

**DEPARTMENT OF CHEMISTRY, DSB CAMPUS, KUMAUN UNIVERSITY, NAINITAL**

03/09/2015

**Minutes of the BOS Meeting in Chemistry**

BOS meeting in Chemistry was held on 11 of May 2015. The following were present (list attached)—


- |                       |  |
|-----------------------|--|
| 1. Prof. SPS Mehta    | Convener<br>HOD Chemistry, DSB Campus, Nainital  |
| 2. Prof. Bali Ram     | External Expert<br>Department of Chemistry, BHU, Varanasi  |
| 3. Prof. Vivekanand   | External Expert<br>Department of Chemistry, CBSH, GB Pant University of<br>Agriculture & Technology, Pantnagar |
| 4. Prof. Ganga Bisht  | Department of Chemistry, DSB Campus, Nainital  |
| 5. Prof. AB Melkani   | Department of Chemistry, DSB Campus, Nainital  |
| 6. Prof. CK Pant      | Department of Chemistry, DSB Campus, Nainital  |
| 7. Prof. NS Bhandari  | Department of Chemistry, SSJ Campus, Almora  |
| 8. Prof. GC Sah       | Department of Chemistry, SSJ Campus, Almora  |
| 9. Prof. Chitra Pande | Department of Chemistry, DSB Campus, Nainital  |
| 10. Prof. P Joshi     | Department of Chemistry, DSB Campus, Nainital  |
| 11. Dr. Manju Kandpal | HOD Chemistry, RHPG College, Kashipur  |

The following decisions were unanimous taken for the academic session 2015-16.

1. A meeting of all the HODs should be held every year before the meeting of BOS preferably at the beginning of the semester or the annual system.
2. The revised syllabus should be made available to all the HODs, if possible in the meeting of HODs as mentioned in point 1.
3. Question papers be properly moderated to avoid any confusion or misinterpretation.
4.
  - (i) For 5<sup>th</sup> paper of MSc I sem the title should be corrected as per guidelines of UGC i.e. it should be now: "Basics of Computer, Biology and Mathematics for Chemists."
  - (ii) Two Answer sheets/ Books be issued to the candidates for this paper:
    - a) One for Biology stream or opting Biology
    - b) Another for Maths stream or opting Mathematics

5. Pre-PhD Course syllabus for Pre-PhD entrance test should be redesigned/ corrected. Prof. G. Bisht was appointed convener for this job.
6. A minimum of 05 (five) students should be there to start any specialization e.g. Inorganic, Organic or Physical at MSc level.
7. Minor changes in syllabus of PG classes be incorporated before the start of the new session.
8. New experiments be designed *at* PG level depending upon the availability of equipments, chemicals and other facilities available in the department.
9. Model Question Papers be prepared for the help of Examiners in each of three branches Inorganic, Organic & Physical Chemistry.
10. The following new Professors/ Experts were recommended to be appointed as Examiners of Ph.D. thesis, Postgraduate classes as well Undergraduate classes:
  - I. Prof. RN Pahtak (Physical Chemistry)  
Head Chemistry, Lucknow University, Lucknow.
  - II. Prof. Sudha Jain (Organic Chemistry)  
Department of Chemistry, Lucknow University, Lucknow.
  - III. Prof. RM Naik (Physical Chemistry)  
Department of Chemistry, Lucknow University, Lucknow.

All Professors/ experts shall remain as such as approved in earlier years.

  
03-09-2015  
Convener  
Board of Studies, Chemistry  
Kumaun University  
Nainital


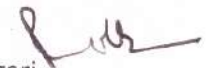

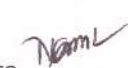
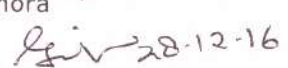
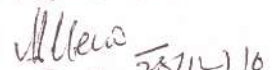
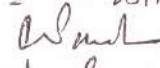


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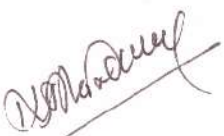
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DEPARTMENT OF CHEMISTRY, DSB CAMPUS, KUMAUN UNIVERSITY, NAINITAL

28/12/2016

A BOS meeting in Chemistry was held on 28 of December 2016. The following were present—

- |                       |  |   |
|-----------------------|--|---|
| 1. Prof. SPS Mehta    | Convener<br>HOD Chemistry, DSB Campus, Nainital  |    |
| 2. Prof. RD Kaushik   | External Expert<br>HOD, Department of Chemistry, Gurukul Kangari<br>University, Haridwar                       |    |
| 3. Prof. Vivekanand   | External Expert<br>Department of Chemistry, CBSH, GB Pant University of<br>Agriculture & Technology, Pantnagar |     |
| 4. Prof. NS Bhandari  | External Expert<br>HOD, Department of Chemistry, SSJ Campus, Almora  |    |
| 5. Prof. Ganga Bisht  | Department of Chemistry, DSB Campus, Nainital  |   |
| 6. Prof. AB Melkani   | Department of Chemistry, DSB Campus, Nainital  |  |
| 7. Prof. CK Pant      | Department of Chemistry, DSB Campus, Nainital  |  |
| 8. Prof. Chitra Pande | Department of Chemistry, DSB Campus, Nainital  |  |
| 9. Prof. Pushpa Joshi | Department of Chemistry, DSB Campus, Nainital  |  |

  
28/12/16

  
28/12/2016

(A)

Physical Chem. Sem I

Item # 1

Nernst Theorem

Classical Thermodynamics:

~~Brief discussion of~~ laws thermodynamics: Fundamental concepts, state and path dependent functions, determination of work done, enthalpy change, and internal energy change in reversible and irreversible expansion and compression, entropy and its calculations, residual entropy, ~~combined form first and second~~ laws of thermodynamics, ~~spontaneity, free energy and its calculations,~~ properties of Helmholtz free energy and Gibbs free energy, thermodynamic equilibria and free energy functions, Clausius-Claypeyron equation, chemical potential and entropies.

Partial molar properties: partial molar free energy, partial molar volume and chemical potential and their significance, Gibbs-Duhem equation, methods for determination of partial molar quantities, Concept of fugacity and its determination of fugacity, chemical potential and fugacity, thermodynamic functions of mixing.

Non-ideal systems: Excess functions for non-ideal solutions, activity, activity coefficient, Debye-Huckel theory for activity coefficient of electrolytic solutions, determination of activity and activity coefficients, ionic strength, application of phase rule to three component systems, ~~second order phase transitions.~~

~~Li~~  
 Li 28/12/2016    28/12  
~~Wan~~  
 Wan 28/12/16  
~~John~~  
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~~Mew~~  
 Mew 28/12/2016  
~~Hand~~  
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## SEMESTER IV

### Elective Papers; Inorganic Chemistry CHE6401 t0 04

CHE6401

General and Organometallic Chemistry

#### 1. Inorganic free radicals

A Comprehensive study of production, stability and reactions of free radicals:  $\text{NH}$ ,  $\text{NH}_2$ ,  $\text{N}_2\text{H}_3$  and  $\text{PH}$ .

#### 2. Silicates and aluminosilicates

Classification, properties, structure and applications of naturally occurring silicates and aluminosilicates: synthesis of pillared clays and zeolites. Characterization and application of clay, pillard clays and zeolites to catalyses.

#### 3. Organic Derivative of Metals

Metal  $\beta$ -diketones and thio $\beta$ -diketones: general chemistry, structure aspects and applications. Metal alkoxides: general methods & preparations, reactivity, structure and applications.

#### 4. Alkyls, Aryls and Acyls of Metals

Alkyls, aryls and acyls of transition metals, nature of metal carbon bond, routes of synthesis, stability and decomposition pathways and structure, alkyls, aryls and acyls of s-block and p-block elements. Comparison of such transition and non-transition element derivatives. Organocopper in organic synthesis.

#### 5. Compounds of metal- carbon multiple bonds

Survey of organometallic compounds according to ligands, synthesis, properties, nature of bonding and structure features of pi-bonded organo-metallic compounds (pi-complexes) with unsaturated organic molecules: alkenes, alkynes, chelating olefinic ligands, allyls, dienes-butadiene, cyclobutadiene, cyclopentadiene, fulvalene, heterocyclic pentadiene and cyclopentenone, dienyl-cyclopentadienyl, acyclicpentadienyl, cyclohexadienyl and heptadienyl, arene and trienyl complexes. Important reactions relating to nucleophilic and electrophilic attack on ligands, role in organic synthesis.

#### 6. Fluxional organometallic compounds

Fluxionality and dynamic equilibria in compounds such as  $\eta^3$ -allyl and dienyl complexes, their characterization.

*cyclopenta  
dienone*

*12/2016*  
*16*  
*12*

6

7. Homogeneous catalysis

Stoichiometric reactions for catalysis, homogeneous catalysis hydrogenation, Zeigler-Natta polymerization of olefins, catalytic reactions involving carbon monoxide such as hydrocarbonylation of olefins(oxo reacton), oxopalladation reactions. Activation of small molecules by coordination. Oxidative- addition and migration (insertion) reactions.

*Madhu*  
28/12/16

*Allex*  
28/12

*For* *bin*  
28/12/16

*Si*  
28/12/16

*Wan*  
28/12/2016

*fael*  
28.12.16

*Q*  
28/12/2016

## Minutes of the BOS meeting

### DEPARTMENT OF CHEMISTRY, KUMAUN UNIVERSITY, NAINITAL

Date of the meeting: 28<sup>th</sup> Dec. 2016

Venue: Department of Chemistry,

DSB Campus, K. U., Nainital

The BOS meeting of Chemistry was held on 28<sup>th</sup> of Dec., 2016 in Department of Chemistry, DSB Campus, Nainital. The following were present:

1. Prof. SPS Mehta                      Convener
2. Prof. RD Kaushik                    External Expert
3. Prof. Vivekanand                    External Expert
4. Prof. NS Bhandari                   External Expert
5. Prof. Ganga Bisht
6. Prof. AB Melkani
7. Prof. CK Pant
8. Prof. Chitra Pande
9. Prof. Pushpa Joshi

The following decisions were taken unanimously:

1. The pattern of question papers of MSc in all semesters should be modified.  
In section B, 15 (fifteen) questions are given, out of which the candidate has to attempt only 10 (ten), which takes too much time of the candidate as well as of the evaluator.  
Hence, in section B, only 7 questions should be given, out of which the candidate will be asked to attempt any 05 (five) questions.
2. Minor changes in MSc I (Physical Chemistry) Paper III. Under the heading Chemical Thermodynamics.

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7-6-17

**Kumaun University Nainital  
Department of Chemistry  
Minutes of the Board of Studies Meeting**

The BOS meeting of Chemistry was held on 8<sup>th</sup> September 2017 in the University Office Conference Hall, Sleepy Hollow, Nainital at 11.0 Am. with the concern of Chairman and vice chancellor Prof. D.K. Nauriyal and as per notification issued by the Register Kumaun University letter no. 497 dated 6.9.2017. The following members were present in the meeting.

- |  |   |
|--|---|
| 1. Prof N.D. Kandpal   | Convener                                    |
| 2. Prof. M.M.S. Rawat<br>Ex. H.O.D. Chemistry & emeritus<br>fellow, former V.C. H.N.B. Garhwal<br>University, Srinagar | External Expert (Organic Chemistry)         |
| 3. Prof. R.D. Kausik<br>H.O.D. Dept. of Chemistry<br>Gurukul Kangari Univ. Hardiwar                                    | External Expert (Physical Chemistry)        |
| 4. Prof. Vivakanand<br>Dept. of Chemistry, C.B.SH<br>G.B.Pant Univ. of Agriculture<br>and Technology Pantnagar         | External Expert (Inorganic Chemistry)       |
| 5. Prof. S.P.S. Mehta  | Dept. of Chemistry, D.S.B. Campus, Nainital |
| 6. Prof. Ganga Bisht   | Dept. of Chemistry, D.S.B. Campus, Nainital |
| 7. Prof. C.K. Pant   | Dept. of Chemistry, D.S.B. Campus, Nainital |
| 8. Prof. Chitra Pandey   | Dept. of Chemistry, D.S.B. Campus, Nainital |
| 9. Prof. Pushpa Joshi  | Dept. of Chemistry, D.S.B. Campus, Nainital |
| 10. Prof. N.S. Bhandari  | Dept. of Chemistry, S.S.J. Campus, Almora   |
| 11. Prof. G.C. Sah   | Dept. of Chemistry, S.S.J. Campus, Almora   |
| 12. Prof. D.L. Verma   | Dept. of Chemistry, S.S.J. Campus, Almora   |
| 13. Prof. Rubina Aman  | Dept. of Chemistry, S.S.J. Campus, Almora   |

The record provided by the university office was discussed. The BOS meeting as per record was held on 28 Dec. 2016. in the department of chemistry, D.S.B. Campus Nainital. The preliminary draft of the undergraduate and post graduate Syllabi were considered for certain modification in pattern of question papers. In view of the shortage of time, convener was assigned to modify the syllabus and can take the approval from Dean Science, Board of faculty



Science and academic council as per requirement of University Act and Statues. However, in spite of the best efforts of the convener, the resolution passed by the BOS received by the university on 7.6.2017.

1. In view of the above the BOS members considered the valued opinion and efforts of the convener suggesting some changes that may be useful in improving the curriculum. These suggestions have been considered as a part of this meeting for approval in the light of following objectives :
  - a. Academic semester programme.
  - b. Time allocation for teaching.
  - c. Contents of the syllabus as per teaching days/lecturers.
  - d. Question paper model with marks, time and weightage
2. As per UGC guidelines and proposed semester system by the University the effective updating in the syllabus have been passed in the meeting unanimously with following specifications :
  - a. The six days teaching per week, total week per semester are 15 weeks. The total number of allotted periods in the semester per subject are 90 theory and 60 practical at Under Graduate level.
  - b. The course content of three year degree has been divided into three papers of the chemistry. First paper Inorganic chemistry, Second paper Organic chemistry and third paper Physical chemistry.
  - c. Considering the requirement of all the three papers having equal weightage each paper can have minimum three main topics or maximum six main topics. The allocation of thirty periods (45 minute) per paper may be adequate not only for class room teaching but also for periodical Assessment and end semester.
  - d. Upto fourth semester the curriculum in chemistry should be the same for B.Sc. three year degree course. The feasibility of B.Sc. Honors course was discussed. It was unanimously passed by all the members that the course is not viable presently in other Universities. There is only single option for the student to opt chemistry for Post Graduate degree. In place of B.Sc. Honors Degree the five year integrated course has been proposed in the interest of the students keeping in view the various academic and professional opportunity in their carrier.

3. With effect from academic session 2017-18, it has been recommended by all the members of the Board of Studies the following modifications in the structure in the present syllabus.

(a) Being a common relation among the subjects of paper III (Bio Physical and Bio inorganic) of semester III and Bio organic Chemistry IV paper, it has suggested that a combined paper (Chemistry in Biological system) prepared and has been introduced in the syllabus and the common parts in both the papers has been omitted and all other topics has been included.

(b) When Bio-organic paper is merged with bio-inorganic and bio-physical, a fourth paper was with nomenclature. 'Interdisciplinary topics in chemistry' has been introduced with the following topics.

(i) Computer Application

(ii) Green Chemistry

(iii) Nano Chemistry and Nano Technology

(iv) Environmental Chemistry

(v) Supera Molecular Chemistry

(vi) Medicinal Chemistry

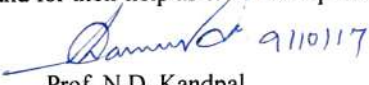
(c) In semester 1<sup>st</sup> paper in place of Allied Chemistry and Computer be seprate papers for the students with both the stream Biology and Mathematics has been recommended as Mathematics for Chemist (for Biology Students) and Biology for Chemist (for Mathematics students).

(d) The pattern of the each question paper in every semester will remain the same.

4. It was decided that convener was authorized to reframe the syllabuses in accordance with the recommendation suggested above for implementation in the current academic year 2017-18. He can take the help from other faculty members.

5. It was supposed to have next meeting for further modification in accordance to the feedback receive from departments after implementation of syllabus.

In conclusion convener has taken the opportunity of thanking to Professor M.M.S. Rawat, Professor R.D. Kaushik and Professor Vivekanand for their help as external experts.

  
Prof. N.D. Kandpal  
Convener, BOS Chemistry  
Head, Department of Chemistry  
Kumaun University, Nainital.

पत्रिका/सं/१/५५६

Date : 25.04.2019

**Kumaun University Chemistry Department**  
**BOS Meeting held on 25.04.2019 at University Office**

**Attendance :**

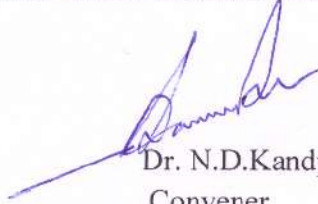
**Signature**

1. M.R.Maurya (Expert IIT Roorkee)
2. Prof. N.D. Kandpal ( Convener)
3. Prof. S.P.S Mehta (NTL)
4. Prof. G.Bisht (Dean)
5. Prof. Pushpa Joshi
6. Prof. S.K.Joshi
7. Prof. Robina Aman
8. Prof. B.K. Singh MBPG Haldwani
9. Prof. G.C.Shah S.S.J.Campus Almora
10. Prof. A.B.Melkani DSB Campus Nainital
11. Prof. N.G. Saho D SB Campus Nainital

**Minutes of the meeting.**

The following decisions were taken.

1. For Under Graduate classes the syllabus of B.Sc Pass course proposed by the Departmental Committee held on 23.04.19 at DSB Campus, Nainital was discussed in detail. The nomenclature of papers and course content arranged in two paper pattern in place of three paper pattern was discussed and passed.  
The modification proposed by the external experts is that 42 lecture per paper and per semester was considered and changes shall be made.
2. In reference to B.Sc (Hons) course it was decided to retain the B.Sc Pass Course (including nomenclature and content upto IV<sup>th</sup> semester. For V<sup>th</sup> Semester and VI<sup>th</sup> Semester the committee decided to retain the Two Paper pattern as in case of Physics, Maths, Zoology etc. The course content of V<sup>th</sup> and VI<sup>th</sup> Semester (as in B.Sc pass course) need to be reorganized. Four Special papers have to be included in V<sup>th</sup> and VI<sup>th</sup> semester with a provision of dissertation/project work . In VI<sup>th</sup> semester additional courses have to be included on analytical and allied courses ( material chem, environmental chem. medicinal chem, bio chemistry, industrial chem. polymer chemistry etc)

  
Dr. N.D.Kandpal  
Convener,  
B.O.S Chemistry

## Minutes of the meeting

A departmental meeting of chemistry department was held at Chemistry Department, DSB Campus, Nainital on 23<sup>rd</sup> April, 2019 at 1.00pm to discuss the UG chemistry syllabus (both B. Sc Passs course and Hons course). The following members were present in the meeting;

1. Prof. N D Kandpal

Convener & Chairman

2. Prof. S P S Mehta

3. Prof. A B Melkani

4. Prof. C K Pant

5. Prof. Chitra Pande

6. Prof. Pushpa Joshi

7. Prof. N G Sahoo

8. Dr. Geeta Kandpal

9. Dr. S R Ali

10. Dr. S Javed

11. Sri Mahesh Chandra

12. Dr. Manoj Dhuni

13. Dr. Penny Joshi

14. Dr. Lalit Mohan

The following decision were taken unanimously;



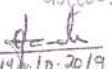
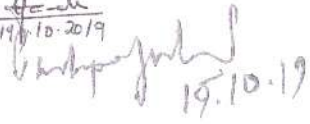


- i) The UG chemistry syllabus which was designed on two paper pattern was discussed and all the members including the convener agreed with the organization of the subject content. The members suggested to decrease the practical examination duration from six hours to four hours. However, the convener did not agree with the suggestions of the members. He also explained the reasons to keep the duration of examination (06 hrs) looking at the number of exercises and actual time to be given to the students to conduct the experiments.
- ii) It was unanimously decided that both the versions of B. Sc. (Hons) syllabus, one which was submitted two years back and the one which prepared and submitted by the Amrapali Institute, have to be submitted before the members of BoS for discussion and decision to be taken.

The meeting was ended with vote of thanks by the Convener.

**Kumaon University Chemistry Department**  
**BOS Meeting held on 19-10-2019 at Chemistry Department**  
**D.S.B. Campus, Nainital.**

Attendance:

Signature

1. M.R. Maurya (Expert IIT Roorkee) 
2. Prof. N.D. Kandpal (Convener)
3. Prof. S.P.S. Mehta
4. Prof. A.B. Melkani 
5. Prof. Chitra Pande 
6. Prof. Pushpa Joshi 
7. Prof. S.K. Joshi
8. Prof. N.L. Sahoo
9. Prof. Robina Aman 
10. Prof. B.K. Singh M.B.P.G Haldwani
11. Prof. G.C. Shah S.S.J. Campus Almora 
12. Prof. Neeta Joshi G.P.G. College Pithoragarh

**Minutes of the meeting:**

The following decisions were taken.

The draft syllabus proposed for annual system was discussed in detail at Chemistry Department, DSB Campus, Nainital. The topics of the syllabus are appropriate but these are in the concise form, so each topic may be elaborated topicwise according to the time allotted for the teaching in Inorganic chemistry papers (1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> year). The co-convener, Prof. A. B. Melkani is authorized to finalize the final draft of all three papers with the approval of convener of BOS or final approval in next BOS depending on the conditions and urgency.

The topics have been approved as such in all the papers with the remark that, in physical chemistry, the classification of major topics can be modified along with the elementary knowledge related to the subject.


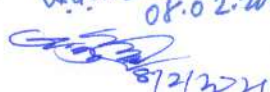
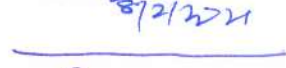
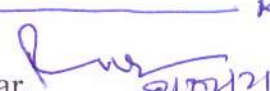
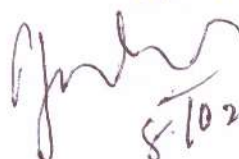
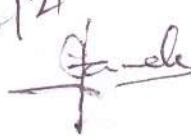
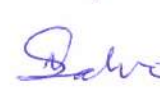


For these modification in physical chemistry, the convener is authorized to draft accordingly along with the suggestions obtained from the extert and faculty members.

The application of the Principal, Govt. Mahila College, Haldwani regarding the start of physical specialization. It has been decided that presently, the University has to decide the mode of examination that is semester/ annual. At this stage, it is not possible to consider the specialization in a particular Govt. College without prior inspection for infrastructure available with the college.

**Kumaun University Chemistry Department**  
**BOS Meeting held on 08.02.2021 at Chemistry,**  
**Department D.S.B. Campus, Nainital.**

Attendance:

Signature

1. Prof. A.B. Melkani (Convener)  08.02.2021
2. Prof. Diwan S. Rawat  
University of Delhi, Delhi.  08/2/21
3. Prof. M.R. Maurya IIT Roorkee.  Reviewed online
4. Prof. R.D. Kaushik  
Gurukul Kangri University, Haridwar.  08/02/21
5. Prof. Pushpa Joshi  
Department of Chemistry,  
D.S.B. Campus, Nainital.  8-10-21
6. Prof. Chitra Pande  
Department of Chemistry,  
D.S.B. Campus, Nainital.  Pande
7. Prof. N.G. Sahoo  
Department of Chemistry,  
D.S.B. Campus, Nainital.  Sahoo
8. Prof. S.C. Sati (Dean Faculty of Science)  
D.S.B. Campus Nainital.
9. Dr. S.C. Mishra (Co-Opted Members)  
Incharge, Department of Chemistry  
M.B. Govt. P.G. College, Haldwani  S.C.
10. Dr. Jagmohan Singh (Incharge)  
Department of Chemistry  
Govt. P.G. College, Ramnagar.  Jagmohan

**Minutes of the meeting.**

निम्न पाठ्यक्रमों पर विस्तार से चर्चा की गयी।

1. बी.एस-सी. वार्षिक पद्धति 2021-2022। - 01
2. बी.एस-सी. समेस्टर दो प्रश्न पत्र 2020-2021। - 02
3. बी.एस-सी. समेस्टर तीन प्रश्न पत्र 2020-2021। - 03
4. बी.एस-सी. (आनर्स) रसायन 2020-2021। - 04
5. एम.एस-सी. रसायन विज्ञान (सी.बी.सी.एस. पद्धति) 2020-2021। - 05
6. एम.एस-सी. रसायन विज्ञान समेस्टर पद्धति 2020-2021। - 06
7. प्री.पी.एच-डी. कोर्स (नैचुरल प्राइक्ट्स)। - 07
8. प्री.पी.एच-डी. कोर्स (नैनोटेक्नोलोजी)। - 08

उपर्युक्त सभी पाठ्यक्रमों पर पाठ्यक्रम समिति के सदस्यों में विस्तार से बिन्दुवार चर्चा हुयी।

1. बी0एस0-सी0 वार्षिक पद्धति के पाठ्यक्रम पर दिनांक 19/10/2019 की बैठक में सदस्यों द्वारा जो सुझाव दिये थे, उन सुझावों का पाठ्यक्रम में समावेश कर लिया गया तथा पाठ्यक्रम को सभी सदस्यों द्वारा अनुमोदित कर लिया गया तथा पाठ्यक्रम 2021-2022 शैक्षणिक सत्र से लागू किया जायेगा।
2. बी0एस0-सी0 सेमेस्टर पद्धति (दो प्रश्न पत्र तथा तीन प्रश्न पत्रों) के पाठ्यक्रमों में कुछ त्रुटियों को ठीक करने के सुझाव के साथ-साथ नई पुस्तकों को जोड़ने का सुझाव दिया गया, पाठ्यक्रम अनुमोदित किया गया।
3. बी0एस0-सी0 (आनर्स) का पाठ्यक्रम जो कि कुमाऊँ विश्वविद्यालय से सम्बद्ध कुछ निजी विद्यालयों में पिछले शैक्षणिक सत्र से चलाया जा रहा है, चर्चा के बाद अनुमोदित कर लिया गया।
4. विश्वविद्यालय कार्य परिषद की 144 वीं बैठक दिनांक 27/11/2020 के मद संख्या 15 में लिये गये निर्णय एवं माननीय कुलपति जी के आदेश दिनांक 15/01/2021 के अनुपालन में स्नातकोत्तर स्तर पर सत्र 2020-2021 से च्वाइस वेस्ट क्रेडिट सिस्टम (सी.बी.सी.एस.) प्रणाली को लागू किया गया।

उपरोक्त सम्बन्ध में संकाय स्तर पर कोई चर्चा नहीं की गयी। सी.बी.सी.एस. पाठ्यक्रम विभागीय स्तर पर तैयार किया गया, चूकि शैक्षणिक सत्र प्रारम्भ हो चुका है अतः पाठ्यक्रम में कोई भी संशोधन करना छात्र हित में नहीं होगा। ऐसा निर्णय लिया गया तथा पाठ्यक्रम जिस रूप में प्रस्तुत किया गया उसी रूप में सदस्यों द्वारा अनुमोदित कर लिया गया।

5. एम0एस-सी0 सेमेस्टर पद्धति के पाठ्यक्रम में जो थोड़े-थोड़े परिवर्तन किये गये थे, चर्चा के उपरान्त उनको स्वीकार कर लिया गया तथा पाठ्यक्रम को सर्वसम्मति से अनुमोदित कर लिया गया।
6. प्रि0-पीएच0डी0 पाठ्यक्रम के तहत शोधार्थी द्वितीय प्रश्न पत्र (रसायन विज्ञान) का अध्ययन विभागीय स्तर पर करते हैं, अभी तक सारे शोधार्थी चाहे वो कार्बनिक रसायन हों या भौतिक रसायन के, एक ही पाठ्यक्रम का अध्ययन करते आये हैं। विभाग में नैनो विज्ञान व नैनोटेक्नोलॉजी केन्द्र की स्थापना 2016 में हुयी थी, तब से काफी शोधार्थी नये क्षेत्र में शोध कार्य कर रहे हैं। अतः शोधार्थियों के लिये उनकी शोध की शाखा के अनुरूप पाठ्यक्रम तैयार किये गये हैं।

अतः यह पाठ्यक्रम बोर्ड के सदस्यों के सम्मुख चर्चा के लिये प्रस्तुत किये गये। चर्चा के उपरान्त पाठ्यक्रमों को सर्वसम्मति से अनुमोदित किया गया।

*Mew*  
08.02.2021

*Jain*  
08.02.2021

*P. S. D.*  
08.02.2021

*Dalvi*  
08/02/2021

*Singh*  
08.02.2021

*R. S.*  
08/02/2021

*Singh*  
08/02/2021