankit Kumar		2.5	1.5	2	2	2	2	1.5	2	1	10	17	9		10
7	Ankit Pathheer		2.5	2	3	1	3	1	3	2	3	17	9	17	16	18
8	Ankit Saini		2	2	3	2	3	2	2	3	3	16	17	9	16	18
9	Ankita Doot		2	1	1	1	1	1	3	2	3	17	16	17	16	18
10	Anu Jangid		2	1	2	2	2	2	2	2	2	10	17	9	12	8
11	Anu Verma		2	2	2	2	2	2	2	2	1	10	9	15	13	14
12	Anuj Saini		2	2	3	1	3	1	3	2	3	17	17	17	16	18
13	Deepak Saini		2	2	3	1	3	1	2	3	3	16	16	15	16	18
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19	Karan Jangir			2	2	2	2	2	2	2	2	10	9	15	8	8
20	Karan Saini		2	2	3	2	3	2	3	2	3	17	9	17	15	18
21	Lokendra Singh		2	2	3	2	3	2	2	3	3	16	17	15	16	18
22	Lokesh Kumar		2			2		2					16		13	
23	Monika			2	1	2	1	2	1	2	2	10	17	15	8	14
24	Ms.Muskan Saini		2	2	3	2	3	2	3	2	3	17	9	17	16	18
25	Ms.Palak Saini		2	2	3	2	3	2	3	3	3	16	9	15	16	18
26	Ms.Priya Kumari		2	2	1	2	1	2	1	2	3	17	17	17	16	18
27	Ms.Radhika Kanwar		2	1.5	2	2	2	2	2	2	1	10	16	15	12	8
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33	Nidhi		2	2	2	2	2	3	2	2	3	17		17	16	18
34	Nikita		2	2	3	2	3	3	3	3	3	16	9	15	16	18
35	Pintu Kumar		2.5		3	2			3				17		8	
36	Pooja Gujarati			1.5	2	1	2	2		2	2	9	16	15	10	12
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38	Rahina Bano		2	2	3	1	3	3	3	3	3	16	9	15	16	18
39	Rahul Kumar		2			2			3				17			
40	Reena Godara			2	1	2	2	1		2	3	17	16	17	16	18
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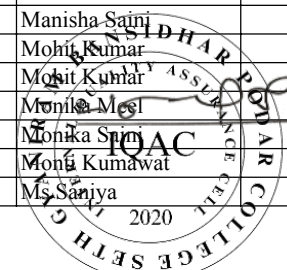
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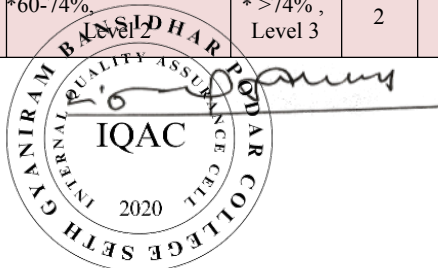
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58	Abhishek Dotasara		2	2	3	3	3	1	2	3	3	16		9	16	18
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61	Aditya		1	2	3	2	2	1	3	1	3	17	15	17	16	18
62	Aditya Jhajharia		2	1	1	3	3	2	2	2	3	16	18	9	16	18
63	Aditya Sharma		2	2	2	2	2	2	1	1	3	17	15	17	16	18
64	Aditya Singh Rao		1	1	2	2	2	3	3	2	1	9	15	9	8	8
65	Ajay		2	2	3	2	2	3	3	1	3	17	15	17	16	18
66	Ajay Kumar Saini		2	1	3	3	3	1	1	2	3	16	18	9	16	18
67	Ajay Pal Singh		1	2	1	2	2	2	2	1	3	17	15	17	16	18
68	Akash Muhal		1	1	2	2	2	2	2	2	2	9	15	9	13	8
69	Amisha		2	2	2	2	2	3	3	1	3	17	15	17	16	18
70	Amit Singh		2	2	3	3	3	3	3	2	3	16	18	9	16	18
71	Anamol Saini		1	1	3	2	2		1	2	2	9	15	9	8	8
72	Anisha		2	1	3	2	2	1	2	1	3	17	15	17	16	18
73	Anjali Saini		2	2	2	2	2	3	2	1	2	9	15	9	8	8
74	Ankit			2	3	2	2	3	3	2	3	17	15	17	16	18
75	Ankit Kumar		2	2	1	3	3		3	2	3	16	18	9	16	18
76	Ankit Kumar Doot		1	2	3	2	2	2		2	2	9	15	9		8
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78	Ankit Saini			2	1	2	2	3	3	2	1	9	15	9		8
79	Ankita Kumawat		2	2	2	2	2		3	2	3	17	15	17	16	18
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82	Anurag Saini			2	3	3	3	3	3	2	3	16	18	9	16	18
83	Arpit Mitharwal		1	2	1	2	2	1	3	2	3	17	15	17	16	18
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86	Avesh Qureshi		2	2	3	3	3	3	3	2	3	16	18	15	16	18
87	Ayush Saini		2	2	3	2	2	3	3	2	3	17	15	17	16	18
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95	Dinesh Kumar			1	3	3	3	3	2	2	3	16	18	15	16	18
96	Gagan		2	2	1	2	2	3	3	1	3	17	15	17	16	18
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104	Jaswant Sarawag		1	1	1	2	2	3	3	1	3	17	15	17	16	18
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108	Karan		2	2	3	2	2	3	1	2	3	17	15	17	16	14
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110	Khushi Saini		1		2	2	2	2	3	2	1	9	15	15	10	11
111	Mahipal Singh		1	2	3	2	2	3	1	2	3	17	15	17	16	14
112	Mandeep Mahala		2	1	3	3	3	3	2	1	3	16	18	15	16	14
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122	Ms. Sanjya		2	2	3	3	3	3			3	17	15	17	16	14

Satyendra Singh

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125	Ms.Komal Saini			2	3	2	2	3		2	3	17	15	17	16	14	
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136	Nikhil Jakhar		1	1	2	2	2	2	3	2	2	9	15	15	12	8	
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152	Rishabh Poonia		2	2	3	2	2	2	3	2	3	17	15	17	16	14	
153	Ritika		1	1	3	3	3	2	2	2	3	16	18	9	16	14	
154	Riya Gadaiya		2					3									
155	Rohit Choudhary			2	2	2	2	3	2	2	2	9	15	9	10	8	
156	Sameer Sarawag		2	2	3	2	2	1	3	2	3	17	15	17	16	14	
157	Satyaveer Singh Rathore		2	2	3	3	3	2	2	3	3	16	18	9	16	14	
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167	Tarun Singh		1	2	3	2	2	3	3	2	3	17	15	17	16	14	
168	Vijay Kumar		2	2	2	1	2	2	2	2	2	9	15	9	8	8	
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173	Vineeta		2	2	3	2	2	3	3	2	3	17	15	17	16	14	
174	Yogesh Khatod		1	1	3	3	3	3	2	3	3	16	18	9	16	14	
175	Yogesh Sanodia		2														
176	Yogita Soni			1	3	2	2	3	3	2	3	17	15	17	16	14	
177	Yudhister Jangid		2	2	2	2	2	2	2	2	2	9	15	9	10	8	
Students Achieved the Threshold level			125	126	143	151	159	138	138	145	151	130	150	118	149	131	
Total No. of Students			177	177	177	177	177	177	177	177	177	177	177	177	177	177	177
% Students Achieved the Threshold level			70.62	71.19	80.79	85.31	89.83	77.97	77.97	81.92	85.31	73.45	84.75	66.67	84.18	74.01	
CO Level																	
* 50-60%, Level 1	*60-74%, Level 2	* >74% , Level 3	Level 2	Level 2	Level 3	Level 3	Level 3	Level 3	Level 3	Level 3	Level 3	Level 2	Level 3	Level 2	Level 3	Level 3	



Satyendra Singh

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Seth Gyaniram Bansidhar Podar College, Nawalgarh

Analysis of Internal Assessment B.Sc.Chemistry 2022-23

Program Name :- B.Sc.Chemistry																
CourseName:- B.Sc. OrganicChemistry																
S.No.	Name of Student	Blooms Taxonomy Level	First Term Test			Second Term Test			Third Term Test			Pre- University Exam				
			1	2	3	1	2	3	1	2	3	1	2	3	4	5
		CO	CO 1	CO2	CO2	CO3	CO3	CO4	CO1	CO3	CO5	CO1	CO2	CO3	CO4	CO5
		Max Marks	3	3	4	3	3	4	3	3	4	20	20	20	20	20
		50%Marks														
1	Ajay Aalaharia		1	1	2.5	1.5	2.5	2.5	1	1.5	1	9	12	15	14	15
2	Akash Saini		3	2	2.5	2	2.5	2.5	3	2	2	17	16	15	8	16
3	Amit Bhaskar		3	1	2	2	2	2	3	2	1	9	16	18	14	16
4	Anisha Jangir		1	2	2.5	1	2.5	2.5	1	1	2	17	16	15	14	16
5	Anjali Saini		2	1	2	1.5	2	2	2	1.5	1	9	13	15	14	12
6	Ankit Kumar		2	2	2.5	1.5	2.5	2.5	2	1.5	2	9	14	17	8	
7	Ankit Pathheer		3	1	2.5	2	2.5	2.5	3	2	1	17	16	9	8	16
8	Ankit Saini		3	2	2	2	2	2	3	2	2	9	16	17	14	16
9	Ankita Doot		1	1	2	1	2	2	1	1	1	17		16	14	16
10	Anu Jangid		2	2	2	1	2	2	2	1	2	9	15	17	14	12
11	Anu Verma		2	2	2	2	2	2	2	2	2	15	16	9	8	13
12	Anuj Saini		3	1	2	2	2	2	3	2	1	17	16	17	8	16
13	Deepak Saini		3	1	2	2	2	2	3	2	1	15		16	14	16
14	Deepika			2	2		2	2			2		10	17	14	14
15	Divya		1	2		1			1	1	2	15	16	9	14	15
16	Hariom		3	2	2	2	2	2	3	2	2	17	16	17	8	16
17	Kamlesh Saini		3	2	2	1	2	2	3	1	2	15		16	8	16
18	Kapil Kumar			2	2		2	2			2		10	17	14	8
19	Karan Jangir		2	2		2			2	2	2	15	16	9	14	8
20	Karan Saini		3	2	2	2	2	2	3	2	2	17	16	9		15
21	Lokendra Singh		3	2	2	2	2	2	3	2	2	15	16	17	8	16
22	Lokesh Kumar			2	2		2	2			2			16	14	13
23	Monika		1	2		2			1	2	2	15	9	17	14	8
24	Ms.Muskan Saini		3	2	2	2	2	2	3	2	2	17	16	9		16
25	Ms.Palak Saini		3	2	2	2	2	2	3	2	2	15	16	9	8	16
26	Ms.Priya Kumari		1	2	2	2	2	2	1	2	2	17	16	17	14	16
27	Ms.Radhika Kanwar		2	2	2	1.5	2	2	2	1.5	2	15	8	16	14	12
28	Muskan Chouhan		2	2	2.5	1.5	2.5	2.5	2	1.5	2	15	16	17		8
29	Naresha Kumari Saini		3	2	2.5	2	2.5	2.5	3	2	2	17	16	9	8	16
30	Neetu Saini		3	2	2	2	2	2	3	2	2	15		9	14	16
31	Neha		1	2	2	2	2	2	1	2	2	17	10	17	14	16
32	Neha Verma		2	1	2	1.5	2	2	2	1.5	1	15	16	16	14	10
33	Nidhi		2	2	2	2	2	2	2	2	2	17	16		8	16
34	Nikita		3	2	2	2	2	2	3	2	2	15		9	8	16
35	Pintu Kumar		3	2	2.5		2.5	2.5	3		2		16	17	14	8
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37	Priya Saini		3	2	2.5	2	2.5	2.5	3	2	2	17	17		14	16
38	Rahina Bano		3	1	2	2	2	2	3	2	1	15	15	9	8	16
39	Rahul Kumar			2	2		2	2			2		17	17	14	
40	Reena Godara		1	2		2			1	2	2	17	15	16	14	16
41	Reena Jangir		3	1	2	2	2	2	3	3	1	15	17			12
42	Rinku Saini		3	2	2	2	2	3	3	3	2	15	15	9	8	16
43	Sachin Kumar Swami		1	2	2.5	2	2.5	1	1	1	2	17	9	17	14	16
44	Sakshi Saini		2	1	2	1.5	2	2	2	2	1	15	17	16	14	8
45	Sonu Saini		2	1	2.5	1.5	2.5	2	2	2	1	15	9	17		12
46	Sumit Kumar Saini		3	2	2.5	2	2.5	3	3	3	2	17	17	9	14	16
47	Sunil Kumar		3	2	2	2	2	3	3	3	2	15	9	9	8	16
48	Swati Sharma		1	2	2.5	2	2.5	1	1	1	2	15	9	17	18	16
49	Tanvi Kishari Kumawat			2	2	1.5	2	2	2	2	2	17	17	16	8	10
50	Urvasi		2	2	2.5	2	2.5	2	2	2	2	15	9	17	18	16
51	Vijay Kumar		3	3	2	2	2	3	3	3	2	17	17	16	8	16
52	Vijay Kumar Dhaka		3	3				3	3	3		17	17	16	8	16
53	Aakash Saini		2	2	2.5	1.5	2.5	2			2		16	8	14	

Satyendra Singh

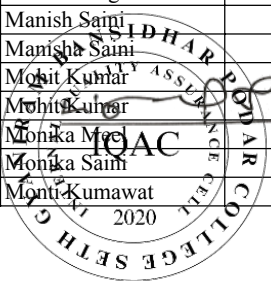
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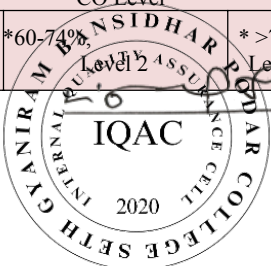
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56	Aaryan		2	2	2.5	1.5	2.5	2	2	2	2	15		17	8	14
57	Abhishek		3	2	2.5	2	2.5	3	3	3	2	17	9	16	18	16
58	Abhishek Dotasara		3	3	2	2	2	3	3	3	3	15	17		18	16
59	Abhishek Goswami		1	2	1	2	1	1	1	1	2	17	9	17	18	16
60	Abhishek Rolan		3	2	2	1	2	3	3	3	2	15		9	8	9
61	Aditya		3	2	1	2	1	3	3	3	2	17	9	15	18	16
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65	Ajay		3	2	2	2	2	3	3	3	2	15	9	15	18	16
66	Ajay Kumar Saini		3	3	2	1	2	3	3	3	3	17	17	18	18	16
67	Ajay Pal Singh		1	2	1	2	1	1	1	1	2	15	9	15	18	16
68	Akash Muhal		2	2	1	1	1	2	2	2	2	15	17	15	8	13
69	Amisha		2	2	2	2	2	2	2	2	2	17	9	15	18	16
70	Amit Singh		3	3	2	2	2	3	3	3	3	15	9	18	18	16
71	Anamol Saini		3	2	1	1	1	3	3	3	2	15	17	15	8	8
72	Anisha		3	2	2	1	2	3	3	3	2	17	9	15	18	16
73	Anjali Saini		2	2	2	2	2	2	2	2	2	15	17	15	8	8
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75	Ankit Kumar		1	3	2	2	2	1	1	1	3	15	17	18	18	16
76	Ankit Kumar Doot		3	2	1	2	1	3	3	3	2	17	9	15	8	
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79	Ankita Kumawat		2	2	2	2	2	2	2	2	2	15	17	15	18	16
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81	Anu Saini		3	2	2	2	2	3	3	3	2	15		15	18	16
82	Anurag Saini		3	3		2		3	3	3	3	17	17	18	18	16
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86	Avesh Qureshi		3	3	2	2	2	3	3	3	3	16	16	18	18	16
87	Ayush Saini		3	2	2	2	2	3	3	3	2	16	12	15	18	16
88	Bablu Kumawat		3	3	2	2	2	3	3	3	3	12		18	18	16
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93	Chandan Saini		3	3	1	2	1	3	3	3	3	12	13	18	18	16
94	Devendra Dhinwa		1	2	2	2	2	1	1	1	2	13	16	15	18	16
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103	Jagrat Deepak Bansilal		3	3	2	1	2	3	3	3	3	15	16	18	18	16
104	Jaswant Sarawag		1	2	1	1	1	1	1	1	2	16	13	15	18	16
105	Jitendra Meel		2	2	2	2	2	2	2	2	2	13	8	15	13	8
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107	Kamlesh Saini		3	3	1	1	1	3	3	3	3	16	16	18	16	16
108	Karan		3	2	2	2	2	3	3	3	2	16	16	15	16	16
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112	Mandeep Mahala		3	3	2	1	2	3	3	3	3	16	16	18	16	16
113	Manish Chejara		3	2	2	2	2	3	3	3	2	16	16	15	16	16
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121	Monti Kumawat		3	2		2		3			2			15	16	16

Satyendra
Singh

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125	Ms.Komal Saini		3	2		2		3	3	3	2	16	16	15	16	16
126	Ms.Ritika Lakhmara		1	3	1	2	1	1	1	1	3	16	8	18	16	16
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130	Narendra Kumar		3	3	2	2	2	3	3	3	3	16		18	16	16
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152	Rishabh Poonia		3	2	2	2	2	3	3	3	2	16	16	8	17	16
153	Ritika		3	3	1	1	1	3	3	3	3	16	16	16	9	16
154	Riya Gadaiya				2		2			2		8	16	16		
155	Rohit Choudhary		2	2		2		2	2	3	2	16	16	16	9	10
156	Sameer Sarawag		3	2	2	2	2	3	3	3	2	8	14	12	17	16
157	Satyaveer Singh Rathore		3	3	2	2	2	3	3		3	16	16	8	9	16
158	Satyendra Saini				2		2				2	16	16	16		
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160	Savita Kumari		3	2	1	2	1	3	3	3	2	16	13	16	17	16
161	Shashikant Poonia		3	1	2	2	2	3	3	3	1		16	10	9	16
162	Shubham		3	2	2	2	2	3	3	2	2	16	16	16	17	16
163	Sonam		2	2	2	1	2	2	2	2	2	16	16	16	9	
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167	Tarun Singh		3	2	1	2	1	3	3	2	2	16	16	16	17	16
168	Vijay Kumar		2	1	2	2	2	2	2	3	1	16	12		9	8
169	Vikas Jangir		3	2	1	1	1	3	3	3	2	16	16	16	17	16
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173	Vineeta		3	2	2	2	2	3	3	3	2	16	8	8	17	16
174	Yogesh Khatod		3	3	1	1	1	3	3		3		16	12	9	16
175	Yogesh Sanodia				2		2			3		16	16	16		
176	Yogita Soni		3	2		1		3	3	2	2	16	16	16	17	16
177	Yudhister Jangid		2	2	2	2	2	2	2	2	2	16	8	11	9	10
Students Achieved the Threshold level			143	151	125	126	125	150	143	146	151	150	129	147	113	149
Total No. of Students			177	177	177	177	177	177	177	177	177	177	177	177	177	177
% Students Achieved the Threshold level			80.79	85.31	70.62	71.19	70.62	84.75	80.79	82.49	85.31	84.75	72.88	83.05	63.84	84.18
CO Level																
* 50-60%, Level 1	*60-74%, Level 2	* >74%, Level 3	Level 3	Level 3	Level 2	Level 2	Level 2	Level 3	Level 3	Level 3	Level 3	Level 3	Level 2	Level 3	Level 2	Level 3



Satyendra
Singh

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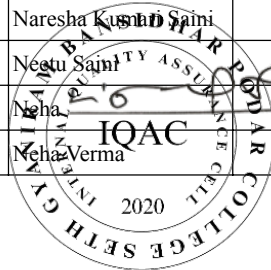
Seth Gyaniram Bansidhar Podar College, Nawalgarh

Analysis of Internal Assessment B.Sc.Chemistry 2022-23

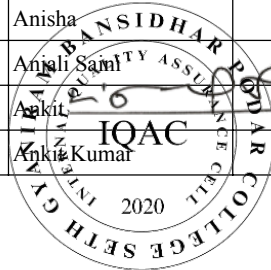
Program Name :- B.Sc.Chemistry																
CourseName:- B.Sc. I Physical Chemistry																
S.No.	Name of Student		First Term Test			Second Term Test			Third Term Test			Pre- University Exam				
			1	2	3	1	2	3	1	2	3	1	2	3	4	5
		Blooms Taxonomy	L2	L2	L3	L2	L4	L4	L3	L5	L4	L2	L4	L5	L3	L5
		CO	CO 1	CO2	CO1	CO2	CO3	CO4	CO2	CO3	CO5	CO1	CO2	CO3	CO4	CO5
		Max Marks	3	3	4	3	3	4	3	3	4	20	20	20	20	20
		50%Marks														
1	Ajay Aalaharia		1	1.5	1	1	2.5	1	1.5	1	1	15	14	15	15	17
2	Akash Saini		2	2	3	2	2.5	3	2	3	2	15	8	16	18	9
3	Amit Bhaskar		1	2	3	1	2	3	2	3	1	18	14	16	18	17
4	Anisha Jangir		2	1	1	2	2.5	1	1	1	2	15	14	16	18	16
5	Anjali Saini		1	1.5	2	1	2	2	1.5	2	1	15	14	12	12	17
6	Ankit Kumar		2	1.5	2	2	2.5	2	1.5	2	2	17	8		10	9
7	Ankit Pathheer		1	2	3	1	2.5	3	2	3	1	9	8	16	18	9
8	Ankit Saini		2	2	3	2	2	3	2	3	2	17	14	16	18	17
9	Ankita Doot		1	1	1	1	2	1	1	1	1	16	14	16	18	16
10	Anu Jangid		2	1	2	2	2	2	1	2	2	17	14	12	8	17
11	Anu Verma		2	2	2	2	2	2	2	2	2	9	8	13	14	9
12	Anuj Saini		1	2	3	1	2	3	2	3	1	17	8	16	18	9
13	Deepak Saini		1	2	3	1	2	3	2	3	1	16	14	16	18	17
14	Deepika		2			2	2				2	17	14	14		16
15	Divya		2	1	1	2		1	1	1	2	9	14	15	8	17
16	Hariom		2	2	3	2	2	3	2	3	2	17	8	16	18	9
17	Kamlesh Saini		2	1	3	2	2	3	1	3	2	16	8	16	18	9
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19	Karan Jangir		2	2	2	2		2	2	2	2	9	14	8	8	16
20	Karan Saini		2	2	3	2	2	3	2	3	2	9		15	18	
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22	Lokesh Kumar		2			2	2				2	16	14	13		17
23	Monika		2	2	1	2		1	2	1	2	17	14	8	14	16
24	Ms.Muskan Saini		2	2	3	2	2	3	2	3	2	9		16	18	
25	Ms.Palak Saini		2	2	3	2	2	3	2	3	2	9	8	16	18	9
26	Ms.Priya Kumari		2	2	1	2	2	1	2	1	2	17	14	16	18	17
27	Ms.Radhika Kanwar		2	1.5	2	2	2	2	1.5	2	2	16	14	12	8	16
28	Muskan Chouhan		2	1.5	2	2	2.5	2	1.5	2	2	17		8	13	
29	Naresha Kumbh Saini		2	2	3	2	2.5	3	2	3	2	9	8	16	18	9
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31	Neha		2	2	1	2	2	1	2	1	2	17	14	16	18	16
32	Neha Verma		1	1.5	2	1	2	2	1.5	2	1	16	14	16	18	17

Satyendra Singh

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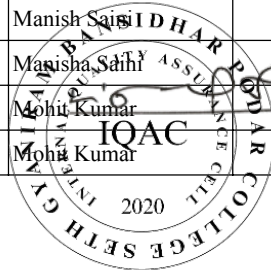
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35	Pintu Kumar				3	2	2.5			3	2	17	14	8		17
36	Pooja Gujarati		2	1.5	2	1		2	1.5	2	1	16	14	10	12	16
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38	Rahina Bano		3	2	3	1	2	3	2	3	1	9	8	16	18	9
39	Rahul Kumar					2	2				2	17	14			17
40	Reena Godara		1	2	1	2		2	2	1	2	16	14	16	18	16
41	Reena Jangir		3	2	3	1	2	2	2	3	1			12	11	
42	Rinku Saini		3	2	3	2	2	3	2	3	2	9	8	16	18	9
43	Sachin Kumar Swami		1	2	1	2	2.5	2	2	1	2	17	14	16	18	17
44	Sakshi Saini		2	1.5	2	1	2	2	1.5	2	1	16	14	8	10	16
45	Sonu Saini		2	1.5	2	1	2.5	2	1.5	2	1	17		12	12	
46	Sumit Kumar Saini		3	2	3	2	2.5	2	2	3	2	9	14	16	18	17
47	Sunil Kumar		3	2	3	2	2	3	2	3	2	9	8	16	18	9
48	Swati Sharma		1	2	1	2	2.5	2	2	1	2	17	18	16	9	9
49	Tanu Kumari Kumawat		2	1.5	2	2	2	2	1.5	2	2	16	8	10	17	17
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51	Vijay Kumar		1	2	3	3	2	3	2	3	3	9	18	16	17	9
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67	Ajay Pal Singh		2	2	1	2	1	2	2	1	2	15	18	16	9	9
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70	Amit Singh		3	2	3	3	2	3	2	3	3	18	18	16	9	9
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72	Anisha		1	1	3	2	2	2	1	3	2	15	18	16	9	15
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Satyendra Singh

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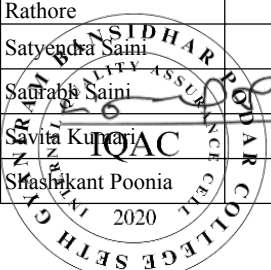
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Satyendra Singh

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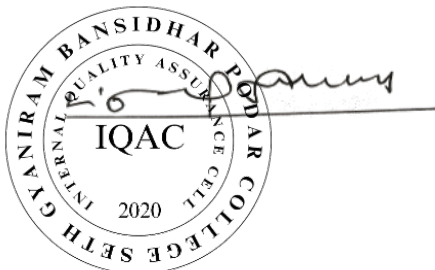
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122	Ms Saniya		3	2	3	3	2	3	2	3	3	18		16	16	15
123	Ms.Antim Saini		3	2	1	2	2	2	2	1	2	15	16	16	12	15
124	Ms.Anu Kumari Jagarwal		2	1	1	2	2	2	1	1	2	15	12	13	16	15
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126	Ms.Ritika Lakhmara		2	2	1	3	1	3	2	1	3	18	16	16	8	15
127	Ms.Tamanna Jangir		1	2	3	2	2	2	2	3	2	15	8	16	12	15
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Satyendra Singh

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Students Achieved the Threshold level			124	126	143	151	125	159	126	143	151	147	113	149	130	132
Total No. of Students			177	177	177	177	177	177	177	177	177	177	177	177	177	177
% Students Achieved the Threshold level			70.06	71.19	80.79	85.31	70.62	89.83	71.19	80.79	85.31	83.05	63.84	84.18	73.45	74.58
CO Level																
* 50-60%, Level 1	*60-74%, Level 2	* >74% , Level 3	Level 2	Level 2	Level 3	Level 3	Level 2	Level 3	Level 2	Level 3	Level 3	Level 3	Level 2	Level 3	Level 2	Level 3



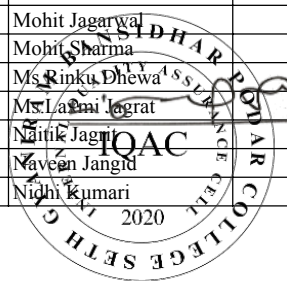
Satyendra
Singh

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Satyendra
Singh

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Students Achieved the Threshold level			120	126	124	119	127	133	127	132	120	125	120	129	133	127
Total No. of Students			170	170	170	170	170	170	170	170	170	170	170	170	170	170
% Students Achieved the Threshold level			70.59	74.12	72.94	70.00	74.71	78.24	74.71	77.65	70.59	73.53	70.59	75.88	78.24	74.71
CO Level																
* 50-60%, Level 1	*60-74%, Level 2	* >74%, Level 3	Level 2	Level 3	Level 2	Level 2	Level 3	Level 3	Level 3	Level 3	Level 2	Level 2	Level 2	Level 3	Level 3	Level 3



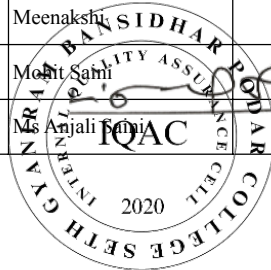
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Analysis of Internal Assessment B.Sc.Chemistry 2022-23

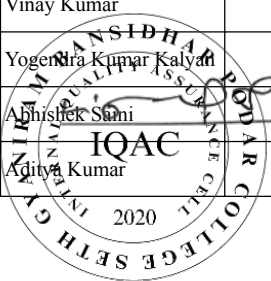
Program Name :- B.Sc.Chemistry																
CourseName:- B.Sc. II Organic Chemistry																
S.No.	Name of Student		First Term Test			Second Term Test			Third Term Test			Pre- University Exam				
			1	2	3	1	2	3	1	2	3	1	2	3	4	5
		Blooms Taxonomy Level	L2	L2	L3	L3	L4	L4	L3	L4	L4	L2	L4	L5	L3	L5
		CO	CO1	CO2	CO2	CO3	CO3	CO4	CO1	CO3	CO4	CO1	CO2	CO3	CO4	CO5
		Max Marks	3	3	4	3	3	4	3	3	4	20	20	20	20	20
		50%Marks														
1	Alok Bhaskar		1	1	2	2	2		1	2	1	12	16	16	8	12
2	Anisha Saini		1.5	2	2	1	1.5	1.5	2	2	3	16	8	16	8	16
3	Ankit Kumar		1.5	2	2	1	1.5	1.5	2	2	1	16	8	0	16	16
4	Ankit Kumar		2	1	2	1	2	2	1	2	2	0	12	16	16	8
5	Anshul		2	1		2	2	2	1	2	1	8	16	8	16	16
6	Anvesha Choudhary			1.5	2	2	1	1.5	1.5	2	2	12	16	16	0	8
7	Aryan Verma		1	2	1	2	2	1	1	2	2	16	8	8	12	16
8	Avinash		1	1	2	2	2		1	2	1	16	16	0	16	8
9	Banti Saini		2	1	2	1	2	2	1	2	2	8	8	16	16	16
10	Dimpal Saini			1	1	1	3	3	2		1	12	16	16	8	16
11	Garima Kanwar		2	1	2	1	3	1	2	2	1	12	10	11	12	8
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23	Mohit Sami			2	2	2	2	2	2	2	2	8	16	8	8	12
24	Ms Anjali Ponia		1	1.5	1.5	2	2									16



Satyendra Singh

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30	Ms.Pinki		1	2	2	1	1	1.5	1	1	1	16	8	0	16	16
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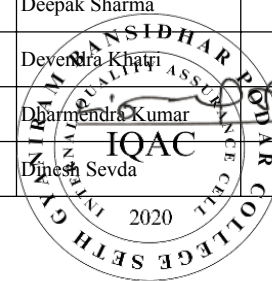
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Satyendra Singh

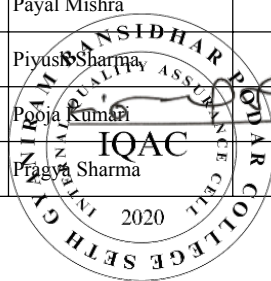
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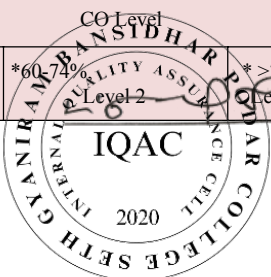
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107	Kapil Jakhar		1	2	1	2	2	1	1	2	2	8	8	16	8	16
108	Kartikey Solanki		1	1	2	2	2		1	2	1	8	16	16	12	8
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124	Nikita Surela		1	1.5	1.5	2	2		1	1	2	8	0	12	16	16
125	Nitin Singh Rathore		1	2	2	1	1	1.5	2	1	1	12	16	16	8	16
126	Pankaj Kumar		2	2	2	2		2	1	2	2	16	8			8
127	Pankaj Kumar Lamba		2	1	1	1	2	2	2	2	1	16	12	8	8	12
128	Pawan Kumar Mahan		2	1.5	1.5	2	2	1	2	2	2	8	16	16	16	8
129	Payal Mishra			1.5	1.5	2	2	1.5	1		2	12	16	8	16	12
130	Piyush Sharma		1	2	2	1	1	1.5	1	1	1	8	8	16	16	16
131	Pooja Kumari		2	2	2	2	2	2	2	2	2	16	12	16	0	
132	Pragya Sharma		1	3	1	2	1	2	2	1	2	16	16	16	16	16

Satyendra Singh

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135	Priya Kanwar			1.5	1.5	2	2	1.5	1		2	16	8	0	16	8
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137	Priyanshu Sharma		1	2	1	2	2	1	1	2	2	16	8	16	8	16
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141	Rajiv Jangir		2	1	2	1	3	1	2	2	1	16	0	8	16	8
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143	Ram Singh		2	2	2	2	2	2	2	2	2	12	8	16	0	16
144	Ravi Kumar Sain			2		1	2	2	2		1	16	12	16	16	16
145	Rohit		2	2	1	2	3	2	2	2	2	16	16	8	8	8
146	Rohit Chouhan		2	2	2	2	1	2	2	2	2	8	16	12	12	12
147	Rohit Tanwar		2	2	1		2	2	2	2		12	8	8	16	8
148	Ronak Choudhary		2	2		2	2	2	2	2	2	8	12	16	12	12
149	Ronak Kumar		1.5	1.5	2	1	3	2	2	1.5	1	16	8	8	16	16
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163	Suresh Kumar		2	1	1	1	2	2	2	2	1	16	11	8	8	8
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165	Umesh Kumar Sogan			1.5	1.5	2	2	1.5	1		2	12	10	16	16	16
166	Vasim Akram		1	2	2	1	1	1.5	1	1	1	16	15	16	16	16
167	Vasundhra Soni		2	2	2	2	2	2	2	2	2	16	17	8	0	0
168	Vikas Kumar		1	3	1	2	1	2	2	1	2	8	15	12	16	16
169	Vikash Kumar		1	1.5	1.5	2	2		1	1	2	12	11	8	8	8
170	Vikash Kumar		2	2	2	2	2	2	2	2	2	8	11	16	12	8
Students Achieved the Threshold level			106	134	114	108	132	124	118	120	104	105	106	101	106	104
Total No. of Students			170	170	170	170	170	170	170	170	170	170	170	170	170	170
% Students Achieved the Threshold level			62.35	78.82	67.06	63.53	77.65	72.94	69.41	70.59	61.18	61.76	62.35	59.41	62.35	61.18
* 50-60%, Level 1	* 60-74%, Level 2	* >74%, Level 3	Level 2	Level 3	Level 2	Level 2	Level 3	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 1	Level 2	Level 2



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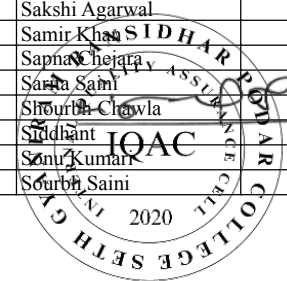
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Analysis of Internal Assessment B.Sc.Chemistry 2022-23

Program Name :- B.Sc.Chemistry																
CourseName:- B.Sc. II Physical Chemistry																
S.No.	Name of Student	First Term Test			Second Term Test			Third Term Test			Pre- University Exam					
		1	2	3	1	2	3	1	2	3	1	2	3	4	5	
	Blooms Taxonomy	L2	L2	L3	L3	L4	L4	L3	L4	L4	L2	L4	L5	L3	L5	
	CO	CO1	CO2	CO2	CO3	CO3	CO4	CO1	CO3	CO4	CO1	CO2	CO3	CO4	CO5	
	Max Marks	3	3	4	3	3	4	3	3	4	20	20	20	20	20	
	50%Marks															
1	Alok Bhaskar	1	2	1	2	1	2	1	2	1	8	16	16	8	8	
2	Anisha Saini	1.5	2	2	1	1.5	1.5	2	2	1	16	8	12	12	12	
3	Ankit Kumar	1	3	3	1	2	2	3	3	1	12	8	16	8	16	
4	Ankit Kumar	1	2	1	2	1	2	1	2	1	8	16	16	8	8	
5	Anshul	2.5	2.5	2	2.5	2	2.5	2.5	2	2	16	20	12	20	8	
6	Anvesha Choudhary	1	3	3	1	2	2	3	3	1	12	8	8	8	12	
7	Aryan Verma	1.5	2	2	1	1.5	1.5	2	2	1	16	8	12	12	16	
8	Avinash	1	3	3	1	2	2	3	3	1	12	8	12	8	16	
9	Banti Saini	1	2	1	2	1	2	1	2	1	8	16	8	8	8	
10	Dimpal Saini	2	2	1	3	3	3	1	2	3	8	12	16	16	12	
11	Garima Kanwar	1	1.5	1	1	2.5	1	1.5	1	1	8	8	16	8	12	
12	Hansika Saini	2	2	3	2	2.5	3	2	3	2	12	16	12	16	12	
13	Harsh Yadav	1	2	3	1	2	3	2	3	1	12	8	12	8	8	
14	Harshit Sharma	2	1	1	2	2.5	1	1	1	2	8	16	8	16	8	
15	Jitendra Jat	1	1.5	2	1	2	2	1.5	2	1	16	8	12	8	8	
16	Kalpna Kumari	2	1.5	2	2	2.5	2	1.5	2	2	16	16	16	16	8	
17	Khushabu Sharma	1	2	3	1	2.5	3	2	3	1	12	8	16	8	12	
18	Komal Kumari	2	2	3	2	2	3	2	3	2	12	16	12	16	8	
19	Komal Mandia	1	1	1	1	2	1	1	1	1	8	8	16	8	8	
20	Krishan Kumar	2	3	2	1	1	3	2	1	3	16	8	20	16	16	
21	Lalit Kumar	1.5	1	1	2	1	2	1	2	1	8	16	12	12	8	
22	Meenakshi	2	3	2	2	1.5	2	2	1	1.5	16	16	16	16	12	
23	Mohit Saini	2	3	1	1	1	3	3	1	2	8	8	12	16	16	
24	Ms Anjali Saini	1	1	2	3	1	2	1	2	1	16	12	16	8	8	
25	Ms.Aarati Kumari	1.5	2	1	3	2.5	2.5	2	2.5	2	8	12	12	12	8	
26	Ms.Kritika Mishra	1.5	2	2	3	1	3	3	1	2	16	12	16	12	16	
27	Ms.Mallika Nayak	2	3	1	1	1.5	2	2	1	1.5	8	8	16	16	8	
28	Ms.Nikita Kumari	2	3	2	2	1	3	3	1	2	16	16	12	16	8	
29	Ms.Nikita Saini	1	1	1	3	1	2	1	2	1	8	12	8	8	8	
30	Ms.Pinki	1.5	2	2	1	1.5	1.5	2	2	1	16	8	12	12	16	
31	Ms.Ruchika	1	3	3	1	2	2	3	3	1	12	8	12	8	8	
32	Nafesh Ali	1	2	1	2	1	2	1	2	1	8	16	8	8	8	
33	Nikhil Kumar	2	2	1	3	3	3	1	2	3	8	12	16	16	8	
34	Nikita Rar	1	1.5	1	1	2.5	1	1.5	1	1	8	8	12	8	8	
35	Nishatha Karodia	2	2	3	2	2.5	3	2	3	2	12	16	8	16	8	
36	Palak Saini	1	2	3	1	2	3	2	3	1	12	8	16	8	8	
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38	Payal Saini	1	1.5	2	1	2	2	1.5	2	1	16	8	16	8	8	
39	Poonam Prajapat	2	2	3	1	2	3	2	2	3	12	8	8	16	8	
40	Pradeep Kumar	2	2	1	1.5	1	1	2	1	1	8	12	16	16	16	
41	Rahul Saini	3	3	1	2	3	2	2	1.5	3	8	16	8	12	8	
42	Rajat Kajala	1	2	1	2	3	1	1	1	3	8	16	16	8	8	
43	Ravikant Saini	1	2	3	1	1	2	3	1	1	12	8	8	8	8	
44	Rinku Kumari Saini	1.5	1	1	1.5	2	1	3	2.5	2	8	12	8	12	12	
45	Ritesh Garhwal	2	3	2	1.5	2	2	3	1	2	16	12	12	16	16	
46	Sakshi Agarwal	2	3	1	2	3	1	1	1.5	3	8	16	16	16	8	
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50	Shourbh Chawla	2	1.5	2	2	2	1.5	2	2	2	16	16	8	16	16	
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52	Sonu Kumar	2	2	1	2	1	1	2	2	1	8	8	8	8	8	
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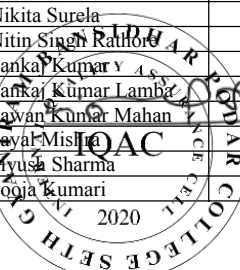


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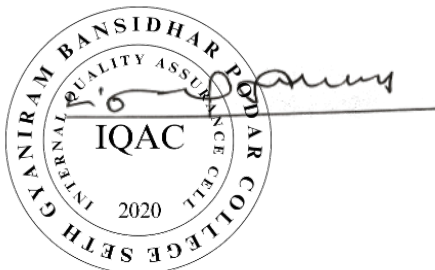
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59	Abhishek Saini				2	3	1		2	3	2	3	12	8	12	0	16
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106	Kamal Yadav			2	1	1	2	2.5	1	1	1	2	8	16	12	16	20
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114	Mohammed Rahil			1	1	1	3	1	2	1	2	1	8	12	16	8	8
115	Mohit Chalka												0	0	16	0	16
116	Mohit Jagarwal			1	2	1	2	1	3	1.5	2	2	8	16	12	8	16
117	Mohit Sharma			1.5	2	2	1	1.5	3	1	3	3	16	8	12	12	12
118	Ms Rinku Dhewa			1	3	3	1	2	1	1	2	1	12	8	8	8	16
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124	Nikita Surela			1	2	1	2	1	2	1	1.5	2	8	16	12	8	12
125	Nitin Singh Rathore			2	2	3	2	2.5	3	2	3	2	12	16	12	16	8
126	Pankaj Kumar			1	2	3	1	2	3	2	3	1	12	8	8	8	8
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130	Prayush Sharma			1	2	3	1	2	3	2	3	1	8	12	8	16	8
131	Pooja Kumari			2	1	1	2	2.5	1				16	12	16	8	8

Satyendra Singh

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134	Prateek Kumawat		1.5	1	1	2	1	2	1	2	1	8	16	8	12	16
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137	Priyanshu Sharma		2	1.5	1	1.5	1	2	1		2	8	12	12	16	8
138	Rahul Kumar Jakhar		1	1	1	2	2	2	1.5		2	8	16	8	8	16
139	Rahul Saini		3	2.5	2	1	1	1	1		2	16	8	16	12	8
140	Rahul Saini		1.5	1.5	2.5	2	2	3	1	2	1	20	16	12	12	16
141	Rajiv Jangir		3	1	1	2	1	3	2.5	2	1.5	8	16	0	12	8
142	Rakesh Saini				1	1.5	2	3	1	2	3	8	12	0	0	16
143	Ram Singh		2	1	1	2	1	1	1.5	1	1	8	16	16	16	12
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145	Rohit		1	2	2	2.5	1	3	1	3	3	16	20	16	8	16
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147	Rohit Tanwar		2.5	2	2	2.5	2			2	2	16	20	12	20	12
148	Ronak Choudhary		1	2	1	2	1	2		3	1.5	8	16	12	8	12
149	Ronak Kumar		1	1.5	2	2.5	2	2		1	2	16	20	8	8	16
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166	Vasim Akram		1	1	1	3	1	2	1	2	1	8	12	12	8	12
167	Vasundhra Soni		2	2.5	2	1.5	2.5	3	2	1	2	16	12	12	16	16
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170	Vikash Kumar		1	2	2	2.5	1.5	1	2	1	1.5	16	20	12	8	12
Students Achieved the Threshold level			95	122	100	104	106	128	117	98	90	100	104	128	95	94
Total No. of Students			170	170	170	170	170	170	170	170	170	170	170	170	170	170
% Students Achieved the Threshold level			55.88	71.76	58.82	61.18	62.35	75.29	68.82	57.65	52.94	58.82	61.18	75.29	55.88	55.29
CO Level																
* 50-60%, Level 1	*60-74%, Level 2	* >74%, Level 3	Level 1	Level 2	Level 1	Level 2	Level 2	Level 3	Level 2	Level 1	Level 1	Level 1	Level 2	Level 3	Level 1	Level 1



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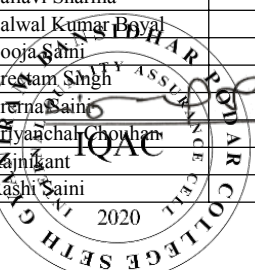
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Program Name :- B.Sc.Chemistry																	
CourseName:- B.Sc. III Inorganic Chemistry																	
S.No.	Name of Student	Questions	First Term Test			Second Term Test			Third Term Test			Pre- University Exam					
			1	2	3	1	2	3	1	2	3	1	2	3	4	5	
		Blooms Taxonomy Level	L2	L2	L3	L3	L4	L4	L3	L4	L4	L2	L4	L5	L3	L5	
		CO	CO1	CO2	CO2	CO3	CO3	CO4	CO1	CO3	CO4	CO1	CO2	CO3	CO4	CO5	
		Max Marks	3	3	4	3	3	4	3	3	4	20	20	20	20	20	
		50%Marks										13	13	13	13		
1	Abdul Ahad Khatri		3	3	1	2	1	2	3	3	1.5	0	0	0	8	8	
2	Aditya Dhaka		2		3	2	2	2	3	1	2	16	16	16	13	8	
3	Aditya Saini		3	2	3	2	3	1	1	2	1	16	16	16	12	0	
4	Aman Jagrawal		3	1	3	1.5	1	2	3	2	2.5	16	8	12	8	0	
5	Anisha		2	1	1	2	3	1	3	1	2	12	16	14	16	16	
6	Anjali Jakhar		3	2	2	2	2	2	1	1	2.5	16	8	12	13	16	
7	Anjali Verma		3	2.5	3	1	1	1	2	2	2	16	16	16	16	16	
8	Ankit Kumar		1	1	1	1.5	2	2	2	2.5	2.5	8	8	8	20	8	
9	Ankit Kumar		3	1	1	1.5	3	1	3	1	2	12	16	14	0	12	
10	Ankit Kumar Buri		3	1	2	2	1	2	3		1.5	12	8	10	13	16	
11	Ankita Jangir		1	2	3	2	1	2	1	1	2	16	16	16	16	8	
12	Anuj Kumar		2	2	1	3	1	2	2	2	1	16	16	16	8	16	
13	Anuj Saini		2	1	2	1.5	1	1	2	1	2	13	16	20	12	12	
14	Anupriya		3	2	1	1.5	3	1.5	3	2	2	12	8	10	13	12	
15	Ashish Saini		3	1	2	1.5	3	2	3	2		12	12	12	12	16	
16	Ashish Sankhala		1	2	1	2	1	3	3	3	2	12	16	14	13	16	
17	Avinash Jangir		2	1	2	2	2	1	2	2	2	16	13	20	16	16	
18	Babita Kumari		2	2	2	3	2	2	1	3	1.5	16	8	12	16	12	
19	Chanchal Chawala		3	1	2	3	3	1.5	1	2	3	13	16	20	13	16	
20	Chitra Sahal		3	2	1	3		2	3	3	1	13	12	18	16	16	
21	Darshan Jangir		3	2	3	2	3	2	3		3	13	16	20	8	8	
22	Dimpal		2	2	1.5	1	2	2	1	1		16	16	16	8	12	
23	Divyansh Saini		3	1	3	2	1	1.5	1	2	2	8	16	12	16	12	
24	Gunjan Kanwar		1	1.5		1.5	3	2	3	1	2	16	12	14	13	12	
25	Indu Kumari		3	2	2	2	3	2	3	2	2	12	16	14	8	16	
26	Jangid Arti Shaktidhar		3	1	1	1	1	2	1	2	2	16	16	16	13	16	
27	Jayati Chandra		1	2	1	2	2	2	2	2	1	8	16	12	8	13	
28	Jedy Tanwar		2	1.5	2	1.5	3	2	3	1	1.5	16	16	16	16	12	
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30	Jitesh Kumar		3	2	1	2	1	2	1	2	1	12	12	12	13	8	
31	Jyoti Chawla		3	2	1		2	2	2	3	2	16	16	16	8	16	
32	Jyoti Rar		1	2	1	3	3	1	3	1.5	1.5	0	16	8	16	16	
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35	Kamlesh Kumar		3	2	1	2	1	2	1	2	2	16	12	14	16	8	
36	Karan Kumar Soni		3	1	2	1	2	2	2	2	2	16	16	16	13	16	
37	Mamta Kumari Meena		3	1.5	1	2	1	3	1	1	1.5	8	16	12	16	13	
38	Manisha		3	1.5	2	2	2	1.5	2	1	2	16	13	20	0	20	
39	Monu Dhaka		3	2	1	2.5	2	1.5	2	1	2	16	12	14	13	0	
40	Ms Anju		2	2	2	3	2	1.5	2	2	1	20	12	16	16	8	
41	Ms Komal Saini		3	3	1	3	1	2	1	1	1.5	13	12	18	16	8	
42	Ms. Sagufa Khatri		3	1.5	2	3	3	2	3	2	1.5	13	16	20	16	8	
43	Muskan Saini		1	1.5	2	2	1.5	1	1.5	1.5	1.5	13	16	20	16	0	
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45	Nayum Khan		1	2	1	2		1			1	2	8	8	8	8	16
46	Neha		3	2	1.5	2	3		1.5	2	1	16	8	12	8	16	
47	Neha Kumari Doot		3	1	2	3	1.5		2	1.5	1.5	16	0	8	16	16	
48	Nikita Kumari		1	1	1	3	3	2	1	1.5	1.5	13	0	12	8	8	
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50	Nitin Kumar		2	1	2	2	2	2	2	2	2	13	16	20	16	16	
51	Pallavi Sharma		3	2	1.5	3	1	1	2.5	3	3	16	16	16	16	8	
52	Palwal Kumar Boyal		3	2	2		1	1.5	2	1	1.5	13	8	16	16	20	
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55	Pretna Saini		2	2	2	3	1	2	1.5	1	2	16	8	12	16	16	
56	Priyansh Choudham		3	2	2.5	2	1	1.5	2	2	2	13	16	20	0	16	
57	Rainigant		3	2	2	2	1	1.5	2	2	2	16	16	16	16	8	
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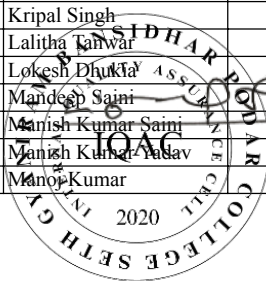
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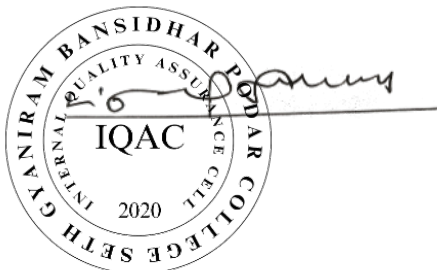
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62	Sachin Bugalia		3	2	1	2	1	2		1.5	1	13	12	18	16	14
63	Sania		3	1.5	2	3	2	2	2	2	2	16	16	16	16	16
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65	Sapna Kumari		3	2	1.5	2	2	1.5	2	1	1	0	8	4	8	13
66	Shivani Jangir		3	1	2	1.5		1.5	1	1.5	1	16	12	14	0	12
67	Siddharth Ranwa		3	1.5	1	2	1.5	1.5	1.5	1.5	1.5	12	12	12	16	8
68	Simran Sharma		3	1.5	2.5	2	1.5	2	2	2	2	16	12	14	8	8
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117	Jangbaj		2	2	1	2	3	2	2	2	1	13	13	13	16	20
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124	Mandeep Saini		2	2	3	2	2	1.5	1	2	2	16	8	12	16	20
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Satyendra Singh

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136	Nikita Saini											16	13	20	16	8
137	Nisha Choudhary		2	1	1		2	2	2	1	2	0	0	0	12	18
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139	Omendra Kumar Jangir		3	1.5	1	2	2	3	3	1.5	1	13	12	18	16	20
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146	Pramveer Singh											8	16	12	13	16
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157	Sandeep Meena		2	3	2	1	3	1	2	2	2	16	8	12	16	16
158	Sapna Rolan		1	1.5	3	3	1	2	3	2	1.5	8	8	8	8	8
159	Satyaveer Singh		1.5	1	2	2	2	3		2	1.5	13	16	20	16	14
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167	Vibhanshu Jagrat		1.5	2.5	2	1	2	1	1	1	2	16	12	14	13	20
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170	Yogita		2	1	2	1	3	1.5	1	1	1	13	16	20	12	18
Students Achieved the Threshold level			124	117	117	133	113	125	123	119	121	133	124	150	125	137
Total No. of Students			170	170	170	170	170	170	170	170	170	170	170	170	170	170
% Students Achieved the Threshold level			72.94	68.82	68.82	78.24	66.47	73.53	72.35	70.00	71.18	78.24	72.94	88.24	73.53	80.59
CO Level																
* 50-60%, Level 1	*60-74%, Level 2	* >74% , Level 3	Level 2	Level 2	Level 2	Level 3	Level 2	Level 2	Level 2	Level 2	Level 2	Level 3	Level 2	Level 3	Level 2	Level 3



Satyendra
Singh

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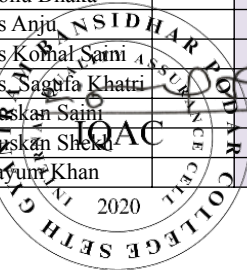


Analysis of Internal Assessment B.Sc. Chemistry 2022-23

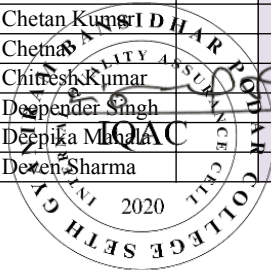
Program Name :- B.Sc. Chemistry																
Course Name :- B.Sc. II Physical Chemistry																
S.No.	Name of Student	Blooms Taxonomy Level	First Term Test			Second Term Test			Third Term Test			Pre- University Exam				
			1	2	3	1	2	3	1	2	3	1	2	3	4	5
		CO	CO1	CO2	CO2	CO3	CO3	CO4	CO1	CO3	CO4	CO1	CO2	CO3	CO4	CO5
		Max Marks	3	3	4	3	3	4	3	3	4	20	20	20	20	20
		50% Marks														
1	Abdul Ahad Khatri		3	3	1	2	1	2	3	3	1.5	0	0	0	8	8
2	Aditya Dhaka		2		3	2	2	2	3	1	2	16	16	16	13	8
3	Aditya Saini		3	2	3	2	3	1	1	2	1	16	16	16	12	0
4	Aman Jagrawal		3	1	3	1.5	1	2	3	2	2.5	16	8	12	8	0
5	Anisha		2	1	1	2	3	1	3	1	2	12	16	14	16	16
6	Anjali Jakhar		3	2	2	2	2	2	1	1	2.5	16	8	12	13	16
7	Anjali Verma		3	2.5	3	1	1	1	2	2	2	16	16	16	16	16
8	Ankit Kumar		1	1	1	1.5	2	2	2	2.5	2.5	8	8	8	20	8
9	Ankit Kumar		3	1	1	1.5	3	1	3	1	2	12	16	14	0	12
10	Ankit Kumar Buri		3	1	2	2	1	2	3		1.5	12	8	10	13	16
11	Ankita Jangir		1	2	3	2	1	2	1	1	2	16	12	15	16	8
12	Anuj Kumar		2	2	1	3	1	2	2	2	1	16	13	16	8	16
13	Anuj Saini		2	1	2	1.5	1	1	2	1	2	13	16	17	12	12
14	Anupriya		3	2	1	1.5	3	1.5	3	2	2	12	8	10	13	12
15	Ashish Saini		3	1	2	1.5	3	2	3	2		12	12	12	12	16
16	Ashish Sankhala		1	2	1	2	1	3	3	3	2	12	16	14	13	16
17	Avinash Jangir		2	1	2	2	2	1	2	2	2	16	13	20	16	16
18	Babita Kumari		2	2	2	3	2	2	1	3	1.5	16	8	12	16	12
19	Chanchal Chawala		3	1	2	3	3	1.5	1	2	3	13	16	20	13	16
20	Chitra Sahal		3	2	1	3		2	3	3	1	13	12	18	16	16
21	Darshan Jangir		3	2	3	2	3	2	3		3	13	16	20	8	8
22	Dimpal		2	2	1.5	1	2	2	1	1		16	16	16	8	12
23	Divyansh Saini		3	1	3	2	1	1.5	1	2	2	8	16	12	16	12
24	Gunjan Kanwar		1	1.5		1.5	3	2	3	1	2	16	12	14	13	12
25	Indu Kumari		3	2	2	2	3	2	3	2	2	12	16	14	8	16
26	Jangid Arti Shaktidhar		3	1	1	1	1	2	1	2	2	16	16	16	13	16
27	Jayati Chandra		1	2	1	2	2	2	2	2	1	8	16	12	8	13
28	Jedy Tanwar		2	1.5	2	1.5	3	2	3	1	1.5	16	16	16	16	12
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37	Mamta Kumari Meena		3	1.5	1	2	1	3	1	1	1.5	8	16	12	16	13
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40	Ms Anju		2	2	2	3	2	1.5	2	2	1	15	12	16	16	8
41	Ms Komal Saini		3	3	1	3	1	2	1	1	1.5	13	12	18	16	8
42	Ms Sagita Khatri		3	1.5	2	3	3	2	3	2	1.5	13	16	20	16	8
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44	Muskan Sherkh		3	1.5	2	1	3	1	3	1	2	16	12	14	13	0
45	Nayun Khan		1	2	1	2		1	1	2	2	8	8	8	8	16

Satyendra Singh

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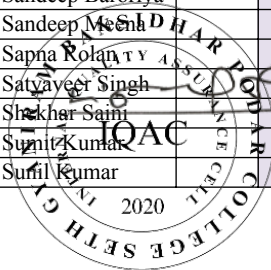
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50	Nitin Kumar		2	1	2	2	2	2	2		2	13	16	20	16	16
51	Pallavi Sharma		3	2	1.5	3	1	1	2.5	3	3	16	16	16	16	8
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Satyendra Singh

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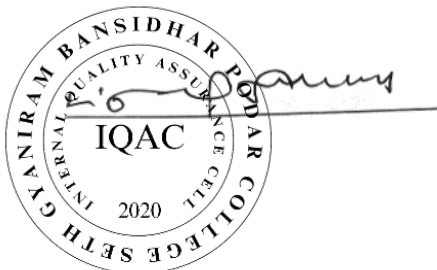
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117	Jangbaj			2	2	1	2	3	2	2	2	1	13	13	13	16	20
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119	Karan Singh			1	2	2	3	3	1.5		2	1	0	16	8	8	12
120	Khushbu Kanwar			3	1.5	1	2	2	3	3	1.5	1	13	12	18	8	8
121	Kripal Singh			2	1	1.5	2	2	2	2	1.5	2	16	13	20	8	12
122	Lalitha Tanwar			2	2	1	2	2	1	1.5	2	3	16	15	16	0	8
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124	Mandeep Saini			2	2	3	2	2	1.5	1	2	2	16	8	12	16	20
125	Manish Kumar Saini			2	2.5	2	1	1	2	1.5	1	2	16	12	14	16	20
126	Manish Kumar Yadav			1	1	2.5	1	1	2	2	1	2	8	16	12	16	16
127	Manoj Kumar			2	1	3	2	2	2	2	2	1	8	16	12	8	16
128	Manshi Sharma			1	2	1.5	1	2	3	2	2.5	1	16	14	16	12	6
129	Moh. Sohel Behlim			1	2	1	1.5	1	2	3	2	2.5	8	13	16	16	16
130	Mohit Buri				3	2	2	2	2	2	1	1	12	16	14	8	12
131	Mohit Soni			2	3	2	2	2	2	2	1	1	16	15	14	16	20
132	Monika Jakhar			2	1.5	3	2	1	1	1.5	2	2	16	15	16	12	14
133	Ms. Kavita Kumari			2		3	2	1.5	1	1	1.5	2	16	8	12	12	14
134	Nidhi Jakhar			1	2	1.5	1.5	2	2	2	1	1	16	8	12	16	16
135	Nidhi Saini			2	1	1	2	3	3	2	2	2	12	16	14	16	16
136	Nikita Saini												16	13	20	16	8
137	Nisha Choudhary			2	1	1		2	2	2	1	2	0	0	0	12	18
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139	Omendra Kumar Jangir			3	1.5	1	2	2	3	3	1.5	1	13	12	18	16	20
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151	Reena Kumari			2	3	2	2	2	2	2	1	1	16	15	16	6	0
152	Ritu Nehara			2	1.5	3	2	1	1	1.5	2	2	16	25	16	14	16
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158	Sapna Rola			1	1.5	3	3	1	2	3	2	1.5	8	8	8	8	8
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161	Sunita Kumar			2	2	1.5	2	2	1	2			16	16	16	16	16
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**Satyendra
Singh**

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167	Vibhanshu Jagrat		1.5	2.5	2	1	2	1	1	1	2	16	12	14	13	20
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170	Yogita		2	1	2	1	3	1.5	1	1	1	13	16	16	12	18
Students Achieved the Threshold level			124	117	117	133	113	125	123	119	121	133	123	150	125	137
Total No. of Students			170	170	170	170	170	170	170	170	170	170	170	170	170	170
% Students Achieved the Threshold level			72.94	68.82	68.82	78.24	66.47	73.53	72.35	70.00	71.18	78.24	72.35	88.24	73.53	80.59
CO Level																
* 50-60%, Level 1	0-74%, Level 2	* >74%, Level 3	Level 2	Level 2	Level 2	Level 3	Level 2	Level 2	Level 2	Level 2	Level 2	Level 3	Level 2	Level 3	Level 2	Level 3



Satyendra
Singh

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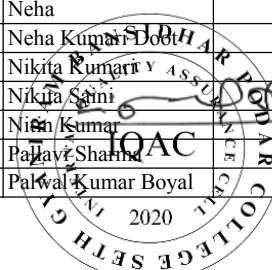


Analysis of Internal Assessment B.Sc.Chemistry 2022-23

Program Name :- B.Sc.Chemistry																
CourseName:- B.Sc. II Physical Chemistry																
S.No.	Name of Student	Blooms Taxonomy Level	First Term Test			Second Term Test			Third Term Test			Pre- University Exam				
			1	2	3	1	2	3	1	2	3	1	2	3	4	5
		CO	CO1	CO2	CO2	CO3	CO3	CO4	CO1	CO3	CO4	CO1	CO2	CO3	CO4	CO5
		Max Marks	3	3	4	3	3	4	3	3	4	20	20	20	20	20
		50% Marks														
1	Abdul Ahad Khatri		2	1	2	3	2	2	1.5	2	3	8	16	12	16	13
2	Aditya Dhaka		3	2	1.5	1	3	1.5	1	2	3	16	13	16	0	20
3	Aditya Saini		3	2	2	2	1	2	1	2	2	16	12	14	13	0
4	Aman Jagrawal		1	2	1	2	2	2	1.5	1	2	15	11	16	16	8
5	Anisha		2	2	2.5	2	3	1	2	1	2	13	12	18	16	8
6	Anjali Jakhar		2	2	2	1.5	1	2				13	16	15	12	8
7	Anjali Verma		3	2	2.5	2	3	1	2	2	1	13	16	14	16	0
8	Ankit Kumar		3	2	2	2	2	2	2	2.5	1	16	0	12	16	0
9	Ankit Kumar		3	1.5	2.5	1	1	1	3	2	2.5	8	9	10	8	13
10	Ankit Kumar Buri		1	2	2	1.5	2	2	2	1	1	13	16	19	8	16
11	Ankita Jangir		1	2	1	1.5	3	1	2	1	1	0	8	4	8	13
12	Anuj Kumar		3	2	3	2	1	2	1.5	2	2	16	12	14	0	12
13	Anuj Saini		2	2	1.5	2	1	2	1	1.5	2	12	15	0	16	8
14	Anupriya		3	1	3		2	2	2	1	1	16	14	14	8	8
15	Ashish Saini		1	1.5		3	3	1	2	2	2	16	12	0	12	16
16	Ashish Sankhala		3	2	2	3	1	1.5	1.5	2	1	13	16	18	16	12
17	Avinash Jangir		3	1	1	2	2	1.5	2	2	2	8	0	16	16	20
18	Babita Kumari		1	2	1	2	1	2	3	2	1.5	13	12	13	13	14
19	Chanchal Chawala		2	1.5	2	1	2	2		2	1.5	12	8	0	16	14
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21	Darshan Jangir		3	2	1	2	2	1.5	2	1	1	13	16	16	13	16
22	Dimpal		3	2	1	1.5	3	2	1.5	2	2	12	12	18	16	16
23	Divyansh Saini		1	2	1	1.5	1	1.5	1	1.5	2	13	16	16	8	8
24	Gunjan Kanwar		2	1.5	2	3	1	2	2	1	1	16	13	12	8	12
25	Indu Kumari		2	2	2	3	3	2	2	2	2	8	16	12	16	12
26	Jangid Arti Shaktidhar		3	2	1	2	1.5	1				16	12	14	13	12
27	Jayati Chandra		3	1	2	1	3	1	2	1	2	12	16	0	8	16
28	Jedy Tanwar		3	1.5	1	2		1		2	1	16	13	12	12	12
29	Jignesh		3	1.5	2	2	3		3	1.5	1	13	16	8	12	16
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31	Jyoti Chawla		3	2	1.5	3	3	2	3	1	3	8	12	13	12	13
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37	Mamta Kumari Meena		3	1	1	2	2.5	1	2	2	3	13	8	16	12	8
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40	Ms Anju		2	1.5	2.5	2	1	1.5				15	14	0	13	16
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42	Ms. Sagufa Khatri		3	2	1	2	2	2	1	2	1	13	16	14	13	16
43	Muskan Saini		1	2	1		1	2	2	2	2	12	12	18	16	16
44	Muskan Shekh		2	1.5	2	3	2	2	2	3	3	13	16	16	8	8
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51	Pajav Sharma		2	2	2	3	1	2				16	16	16	13	16
52	Palwal Kumar Boyal		3	3	1	3		2				16	16	16	13	16

Satyendra Singh

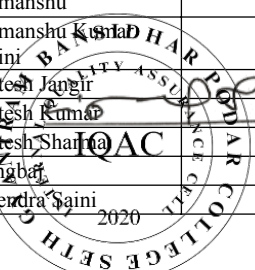
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Satyendra Singh

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130	Mohit Buri			3	2	2	2	3	1	2	3	16	13	15	16	12	
131	Mohit Soni		1	2	3	2	2	2	3	3	1	16	16	16	12	14	
132	Monika Jakhar		3	1.5	2	2	1	2	2.5	3	3	13	13	13	16	14	
133	Ms. Kavita Kumari		1	1	1	2	1.5	2	2	1	1.5	16	12	15	16	16	
134	Nidhi Jakhar		2	1	2	1.5	2	2	2.5	2	1.5	12	13	16	8	12	
135	Nidhi Saini		2	2	1	2	3	3	2	2	1.5	16	15	16	0	8	
136	Nikita Saini		2	1	1	2	2	1	1.5	1	2	13	8	12	0	12	
137	Nisha Choudhary		1	2	2	1	3	1	2	2	3	16	8	12	16	20	
138	Nisha Saini					3	1	2	1	2	2	16	12	14	16	20	
139	Omendra Kumar Jangir		2	2	1	2	2	3	2	2.5	2	8	16	12	15	16	
140	Pankaj Joya		2	1	2	2	2	2	2	2	2	8	0	16	8	12	
141	Pankaj Kumar Panwar		1	2	3	2	1	2		2	2	12	16	14	13	13	
142	Pankaj Kumar Saini		3	1.5	2	2	1.5	1	1.5	2	3	16	15	16	6	0	
143	Parwat Singh		1	1	1	2	1	2	1	2	3	16	0	16	14	16	
144	Piyush Bhargav		2	1	2	1	2	2	1	2	2	10	8	12	16	16	
145	Poonam		2	2	1		2	2	1.5	3	2	16	8	12	8	12	
146	Pramveer Singh		2	1	1	2	1.5	1.5	2	2	2	12	16	14	16	14	
147	Preeti Kumawat		1	2	2	1	2	2	2	2	3	16	13	15	8	12	
148	Rahul		3	1.5	1	1	3	2	2	2.5	2	16	8	12	16	16	
149	Rajveer Singh		2	3	2	1	2	2	3	2	2.5	8	8	8	8	8	
150	Ravi Poonia		2	1.5	3	2	2	3	2	1	1	16	12	14	16	20	
151	Reena Kumari		2		3	1	1	2	2	1	1	8	16	12	15	16	
152	Ritu Nehara		1	2	1.5	3	1	2	1.5	2	3	8	16	12	8	16	
153	Rohit		2	1	1	1.5	2	2	3	2	3	16	16	16	12	6	
154	Ronak Jangir		1	3	2	1	3	2	1.5	2	3	8	13	16	16	16	
155	Ronak Kumar		2	3	2	2	1	2	1	2	3	12	16	14	8	12	
156	Sandeep Baroriya		1	1.5	3	2	3	1	1.5	3	1	16	12	16	16	15	
157	Sandeep Meena		1.5	1	2	2	1	2	3	1	2	16	16	16	12	14	
158	Sapna Rolan			3	2	2.5	2	2.5	1.5	2	3	16	8	12	12	14	
159	Satyaveer Singh		1	2	3			2	1	3	3	16	8	12	16	16	
160	Shekhar Saini		3	1.5	2	2	3	3	2	3	2	12	16	14	16	16	
161	Sumit Kumar		1	1	1	2	2	2	1.5	2	3	16	8	12	13	16	
162	Sunil Kumar		2	1	2	2	2	2	1.2	2	1	2	16	16	16	16	16
163	Sunil Kumar Saini		2	2	1	2	2	2	2	1	2	8	8	8	20	8	
164	Tanushree Saini		2	1	1	1	2	1.5	2	1	3	12	16	14	0	12	
165	Tejpal		1	2	2	1	1	2	2	2	3	12	8	10	13	16	
166	Vasudev		3	1.5	1	1	1	2	2	2	2	16	12	15	16	8	
167	Vibhanshu Jagrat		2	3	2	2	2	2	1.5	3	2	16	13	16	8	16	
168	Vikas Choudhary		3	3	1	1	2	3	2	2	2	13	16	17	12	12	
169	Vineet Jangir		2		3	1.5	1	2	3	2	1.5	12	8	10	13	12	
170	Yogita		3	2	3	2	2	2	2	2	1.5	12	12	12	12	16	
Students Achieved the Threshold level			122	125	114	130	110	131	125	127	133	140	130	149	128	141	
Total No. of Students			170	170	170	170	170	170	170	170	170	170	170	170	170	170	
% Students Achieved the Threshold level			71.76	73.53	67.06	76.47	64.71	77.06	73.53	74.71	78.24	82.35	76.47	87.65	75.29	82.94	
CO Level																	
* 50-60%, Level 1	*60-74%, Level 2	* >74%, Level 3	Level 2	Level 2	Level 2	Level 3	Level 2	Level 3	Level 2	Level 3	Level 3	Level 3	Level 3	Level 3	Level 3	Level 3	



Satyendra
Singh

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Department of Chemistry
 Calculation of Attainment of CO's through Internal Assessment
 Name of Program:- B.Sc. Chemistry
 Name of Course:- B.Sc. Part I Inorganic Chemistry
 Session 2022-23

	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment		Weightage Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment		
CO1	2			3	2	2.3	3	2.5	2.8
CO2	3				3	3	3	3	
CO3			3	3	2	2.7	3	2.7	
CO4		3			3	3	3	3	
CO5			3	3	3	3	3	3	

Programme Outcome Attainment Levels

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO1	1	....	....	....	....	....	....	1	....	....	....	....	....	....
CO2	2	2	....	....	....	....	....	2	2	....	....	....	....	....
CO3	2	2	....	....	....	....	....	2	2	....	....	....	....	....
CO4	3	3	....	....	....	....	....	3	3	....	....	....	....	....
CO5	2	2	....	....	....	....	....	2	2	....	....	....	....	....
Average	2	2.25	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	2	2.25	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Attainment	1.9	2.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.9	2.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Name of Program:- B.Sc. Chemistry
 Name of Course:- B.Sc. Part I Organic Chemistry
 Session 2022-23

	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment		Weightage Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment		
CO1	3			3	3	3	3	3	2.8
CO2	3				2	2.5	3	2.6	
CO3			2	3	3	2.7	3	2.7	
CO4			3		2	2.5	3	2.6	
CO5				3	3	3	3	3	

Programme Outcome Attainment Levels

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO1	1	....	....	....	....	....	....	1	....	....	....	....	....	....
CO2	2	2	....	....	....	....	....	2	2	....	....	....	....	....
CO3	2	2	....	....	....	....	....	....	....	....	....	....	....	....
CO4	3	3	....	....	....	....	....	....	....	....	....	....	....	....
CO5	3	3	....	....	....	....	....	....	....	....	....	....	....	....
Average	2.2	2.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.5	2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Attainment	2.1	2.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.4	1.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Name of Program:- B.Sc. Chemistry
 Name of Course:- B.Sc. Part I Physical Chemistry
 Session 2022-23

	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment		Weightage Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment		
CO1	3				3	3	3	3	2.7
CO2	2	3		2	2	2.3	3	2.4	
CO3			2	3	3	2.7	3	2.7	
CO4		3			2	2.5	3	2.6	
CO5				3	3	3	3	3	

Programme Outcome Attainment Levels

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO1	2	2	...	...	...	...	...	2	2	...	...	...	...	...
CO2	2	3	3	...	...	2	...	2	2	...	...	...	...	...
CO3	1	...	...	...	...	...	...	1	2	...	...	...	...	...
CO4	1	...	...	...	...	...	...	1	2	...	...	...	...	...
CO5	3	2	3	...	...	...	...	3	3	...	...	...	...	...
Average	1.8	2.33333333	3	#DIV/0!	#DIV/0!	2	#DIV/0!	1.8	2.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Attainment	1.6	2.1	2.7	#DIV/0!	#DIV/0!	1.8	#DIV/0!	1.6	2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Name of Program:- B.Sc. Chemistry
 Name of Course:- B.Sc. Part II Inorganic Chemistry
 Session 2022-23

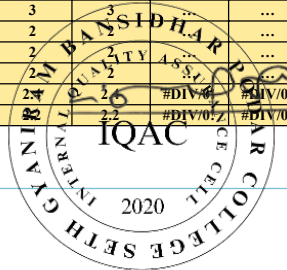
	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment		Weightage Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment		
CO1	2				2	2	3	2.2	2.7
CO2	2			3	3	2.7	3	2.7	
CO3			2	3	3	2.7	3	2.7	
CO4		3		2	3	2.7	3	2.7	
CO5				3	3	3	3	3	

Programme Outcome Attainment Levels

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO1	3	3	...	...	...	...	...	3	3	...	...	...	...	...
CO2	3		...	...	...	...	...	3	3	...	...	...	...	...
CO3	2		...	...	...	...	...	2	2	...	...	...	...	...
CO4	2		...	...	...	...	...	2	2	...	...	...	...	...
CO5	2		...	...	...	...	...	2	2	...	...	...	...	...
Average	2.2	2.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	2.4	2.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Attainment	2.2	2.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	2.2	2.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Name of Program:- B.Sc. Chemistry
 Name of Course:- B.Sc. Part II Organic Chemistry
 Session 2022-23

	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment		Weightage Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment		
CO1	2				2	2	3	2.2	2.7
CO2	2			3	3	2.7	3	2.7	
CO3			2	3	3	2.7	3	2.7	
CO4		3		2	3	2.7	3	2.7	
CO5				3	3	3	3	3	



Satyendra
Singh

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	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment	Weightage Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment	
CO1	2		2	2	2		2.2	2.2
CO2	2			2	2		2.2	
CO3		3	2	1	2		2.2	
CO4		2	2	2	2		2.2	
CO5				2	2		2.2	

Programme Outcome Attainment Levels														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO1	2	2	2	...	...	...	...	2	2	...	...	...	...	...
CO2	2	2	...	...	...	...	...	2	2	2	...	...	...	...
CO3	2	2	...	...	...	...	...	2	2	2	...	...	...	...
CO4	2	2	...	...	...	...	...	2	2	2	...	...	...	...
CO5	2	2	...	...	...	...	...	2	2	2	...	...	...	...
Average	2	2	2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	2	2	2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Attainment	1.5	1.5	1.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.5	1.5	1.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Name of Program:- B.Sc. Chemistry
Name of Course:- B.Sc. Part II Physical Chemistry
Session 2022-23

	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment	Weightage Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment	
CO1	1		2	1	1.3		1.7	1.9
CO2	2			2	2		2.2	
CO3		2	1	3	2		2.2	
CO4		3	1	1	1.7		1.9	
CO5				1	1		1.4	

Programme Outcome Attainment Levels														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO1	2	2	...	...	...	...	...	2	2	...	...	...	...	...
CO2	2	2	3	...	...	...	...	2	2	3	...	...	...	...
CO3	2	2	...	...	...	...	...	2	3	...	...	...	...	...
CO4	2	2	3	...	...	...	...	2	3	3	...	...	...	...
CO5	2	2	...	...	...	...	...	2	2	...	...	...	...	...
Average	2	2	3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	2	2.4	3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Attainment	1.3	1.3	1.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.3	1.5	1.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Name of Program:- B.Sc. Chemistry
Name of Course:- B.Sc. Part III Inorganic Chemistry
Session 2022-23

	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment	Weightage Average
	First Term Test	Second Term Test	80% of Direct and 20% of Indirect Attainment	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment	
CO1	2		2	3	2.3		2.5	2.5
CO2	2			2	2		2.2	
CO3		2	2	3	2.3		2.5	
CO4		2	2	2	2		2.2	
CO5				3	3		3	

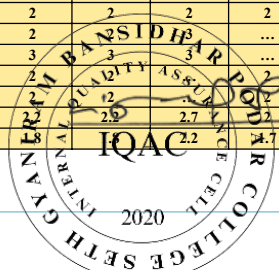
Programme Outcome Attainment Levels														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO1	2	2	...	2	...	...	...	2	...	...	...	...	...	...
CO2	3	3	3	2	...	...	...	3	3	...	...	...	...	...
CO3	2	2	2	...	...	...	...	2	2	...	...	...	...	...
CO4	3	3	3	...	...	...	...	3	3	...	...	...	...	...
CO5	2	2	3	2	...	...	...	3	3	...	...	...	...	...
Average	2.4	2.4	2.75	2	#DIV/0!	#DIV/0!	#DIV/0!	2.6	2.75	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Attainment	2	2	2.3	1.7	#DIV/0!	#DIV/0!	#DIV/0!	2.2	2.3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Name of Program:- B.Sc. Chemistry
Name of Course:- B.Sc. Part III Organic Chemistry
Session 2022-23

	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment	Weightage Average
	First Term Test	Second Term Test	80% of Direct and 20% of Indirect Attainment	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment	
CO1	2		2	3	2.3		2.5	2.5
CO2	2			2	2		2.2	
CO3		2	2	3	2.3		2.5	
CO4		2	2	2	2		2.2	
CO5				3	3		3	

Programme Outcome Attainment Levels														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO1	2	2	2	2	...	...	...	2	2	2	...	...	...	...
CO2	2	2	...	...	...	...	...	2	2	3	...	...	...	...
CO3	3	3	...	...	...	...	...	3	3	3	...	...	...	...
CO4	2	2	...	...	...	...	...	2	2	3	...	...	...	...
CO5	2	2	...	...	...	...	...	2	2	3	...	...	...	...
Average	2.2	2.2	2.7	2	#DIV/0!	#DIV/0!	#DIV/0!	2.2	2.2	2.4	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Attainment	1.8	1.8	2.2	1.7	#DIV/0!	#DIV/0!	#DIV/0!	1.8	1.8	2.2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Name of Program:- B.Sc. Chemistry
Name of Course:- B.Sc. Part III Physical Chemistry
Session 2022-23

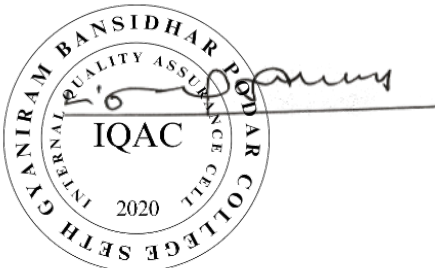


Satyendra Singh

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	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment	Weightage Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment	
CO1	2		2	3	2.3		3	2.5
CO2	2			3	2.5		3	2.6
CO3		2	3	3	2.7		3	2.7
CO4		3	3	3	3		3	3
CO5				3	3		3	3

Programme Outcome Attainment Levels														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO1	2	2	...	...	2	...	...	2	2	...	...	...	...	...
CO2	3	3	3	...	...	...	...	3	3	3	...	...	...	...
CO3	2	2	...	...	...	...	...	2	2	...	...	...	...	...
CO4	2	2	...	...	...	...	...	2	2	...	...	...	...	...
CO5	3	3	3	...	3	...	...	3	3	3	...	...	...	...
Average	2.4	2.4	3	#DIV/0!	2.5	#DIV/0!	#DIV/0!	2.4	2.4	3	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Attainment	2.2	2.2	2.8	#DIV/0!	2.3	#DIV/0!	#DIV/0!	2.2	2.2	2.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!



Satyendra
Singh

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Department of Chemistry
Calculation of Attainment of CO's through Internal Assessment
Name of Program:- M.Sc. Chemistry
Name of Course:- M.Sc.(P)Chem. Inorganic
Session 2022-23

M.Sc.(P)Chem. Inorganic	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment	Weightage Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment	
CO1	2		3	3	2.7	3	2.7	2.9
CO2	3			3	3	3	3	
CO3		3	3	3	3	3	3	
CO4		3	3	3	3	3	3	
CO5				3	3	3	3	

Program Outcome Attainment Levels										
CO	PO1	PO2	PO3	PSO1	PSO2	PSO3	PEO1	PEO2	PEO3	PEO4
CO1	2		3	2		3	2	2	2	
CO2	3		2	2	2	3	3	2	3	
CO3	3		2	2	2	3	2	2	3	
CO4	3		3	2	2	3	2	2	3	3
CO5	3		3	2	2	3	2	2	3	3
Average	2.8	#DIV/0!	2.6	2	2	3	2.2	2	2.8	3
Attainment	2.7	#DIV/0!	2.5	1.9	1.9	2.9	2.1	1.9	2.7	2.9

Name of Program:- M.Sc. Chemistry
Name of Course:- M.Sc.(P)Chem. Organic
Session 2022-23

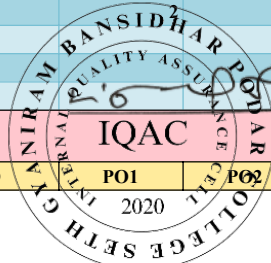
M.Sc.(P)Chem. Organic	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment	Weightage Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment	
CO1	2		3	3	2.7	3	2.7	2.9
CO2	2			3	2.5	3	2.6	
CO3		3	3	3	3	3	3	
CO4		3	3	3	3	3	3	
CO5				3	3	3	3	

Program Outcome Attainment Levels											
CO	PO1	PO2	PO3	PSO1	PSO2	PSO3	PEO1	PEO2	PEO3	PEO4	PEO5
CO1	2		3	2		3	2	2	3		
CO2	2		3	2	2	3	2	2	3		
CO3	2		3	2	2	3	2	2	3	2	
CO4	3		3	2	2	3	2	2	3	3	
CO5	2		3	2	2	3	2	2	3	2	
Average	2.2	#DIV/0!	3	2	2	3	2	2	3	2.3	#DIV/0!
Attainment	2.1	#DIV/0!	2.9	1.9	1.9	2.9	1.9	1.9	2.9	2.3	#DIV/0!

Name of Program:- M.Sc. Chemistry
Name of Course:- M.Sc.(P)Chem. Physical
Session 2022-23

M.Sc.(P)Chem. Physical	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment	Weightage Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment	
CO1	3		3	2	2.7	3	2.7	2.9
CO2				3	2.5	3	2.6	
CO3		3	3	3	3	3	3	
CO4			3	3	3	3	3	
CO5				3	3	3	3	

Program Outcome Attainment Levels										
CO	PO1	PO2	PO3	PSO1	PSO2	PSO3	PEO1	PEO2	PEO3	PEO4
CO1	3		3	2		3	2	2	3	
CO2				3		3	2	2	3	
CO3		3	3	3		3	2	2	3	
CO4			3	3		3	2	2	3	
CO5				3		3	2	2	3	
Average	2.2	#DIV/0!	3	2	2	3	2	2	3	2.3
Attainment	2.1	#DIV/0!	2.9	1.9	1.9	2.9	1.9	1.9	2.9	2.3



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CO1	2	3		2		3	2	2	3	
CO2	2	3		2		3	2	2	3	3
CO3	2		3	2	2	3	2	2	3	3
CO4	3	2	3	2	2	3	2	2	3	2
CO5	2	2	3	2		3	2	2	3	3
Average	2.2	2.5	3	2	2	3	2	2	3	2.8
Attainment	2.1	2.4	2.9	1.9	1.9	2.9	1.9	1.9	2.9	2.7

Name of Program:- M.Sc. Chemistry
Name of Course:- M.Sc.(P)Chem. Spectroscopy
Session 2022-23

M.Sc.(P)Chem. Spectroscopy	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment	Weightage Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment	
CO1	2		3	3	2.7	3	2.7	2.9
CO2	2			3	2.5	3	2.6	
CO3			3	3	3	3	3	
CO4			3	3	3	3	3	
CO5				3	3	3	3	

Programme Outcome Attainment Levels

CO	PO1	PO2	PO3	PSO1	PSO2	PSO3	PEO1	PEO2	PEO3	PEO4
CO1	2		3	2		3	2	2	3	
CO2	3		3	2	2	3	2	2	3	2
CO3	3		3	2	2	3	2	2	3	3
CO4	3		3	2	2	3	2	2	3	3
CO5	3		3	2	2	3	2	2	3	3
Average	2.8	#DIV/0!	3	2	2	3	2	2	3	2.8
Attainment	2.7	#DIV/0!	2.9	1.9	1.9	2.9	1.9	1.9	2.9	2.7

Name of Program:- M.Sc. Chemistry
Name of Course:- M.Sc.(P)Chem. Green
Session 2022-23

M.Sc.(P)Chem. Green	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment	Weightage Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment	
CO1	3		3	3	3	3	3	2.9
CO2	2			3	2.5	3	2.6	
CO3			3	3	3	3	3	
CO4			3	3	3	3	3	
CO5				3	3	3	3	

Programme Outcome Attainment Levels

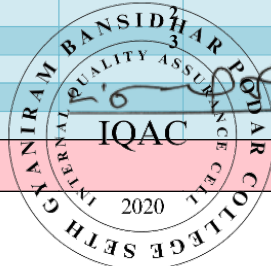
CO	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PEO1	PEO2	PEO3
CO1	2	2	3	2	2	3	2	2	3	2
CO2		2	3	2	2	3	2	2	3	3
CO3	3	3	3	2	2	3	2	2	3	3
CO4	3	2	3	2	2	3	2	2	3	3
CO5	3	2	3	2	2	3	2	2	3	3
Average	2.8	2.2	3	2	2	3	2	2	3	2.8
Attainment	2.7	2.1	2.9	1.9	1.9	2.9	1.9	1.9	2.9	2.7

Name of Program:- M.Sc. Chemistry
Name of Course:- M.Sc.(P)Chem. Analytical
Session 2022-23

M.Sc.(P)Chem. Analytical	Final Direct Course Attainment Calculation					Indirect Course Attainment Calculation	Final Attainment	Weightage Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exam.	Average	Average (From Survey)	80% of Direct and 20% of Indirect Attainment	
CO1			3	3	2.7	3	2.7	2.9
CO2				3	3	3	3	
CO3			3	3	3	3	3	
CO4			3	3	3	3	3	
CO5				3	3	3	3	

Programme Outcome Attainment Levels

CO	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PEO1	PEO2	PEO3
CO1	2	2	3	2	2	3	2	2	3	2
CO2		2	3	2	2	3	2	2	3	3
CO3	3	3	3	2	2	3	2	2	3	3
CO4	3	2	3	2	2	3	2	2	3	3
CO5	3	2	3	2	2	3	2	2	3	3
Average	2.8	2.2	3	2	2	3	2	2	3	2.8
Attainment	2.7	2.1	2.9	1.9	1.9	2.9	1.9	1.9	2.9	2.7



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CO	PO1	PO2	PO3	PSO1	PSO2	PSO3	PEO1	PEO2	PEO3	PEO4
CO1	3	3	3	2	2	3	2	2	3	3
CO2	3	3	3	2	2	3	2	2	3	3
CO3	3	3	3	2	2	3	2	2	3	
CO4	3	2	3	2	2	3	2	2	3	3
CO5	2	2	2	2	2	3	2	2	3	
Average	2.8	2.6	2.8	2	2	3	2	2	3	3
Attainment	2.7	2.5	2.7	1.9	1.9	2.9	1.9	1.9	2.9	2.9

Name of Program:- M.Sc. Chemistry
Name of Course:-M.Sc.(F)Chem.App.of Spectro.Solid state
Session 2022-23

em.App.of Spectr	Final Direct Course Attainment Calculation					Average	Indirect Course Attainment Average (From 80% of Direct)	Final Attainment (80% of Direct + Indirect)	Weightage	Average
	First Term Test	Second Term Test	Third Term Test	Pre University	University Exam					
CO1	3			3	3	3	3	3		
CO2	3				3	3	3	3		
CO3			3	3	3	3	3	3		
CO4			2	3	2	2.3	3	2.5		
CO5					2	2	3	2.2		2.7

Program Outcome Attainment Levels

CO	PO1	PO2	PO3	PSO1	PSO2	PSO3	PEO1	PEO2	PEO3	PEO4
CO1	3		3	2	2	3	2	2	3	3
CO2	3	3	3	2	2	2	2	2	3	3
CO3	3		3	2	2	3	2	2	3	3
CO4	3		3	2	2	3	2	2	3	3
CO5	3		3	2	2	3	2	2	3	3
Average	3	3	3	2	2	2.8	2	2	3	3
Attainment	2.7	2.7	2.7	1.8	1.8	2.5	1.8	1.8	2.7	2.7

Name of Program:- M.Sc. Chemistry
Name of Course:-M.Sc.(F)Chem.Bio.Inrg.Boi.Org. Bio Physical
Session 2022-23

Bio.Inrg.Boi.Org	Final Direct Course Attainment Calculation					Average	Indirect Course Attainment Average (From 80% of Direct)	Final Attainment (80% of Direct + Indirect)	Weightage	Average
	First Term Test	Second Term Test	Third Term Test	Pre University	University Exam					
CO1	3			3	3	3	3	3		
CO2	3				3	3	3	3		
CO3			3	3	2	2.7	3	2.7		
CO4			2	3	3	2.7	3	2.7		
CO5					2	2	3	2.2		2.7

Program Outcome Attainment Levels

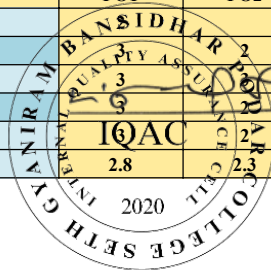
CO	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PEO1	PEO2
CO1	2		3	2	2	3	2	2	3
CO2	3	2		2	2	3	2	2	3
CO3	2		3	2	2	3	2	2	3
CO4	3		3	2	2	3	2	2	3
CO5	3		3	2	2	3	2	2	3
Average	2.6	2	3	2	2	3	2	2	3
Attainment	2.3	1.8	2.7	1.8	1.8	2.7	1.8	1.8	2.7

Name of Program:- M.Sc. Chemistry
Name of Course:-M.Sc.(F)Chem.Environmental Chemistry
Session 2022-23

em.Environmental	Final Direct Course Attainment Calculation					Average	Indirect Course Attainment Average (From 80% of Direct)	Final Attainment (80% of Direct + Indirect)	Weightage	Average
	First Term Test	Second Term Test	Third Term Test	Pre University	University Exam					
CO1	3			3	3	3	3	3		
CO2	3				3	3	3	3		
CO3			3	3	3	3	3	3		
CO4			2	3	3	2.7	3	2.7		
CO5					2	2	3	2.2		2.8

Program Outcome Attainment Levels

CO	PO1	PO2	PO3	PSO1	PSO2	PSO3	PSO4	PEO1	PEO2	PEO3
CO1	3		3	2	2	3	2	2	3	
CO2	3			2	2	3	2	2	3	
CO3	3		3	2	2	3	2	2	3	3
CO4	3		3	2	2	3	2	2	3	
CO5	3		2	2	2	3	2	2	3	
Average	2.8		2.3	2	2	3	2	2	3	2.7



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Attainment	2.6	2.1	2.6	1.9	1.9	2.8	1.9	1.9	2.8	2.5
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Name of Program:- M.Sc. Chemistry
Name of Course:-M.Sc.(F)Chem. Organic Synt-1
Session 2022-23

F)Chem. Organic	Final Direct Course Attainment Calculation					Indirect Course Attainment Average (From Surveys)	Final Attainment (80% of Direct + 20% of Indirect)	Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exams	Average			
CO1	3		3	3	3	3	3	2.9
CO2	3			3	3	3	3	
CO3		3	3	3	3	3	3	
CO4		2	3	3	2.7	3	2.7	
CO5				3	3	3	3	

Program Outcome Attainment Levels

CO	PO1	PO2	PO3	PSO1	PSO2	PSO3	PEO1	PEO2	PEO3	PEO4
CO1	3	3	3	2	3	2	2	2	2	
CO2	3	3	3	2	3	3	2	3		
CO3	3	3	3	2	3	2	2	3		
CO4	3	3	3	2	3	2	2	3	3	
CO5	2	3		2	2	3	2	2	3	3
Average	2.8	3	3	2	2.8	2.4	2	2.6	2.7	3
Attainment	2.7	2.9	2.9	1.9	2.7	2.3	1.9	2.5	2.6	2.9

Name of Program:- M.Sc. Chemistry
Name of Course:-M.Sc.(F)Chem. Organic Synt II
Session 2022-23

F)Chem. Organic	Final Direct Course Attainment Calculation					Indirect Course Attainment Average (From Surveys)	Final Attainment (80% of Direct + 20% of Indirect)	Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exams	Average			
CO1	3		3	3	3	3	3	2.9
CO2	3			3	3	3	3	
CO3		3	3	3	3	3	3	
CO4		2	3	3	2.7	3	2.7	
CO5				3	3	3	3	

Program Outcome Attainment Levels

CO	PO1	PO2	PO3	PSO1	PSO2	PSO3	PEO1	PEO2	PEO3	PEO4
CO1	3	3	2	3	3	2	3	3	2	1
CO2	2	2	3	2	3	2	3	3	2	1
CO3	2	3	3	2	3	2	3	3	2	1
CO4	3	3	2	3	3	2	3	3	2	1
CO5	2	3	3	2	3	2	2	3	3	1
Average	2.4	2.8	2.6	2.4	3	2	2.8	3	2.2	1
Attainment	2.3	2.7	2.5	2.3	2.9	1.9	2.7	2.9	2.1	1

Name of Program:- M.Sc. Chemistry
Name of Course:-M.Sc.(F)Chem. Heterocyclic
Session 2022-23

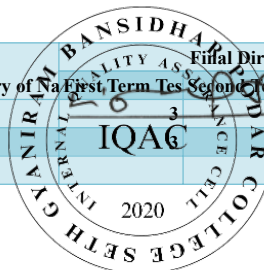
F)Chem. Heterocyclic	Final Direct Course Attainment Calculation					Indirect Course Attainment Average (From Surveys)	Final Attainment (80% of Direct + 20% of Indirect)	Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exams	Average			
CO1	3		3	3	3	3	3	2.9
CO2	3			3	3	3	3	
CO3		3	3	3	3	3	3	
CO4		2	3	3	2.7	3	2.7	
CO5				3	3	3	3	

Program Outcome Attainment Levels

CO	PO1	PO2	PO3	PSO1	PSO2	PEO1	PEO2	PEO3
CO1	2	2	1	2	2	3	2	1
CO2	2	3	2	2	2	2	3	1
CO3	2	2	1	2	2	3	2	1
CO4	2	2	3	2	2	2	3	1
CO5	2	2	3	2	2	2	2	2
Average	2	2.2	2	2	2	2.4	2.4	1.2
Attainment	1.9	2.1	1.9	1.9	1.9	2.3	2.3	1.2

Name of Program:- M.Sc. Chemistry
Name of Course:-M.Sc.(F)Chem. Chemistry of Natural Products
Session 2022-23

F)Chem. Chemistry of Natural Products	Final Direct Course Attainment Calculation					Indirect Course Attainment Average (From Surveys)	Final Attainment (80% of Direct + 20% of Indirect)	Average
	First Term Test	Second Term Test	Third Term Test	Pre University Exams	Average			
CO1	3		3	3	3	3	3	2.9
CO2	3			3	3	3	3	
CO3		3	3	3	3	3	3	



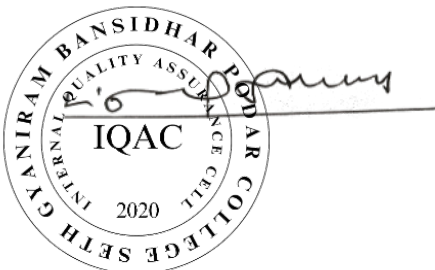
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CO4		2	3	3	2.7	3	2.7	2.8
CO5				2	2	3	2.2	

Program Outcome Attainment Levels

CO	PO1	PO2	PO3	PSO1	PSO2	PSO3	PEO1	PEO2	PEO3	PEO4
CO1	2	2	2	2	2	2	1	3	3	2
CO2	2	1	3	2	2	2	2	2	3	1
CO3	2	2	3	2	2	2	2	2	3	1
CO4	2	2	3	2	2	2	2	2	3	1
CO5	2	1	2	2	2	2	1	2	3	2
Average	2	1.6	2.6	2	2	2	1.6	2.2	3	1.4
Attainment	1.9	1.5	2.4	1.9	1.9	1.9	1.5	2.1	2.8	1.3



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