

Minutes of the Board of P.G Studies meeting held on 12.08.2024

A meeting of board of P.G. Studies in Chemistry was convened on 12.08.2024 at 10:30 a.m. in Office chamber of Head Department of Chemistry. The proceedings of the meeting went in the dual mode as local members participated in person (offline mode) while external members participated online via zoom meeting.

The following members of the board participated:

| S.No | Name | Affiliation | Nomination |
|------|-----------------------------|--|---|
| 01 | Professor Aijaz Ahmad Dar | Head Dept of Chemistry University of Kashmir | Chairman Board of P.G studies. |
| 02 | Professor Riyazuddin | Dept. Of Chemistry, Aligarh Muslim University, | External Subject Expert Physical Chemistry |
| 03 | Prof. Kamal K Kapoor | Dept. Of Chemistry, University of Jammu | External Subject Expert Organic Chemistry |
| 04. | Prof Bashir Ahmad Ganaie | Director CORD University of Kashmir and Dean Unani | Academic Expert and Member P.G board |
| 05. | Prof. Basharat Ahmad Wantt | Professor Dept of Physics University of Kashmir | Academic Expert and Member P.G board |
| 06. | Prof. Syed Wajaht Amin Shah | Dept of Chemistry University of Kashmir | Organic Chemistry Expert and Member P.G board |
| 07. | Prof. Aijaz Ahmad Dar | Dept of Chemistry University of Kashmir | Physical Chemistry Expert and Member of P.G Board |
| 08. | Prof. Mohsin Ahmad Bhat | Dept of Chemistry University of Kashmir | Physical Chemistry Expert and Member P.G board |
| 09. | Dr. Masood Ahmad Rizvi | Dept of Chemistry University of Kashmir | Inorganic Chemistry Expert and Member P.G board |
| 10. | Dr. Dar Aijaz Ahmad | Dept of Chemistry University of Kashmir | Inorganic Chemistry Expert and Member P.G board |
| 11. | Dr. Parvez Ahmad | Dept of Chemistry (Women's M.A. Road) Cluster University | Physical Chemistry External Member P.G board |
| 12. | Dr. Fayaz Butt | P.G Dept of Chemistry S.P College, Cluster University | Physical Chemistry External Member P.G board |
| 13. | Mr. Firdaus Ahangar | PhD Scholar Dept of Chemistry | PhD Scholar member |
| 14. | Mr. Umar Nabi Tak | PhD Scholar Dept of Chemistry | PhD Scholar member |
| 15. | Mr. Naseer Ahmad | Academic Section University of Kashmir | Deputy Registrar Nominees |

Professor Aijaz Ahmad Dar Head Dept of Chemistry and Chairman Board of P.G studies welcomed the members and presented the agenda of the meeting.

The meeting had the following Agenda:

1 Restructuring and Updatations of course content at M.Sc 1st and 2nd semesters.

2. Re-structuring of 4 credit specialization specific laboratory courses **CH24105DCE**, **CH24205DCE** entitled Laboratory Course in Chemistry—I and Laboratory Course in Chemistry—II at 1st and 2nd semesters of M.Sc Curriculum. **CH24207DCE** as newly introduced 2 credit DCE course at M.Sc 2nd semester level.

3. Preparedness of modalities for one year Masters program in Chemistry under NEP 2020.

4. Recommendations for academic control at P.G centers in different affiliated colleges.

Resolution:

With regard to the above-mentioned points of agenda, all the courses were discussed thoroughly w.r.t nature, title, contents, and weight age. Some valuable suggestions about the courses along with some deletions, insertions and some minor changes in the orientation of contents within and across the units in some of the courses were suggested and accordingly incorporated into the course structure. **An overall change of approximately 20% was incorporated in the revised syllabus over its previous one.** After the discussion, it was unanimously agreed that:-

i) Each course at the start should mention the learning outcomes in proper format.

ii) The course content of all the units in all courses should be uniform and catering to the allocated 16 contact hours with credits and the lecture quantification of the syllabus content.

iii) The course content of the **CH24101CR** inorganic course has the major changes in the unit three with the introduction of bonding in metal clusters. In addition the minor changes and reshuffle of contents in each unit and shift to higher semesters was made to ease the burden of the contents of course at M.Sc 1st sem level.

iii) The course content of **CH24102CR**, organic course has changes for updation in units I,II, with some deletions. The other minor changes and reshuffle of contents in unit I and II and their shift to higher semesters was made to ease the burden of the contents of course at M.Sc 1st sem level. Some newly introduced contents of topcity and cyclo-stereoisomerism and axial chirality and conformation of sugars etc was introduced as updation in unit IV. The contents of asymmetric induction were shifted to 4th semester. Board members also suggested re-sequencing of the units between unit 2,3 and 4 and internal allocation of the content hours within the unit.

iv) The course content of **CH24103CR**, physical chemistry core paper has the major change at unit 1 which was the introduction of Mathematics for Chemists in place of surface chemistry which was readjusted at higher sem level. The contents of newly introduced unit were changed in light of suggestions of the board members. The title of units and some technical formatting and titles were modified in light of board member suggestions.

v) The course content of **CH24104CR**, Environmental chemistry and analytical monitoring core paper had some minor changes and reshuffle of contents in each unit. The title of units and some technical formatting and titles were modified in light of board member suggestions.

iv) The course content of **CH24105DCE**, Laboratory Course in Chemistry--I was restructured in place of the existing three component lab course. Under new syllabus 1st semester lab course shall be from Physical Chemistry, 2nd semester from Organic Chemistry and 3rd Semester shall be from Inorganic Chemistry. The contents of newly introduced lab course were changed in light of suggestions of the board members.

v) The **CH24106DCE** course, Symmetry and Group theory at 1st semester level was suggested readjustments with the introduction of crystallographic symmetry elements and applications of symmetry to electronic properties and the molecular chirality and spectroscopy.

vi) The contents of the courses **CH24107DCE**, **CH24001GE**, **CH24001OE** were thoroughly revised in light of the suggestions of board members.

Regarding re-appropriation of course content at M.Sc 2nd semester to allow students have the core papers from all the three disciplines of Chemistry subject. The proposed move of shifting the solid state chemistry to 3rd semester and

incorporation of the 2 credit Bioinorganic Chemistry DCE course **CH24207DCE**. In addition, the **CH24205DCE** as restructured laboratory course was a major change at the M.Sc 2nd semester level.

vii) The course content of the **CH24201CR** inorganic course has the major changes in the unit I--III with the introduction of new contents. In addition, the minor changes and reshuffle of contents in each unit and shift to higher semesters was made to ease the burden of the contents.

viii) The course content of **CH24202CR**, organic course has changes for updation in all units with some deletions and additions to comply to 16 hour content in each unit.

ix) The course content of **CH24203CR**, Physical course has a major change of introduction of surface chemistry unit from first semester and deletion/ redistribution of chemical equilibrium unit. Besides, updation in other three units with some deletions and additions to comply to 16 hour content in each unit as suggested by board members.

x) The course content of **CH24204CR**, Green chemistry had some deletions and additions to comply to 16 hour content in each unit as suggested by board members.

xi) The course content of **CH24205DCE**, Laboratory Course in Chemistry-II was the restructured to accommodate the organic practicals.

xii) The course content of **CH24206DCE**, Bioinorganic chemistry was the newly introduced 2 credit course.

xii) The course content of **CH24207DCE**, NMR and ESR Spectroscopy had some deletions and additions to comply to 16 hour content in each unit as suggested by board members.

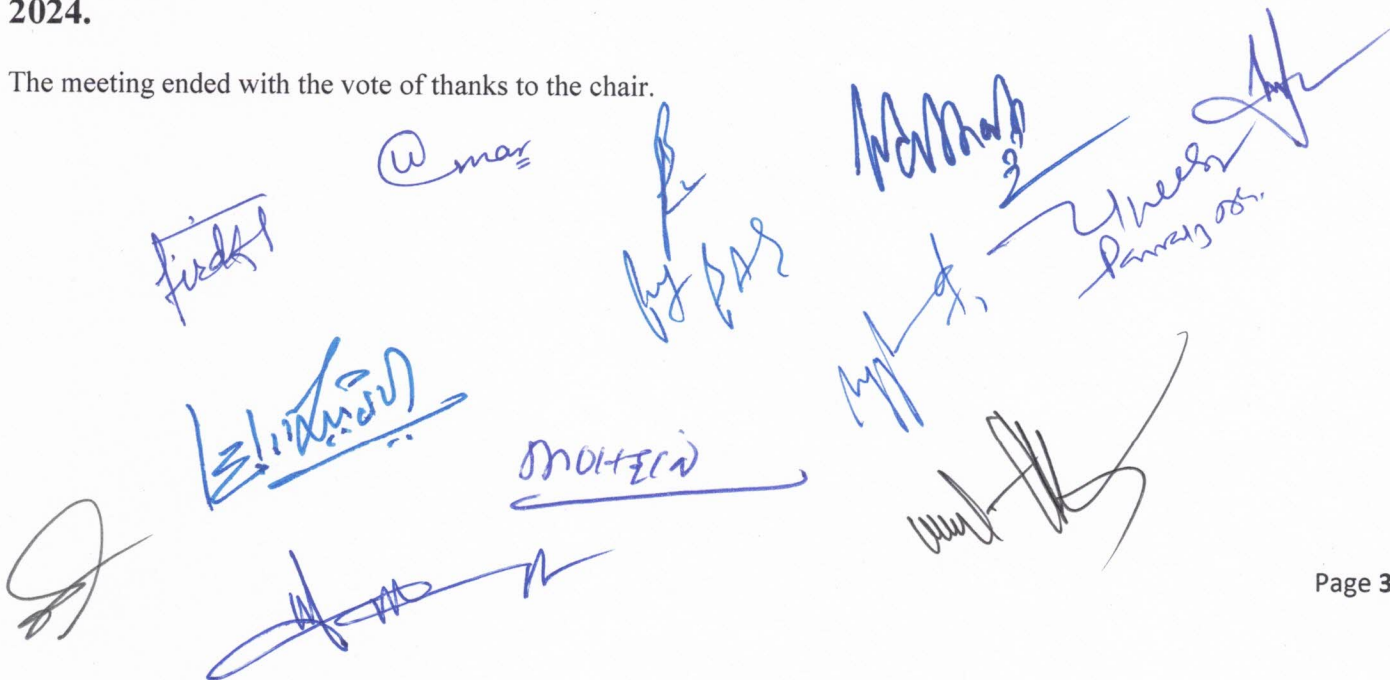
xiii) The contents of the courses **CH24002GE**, **CH24002OE** were thoroughly revised in light of the suggestions of board members.

Regarding the preparedness of modalities for one year Masters program in Chemistry under NEP 2020, it was thoroughly discussed for its prospects and challenges. However, any final shape was deemed to be further debated and discussed in light of the ensuing guidelines of the University of Kashmir whenever floated.

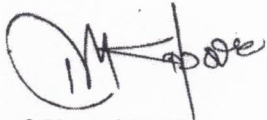
Regarding last agenda, the board of PG studies suggests a regular academic audit of the P.G centers in the different affiliated colleges for maintenance of academic standards at par with the University of Kashmir.

The formulated syllabus shall be applicable for the students joining Department as Batch 2024.

The meeting ended with the vote of thanks to the chair.



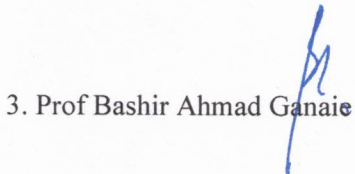
Acknowledgements of P.G. Board Members:



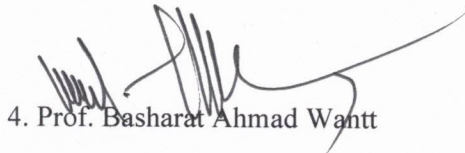
1. Prof. Kamal K. Kapoor

Attended Online

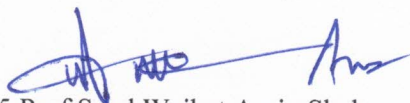
2. Prof. Riyazuddin



3. Prof. Bashir Ahmad Ganaie



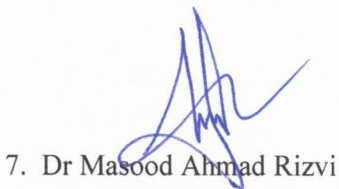
4. Prof. Basharat Ahmad Wajid



5. Prof. Syed Wajhat Amin Shah



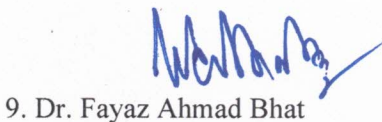
6. Prof. Mohsin Ahmad Bhat



7. Dr. Masood Ahmad Rizvi



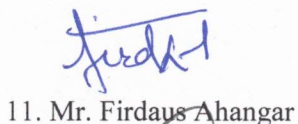
8. Dr. Dar Aijaz Ahmad



9. Dr. Fayaz Ahmad Bhat



10. Dr. Parvaiz Ahmad

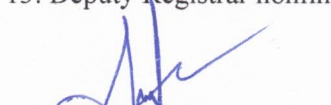


11. Mr. Firdaus Ahangar




12. Mr. Umer Nabi Tak

13. Deputy Registrar nominee



(Dr. Masood Ahmad Rizvi)
(Staff Secretary)



(Prof. Aijaz Ahmad Dar)
Chairman/ Head of the Department
Head
Department of Chemistry
University of Kashmir, Sgr.