

**MINUTES
OF 24th MEETING OF
THE BOARD OF STUDIES
HELD ON
June 03, 2025**



**DEPARTMENT OF CHEMISTRY
HAZARA UNIVERSITY**

Phone No. 0997-414136



HAZARA UNIVERSITY, MANSEHRA
DEPARTMENT OF CHEMISTRY

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24th Meeting of Board of Studies was held, in Conference Room of Chemistry Department, on June 03, 2025, at 10:00 AM. The meeting was chaired by Chairperson, Prof. Dr. Nadia Bashir, Department of Chemistry, Hazara University. The following board members and faculty took part in the BoS meeting:

- | | |
|--|-----------------------------|
| 1) Professor Dr. Nadia Bashir
Department of Chemistry, Hazara University, Mansehra | (Chairperson/Convener) |
| 2) Professor Dr. Obaid Ur Rehman Abid
Department of Chemistry, Hazara University, Mansehra | (Member) |
| 3) Associate Professor Dr. Iram Bibi
Department of Chemistry, Hazara University, Mansehra | (Member) |
| 4) Associate Professor Dr. Farman Ali
Department of Chemistry, Hazara University, Mansehra | (Member) |
| 5) Prof. Dr. Momin Khan
Department of Chemistry, Abdul Wali Khan University, Mardan | (Member) |
| 6) Associate Professor Dr. Nasrullah Shah
Department of Chemistry, Abdul Wali Khan University, Mardan | (Member) |
| 7) Dr. Rasool Khan
Director ICS, University of Peshawar | (Member) |
| 8) Associate Professor Dr. Asad Muhammad Khan
Department of Chemistry, COMSATS, Abbottabad | (Member) |
| 9) Assistant Professor Dr. Abdur Rab
Department of Chemistry, Hazara University, Mansehra | (Secretary/ Coopted Member) |

The chair started the meeting with the name of Allah. She welcomed all the participants of the meeting.

The items discussed, as per agenda, during the meeting are provided in the following pages.

Dr. Abdur Rab
(Secretary)

Dr. Iram Bibi
(Member)

Chairperson
(Chemistry Deptt.)



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1. CONFIRMATION OF THE MINUTES OF 23rd MEETING OF BOARD OF STUDIES

23rd Meeting of the Board of Studies was held on 22nd June 2020, in the seminar hall of Department of Chemistry, Hazara University. The minutes of 23rd meeting of Board of Studies (see Annexure A) were circulated among the board members and all the concerned.

Discussion and Decision:

The Board of Studies unanimously approved the minutes of its 23rd meeting, convened on June 22, 2020, confirming the accuracy and completeness of the recorded deliberations and decisions.

2. Approval of Rules of Business of the Board of Studies Chemistry Department, Hazara University–2025

1. Short title and commencement

- a. These Rules may be called "Rules of Business of the Board of studies (BOS), Chemistry Department of Hazara University – 2025", framed under Hazara University Constitution, Functions and Powers of Authorities of the University Statutes, 2016.
- b. These rules shall come into force at once.

2. Definitions

- 2.1 In these rules unless there is anything repugnant to the subject or context
 - a. "Meeting" will mean the meeting of the BOS of Chemistry Department HU Mansehra.
 - b. "Member" will mean the member of the BOS.
 - c. "Quorum" will mean the quorum of the BOS laid down under statutes Hazara University Constitution, Functions and Powers of Authorities of the University Statutes, 2016.
 - d. The "Secretary" will mean the faculty member of Chemistry Department nominated by the Chairperson.



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- 1.2** All other expressions shall have the same meaning as assigned to them under Hazara University Constitution, Functions and Powers of Authorities of the University Statutes, 2016.

2. Ordinary meeting

- 3.1** The meeting of the BOS shall be held on dates; place of meeting and time as may be proposed by Chairperson and approved by the Registrar from time to time.
- 3.2** The quorum for meetings of the Board of Studies shall be one-half of the total number of members excluding non-existent categories, a fraction being counted as one.
- 3.3** The BOS shall meet as required.

4. Notice of a meeting

The chairperson shall, with the approval of the Registrar, prepare the agenda for a meeting of the BOS and notify the meeting at least one week before the date approved.

5. Circulation of agenda

The Seceretary shall circulate the agenda of the meeting and the relevant working papers/explanatory statements among the members by post or through a special messenger (Email, whatsapp) at least one week before the meeting

6. Supplementary agenda

If the occasion so demands, supplementary agenda may be issued by the secretary with the approval of the chairperson three days before the meeting.

7. Additional items of the agenda

A member of the BOS may, with the permission of the chairperson, propose an item to be considered at a meeting in addition to the items already on the agenda. For such an item, previous notice to the members of the BOS would not be considered necessary.



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8. Proposals by members

If a member has so desired, he may propose in writing the consideration of any item in a meeting at a notice of at least fifteen days before the anticipated meeting and send his proposal to the secretary. If the proposal is otherwise admissible, he may include the item in the agenda with the approval of the chairperson.

9. Special Meeting

A special meeting of the BOS may be called by the chairperson whenever in his /her opinion the occasion so demands. Agenda for such a meeting shall be circulated at three days' notice.

10. Emergency Meeting through video conference

An emergency online meeting of the BOS may be called by the chairperson whenever in his /her opinion the occasion so demands. Agenda for such a meeting shall be circulated at three days' notice.

11. The chairperson shall preside over the meeting of the BOS and determine speaking and conduct of business.

12. Procedure If Quorum is Not Available

If in a meeting, the quorum is not available, another meeting of the BOS may be called with the same agenda on next working day when the quorum is complete.

13. Decision by Majority Vote

Every matter under consideration in the meeting shall be decided by a simple majority of votes of members present by a voice vote, show of hand or under special circumstances, if so, decided by the chairperson, by secret ballot. In case of a tie, the Chairperson shall have the casting vote. Any decision arrived at shall not be vitiated simply because a vacancy has not been filled or because a member has not been correctly appointed.

14. Opinion By Circulation of Papers

The chairperson is authorized to send case/cases which are routine and not have controversial nature to the members by post for their opinion by circulation of



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relevant papers. In such cases the chairperson shall be authorized to take action according to the ultimate consensus of majority of opinion received.

15. Casting vote

In case of a tie in voting in a meeting, the chairperson shall have a casting vote in addition to the vote to be exercised by him/her as a member of the BOS.

16. Record of proceedings

- a. The Secretary of the BOS shall maintain the record of proceedings of the meeting of the BOS, and get it confirmed by the Chairperson as the Convener of the BOS. The Secretary among all the members of the BOS shall circulate copies of the proceedings so authenticated as early as possible.
- b. A member of the BOS shall be entitled to inspect, in the office during office hours, the proceedings of the BOS.

17. Communication of decisions

After the authentication of proceedings, confirmed minutes shall be forwarded to the Board of Faculty, Academic Council/University Authorities for approval and implementation.

- 18.** Any previous decision of the BOS shall ordinarily be reconsidered in any subsequent meeting of the BOS.

19. Delegation of powers to take a decision in a case

The BOS may delegate its authority to a special committee including the chairperson and at least one other member of BOS. When in the opinion of the BOS, a decision cannot be taken in a meeting for want of any data or further information to be collected, The BOS in such a case may lay down the general line of policy on which the decision may be taken by the Special Committee or the Chairperson on behalf of the BOS. Such a decision when taken shall be considered to be a regular decision of the BOS.

- 20.** The Secretary of the BOS may call for any additional information from any Section or Institute, which he may consider necessary for the completion of the case before it is submitted to the Chairperson or BOS for approval.



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21. These rules may be added, changed, or modified from time to time by the chairperson with the approval of relevant body.
22. The term of office of members of the Board of Studies other than ex-officio members shall be three years.
23. A member who has accepted any other assignment which necessitates his absence from the University for a period of six months or more or absents himself from two consecutive meetings without the leave of such authority, he/she shall be deemed to have resigned and vacated his seat.

Discussion and Decision:

The board, after a comprehensive and detailed discussion, recommended the rules of business of the BOS Chemistry Department, Hazara University 2025.

3. APPROVAL OF HEC REVISED CURRICULAM FOR CHEMISTRY ASSOCIATE DEGREE, BACHELOR OF SCIENCE AND MASTER OF SCIENCE-2025

Proposal is submitted for approval of HEC Revised Curriculum for Chemistry Associate Degree, Bachelor of Sciences and Master of Sciences-2025. Please see annexure (B).

Discussion & Decision:

The board after thorough review and consideration of the Revised HEC Curriculum for Chemistry Associate Degree, Bachelor of Science and Master of Science-2025, granted its formal recommendation for onward submission to Board of Faculty of Hazara University.

4. APPROVAL OF COURSE CONTENTS OF HEC REVISED CURRICULAM FOR CHEMISTRY ASSOCIATE DEGREE AND BACHELOR OF SCIENCE-2025

Proposal is submitted for approval of Course Contents of HEC Revised Curriculum for Chemistry Associate Degree, Bachelor of Science and Master of Science-2025. Please see annexure (C).



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Detail of Course Contents is given below:

S. No	Course Name	Credit Hours	Category	Designed By
1	Fundamentals of Chemistry	3(2-1)	Major	Dr. Rifhat Sultana/Ms. Sadia
02	Principal of Organic Chemistry	3(2-1)	Major	Dr. Waqar Hussain/Dr. Rifhat Sultana
03	Principal of Inorganic Chemistry	3(2-1)	Major	Dr. Saddiqa Begum
04	Principal of Physical Chemistry	3(2-1)	Major	Dr. Irum Bibi
05	Fuel Chemistry	3(2-1)	Major	Dr. Nadia Bashir/Dr. Saira Bibi
06	Principals of Analytical Chemistry	3(2-1)	Major	Dr. Nadia Bashir
07	Principals of Polymer Chemistry	3(2-1)	Major	Dr. Syed Waqar Hussain Shah
08	Introduction to Nano-Chemistry	3(2-1)	Major	Dr. Nadia Bashir/Dr. Syed Waqar Hussain Shah
09	Forensic Chemistry	3(2-1)	Major	Dr. Nadia Bashir
10	Pharmaceutical Chemistry	3(2-1)	Major	Dr. Nadia Bashir
11	Industrial Chemistry	3(2-1)	Major	Dr. Nadia Bashir/Dr. Irum Bibi
12	Environmental Chemistry	3(2-1)	Major	Dr. Nadia Bashir
13	Advanced Organic Chemistry	3(2-1)	Major	Dr. Fazal Rahim/Dr. Syed Waqar Hussain Shah
14	Advanced Inorganic Chemistry	3(2-1)	Major	Dr. Nadia Bashir/Dr. Irum Bibi/Dr. Saddiqa Begum
15	Advanced Physical Chemistry	3(2-1)	Major	Dr. Irum Bibi
16	Soil Chemistry	3(2-1)	Major	Dr. Nadia Bashir
17	Computational Chemistry	3(2-1)	Major	Dr. Masroor Bangesh



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18	Advanced Analytical Chemistry	3(2-1)	Major	Dr. Nadia Bashir
19	Agricultural Chemistry	3(2-1)	Major	Dr. Nadia Bashir
20	Scientific Writing & Research Method	3(3-0)	Interdisciplinary	Dr. Abdur Rab
21	Chemical Safety & Risk	3(3-0)	Major	Dr. Nadia Bashir
22	Quality Control & Assurance	3(2-1)	Interdisciplinary	Dr. Nadia Bashir
23	Artificial Intelligence in Chemistry	3(2-1)	Interdisciplinary	Dr. Fazal Rahim
24	Medicinal Chemistry	3(3-0)	Major	Dr. Syed Waqar Hussain Shah
25	Organometallic Chemistry	3(3-0)	Major	Dr. Syed Waqar Hussain Shah
26	Green Organic Synthesis	3(3-0)	Major	Dr. Syed Waqar Hussain Shah
27	Organic Electronics	3(3-0)	Major	Dr. Syed Waqar Hussain Shah
28	Stereochemistry	3(3-0)	Major	Dr. Syed Waqar Hussain Shah
29	Synthetic Organic Chemistry	3(3-0)	Major	Dr. Syed Waqar Hussain Shah
30	Organic Photochemistry	3(3-0)	Major	Dr. Syed Waqar Hussain Shah
31	Chemistry of Hetero-cyclic Compounds	3(3-0)	Major	Dr. Obaid Ur Rehman Abid
32	Spectroscopic Methods in Organic Chemistry	3(3-0)	Major	Dr. Obaid Ur Rehman Abid
33	Reactive Intermediates	3(3-0)	Major	Dr. Obaid Ur Rehman Abid
34	Thermodynamics of Solution	3(3-0)	Major	Dr. Irum Bibi
35	Photochemistry	3(3-0)	Major	Dr. Zarshad Ali
36	Chemical Kinetics & Dynamics	3(3-0)	Major	Dr. Irum Bibi/Dr. Farman Ali
37	Elementary Group Theory	3(3-0)	Major	Dr. Saddiqa Begum
38	Chemical	3(3-0)	Major	Dr. Saddiqa Begum



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	Crystallography			
39	Inorganic Material Chemistry	3(3-0)	Major	Dr. Basit Niaz
40	Bioinorganic Chemistry	3(3-0)	Major	Dr. Basit Niaz

Discussion and Decision:

The Board conducted a meticulous review of the course contents of the HEC Revised Curriculum for Chemistry Associate Degree, Bachelor of Science, and Master of Science (2025), and subsequently granted its formal recommendation for onward submission to the Board of Faculty of Hazara University, endorsing its alignment with academic standards and requirements.

5. APPROVAL OF NEW SPECIALIZATION OF POLYMER AND MATERIALS CHEMISTRY FOR BS/MPHIL/PhD

Proposal is submitted for approval of New Specialization of “**POLYMER AND Material Chemistry**” for BS/MPhil Program. Please see annexure (D).

Discussion and Decision:

The Board undertook a thorough review of the proposed new specialization for BS/MPhil programs and having satisfied itself with the academic merit and relevance, formally granted its recommendation for submission to the Board of Faculty of Hazara University for further consideration and approval.

6. APPROVAL OF NEW COURSE CODES & REVISION OF OLD COURSE CODES FOR BS/MPhil/PhD

Proposal is submitted for approval of New Course Codes & Revision of old Course Codes of BS/MPhil/PhD.

For the Chemistry courses, the subject identity will be as follows:

Analytical-1

Industrial/Applied-2

Biochemistry/Pharmaceutical/Forensic Chemistry-3

Environmental/Agricultural/Soil-4

Inorganic-5

Organic-6

Computational/Physical-7



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Fuel-8

Material-9

BS Course Codes

SEMESTER 1			
Course Code	Course	Credit Hours	Category
Chem-100	Fundamentals of Chemistry	3 (2-1)	Major
	Principles of Biochemistry	3 (2-1)	Interdisciplinary
	Quantitative Reasoning – I *	3 (3-0)	General Education
	Natural Science **	3 (2-1)	General Education
	Functional English *	3 (3-0)	General Education
	Applications of ICT *	3 (2-1)	General Education
TOTAL CREDIT HOURS: 18			
SEMESTER 2			
Course Code	Course	Credit Hours	Category
Chem-161	Principles of Organic Chemistry	3 (2-1)	Major
Chem-151	Principles of Inorganic Chemistry	3 (2-1)	Major
Chem-171	Principles of Physical Chemistry	3 (2-1)	Major
	Quantitative Reasoning – II *	3 (3-0)	General Education
	Expository Writing *	3 (3-0)	General Education
	Pakistan Studies *	2 (2-0)	General Education
TOTAL CREDIT HOURS: 17			
SEMESTER 3			
Course Code	Course	Credit Hours	Category
Chem-281	Fuel Chemistry	3 (2-1)	Major
Chem-211	Principles of Analytical Chemistry	3 (2-1)	Major
Chem-291	Principles of Polymer Chemistry	3 (2-1)	Major
Chem-292	Introduction to Nano-chemistry	3 (2-1)	Major
	Ideology & Constitution of Pakistan *	2 (2-0)	General Education
	Islamic Studies * (Ethics for non-Muslim students)	2 (2-0)	General Education
	Arts & Humanities ***	2 (2-0)	General Education
TOTAL CREDIT HOURS: 18			
SEMESTER 4			
Course Code	Course	Credit Hours	Category
Chem-231	Forensic Chemistry	3 (2-1)	Major
Chem-221	Industrial Chemistry	3 (2-1)	Major
Chem-241	Environmental Chemistry	3 (2-1)	Major
Chem-232	Pharmaceutical Chemistry	3 (2-1)	Major
	Social Sciences ****	2 (2-0)	General Education
	Civics & Community Engagement *	2 (2-0)	General Education



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	Entrepreneurship *	2 (2-0)	General Education
TOTAL CREDIT HOURS: 18			
SEMESTER 5			
Course Code	Course	Credit Hours	Category
Chem-361	Advanced Organic Chemistry	3 (2-1)	Major
Chem-351	Advanced Inorganic Chemistry	3 (2-1)	Major
Chem-371	Advanced Physical Chemistry	3 (3-0)	Major
Chem-311	Advanced Analytical Chemistry	3 (2-1)	Major
Chem-342	Soil Chemistry	3 (2-1)	Major
Chem-370	Computational Chemistry	3 (2-1)	Major
TOTAL CREDIT HOURS: 18			
SEMESTER 6			
Course Code	Course	Credit Hours	Category
Chem-341	Agricultural Chemistry	3 (2-1)	Major
	Elective – I *****	3	Major
	Elective – II *****	3	Major
Chem-300	Scientific Writing & Research Methods	3 (3-0)	Interdisciplinary
	Statistics for Chemists	3 (3-0)	Interdisciplinary
TOTAL CREDIT HOURS: 15			
SEMESTER 7			
Course Code	Course	Credit Hours	Category
Chem-411	Chemical Safety & Risk Management	3 (3-0)	Major
	Elective – III *****	3	Major
	Elective – IV *****	3	Major
	Elective – V *****	3	Major
	Materials Science *****	3 (2-1)	Interdisciplinary
TOTAL CREDIT HOURS: 15			
SEMESTER 8			
Course Code	Course	Credit Hours	Category
	Elective – VI *****	3	Major
	Elective – VII *****	3	Major
Chem-470	Artificial Intelligence in Chemistry *****	3 (2-1)	Interdisciplinary
Chem-412	Quality Control & Assurance	3 (2-1)	Interdisciplinary
	Capstone	3	Capstone
TOTAL CREDIT HOURS: 15			

List of Elective courses

BS Semester-VII & VIII (Physical Chemistry)

S. No.	Course Title	Credit Hrs.	Practical
CHEM-372	Computer Aided Numerical Analysis	3	0
CHEM-373	Chemical Kinetics and Dynamics	3	0
CHEM-374	Quantum Chemistry	3	0
CHEM-375	Surface Chemistry	3	0
CHEM-376	Photochemistry	3	0
CHEM-377	Statistical Mechanics	3	0



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CHEM-378	Nuclear & Radiation Chemistry	3	0
CHEM-379	Capston	3	0
CHEM-471	Solution Chemistry	3	0
CHEM-472	Electrochemistry	3	0
CHEM-473	Polymer Chemistry	3	0
CHEM-474	Molecular Spectroscopy	3	0
CHEM-475	Chemical Thermodynamics/Thermodynamics of Solution	3	0
CHEM-476	Solid State Chemistry	3	0
CHEM-477	Colloids & Surfactants	3	0
CHEM-478	Advanced Physical Chemistry Laboratory-IV/Research Project	3	0
CHEM-479	Hetero Catalysis	3	0

BS Semester-VII & VIII (Analytical/ Inorganic Chemistry)

S. No.	Course Title	Credit Hrs.	Practical
CHEM-312	Instrumental Methods of Analysis	3	0
CHEM-313	Advanced Analytical Chemistry	3	0
CHEM-352	Chemical Crystallography	3	0
CHEM-341	Environmental Chemistry	3	0
CHEM-353	Inorganic Chemistry in Biological System/Bioinorganic Chemistry	3	0
CHEM-354	Elementary Group Theory	3	0
CHEM-355	Analytical/Inorganic Chemistry Laboratory-III	3	0
CHEM-356	Organometallics Chemistry	3	0
CHEM-357	Non-aqueous Solvents & Inorganic Ring Chains Inorganic-III	3	0
CHEM-358	Coordination Chemistry	3	0
CHEM-359	Inorganic Material Chemistry	3	0
CHEM-451	Metal-carbonyls and Inorganic Reagents (Inorganic-IV)	3	0
CHEM-452	Inorganic Polymers	3	0
CHEM-453	Industrial Chemistry	3	0
CHEM-454	Nuclear and Radiochemistry	3	0
CHEM-411	Advanced Spectroscopy	3	0
CHEM-459	Capston	3	0

BS Semester-VII & VIII (Organic Chemistry)

S. No.	Course Title	Credit Hrs.	Practical
CHEM-362	Chemistry of Hetero-cyclic Compounds	3	0
CHEM-363	Reaction Mechanism/Reactive Intermediates	3	0
CHEM-365	Chemistry of Natural Products	3	0
CHEM-366	Special Organic Reactions	3	0
CHEM-367	Organic Synthesis/Synthetic Organic Chemistry	3	0
CHEM-368	Organic Photochemistry	3	0
CHEM-369	Capston	3	0
CHEM-461	Stereochemistry	3	0
CHEM-431	Biochemistry	3	0
CHEM-462	Name Reactions	3	0
CHEM-463	Introduction to Polymer Chemistry/Organic Polymer	3	0



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CHEM-464	Quantum Organic Chemistry	3	0
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Polymer and Material Chemistry

Course code	Course title	Credit Hrs.	Practical
CHEM-491	Fundamentals of Materials Science	3	0
CHEM-492	Characterization of Polymer Materials	3	0
CHEM-493	Composite Material and Applications	3	0
CHEM-494	Mechanical Behaviour of Materials	3	0
CHEM-495	Synthesis and Processing of Ceramic Materials	3	0
CHM-496	Biomaterials and Tissue Engineering	3	0
CHEM- 497	Chemistry of coating and Adhesives	3	0
CHEM-498	High performance polymers	3	0
CHEM-499	Polymer Nanocomposite	3	0
CHEM-490	Capston	3	0

MPHIL/PhD Revised Course Codes

Maximum 12 Credit Hrs. required in each Semester

Inorganic Analytical

S.No	New codes	Old Code	Course Title	Credit Hrs.
1.	CHEM-711	CHEM-511	Advanced Molecular Spectroscopy	3
2.	CHEM-712	CHEM-512	Advanced Analytical Instrumental Techniques	3
3.	CHEM-713	CHEM-513	Advanced Thermal Analysis	3
4.	CHEM-714	CHEM-515	Inorganic Electronic Spectroscopy	3
5.	CHEM-715	CHEM-516	Special Topics in Analytical Chemistry	3
6.	CHEM-741	CHEM-541	Advanced Environmental Chemistry	3
7.	CHEM-721	CHEM-521	Applied Industrial Processes	
8.	CHEM-751	CHEM-551	Diffraction Method of Analysis (Advance Crystallography)	
9.	CHEM-752	CHEM-553	Composite Materials	3
10.	CHEM-753	CHEM-555	Organo-transition Metal Chemistry (Organometallics)	3
11.	CHEM-754	CHEM-556	Bio-Inorganic Chemistry	3



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12.	CHEM-756	CHEM-557	Physical Methods in Inorganic Chemistry	3
13.	CHEM-757	CHEM-559	Special Topics in Inorganic Chemistry	
14.	CHEM-722	CHEM-522	Advanced Applied Chemistry	3
15.	CHEM-851	CHEM-554	Kinetic and Mechanism of Inorganic Reactions	3
16.	CHEM-852	CHEM-552	Analysis and Characterization of Polymer (Chemistry of Inorganic Polymers)	3
17.	CHEM-853	CHEM-558	Inorganic Material Chemistry	3
18.	CHEM-811	CHEM-517	Adv. Radio analytical and Nuclear Chemistry	3
19.	CHEM-812	CHEM-518	Advance Chromatographic Techniques	3
20.	CHEM-813	CHEM-514	Applied Atomic Absorption Spectroscopy	3
21.	CHEM-841	CHEM-542	Environmental Resource control Management	3

Organic Chemistry

S.No	New Codes	Old Code	Course Title	Credit Hrs.
22.	CHEM-761	CHEM-761	Modern Trends in Organic Synthesis (Retrosynthesis)	3
23.	CHEM-762	CHEM-762	Advanced Stereochemistry	3
24.	CHEM-763	CHEM-763	Physico-organic Chemistry and reaction Mechanism	3
25.	CHEM-764	CHEM-764	Nuclear Magnetic Resonance in Organic Chemistry (Advance NMR)	3
26.	CHEM-765	CHEM-765	Chemistry of Isoterprenoids	3
27.	CHEM-766	CHEM-766	Chemistry in Glycosides	3
28.	CHEM-767	CHEM-567	Biosynthesis	3
29.	CHEM-768	CHEM-568	Organo-metallic Chemistry	3
30.	CHEM-769	CHEM-569	Reactive Intermediates in Organic Chemistry	3
31.	CHEM-861	CHEM-661	Advanced Hetero-cyclic Chemistry	3
32.	CHEM-862	CHEM-662	Advanced Mass Spectrometry	3
33.	CHEM-863	CHEM-663	Organic Photochemistry	3
34.	CHEM-864	CHEM-664	Organic Polymer Chemistry	3
35.	CHEM-865	CHEM-665	Pericyclic Reactions	3
36.	CHEM-866	CHEM-666	Special Topics in Organic Chemistry	3
37.	CHEM-867	CHEM-667	Medicinal Chemistry	3

Physical Chemistry

S.No	New Codes	Old Code	Course Title	Credit Hrs.
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	CHEM-871	CHEM-571	Physical Chemistry of High Polymer	3
	CHEM-872	CHEM-572	Advanced Quantum Chemistry	3
	CHEM-873	CHEM-573	Electrode Processes	3
	CHEM-874	CHEM-574	Magnetic Resonance Spectroscopy	3
	CHEM-875	CHEM-575	Advanced Chemical Kinetics	3
	CHEM-876	CHEM-576	Molecular Spectroscopy	3
	CHEM-877	CHEM-577	Photochemistry	3
	CHEM-878	CHEM-578	Surface Chemistry	3
	CHEM-879	CHEM-579	Solution Chemistry	3
	CHEM-771	CHEM-671	Chemistry of Advanced Composite Material	3
	CHEM-772	CHEM-672	Statistical Mechanics	3
	CHEM-773	CHEM-673	Solid State Semiconductors	3
	CHEM-774	CHEM-674	Colloids and Surfactants	3
	CHEM-775	CHEM-675	Nuclear and Radiation Chemistry (Nuclear Technology)	3
	CHEM-776	CHEM-676	Biophysical Chemistry	3
	CHEM-777	CHEM-677	Physical Aspects of Environment	3
	CHEM-778	CHEM-678	Theoretical and Computational Chemistry	3
	CHEM-779	CHEM-679	Special Topics in Advanced Physical Chemistry	3

Polymer and Material Chemistry

S.No	New Course Code	Old Course code	Course title	Cr.hr
38.	CHEM-791	CHEM-772	Polymeric Nanocomposite	3
39.	CHEM-792	CHEM-773	Nanomaterials	3
40.	CHEM-793	CHEM-774	Advance Hetero Catalysis	3
41.	CHEM-794		Materials Characterisation Techniques	3
42.	CHEM-795		Nanoscience and Technology	3
43.	CHEM-796		Processing and Design of Materials	3
44.	CHEM-891		Biomaterials	3
45.	CHEM-892		Smart and Intelligent Materials	3
46.	CHEM-893		Materials for Renewable Energy Conversion	3
47.	CHEM-799		Mphil Thesis	
48.	CHEM-899		PhD Thesis	

Discussion and Decision:



HAZARA UNIVERSITY, MANSEHRA

DEPARTMENT OF CHEMISTRY

Minutes of 24th Meeting of Board of Studies of Chemistry Department; 03rd June, 2025

The Board reviewed the newly proposed and revised course codes for BS/MPhil programs and granted recommendation for onward submission to Board of Faculty of Hazara University.

7. NOMINATION OF ONE MEMBER FROM BOS FOR BOARD OF FACULTY

According to Hazara University statutes 2016 one member from each Board of Studies within the faculty should be nominated as member of Board of Faculty. The name of Dr. Farman Ali, Associate Professor, Department of Chemistry, Hazara University Mansehra was proposed for member of Board of Faculty.

Discussion and Decision:

The Board recommended the name of Dr. Farman Ali, Associate Professor Department of Chemistry, Hazara University Mansehra as member for Board of Faculty of Hazara University.

8. ADJOURNMENT

At the end, the Chairperson extended a formal vote of thanks to all participants for their active engagement, valuable contributions, and productive deliberations during the meeting.