

Seed Sci

For approval  
2/10/17  
2/10/17

**H.N.B. Garhwal University,  
Department of Seed Science & Technology  
Board of Studies (BOS): VIII<sup>th</sup> Meeting  
Date: 07<sup>th</sup> October 2017**

**Time: 10:00 AM**

**Venue: Department of Seed Science & Technology, Chauras Campus,  
HNB Garhwal University Srinagar Garhwal**

**Proceedings of the Meeting**

Meeting of Board of Studies in Seed Science & Technology was held on 07/10/2017 from 10 A.M onwards in the office of the Department of Seed Science and Technology. At the outset, the Chairman welcomed all the members of the Board. Subsequently, the agenda was taken up as mentioned below.

**Agenda-1.**

Approval of minutes of VII meeting of Board of Studies held on 28/03/2017 mainly to issue Certificate to Dr. Anoop Badoni as per UGC regulation (3<sup>rd</sup> Amend.) 2016 registered for Ph.D. prior to 11<sup>th</sup> July 2009. In the meeting, BOS members recommended Chairman, BOS for the issue of the certificate to the above said candidate. Annexure-1

**Resolution:**

**The minutes of the 7<sup>th</sup> meeting of BOS held on 28/03/2017 were approved.**

**Agenda-2.**

To consider the selection of the students for the Ph.D. program in Seed Science & Technology in allotted seats to the subject after conducting the interview/ viva voce/ presentations as per the HNBGU Ph.D. ordinances under Section 28 and clause No. 5.4 and 5.5.

**Resolution:**

**The Committee unanimously recommended the following candidates for the Ph.D. programme in order to merit after thorough interview/presentations and viva voce.**

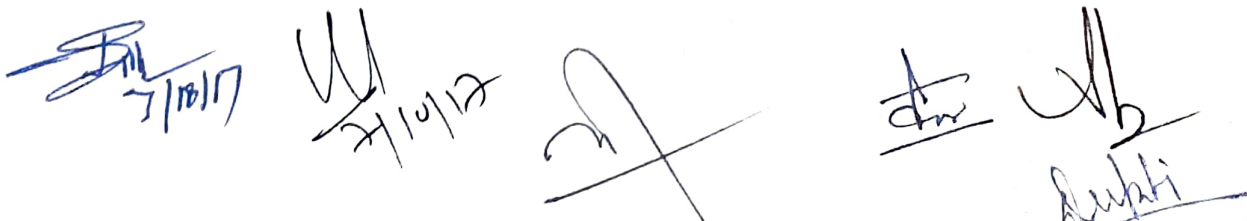
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|---------------------|--------------------------------|
| 1. NAVNEETI CHAMOLI | Category- General (Unreserved) |
| 2. RAKESH SINGH     | Category- OBC                  |
| 3. VIJAY KUMAR      | Category- SC                   |

**Agenda-3.**

To consider the request of Ms. Sobha replacing 2 of the objectives from earlier approved synopsis and include new objective to complete the research work.

**Resolution:**

**On the recommendation of the Supervisor the BOS accepted the request of Ms. Sobha for change in the objectives (mentioned below) as per the provisions of Ph.D. Ordinance under Clause 11(b). Deletion of two of the earlier approved objectives (1) Assessment of seed**

  
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viability by standardized TZ test, and (2) Assessment of seed germination and dormancy breaking techniques, and incorporation of a new objective (1) Regeneration studies of *Taxus baccata* through air layering were approved.

#### Agenda-4.

Approval of the revised and restructured syllabi of Seed Science & Technology for M.Sc (Ag.) and pre-Ph.D students to be implemented from the academic session 2017-18. Revised syllabus placed for consideration and approval as per the HNBGU Ph.D ordinances under Section 28 and clause No. 8(a) and (b). Syllabus is attached as Annexure-6(a-b)

- 1) Syllabus for M.Sc. (Ag.) Seed Science & Technology
- 2) Syllabus for pre-Ph.D course in Seed Science & Technology

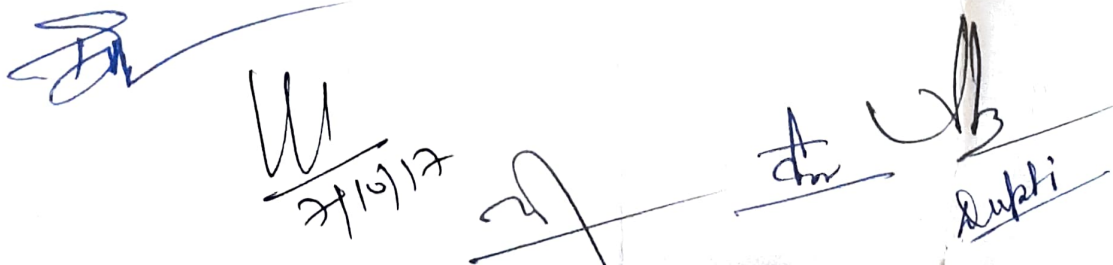
#### Resolution:

**(1) The restructuring, corrections and changes of course in Syllabus of M.Sc.(Ag) Seed Science & Technology has been approved for implementation from 2017-18.**

- Course SAS/ST/C009 *In Situ* and *Ex Situ* Conservation of Germplasm has been replaced by Seed Quality Testing which has been assigned the code SAS/ST/C009 in semester -II.
- Core Course SAS/ST/C013 Seed Deterioration has been removed from the syllabus.
- Seed Marketing and Management has been changed from SAS/ST/C014 to SAS/ST/C013.
- Seed Biotechnology has been changed from SAS/ST/C015 to SAS/ST/C014.
- Code of the Laboratory Course-III has been changed from SAS/ST/C016 to SAS/ST/C015.
- Code of Master's Research Thesis has been changed from SAS/ST/C018 to SAS/ST/C016.
- Course code of Laboratory Course-IV has been changed from SAS/ST/C019 to SAS/ST/C017.
- One of the self study course Biostatistics has been removed from the syllabus and replaced by another course SAS/ST/SS02 -Agriculture Research, Research Ethics and Rural Development Programmes.

**(2) The restructuring, corrections and changes of course in Syllabus of Pre-Ph.D course of Seed Science & Technology has been approved for implementation w.e.f. academic session 2017-18.**

- A new core course SAS/ST/C019- Research Methodology & Computer Application has been introduced in the Syllabus of Pre- Ph.D. course.
- Course code SAS/ST/C020 of Seed Health Testing: Principles and practices has been changed to SAS/ST/C018.


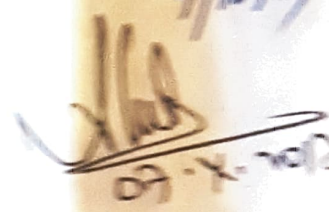
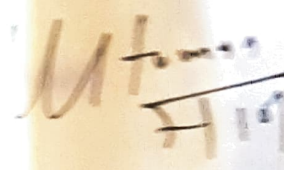

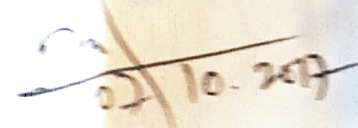

  
The bottom of the page contains several handwritten signatures and dates. On the left, there is a signature and the date 27/10/17. In the center, there is a signature and the date 27/10/17. On the right, there is a signature and the name 'Rupali' written below it.

- Seed Disorder: Allelopathy and Recalcitrance has been changed from SASST E09 to elective course SASST E08.
- Seed Production and cultivation of Medicinal and Aromatic Plant has been changed from SASST E04 to SASST E10.
- The courses SASST E01 Basic Concept in Laboratory Techniques; SASST E02- Germplasm Collection, Exchange and Quarantine; SASST E05- DUS Testing for Plant Variety Protection; SASST E06- Weed Management in Crop Seed Production; SASST E07 Hybrid Seed Production and SASST E08- Intellectual Property and its Management in Agriculture have been removed from the Pre-Ph.D. syllabus.

Agenda 5. Any other item:

No other items were discussed in the meeting. The meeting ended with thanks to the Chair.

The following members were present in the meeting:

- |  |                      |   |
|--|----------------------|---|
| 1. Prof. J.S. Chauhan<br>HOD, Seed Science & Tech, HNB GU, Srinagar  | Chairperson          | <br>27/10/17     |
| 2. Prof. Anil Kumar<br>Professor & Head<br>College of Basic Sciences & Humanities<br>University of Agriculture and Technology,<br>Daud Nagar (Uttaranchal) | Member<br>(External) | <br>09-10-2017  |
| 3. Dr. B.S. Tumar<br>Head Principal Scientist<br>Division of Vegetable Science,<br>IARI New Delhi-110 022  | Member<br>(External) | <br>27/10/17   |
| 4. Prof. A.R. Nautiyal<br>HAPPRC, HNB Garhwal University, Srinagar   | Member               | <br>27.10.17   |
| 5. Prof. P.P. Bhat<br>Department of Botany, HNB Garhwal University, Srinagar   | Member               | <br>27/10-2017 |
| 6. Dr. Deepti Prabha<br>Assistant Professor<br>Department of Seed Science & Technology,<br>HNB Garhwal University, Srinagar                                | Member               | <br>27/10/2017 |

Hon'ble V.C.

Sin approval may please  
be accorded to the minutes  
of the III BOS of the Seed Sc &  
Technology.

Minuted  
21/10/17

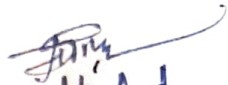



Hon'ble VC

**H.N.B. Garhwal University,**  
**Department of Seed Science & Technology**  
**Board of Studies (BOS): 13<sup>th</sup> Meeting**  
**Date: 19<sup>th</sup> October 2019**  
**Time: 10:00AM**

**Venue: Department of Seed Science & Technology, Chauras Campus,  
HNB Garhwal University, Srinagar Garhwal**

**Proceedings of the Meeting**

Meeting of the Board of Studies of Seed Science & Technology was held on 19<sup>th</sup> October, 2019 at the Department of Seed Science & Technology at Chauras Campus. Following members were present.

- |   |   |          |   |
|---|---|----------|---|
| 1. Prof. J.S. Chauhan, HOD, Seed Science & Technology   | - | Chairman |    |
| 2. Prof. Atul Kumar, Head, Department of Plant Physiology<br>GB Pant University of Agriculture & Technology | - | Member   |    |
| 3. Prof. A.R. Nautiyal, Director/HOD, HAPPRC<br>HAPPRC, HNBGU Srinagar Garhwal                              | - | Member   |    |
| 4. Prof. Y. P. Sundriyal<br>Dept. of Geology, HNBGU Srinagar Garhwal  | - | Member   | ARSENT  |
| 5. Dr. Deepti Prabha<br>Assistant Professor<br>Department of Seed Science & Technology, HNBGU               | - | Member   |  |

At the outset, the Chairman extended a warm welcome to all the members and acknowledged their interest in the academic eventuality, of the Department. Thereafter, the agenda items were taken up for deliberations.

**Agenda Item No. 1:** Approval of minutes of 12<sup>th</sup> meeting of Board of Studies held on 25/02/2019.

**Brief:** 12<sup>th</sup> meeting of Board of Studies held to consider the enhancement of seats in M.Sc. (Ag.) Seed Science & Technology as per the communication from HRD and the Decision of the University.

**Resolution:** The Board of Studies (BOS) confirmed the minutes of 12<sup>th</sup> meeting of BOS held on 25/02/2019.

Annexure-1

**Agenda Item No. 2. Approval of progress reports of Ph.D. students.**

- (1) The consolidated progress reports of Ms. Navneeti Chamoli, a Ph.D. student submitted in Seed Science & Technology was placed for consideration and approval as per the HNBGU Ph.D. ordinances under section 28 and clause 11 (a). The progress reports are attached as **Annexure-2**.

1<sup>st</sup> year progress report (six monthly) (from 10/11/2017 to 09/11/2018)  
2<sup>nd</sup> year progress report (six monthly) (from 10/11/2018 to 10/10/2019)

**Resolution: The consolidated progress report of Ph.D. student Ms. Navneeti Chamoli submitted and presented before the Board were approved.**

- (2) The consolidated progress report of Mr. Rakesh Negi, a Ph.D. student submitted in Seed Science & Technology was placed for consideration and approval as per the HNBGU Ph.D. ordinances under section 28 and clause 11 (a). The progress reports are attached as **Annexure-3**

1<sup>st</sup> year progress report (six monthly) (from 10/11/2017 to 09/11/2018)  
2<sup>nd</sup> year progress report (six monthly) (from 10/11/2018 to 10/10/2019)

**Resolution: The consolidated progress reports of Ph.D student Mr. Rakesh Negi submitted and presented before the Board were approved.**

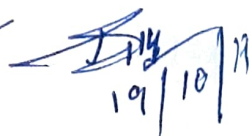
- (3) The consolidated progress report of Mr. Ranbeer Singh, a Ph.D. student submitted in Seed Science & Technology was placed for consideration and approval as per the HNBGU Ph.D ordinances under section 28 and clause 11 (a). The progress reports are attached as **Annexure-4**

1<sup>st</sup> year progress report (from 14/03/2014 to 13/03/2015)  
2<sup>nd</sup> year progress report (from 14/03/2015 to 13/03/2016)  
3<sup>rd</sup> year progress report (from 14/03/2016 to 13/03/2017)  
4<sup>th</sup> year progress report (from 14/03/2017 to 13/03/2018)  
5<sup>th</sup> year progress report (from 14/03/2018 to 13/03/2019)  
6<sup>th</sup> year progress report (from 14/03/2019 to 19/03/2019)

**Resolution: The consolidated progress reports of Ph.D. student Mr. Ranbeer Singh submitted and presented before the Board were approved.**

**Agenda Item No. 3:** Re-registration request of Mr. Ranbeer Singh is placed for consideration and approval of the same as per the HNBGU Ph.D. Ordinances under section 28 and clause-11(a) para 4. **Annexure-5**

**Resolution:** Request of Mr. Ranbeer Singh seeking re-registration for completion of Ph.D. thesis on the expiry of 5 years was placed in BOS and discussed thoroughly at length by the BOS. After considering the reasons stated by the candidate in his application dully recommended by



the supervisor, the Board of studies accepted the request and recommended the request and forwarded application to the Dean, School of Agriculture & Allied Science and necessary action under the provision of Clause 11 (a) of the Ph.D. ordinance.

**Agenda Item No. 4:** To consider the Pre-submission presentation/seminar of Ph.D. Mr. Ranbeer Singh as per the University Ordinances for Ph.D under Section 28 and 11(C).

**Resolution:** Pre-submission presentation/seminar of Ph.D. Thesis given by Mr. Ranbeer Singh as per University Ordinances for Ph.D under Section 28 and Clause 11(C) approved by the Board.

**Agenda Item No. 5. Consideration and approval of the Course Outcome and Specific Outcome of M.Sc. (Ag.) Seed Science & Technology.**

### PROGRAMME SPECIFIC OUTCOME

Students having a postgraduate degree (agriculture) in Seed Science and Technology have many career opportunities. Apart from the state/Central competitive examinations, they can work in private as well as Government sectors. Besides this, there are many self-employment opportunities. There are posts of Seed Testing Officer, Seed Production Officer in the private sector where students can seek out job opportunities. Teaching is another career opportunity. If candidates are interested to work in private sector, then they can pursue their career as seed breeder. They can give advice to their clients by opening their own office on how to manage and design farms and gardens. They can also pursue their career as Horticulture consultant. They can start an agricultural clinic for providing professional extension service to the farmers. Aspirants can pursue their career as seed dealer, seed producer and fruit / vegetable grower. They can start up florist shops or indoor mushroom cultivation business.

### COURSE OUTCOME

**Name of the Course: Master of Science (Agriculture) Seed Science & Technology**

#### SAS/ ST/ C001 Floral Biology, Seed Development and Maturation


To refresh the basic knowledge of seed development and structures and applications with its relevance to production of quality seed.

#### SAS/ ST/ C002 Principles of Seed Production

To introduce the basic principles of quality seed production

#### SAS/ ST/ C003 Genetics and Plant Breeding

This course is aimed at understanding the basic concepts of genetics, helping students to develop their analytical, quantitative and problem solving skills from molecular genetics. To impart theoretical knowledge and practical skills in achieving breeding objectives, modes of reproduction and genetic consequences, breeding for crop improvement. Also to provide understanding about mechanisms of genetic diversity and its exploitation for yield improvement through conventional and biotechnological approaches.



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## Seed Physiology

SAS/ST/C004

To provide an insight into physiological processes governing seed quality and its survival.

SAS/ST/C005

## Seed Processing and Storage

To impart knowledge on the principles and techniques of seed processing for quality upgradation and of storage for maintenance of seed quality.

\*SAS/ST/BC01

## Introductory Agriculture (A Fundamental Concept) (Bridge Course only for Non-Agriculture Graduates)

The students coming from biology background i.e. non-agriculture graduates have to pass a bridge course on Introductory Agriculture. This is to impart knowledge about various aspects of basic agriculture such as the Indian agriculture, scope and food resources, soil and fertilizers. Further the students have to aware about fundamentals of horticulture, silviculture and scope of agro forestry.

SAS/ST/C007

## Seed Production in Vegetables

To impart a comprehensive knowledge of seed production in vegetable crops with adequate practical training.

SAS/ST/C008

## Seed Legislation and Certification

To apprise students with the legislative provisions and processes and the mechanisms of seed quality control.

SAS/ST/C009

## Seed Quality Testing

To provide a comprehensive knowledge on all aspects of seed quality evaluation and their relevance to crop performance.

SAS/ST/C010

## Seed Pathology

To acquaint the students with principles and practices of seed health tests and management of seed borne diseases.

SAS/ST/C011

## Intellectual Property and its Management in Agriculture

The main objective of this course is to equip students and stakeholders with knowledge of intellectual property rights (IPR) related protection systems, their significance and use of IPR as a tool for wealth and value creation in a knowledge-based economy.

SAS/ST/C013

## Seed Marketing and Management

To apprise students about the seed supply system, concepts and principles of effective marketing of seed and strengths and weaknesses of the seed sector.

SAS/ST/C014

## Seed Biotechnology

The course is aimed at understanding the basic concepts of seed biotechnology and to impart theoretical knowledge and practical skills used in agricultural biotechnology.



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**SAS/ ST/ E001      Basic Concepts in Laboratory Techniques**

To acquaint the students about basics of commonly used techniques and safety in laboratory.

**SAS/ ST/E002      Germplasm Collection, Exchange and Quarantine**

To provide information about collection, germplasm exchange, quarantine, maintenance and use of plant genetic resources including genetically modified plants.

**SAS/ ST/ E003      Seed Production in Field Crops**

To impart a comprehensive knowledge of seed production in field crops with adequate practical training.

**SAS/ ST/ E004      Seed Production and Cultivation of Medicinal and Aromatic Plants (MAPs)**

Medicinal and aromatic plants (MAP) cultivation, processing and marketing is an upcoming agro-industry in this field which is changing the lifestyles of a number of growers and entrepreneurs. Task of collection of medicinal plants from forests and make analysis on raw materials in laboratories. To grow the medicinal plants and lead to the release of a number of high yielding cultivars, development of their agro-technologies, processing technologies and product technologies.

**SAS/ST/ SS01      Emerging Trends in Seed Quality Enhancement**

To update knowledge on seed quality enhancement technologies and their application.

**SAS/ ST/E005      DUS Testing for Plant Variety Protection**

To provide a comprehensive understanding of Distinctness, Uniformity and Stability (DUS) testing, its conduct and significance to plant variety protection (PVP).

**SAS/ ST/E006      Weed Management in Crop Seed Production**

To acquaint students about weed control which is the process of limiting infestation of the weed plant so that crops can be grown profitably. Management of weed includes prevention, eradication and control by regulated use, restricting invasion, suppression of growth, prevention of seed production and complete destruction ultimately lead to weed control. Several cultural practices like tillage, planting, fertilizer application, irrigation etc., are employed for creating favourable condition for the crop. These practices if used properly help in controlling weeds.

**SAS/ ST/E007      Hybrid Seed Production**

To provide a comprehensive knowledge and practical exposure to hybrid seed production in field crops and vegetables.

**SAS/ ST/SS02      Agricultural Research, Research Ethics and Rural Development Programmes**

To enlighten the students about the organization and functioning of agricultural research systems at national and international levels, research ethics, and rural development programmes and policies of Government.







  
19-10-19







H.N.B. Garhwal University,  
Department of Seed Science & Technology  
Board of Studies (BOS): 14<sup>th</sup> Meeting  
Date: February 22, 2020  
Time: 10:00AM

Venue: Department of Seed Science & Technology, Chauras Campus,  
HNB Garhwal University, Srinagar Garhwal

**Proceedings of the Meeting**

Meeting of the Board of Studies of Seed Science & Technology was held on February 22, 2020 at the Department of Seed Science & Technology at Chauras Campus. Following members were present.

- |   |   |          |   |
|---|---|----------|---|
| 1. Prof. J.S. Chauhan, HOD, Seed Science & Technology   | - | Chairman |  |
| 2. Prof. Atul Kumar, Head, Department of Plant Physiology<br>GB Pant University of Agriculture & Technology | - | Member   |  |
| 3. Prof. A.R. Nautiyal, Director/HOD, HAPPRC<br>HAPPRC, HNBSGU Srinagar Garhwal                             | - | Member   |  |
| 4. Prof. Y. P. Sundriyal<br>Dept. of Geology, HNBSGU Srinagar Garhwal                                       | - | Member   |   |
| 5. Dr. Deepti Prabha<br>Assistant Professor<br>Department of Seed Science & Technology, HNBSGU              | - | Member   |  |
| 6. Dr. A. Pattnaik,<br>Director, ICAR<br>Viveka Nand Parvatiya Krish Anusandhan Sansthan Almora             | - | Member   |   |

Dr. Pattnaik could not attend the meeting due to his new joining at IIAB, Ranchi. Prof. Y.P. Sundriyal was out of station on the University duty.

At the outset, the Chairman extended a warm welcome to all the members and acknowledged their interest in the academic activities of the Department. Thereafter, the agenda items were taken up for deliberations.

**Agenda Item No. 1:** Approval of minutes of 13<sup>th</sup> meeting of Board of Studies held on 19/10/2019.

**Brief:** 13<sup>th</sup> meeting of Board of Studies held to consider the progress reports, re-registration request and pre submission presentation of Ph.D. students considered and approved. The Court


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also approved by the Board.

**Resolution:** The Board took note of the above brief.

**Agenda Item No. 2:** Approval of the revised and re-structured syllabi of Seed Science and Technology for M.Sc (Ag.) and Pre-Ph.D students to be implemented from the academic year 2020-2021. Revised syllabus placed for consideration and approval as per the HNBGU ordinances under section 28 and Clause no. 8(a) and (b). Syllabus is attached as Annexure-1 and Annexure-2.

**Resolution:**

**(1) The restructuring, corrections and changes of course in syllabus of M.Sc. (Ag.) Science and Technology has been approved for implementation from 2020-2021.**

- Title of the paper SAS/ST/C002 – Principles of Seed Production has been changed to Seed production: principles and practices.
- Title of the paper SAS/ST/C004 – Seed Physiology has been changed to Physiology of Seed.
- Title of the paper SAS/ST/C005 – Seed Processing and Storage has been changed to Processing, Storage and Deterioration. One unit is also added to the syllabus.
- Title of the paper SAS/ST/C010- Seed Pathology has been changed to Seed Pathology and Quarantine. New Syllabus related to quarantine has also been added to the paper.
- Title of the paper SAS/ST/C011- Seed Production in Vegetables has been changed to Principles and Techniques in Vegetable Seed production.
- New elective course SAS/ST/E008- Seed Entomology is included in M.Sc. syllabus.

**(2) The restructuring, corrections and changes of course in syllabus of Pre-Ph.D. Science and Technology has been approved for implementation from 2020-2021.**

- \*As per UGC guideline (D.O.No.F.1-1/2018 dated December 2019) SAS/ST/E008- Research Publication and Ethics is included as core course in Ph.D. Syllabus.
- Course code SAS/ST/E008- Seed Disorder, Allelopathy and Recalcitrant Change to SAS/ST/E009.
- Course code SAS/ST/E009- Testing for Genuiness and Purity of Cultivars change to SAS/ST/E010.
- Course code SAS/ST/E010- Seed Production and Cultivation of Medicinal and Aromatic Plants (MAPs) changes to SAS/ST/E011.
- One new elective courses SAS/ST/E012- Tree Seed Technology added to Ph.D. Syllabus.
- One new elective course SAS/ST/E013- Advances in Seed Science Research is added to the syllabus.

\*The Board had a detail discussion on the introduction of the Course on Research Publication and Ethics and existing Ph.D. Ordinance of the university and adopted the new course.

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*22/11/2020*

**Agenda Item No. 3.**

To consider the Departmental Academic Integrity Panel (DAIP) received as per directives of UGC and university letter no. Academic/2020/57 dated 12/02/2020.

**Resolution**

**Annexure -3.**

In view of direction of UGC and university letter no. Academic/2020/57 dated 12/02/2020, the Departmental Academic Integrity Panel (DAIP) for Seed Science & Technology is constituted as follows:

1. Chairman- HOD, Seed Science & Technology
2. Member- Dr. Deepti Prabha, Assistant Professor, Dept. of Seed Science & Technology, Birla Campus, HNBSGU, Srinagar (Garhwal).
3. Member- To be nominated by the Vice Chancellor (Head of HEI)

**Agenda item no. 4.** To consider the selection of the students for the Ph.D. program in Seed Science & Technology in allotted seats to the subject after considering the interview/viva voce/presentations as per the HNBSGU Ph.D. ordinances under section 28 and clause no. 5.4 and 5.5.

**Annexure: 4**

**Resolution:**

The committee unanimously recommended the following candidates for the Ph.D. programme in order to merit after thorough interview/presentations and viva voce.

- |                       |  |
|-----------------------|--|
| 1. Vinay Chamoli      | Category – GEN (under Exempted Category – NET) |
| 2. Mukut Vihari Meena | ST   |


**Agenda Item No. 5:** Preparation of the list of the subject experts in Seed Science & Technology for different purposes of the University.

**Resolution:**

The list of the subject experts has been prepared and approved by the Board.

**Agenda item no. 6.** Any other item

No other item was placed for consideration. The Meeting concluded with vote of thanks to all the members of the Board.

  
 Prof. A.R. Nautiyal  
 Member  
 22.02.2020

  
 Prof. Atal Kumar  
 Member  
 22/02/2020

  
 Dr. Deepti Prabha  
 Member

  
 Prof. J.S. Chauhan  
 Chairman

~~शैक्षिक संसद 2020-20~~ पाठ्यक्रम समिति सचिव साइंस विषय की  
 बैठक दिनांक 22-2-20 से तब तक जोय निर्णयों में मदद  
 स्कूल कोड भरवा जाना है। बोर्ड विद् BMS के लिए है।  
 डॉ. आननोया कुलपति जी के आभारों के लिए  
 22/02/20  
 DR/IA

SAS/ST/C020 adding two credits to the Core Courses. However, the Board recommends that restructuring of the Courses may be done as per the Ph.D. Ordinance of the university under "Structure of the Course Work" u/s 5.

**Agenda Item No. 3.**

To consider the Departmental Academic Integrity Panel (DAIP) received as per directives of UGC and university letter no. Academic/2020/57 dated 12/02/2020.

**Annexure -3.**

**Resolution**

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1. Chairman- HOD, Seed Science & Technology
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**Agenda item no. 4.** To consider the selection of the students for the Ph.D. program in Seed Science & Technology in allotted seats to the subject after considering the interview/viva voce/presentations as per the HNBGU Ph.D. ordinances under section 28 and clause no. 5.4 and 5.5.

**Annexure: 4**

**Resolution:**

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**Resolution:**

The list of the subject experts has been prepared and approved by the Board.

**Agenda item no. 6.** Any other item

No other item was placed for consideration. The Meeting concluded with vote of thanks to all the members of the Board.

  
22.02.2020  
Prof. A.R. Nautiyal  
Member

  
22/2/2020  
Prof. Atal Kumar  
Member


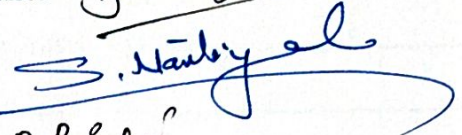
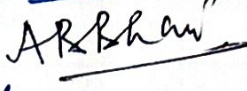



  
Dr. Deepti Prabha  
Member

  
Prof. J.S. Chauhan  
Chairman




~~सैद्धिक संक 2020-20 पाठ्यक्रम समिति सेंट्रल साइंस विषय की बैठक दिनांक 22-2-20 में तैयार गये निर्णयों में मद सं 02 स्कूल कोड में रखा जाना है। जो कि B05 में लिखित है।  
डा. आनर्षिया कुलपति जी के आदेशानुसार  
22/2/20  
50/1/2020~~

**Proceedings of the 9<sup>th</sup> Board of Studies(BOS) in Forestry and Natural Resources, H.N.B. Garhwal University, held on 27/09/2017 and 28/09/2017 in the Committee room of Department of Forestry and NR.**

The 9<sup>th</sup> meeting of the BOS in Forestry and NR was held on 27/09/2017 and 28/09/2017 in the Committee room of Department of Forestry and NR at 10:30 AM onwards. The following members were present:

- |                         |                     |   |
|-------------------------|---------------------|---|
| 1. Dr. A. K. Negi       | Chairman / Convenor |  |
| 2. Dr. Subhash Nautiyal | External Expert     |  |
| 3. Prof. A. B. Bhatt    | Member              |   |
| 4. Prof. P. Prasad      | Member              |   |
| 5. Dr. D. S. Chauhan    | Member              |   |
| 6. Dr. B.P. Chamola     | Member              |   |

In addition following faculty members of the department were also present to discuss the progress of Ph.D students.

- |                       |   |
|-----------------------|---|
| 1. Dr. Munesh Kumar   |   |
| 2. Dr. S. S. Phartyal |  |
| 3. Dr. S. Dasgupta    |  |

The meeting started with the welcome address by the chairman followed by the subsequent discussion of agenda items.

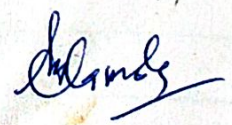
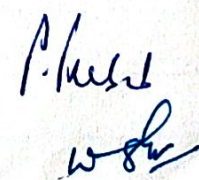
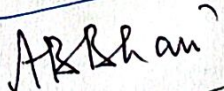
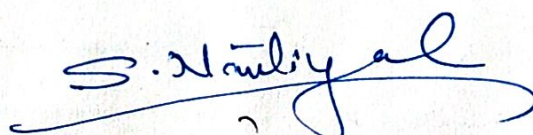
**Agenda item 1.** Confirmation of minutes of BOS meeting held on 20/02/2017.

**Resolution:** BOS confirmed the minutes of the 8<sup>th</sup> BOS meeting held on 20/02/2017.

**Agenda item 2.** Amendment of Pre-PhD syllabus as per UGC regulation 2016 for M.Phil/PhD degree and subsequent ordinance for award of PhD degree by university 2017.

**Resolution:** Amendment as per the University ordinance for admission and award of Ph.D students were discussed in detail and the following changes were decided and approved.

- Modification in Core Course Contents and syllabus for Pre Ph.D Course Work. (Annexure-1 )
- Course contents for elective courses remained unchanged.



**Agenda item 3.** Reshuffling and change in B.Sc. Forestry syllabus.

**Resolution:** Approved as follows with effect from Session 2018 – 2019 (**Revised Syllabus; Annexure: 2**)

- *SOA/FC112T Forest Engineering and Survey and SOA/FC113P Forest Engineering and Survey Practical* to be shifted from Semester III to Semester IV.
- *SOA/FC115T Principles and practices of Silviculture and SOA/FC115P Principles and practices of Silviculture-Practical* to be shifted from Semester IV to Semester III.

Since both the course has same credit, there will be no change in the total credit allotted to the respective semesters.

- Issues related to B.Sc. syllabus was discussed in detailed and agreed upon the following:

- Considering the utility and time constrain the following families has been removed from the course SOA/FC123T Dendrology.
  - a. Rhizophoraceae
  - b. Ebenaceae
  - c. Sapotaceae
  - d. Elaeagnaceae
  - e. Liliaceae
  - f. Glusiaceae
  - g. Combretaceae
- Whereas Family added in the course SOA/FC123T Dendrology is: Cuprassiaceae
- The Course SOA/FE108T Tribology and Anthropology (2 credit) is removed from the B.Sc. Forestry syllabus. Instead the Courses SOA/FE121T Introductory Microbiology ( 1 credit) and Course SOA/FE121P Introductory Microbiology-Practical ( 1 credit) are agreed to be included. Syllabus for which is also decided and agreed upon.

**Agenda item 4.** External examiner shall be appointed for evaluation of M.Sc. term papers (Forestry) in affiliated college instead internal evaluation.

**Resolution:** Agreed as it is. To be implemented w.e.f this semester (July 2017 onwards)

**Agenda item 5.** In B.Sc.(Forestry) practical examination (CBCS), 100 (70 + 30) allotted marks shall be given by external examiner.

**Resolution:** Agreed as it is. To be implemented w.e.f this semester (July, 2017 onwards)

**Agenda item 6.** Consideration and verification of applications received as per 4<sup>th</sup> amendment UGC regulation 2016.

**Resolution:** Dr. Mahabir Singh Kaletha applied for the Ph.D certificate. All the documents required as per 4<sup>th</sup> amendment of UGC regulation 2016 was for Dr Mahabir Singh Kaletha has been verified and recommended to forward the same for issuance of the certificate. (**Annexure -3**)

**Agenda item 7.** Presentation of half yearly progress report by registered PhD students.

**Resolution:** The following Ph.D students presented their respective progress report. Progress of the students was found to be satisfactory. Suggestions made by the BOS and faculty members were noted by the respective students for improvements and incorporation in further research work and analysis. (**Annexure-4**)

*Handwritten signatures:*  
Jadhav  
S. Nandiyal  
P. Huss  
Sharma  
ABRhan  
w/h  
Chh

Students who presented their progress are:

1. Mr. Kundan Kumar Vikrant
2. Miss. Sushma Rawat ✓
3. Mr. Bhubnesh Nagar
4. Mr. Dharamveer
5. Mr. Rathiesh P.
6. Mr. Dinesh Singh
7. Mr. Shashidhar Kumar Jha
8. Mr. Vijay Kumar Yadav

**Agenda item 8.** Interview and presentation for admission of New PhD qualified candidate Pre-PhD Entrance examination-2017.

**Resolution:** Interview and presentation for admission of New Ph.D students as per the list provided by the University (letter no/HNBSGU/2017/27 dt. 12/09/2017) was made in front of BOS members and faculty members of the department. Details of which are provided as following is the summary and recommendation of the committee members (Annexure : 5)

Number of students reported: Eight (8)

Number of Students appeared in the interview: Seven (7)

Number of seats available: Five (5) (Gen-2, OBC-2, Sc-1)

Category wise list of students as per their merit after interview:

1. Mr. Prabhakar Manori (GEN)
2. Ms. Nandita Negi (GEN)
3. Radheshyam J. (OBC)
4. Ms. Amreen (OBC)
5. Mr. Pankaj Lal (SC)

**Agenda item 9.** Consideration of Mr. Atif Hussain and Mr. Shaukat Azim application regarding relaxations of progress report presentation in this BOS.

**Resolution:** Mr. Aatif Hussain and Mr. Showkat Aziem applied for this relaxation on the reason that they have recently got a job and joined the same in the state of J&K. Their request has been considered with a condition that both the students must present their yearly progress in the next BOS. (Annexure: 6)

**Agenda item 10.** Any other items as per the request of BOS members.

**Resolution:** None

Dr. A. K. Negi (Chairman / Convenor)

Dr. Subhash Nautiyal (External Expert)

Prof. A. B. Bhatt (Member)

Prof. P. Prasad (Member)

Dr. D. S. Chauhan (Member)

Dr. B.P. Chamola (Member)

*[Handwritten signatures of Dr. A. K. Negi, Dr. Subhash Nautiyal, Prof. A. B. Bhatt, Prof. P. Prasad, Dr. D. S. Chauhan, and Dr. B.P. Chamola]*

*(11)*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*  
Convenor  
BOS  
Forestry & NR

**Proceedings of the 16<sup>th</sup> Emergency Board of Studies (BOS) in Forestry and Natural Resources, H.N.B. Garhwal University, held on 14-08-2019 in the Committee room of Department of Forestry and NR.**

The 16<sup>th</sup> meeting of the Emergency BOS in Forestry and NR was held on 14/08/2019 in the Committee room of Department of Forestry and NR at 3.00 PM onwards. The following members were present:

1. Dr. A. K. Negi

Chairman / Convener

2. Dr. D. S. Chauhan

Member

3. Dr. B.P. Chamola

Member

4. Dr. Munesh Kumar

Member

The meeting started with the welcome address by the chairman followed by subsequent discussion on agenda items.

**Item 1.** Confirmation of minutes of 15<sup>th</sup> BOS meeting held on 01-05-2019

**Resolution:** BOS confirmed the minutes of the 15<sup>th</sup> BOS meeting held on 01-05-2019.

**Item 2:** To approve outcome of the Course Curriculum (Syllabus) of B.Sc. 4 years and M.Sc 2 years (Forestry)

**Resolution:** All the BOS members unanimously agreed to approve outcome of the Course Curriculum (Syllabus) of B.Sc. 4 years Course and M.Sc 2 years course (Forestry). These out comes were made by faculty members and other related subject experts of other Departments.

**Item 3:** Approval of panel of experts for subject forestry as directed by University.

**Resolution:** The list of panel consisting 10 (Ten) experts was approved by BOS ( Seal envelop enclosed)

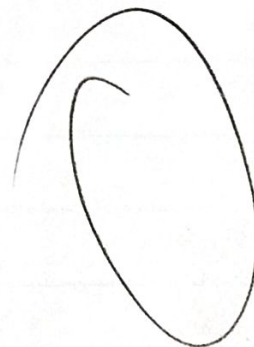
Any other item: None

1. Dr. A. K. Negi

2. Dr. D. S. Chauhan

3. Dr. B.P. Chamola

4. Dr. Munesh Kumar





Chairperson: School Board, School of Agriculture and Allied Sciences

~~Minutes~~

Hon'ble VC. for kind approval pl.

Dean

School of Agriculture & Allied Sciences

H.N.B. Garhwal University

(Central University)

P.O. Box-59

Srinagar Garhwal-246174 Uttarakhand

It examine as per verbal order of Hon'ble VC.

9/9  
Dean

So (Academic)

6/9/19

All minutes may be approved pl.  
Agenda No (2) & (3) needs to be  
put up in school Board by  
the concern H.O.D.

'X'

~~pl. A/~~

6/9/19

Submitted for kind approval of minutes  
as per recommendation of Dean and as  
proposed at 'X' above pl.

Registrar  
Hon'ble VC

6/9/19

UPCF

(9) Approved  
7.9.2019

**Resolution:** Interview and presentation for admission of New Pre Ph D students as university guideline was made in front of BOS members and faculty members of the department. Details of which is provided as following is the summary and recommendation of the BOS committee members (Annexure-1)

Number of students reported: 6

Number of Students appeared in interview: 6

Number of seats available: 5 (Gen.-3, OBC-1, SC-1)

Category wise list of students as per their merit after interview:

1. Mr Atul Negi (UR) **I**
2. Mr. Jitendra Singh (UR) **II**
3. Mr Shubam Chauhan (OBC)
4. Mr Dharmendra Shah (UR) **III**
5. Miss Kavita (SC)

**Agenda item 3.** Revision of Pre PhD syllabus as per university letter no Sekshnik/2020/49 11/02/2020

**Resolution:** As per direction of university letter no Sekshnik/2020/49 11/02/2020 and UGC letter no. D.O. No.F.1-1/2018(Journal/CARE), December 19. All BOS members were agreed to inclusion of paper "Research and Publication Ethics (RPE)" as provided by the UGC with letter D.O. No.F.1-1/2018(Journal/CARE), December 19. This shall be 2 Credit course as core paper and after inclusion of this paper, structure of Pre PhD will be as follow

**Structure of the Revised Pre-PhD course work (one semester)**

The course work shall consist of the following:

1. Core Course
2. Elective Course

Core course shall be mandatory for all students and the total number of credit for the core and elective courses shall be 15 with the following pattern.

Code	Title of the paper	Credits (Marks)			
		Theory (External + Sessional)	Term paper	Practical	Total
<b>CORE COURSE</b>					
SOA/F/C561	Research Methodology & Computer Applications	3 (60+20)	-	1(20)	4 (100)
SOA/F/C562	Forestry in context of climate change	2 (60+20)	-	1(20)	3 (100)
SOA/F/C563	Research and Publication Ethics (RPE)	1(60+20)		1(20)	2(100)
<b>Elective Course</b>					
SOA/F/E571	Cultivation of commercially important medicinal & aromatic plants	3 (60+20)	-	1(20)	4 (100)
SOA/F/E572	Ecotourism: Concept	3 (60+20)	-	1(20)	4 (100)

SOA/F/E573	and approaches Modern Nursery Production	3 (60+20)	-	1(20)	4 (100)
SOA/F/E574	Application of Remote sensing and GIS	3 (60+20)	-	1(20)	4 (100)
SOA/F/E575	Microbial Biotechnology in forestry	3 (60+20)	-	1(20)	4 (100)

Detail of Syllabus: Annexure: 2

**Agenda item 4:** To constitute of Departmental Academic Integrity Panel (DAIP) as per UGC guideline

**Resolution:** As per direction of UGC and University letter no Academic/2020/57, dated 12/02/2020 the Departmental Integrity Panel (DAIP) as follows

1. Chairman: HOD Forestry
2. Member: To be nominated by the Honorable Vice-Chancellor
3. Member: Prof. R.S. Negi, Department of Rural Technology

**Agenda item 5.** To conduct Ph D thesis Pre Submission presentation of Mr. Showkat Aziem.

**Resolution:** Mr. Showkat Aziem has presented his research work in the form of power point presentation in front BOS members. He has given satisfied answered of asked questions by BOS members. All members were unanimously satisfied with work done by him and recommended his research work for final submission of PhD thesis.

**Agenda item 6.** Presentation of half yearly progress report by registered PhD students.

**Resolution:** Following students has submitted their progress report of his/her work during last half yearly/yearly:

1. Mr. Showkat Aziem
2. Mr. Dinesh Singh
3. Mr. Shashidhar Kumar Jha
4. Mr. Vijay Kumar Yadav
5. Mr. Radhey Shyam
6. Mr. Prabhakar Manoori
7. Miss Amreen Ansari
8. Miss Nandita Negi

9. Mr. Rathiesh. P : All progress Report (6 years) submitted but after telephonically discuss with external member, they were agree to submit the report with

All BOS member were satisfied with their work and suggested some minor correction. They authorized to the HOD for recommendation of his/her progress report. (Annexure: 3)

**Agenda item 7.** None

1. Dr. A. K. Negi
2. Dr. Subhash Nautiyal
3. Prof. J.K. Tiwari
4. Prof. P. Prasad
5. Dr. D. S. Chauhan
6. Dr. B.P. Chamola
7. Dr. Munesh Kumar

Chairman / Convener

External Member

Member

Member

Member

Member

Member

As per 2(ii)(4)

As per 2(ii)(5)

As per 2(ii)(5)

Senior Associate Prof.

Senior Asst. Prof.

Invited

Chairman: School of Agriculture & Allied Sciences

Minutes and Proceedings of the BOS of Forestry & Natural Resources may kindly be approved  
Honble V.C.

Dean

July 24-2-20

School of Agriculture & Allied Sciences  
Central University

Chairperson: School Board: Agriculture & Allied Sciences

पाठ्यक्रम समिति कागजी विषय की बैठक दिनांक  
22-2-2020 से लिख गये निर्णयों के लिये अगस्त 1 से  
07 तक B.O.S. से संस्तुत है।

अतः आननीया कुलपति जी के अनुमोदनार्थ

16  
6/6/20

Schamtu  
6/6/2020  
SO (Acad)

Agenda items no. 3 & 4 needs approval of  
School Board.

Minutes of B.O.S. are submitted for  
kind perusal and approval please.

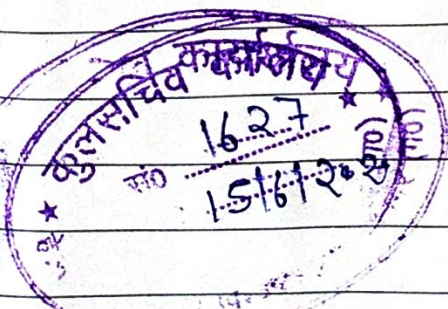
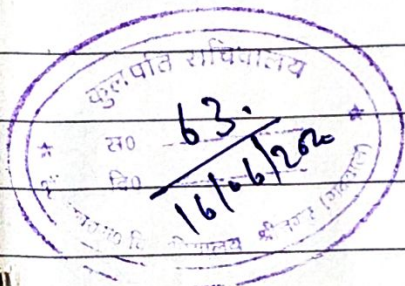
16/6/20

Registrar

15/6/2020  
Hon'ble VC

Approved as proposed

17.6.2020





पत्रांक: /शैक्षणिक / 2019 / 1336 B

दिनांक: 13/8/2019

### OFFICE ORDER

A Meeting of Board of Studies, Department of Forestry & NR has scheduled to be held on 14-8-2019 in Chauras campus from 3:00 P.M. onward.

All the hon'bel members are requested kindly to attend the meeting.

This is issued on the recommendation of the convener, Board of Studies, Department of Forestry and NR

Deputy Registrar

Copy To:

1. Chairman BoS, Department of Forestry & NR with a request to contact the members of BoS.
2. All members of the Board of Studies of Forestry and NR
3. Dean, School of Agriculture and Allied Sciences.

13/8/19  
Deputy Registrar  
RNS

Office Order

A meeting of Board of Studies, Department of Forestry & N.R. has been scheduled to be held on 22-2-2020 in Chauras campus from 11:00 A.M/P.M onward. All the hon'ble members are requested to attend the meeting as per the schedule.

This is issued on the recommendation of the Convenor, Board of Studies, Department of Forestry & N.R. after approval of hon'ble VC. Only three meeting in an academic session is allowed as per order of hon'ble Vice Chancellor. As such, Department should not hold any further meeting of BOS, if three meetings, including the meeting of this BOS has been conveyed by the Department in this current academic session.

Section Officer  
(Academic & Research)

Hemvati Nandan Bahuguna Garhwal University, Srinagar Garhwal

Ref.No: Academic/2020/ 75-

Date... 19/2/2020

Copy to :-


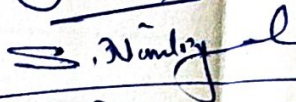

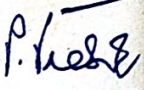


- 1- Convenor-BOS, Department of Forestry & N.R. with a request to contact the members of the BOS.
- 2- All members of the Board of Studies of Forestry & N.R.
- 3- Dean School Agriculture and Allied Sciences
- 4- PS to VC- For kind information of Hon'ble VC.

Schanku  
Section Officer  
(Academic & Research)


Roz

**Proceedings of the 17<sup>th</sup> Board of Studies(BOS) in Forestry and Natural Resources, H.N.B. Garhwal University, held on 22/02/2020 in the Committee room of Department of Forestry and NR.**

The 17<sup>th</sup> meeting of the BOS in Forestry and NR was held on 22/02/2020 in the Committee room of Department of Forestry and NR at 11.00 AM onwards. The following members were present:

1. Dr. A. K. Negi	Chairman / Convener		
2. Dr. Subhash Nautiyal	External Member	As per 2(ii)(4)	
3. Prof. J.K. Tiwari	Member	As per 2(ii)(5)	
4. Prof. P. Prasad	Member	As per 2(ii)(5)	
5. Dr. D. S. Chauhan	Member	Senior Associate Prof.	
6. Dr. B.P. Chamola	Member	Senior Asst. Prof.	

In addition following faculty members of the department were also present to discuss the progress of Ph.D students and for interview

1. Dr. Munesh Kumar	Asst Professor	
---------------------	----------------	---

Agenda of current BOS meeting of the subject forestry shall be as follows

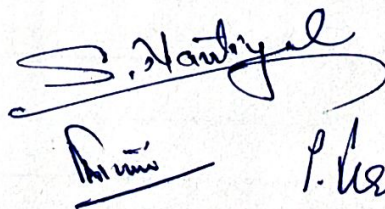
1. Confirmation of previous BOS meetings minutes
2. Conducting the Pre-PhD interview for the admission in the current session.
3. Revision of Pre-PhD syllabus (Forestry) as per new UGC guide lines.
4. To consider Departmental Academic Integrity panel (DAIP)
5. Pre submission Presentation of Mr. Showkat Aziem
6. Half yearly progress report of ongoing Ph.D. students
7. Others ( If proposed by the BOS members)





**Agenda item 1.** Confirmation of minutes of BOS meeting held on

**Resolution:** BOS confirmed the minutes of the 16<sup>th</sup> BOS meeting (14-08-2019)

**Agenda item 2.** Conducting Pre PhD interview qualified candidates of Entrance exam 2019-20 in the subject forestry





**Resolution:** Interview and presentation for admission of New Pre Ph D students as university guideline was made in front of BOS members and faculty members of the department. Details of which is provided as following is the summary and recommendation of the BOS committee members (Annexure-1)

Number of students reported: 6

Number of Students appeared in interview: 6

Number of seats available: 5 (Gen.-3, OBC-1, SC-1)

Category wise list of students as per their merit after interview:

1. Mr Atul Negi (UR) **I**
2. Mr. Jitendra Singh (UR) **II**
3. Mr Shubam Chauhan (OBC)
4. Mr Dharmendra Shah (UR) **III**
5. Miss Kavita (SC)

**Agenda item 3.** Revision of Pre PhD syllabus as per university letter no Sekshnik/2020/49 11/02/2020

**Resolution:** As per direction of university letter no Sekshnik/2020/49 11/02/2020 and UGC letter no. D.O. No.F.1-1/2018(Journal/CARE), December 19. All BOS members were agreed to inclusion of paper "Research and Publication Ethics (RPE)" as provided by the UGC with letter D.O. No.F.1-1/2018(Journal/CARE), December 19. This shall be 2 Credit course as core paper and after inclusion of this paper, structure of Pre PhD will be as follow

**Structure of the Revised Pre-PhD course work (one semester)**

The course work shall consist of the following:

1. Core Course
2. Elective Course

Core course shall be mandatory for all students and the total number of credit for the core and elective courses shall be 15 with the following pattern.

Code	Title of the paper	Credits (Marks)			
		Theory (External + Sessional)	Term paper	Practical	Total
<b>CORE COURSE</b>					
SOA/F/C561	Research Methodology & Computer Applications	3 (60+20)	-	1(20)	4 (100)
SOA/F/C562	Forestry in context of climate change	2 (60+20)	-	1(20)	3 (100)
SOA/F/C563	Research and Publication Ethics (RPE)	1(60+20)		1(20)	2(100)
<b>Elective Course</b>					
SOA/F/E571	Cultivation of commercially important medicinal & aromatic plants	3 (60+20)	-	1(20)	4 (100)
SOA/F/E572	Ecotourism: Concept	3 (60+20)	-	1(20)	4 (100)



	and approaches				
SOA/F/E573	Modern Nursery Production	3 (60+20)	-	1(20)	4 (100)
SOA/F/E574	Application of Remote sensing and GIS	3 (60+20)	-	1(20)	4 (100)
SOA/F/E575	Microbial Biotechnology in forestry	3 (60+20)	-	1(20)	4 (100)

Detail of Syllabus: Annexure: 2

**Agenda item 4:** To constitute of Departmental Academic Integrity Panel (DAIP) as per UGC guideline

**Resolution:** As per direction of UGC and University letter no Academic/2020/57, dated 12/02/2020 the Departmental Integrity Panel (DAIP) as follows

1. Chairman: HOD Forestry
2. Member: To be nominated by the Honorable Vice-Chancellor
3. Member: Prof. R.S. Negi, Department of Rural Technology

**Agenda item 5.** To conduct Ph D thesis Pre Submission presentation of Mr. Showkat Aziem.

**Resolution:** Mr. Showkat Aziem has presented his research work in the form of power point presentation in front BOS members. He has given satisfied answered of asked questions by BOS members. All members were unanimously satisfied with work done by him and recommended his research work for final submission of PhD thesis.

**Agenda item 6.** Presentation of half yearly progress report by registered PhD students.

**Resolution:** Following students has submitted their progress report of his/her work during last half yearly/yearly:

1. Mr. Showkat Aziem
2. Mr. Dinesh Singh
3. Mr. Shashidhar Kumar Jha
4. Mr. Vijay Kumar Yadav
5. Mr. Radhey Shyam
6. Mr. Prabhakar Manoori
7. Miss Amreen Ansari
8. Miss Nandita Negi

9. Mr. Rathiesh. P : All progress Report (6 years) late submitted but after telephonically discuss with external member, they were agree to submit the report Rathiesh

All BOS member were satisfied with their work and suggested some minor correction. They authorized to the HOD for recommendation of his/her progress report. (Annexure: 3)

**Agenda item 7.** None

1. Dr. A. K. Negi
2. Dr. Subhash Nautiyal
3. Prof. J.K. Tiwari
4. Prof. P. Prasad
5. Dr. D. S. Chauhan
6. Dr. B.P. Chamola
7. Dr. Munesh Kumar

Chairman / Convener

External Member  
Member  
Member  
Member  
Member  
Member

As per 2(ii)(4)  
As per 2(ii)(5)  
As per 2(ii)(5)  
Senior Associate Prof.  
Senior Asst. Prof.  
Invited

Rathiesh  
S. Nautiyal  
P. Prasad  
D. S. Chauhan  
B. P. Chamola  
M. K. Negi

Chairman: School of Agriculture & Allied Sciences

Minutes and Proceedings of the BOS of Forestry & Natural Resources may kindly be approved  
Honble V-C

Dean

26-2-20  
School of Agriculture & Allied Sciences  
Central University

Chairperson: School Board: Agriculture & Allied Sciences

पाठ्यक्रम समिति वारिकी विषय की बैठक दिनांक -  
22-2-2020 से लिखे गये निर्णयों में 16 मई 2020 से  
07 तक वि.स. से संस्तुत है।

अतः आननीया कुलपति जी के अनुमोदनार्थ

16  
6/6/20

School Board  
6/6/2020  
SO (Acad)

Agenda items no. 3 & 4 needs approval of  
School Board.

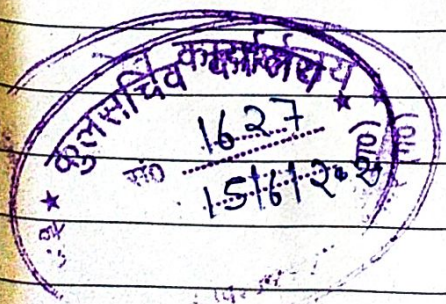
Minutes of B.O.S. are submitted for  
kind perusal and approval please.

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6/6/20

Registrar 15/6/2020

Hon'ble VC

Approved as proposed  
D. S. S. S.  
17.6.2020





Letter: no Acad/2020/322

Dated: 15-9-2020

**OFFICE ORDER**

A Meeting of Board of Studies, Department of Forestry & NR has been scheduled to be held on date, 7, 8 October 2020 in Chauras campus from 11.00 AM/PM. onward.


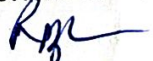
All the hon'ble members are requested to attend the meeting as per schedule. This is issued on the recommendation of the convener, Board of Studies, Department of Forestry & NR

As per order of Hon,ble VC in futuer only 3 BOS meeting be conducted in one year,

Registrar

Copy To

1. Chairman, BoS, Department of Forestry & NR with a request to contact the members of BoS.
2. All members of the Board of Studies of Forestry & NR
3. Dean, School of Agriculture and Allied Sciences

  
15/9/20  
Section Officer  
Academic & Research  




After getting 5<sup>th</sup> Dean Committee Report regarding the revision and adoption of B.Sc (Hons) Forestry (4 year). It was distributed among all faculties of the departments for revision and corrections in their respective papers as per our requirements. Syllabus has also been discussed with Prof. N.P. Todaria (Subject expert). The corrections/ modifications have been made in the syllabus as suggested by the subject expert.

Members of the department have made certain modifications and corrections in their respective papers and also discussed course contents of the syllabus and made unanimous consensus in course contents of B.Sc (Hons) Forestry (4 year) syllabus as follows:

**B.Sc. (Hons) FORESTRY [Eight (8) Semester] CHOICE BASED CREDIT SYSTEM (CBCS SCHEME; AS PER UGC NORMS) OF INSTRUCTIONS AND CREDITS**  
(w.e.f. Session-2021-22)  
**COURSE CONTENTS**

**Semester-wise Courses**

**Semester I**

S.No.	Course Code	Name of the Courses	Credits	Marks		Total
				External	Internal	
<b>Core Course</b>						
1	SOA/FC 101 T	Introduction to Forestry	2	70	30	100
2	SOA/FC 102 T	Dendrology	2	70	30	100
	SOA/FC 102 P	Dendrology	1	100	-	100
3	SOA/FC 103 T	Geology and Soils	2	70	30	100
	SOA/FC 103 P	Geology and Soils	1	100	-	100
4	SOA/FC 104 T	Plant Biochemistry	2	70	30	100
	SOA/FC 104 P	Plant Biochemistry	1	100	-	100
5	SOA/FC 105 P	Technique/field tour	2	100	-	100
<b>Ability Enhancement Compulsory Course (AECC)</b>						
1	SOA/FAECC101 T	Communication Skills and Personality Development	1	70	30	100
	SOA/FAECC101 P	Communication Skills and Personality Development	1	100	-	100
<b>Elective</b>						
Student needs to earn six (6) credits from the Electives. In addition to following electives, students are free to choose electives from other departments of the School of Agriculture.						
1	SOA/FE101 T	Introduction to Agronomy and Horticulture	1	70	30	100
	SOA/FE101 P	Introduction to Agronomy and Horticulture	1	100	-	100
2	SOA/FE102 T	Information and Communication Technology	1	70	30	100
	SOA/FE102 P	Information and Communication Technology	1	100	-	100
3	SOA/FE103 T	Forest Botany	1	70	30	100
	SOA/FE103P	Forest Botany	1	100	-	100
4	SOA/FE104 T	Basics Mathematics	2	70	30	100
5	SOA/FE105P	NCC-I/NSS-I*	1		-	

\* Non credit course

**Total Credit to earn in the Semester I**

Core	AECC	SEC	ELECTIVE	TOTAL
13	2	0	6	21

**Note: Theory (T) and Practical (P) are linked to each other.**

*[Handwritten signatures and initials of faculty members]*

### Semester II

S.No.	Course Code	Name of the Courses	Credits	Marks		Total
				External	Internal	
	<b>Core Course</b>					
1	SOA/FC106T	Plant Physiology	2	70	30	100
	SOA/FC106P	Plant Physiology	1	100	-	100
2	SOA/FC107T	Plant Cytology and Genetics	2	70	30	100
	SOA/FC107P	Plant Cytology and Genetics	1	100	-	100
3	SOA/FC108T	Theory and Practice of Silviculture	2	70	30	100
	SOA/FC108P	Theory and Practice of Silviculture	1	100	-	100
4	SOA/FC109T	Forest Protection	2	70	30	100
	SOA/FC109P	Forest Protection	1	100	-	100
<b>Ability Enhancement Compulsory Course (AECC)</b>						
1	SOA/FAECC10 2T	Statistical Methods & Experimental Designs	2	70	30	100
	SOA/FAECC10 2P	Statistical Methods & Experimental Designs	1	100	-	100
<b>Elective</b>						
Student needs to earn six (6) credits from the Electives. In addition to following electives, students are free to choose electives from other departments of the School of Agriculture.						
1	SOA/FE106T	Wood Anatomy	2	70	30	100
	SOA/FE106P	Wood Anatomy	1	100	-	100
2	SOA/FE107T	Environmental Studies and Disaster Management	2	70	30	100
	SOA/FE107P	Environmental Studies and Disaster Management	1	100	-	100
3	SOA/FE108P	NCC-II/NSS-II*	1	-	-	-

\* Non credit course

### Total Credit to earn in the Semester II

Core	AECC	SEC	ELECTIVE	TOTAL
12	3	0	6	21

Note: Theory (T) and Practical (P) are linked to each other.

### Semester III

S.No.	Course Code	Name of the Courses	Credits	Marks		Total
				External	Internal	
	<b>Core Course</b>					
1	SOA/FC110T	Forest Survey and Engineering	2	70	30	100
	SOA/FC110P	Forest Survey and Engineering	1	100	-	100
2	SOA/FC111T	Tree Improvement	2	70	30	100
	SOA/FC111P	Tree Improvement	1	100	-	100
3	SOA/FC112T	Principles of Agroforestry	2	70	30	100
	SOA/FC112P	Principles of Agroforestry	1	100	-	100
4	SOA/FC113T	Forest Mensuration	2	70	30	100
	SOA/FC113P	Forest Mensuration	1	100	-	100
<b>Skill Enhancement Course (SEC)</b>						
1	SOA/FSEC101T	Soil Biology and Fertility	2	70	30	100
	SOA/FSEC101P	Soil Biology and Fertility	1	100	-	100
<b>Elective</b>						
Student needs to earn six (6) credits from the Electives. In addition to following electives, students are free to choose electives from other departments of the School of Agriculture.						
1	SOA/FE109T	Wildlife Biology, Ornithology & Herpetology	2	70	30	100
	SOA/FE109P	Wildlife Biology, Ornithology &	1	100	-	100

A collection of handwritten signatures and initials in black ink, including names like 'P. Sharma', 'S. Prasad', and others, scattered across the bottom of the page.

		Herpetology				
2	SOA/FE110T	Forest Ecology and Biodiversity	2	70	30	100
	SOA/FE110P	Forest Ecology and Biodiversity	1	100	-	100
3	SOA/FE111P	NCC-III/NSS-III*	1		-	

\* Non credit course

### Total Credit to earn in the Semester III

Core	AECC	SEC	ELECTIVE	TOTAL
12	0	3	6	21

Note: Theory (T) and Practical (P) are linked to each other.

### Semester IV

S.No.	Course Code	Name of the Courses	Credits	Marks		Total
				External	Internal	
<b>Core Course</b>						
1	SOA/FC114T	Forest Management	2	70	30	100
	SOA/FC114P	Forest Management	1	100	-	100
2	SOA/FC115T	Silviculture of Indian Trees	2	70	30	100
	SOA/FC115P	Silviculture of Indian Trees	1	100	-	100
3	SOA/FC116T	Wood Products & Utilization	2	70	30	100
	SOA/FC116P	Wood Products & Utilization	1	100	-	100
4	SOA/FC117T	Ethnobotany, Medicinal and Aromatic Plants	2	70	30	100
	SOA/FC117P	Ethnobotany, Medicinal and Aromatic Plants	1	100	-	100

### Skill Enhancement Course (SEC)

1	SOA/FSEC102T	Nursery Management and Commercial Forestry	2	70	30	100
	SOA/FSEC102P	Nursery Management and Commercial Forestry	1	100	-	100

### Elective

Student needs to earn six (6) credits from the Electives. In addition to following electives, students are free to choose electives from other departments of the School of Agriculture.

1	SOA/FE112T	Tree Seed Technology	1	70	30	100
	SOA/FE112P	Tree Seed Technology	1	100	-	100
2	SOA/FE113T	Rangeland and Livestock Management	1	70	30	100
	SOA/FE113P	Rangeland and Livestock Management	1	100	-	100
3	SOA/FE114T	Forest Tribology & Anthropology	2	70	30	100
4	SOA/FE115P	Study Tour of State Forest*	1		-	

\* Non credit course

### Total Credit to earn in the Semester IV

Core	AECC	SEC	ELECTIVE	TOTAL
12	0	3	6	21

Note: Theory (T) and Practical (P) are linked to each other.

*(Handwritten signatures and initials)*

### Semester V

S.No.	Course Code	Name of the Courses	Credits	Marks		Total
				External	Internal	
	<b>Core Course</b>					
1	SOA/FC118T	Climate Science	2	70	30	100
	SOA/FC118P	Climate Science	1	100	-	100
2	SOA/FC119T	Wood Science and Technology	2	70	30	100
	SOA/FC119P	Wood Science and Technology	1	100	-	100
3	SOA/FC120T	Logging and Ergonomics	2	70	30	100
	SOA/FC120P	Logging and Ergonomics	1	100	-	100
4	SOA/FC 121 P	Experimental Learning - I	5	100	-	100
<b>Skill Enhancement Course (SEC)</b>						
1	SOA/FSEC103T	Entrepreneurship Development & Business Management	1	70	30	100
	SOA/FSEC103P	Entrepreneurship Development & Business Management	1	100	-	100
<b>Elective</b>						
Student needs to earn six (6) credits from the Electives. In addition to following electives, students are free to choose electives from other departments of the School of Agriculture.						
1	SOA/FE116T	Forest Hydrology and Watershed Management	1	70	30	100
	SOA/FE116P	Forest Hydrology and Watershed Management	1	100	-	100
2	SOA/FE117T	Forest Economics and Marketing	1	70	30	100
	SOA/FE117P	Forest Economics and Marketing	1	100	-	100
3	SOA/FE118T	Forest Extension & Community Forestry	1	70	30	100
	SOA/FE118P	Forest Extension & Community Forestry	1	100	-	100

### Total Credit to earn in the Semester V

Core	AECC	SEC	ELECTIVE	TOTAL
14	0	2	6	22

**Note: Theory (T) and Practical (P) are linked to each other.**

### Semester VI

S.No.	Course Code	Name of the Courses	Credits	Marks		Total
				External	Internal	
	<b>Core Course</b>					
1	SOA/FC122T	Forest Laws, Legislation and Policies	2	70	30	100
2	SOA/FC123T	Geomatics	2	70	30	100
	SOA/FC123P	Geomatics	1	100	-	100
3	SOA/FC124T	Restoration Ecology	2	70	30	100
	SOA/FC124P	Restoration Ecology	1	100	-	100
4	SOA/FC125P	Experiential Learning-II	5	100	-	100
<b>Skill Enhancement Course (SEC)</b>						
1	SOA/FSEC104T	Plantation Forestry	2	70	30	100
	SOA/FSEC104P	Plantation Forestry	1	100	-	100
<b>Elective</b>						
Student needs to earn six (6) credits from the Electives. In addition to following electives, students are free to choose electives from other departments of the School of Agriculture.						
1	SOA/FE119T	Non-Timber Forest Products, Marketing & Trade	1	70	30	100
	SOA/FE119P	Non-Timber Forest Products, Marketing & Trade	1	100	-	100
2	SOA/FE120T	Certification of Forest Products	2	70	30	100

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3	SOA/FC121T	Recreation and Urban Forestry	1	70	30	100
	SOA/FC121P	Recreation and Urban Forestry	1	100	-	100

**Total Credit to earn in the Semester VI**

Core	AECC	SEC	ELECTIVE	TOTAL
13	0	3	6	22

**Note: Theory (T) and Practical (P) are linked to each other.**

**Semester VII**

**Forestry Work Experience/Hands-on-Training**

S.No.	Course Code	Name of the Courses	Credits	Marks		Total
				External	Internal	
<b>Core Course</b>						
1	SOA/FC126P	Orientation (10 days)	1	100		100
2	SOA/FC127P	Forest Range Training Program (50 days)	10	100		100
3	SOA/FC128P	Industrial Placement (20 days)	4	100		100
4	SOA/FC129P	Socio-Economic Survey and Village Attachment (20 days)	4	100		100
<b>Skill Enhancement Course (SEC)</b>						
1	SOA/FSEC105P	Weapon Training and First Aid Training (5+3=8 days)	1	100		100
2	SOA/FSEC106P	Report Writing and Presentation (12 days)	2	100		100
3	SOA/FSEC107P	All India Tour*	3			

\* Non credit course

**Total Credit to earn in the Semester VII**

Core	AECC	SEC	ELECTIVE	TOTAL
17	0	6	0	23

**Note: Theory (T) and Practical (P) are linked to each other.**

**Semester VIII**

S.No.	Course Code	Name of the Courses	Credits	Marks		Total
				External	Internal	
<b>Core Course</b>						
1	SOA/FC130T	Forest Inventory and Yield Prediction	1	70	30	100
	SOA/FC130P	Forest Inventory and Yield Prediction	1	100	-	100
2	SOA/FC131T	Forest Biotechnology	2	70	30	100
	SOA/FC131P	Forest Biotechnology	1	100	-	100
3	SOA/FC132T	Agroforestry Systems and Management	2	70	30	100
	SOA/FC132P	Agroforestry Systems and Management	1	100	-	100
<b>Skill Enhancement Course (SEC)</b>						
1	SOA/FSEC108P	Project Work & Dissertation	10	100		100
<b>Elective</b>						
Student needs to earn six (6) credits from the Electives. In addition to following electives, students are free to choose electives from other departments of the School of Agriculture.						
1	SOA/FE122T	Wildlife Management	2	70	30	100
	SOA/FE122P	Wildlife Management	1	100	-	100
2	SOA/FE123T	Agricultural Informatics	2	70	30	100
	SOA/FE123P	Agricultural Informatics	1	100	-	100

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**Total Credit to earn in the Semester VIII**

Core	AECC	SEC	ELECTIVE	TOTAL
8	0	10	6	24

**Note: Theory (T) and Practical (P) are linked to each other.**

**SUMMARY OF CREDITS**

SEMESTER	CORE	AECC	SEC	ELECTIVE	TOTAL
I	13	02	-	06	21
II	12	03	-	06	21
III	12	-	03	06	21
IV	12	-	03	06	21
V	14	-	02	06	22
VI	13	-	03	06	22
VII	19	-	06	-	25
VIII	08	-	10	06	24
TOTAL	101	05	27	42	177

**Resolutions:** All members of BOS were discussed the syllabus and unanimously agreed to approve modified and corrected Course contents & syllabus by departmental committee and suggestion and modification made by subject expert (B.Sc Syllabus is enclosed as Annexure-1).

**Agenda item no.3:** To consider modification and approval of Pre PhD syllabus which was approved previous BOS of the department (held on 22/02/2020).

Syllabus was thoroughly discussed among the faculty members and all agreed to merged two papers (i.e. Research Methodology and Computer Application and Research Publication and Ethics) in to one paper as "Research Methodology and Publication Ethics" 4 Credits (3+1).

**FORESTRY**

**Revised Pre-PhD course work (One semester)  
(Effective from Academic Session 2020)**

The course work shall consist of the following:

1. Core Course
2. Elective Course

Core course shall be mandatory for all students and the total number of credit for the core and elective courses shall be 15 with the following pattern.

Codes	Title of the paper	Credits (Marks)			
		Theory (External + Sessional)	Term paper	Practical	Total
<b>CORE COURSE</b>					
SOA/F/C561	Research Methodology & Publication Ethics	3 (60+20)	-	1(20)	4 (100)
SOA/F/C562	Forestry in context of climate change	2 (60+20)	-	1(20)	3 (100)
<b>Elective Course</b>					

*[Handwritten signatures and initials]*

SOA/F/E571	Cultivation of commercially important medicinal & aromatic plants	3 (60+20)	-	1(20)	4 (100)
SOA/F/E572	Ecotourism: Concept and approaches	3 (60+20)	-	1(20)	4 (100)
SOA/F/E573	Modern Nursery Production	3 (60+20)	-	1(20)	4 (100)
SOA/F/E574	Application of Remote sensing and GIS	3 (60+20)	-	1(20)	4 (100)
SOA/F/E575	Microbial Biotechnology in forestry	3 (60+20)	-	1(20)	4 (100)

**Note:** The two core courses are compulsory out of five elective, students must select any two depending on the availability of faculty.

**Resolution:** The members were agreed that one paper with two part A: Research Methodology & B: Publication Ethics in core course of Pre-PhD (Enclosed as Annexure-II).

**Agenda item no.4:** Revision and approval of essential qualification for the recruitment of Assistant Professor, Associate Professor and Professor in upcoming recruitment in the Forestry and mentioning specialization in M.Sc. Mark sheets/degree.

**Resolution:** Forestry as a discipline has dual governing authorities at national level- Indian Council of Agricultural Research (ICAR) and Indian Council of Forestry Research and Education (ICFRE). B.Sc Forestry (Hons.) has been recognized by ICAR as a professional degree (similar to B.Sc. Agri. and B.Tech. degrees) and in majority of agricultural universities it exists either as a separate Faculty (School) or Faculty (School) along with Horticulture. B.Sc. (Hons) Forestry syllabus is also framed by ICAR.

ICFRE takes care of M.Sc. Forestry syllabus. Forestry outside Indian Agricultural Universities is restricted only to 5-6 Universities/Institutes. All of them generally follow ICAR rules and regulations.

ICAR has recognized five specializations in Forestry:- Silviculture and Agroforestry, Wood Product and Utilization, Forest Biology and Tree Improvement, Natural Resource Management, Wildlife Sciences and the M.Sc. degree awarded as M.Sc. Forestry (with Specialization).

For jobs at ICAR institutes/ Agricultural Universities, candidates should have 4 years Forestry Degree + 2 years M.Sc. degree with specialization in required field. ICAR and its institutes do not consider candidate if they do not have 4 years Forestry Degree.

For teaching Forestry at undergraduate and postgraduate level 4 years degree and specialization at M.Sc. and Ph.D. level is must. Keeping this in view BOs members unanimously recommend that:

1. Change qualification for Assistant Professor in Forestry as B.Sc. 4 year's degree+ 2 years M.Sc. degree (specialization in required field) with NET/Ph.D. For Associate Professor and Professor besides above Degree the teaching experience in Forestry shall be mandatory for 8 and 10 years respectively.
2. This department is already having 4 specializations at M.Sc. level, therefore, specialization should be written/printed on M.Sc. Forestry Mark sheet /degree.
3. For proper teaching, future vacancies are advertised as per the requirement of the department. Department have following specialized teachers in its faculty and needs following specialization against the vacant post as well as after super nation of current teachers as their respective field:

P. Patel

Dr. A. K. Negi: Silviculture, Plantation and Nursery Technology, (Basic Post-Associate Professor)  
 Dr.D.S.Chauhan: Agroforestry & NRM. (Basic Post-Asst. Professor)  
 Dr. Munesh Kumar: Forest Ecology and Biodiversity (Basic Post-Asst. Professor)  
 Dr. B.P.Chamola: Forest pathology, Microbial biotechnology & Entomology. (Basic Post-Asst. Professor)  
 Dr. J S Butola: Non Wood Forest Products (Basic Post-Asst. Professor)  
 Dr. Himsikaha Gosain: Forest Biology and Forestry Extension (Basic Post-Asst. Professor)  
 Dr. Laxman Kandari: Tree Seed Technology, Wood Forest Product, Wildlife (Basic Post-Asst. Professor)  
 Dr. R.C. Sundriyal: Forest Management, Polices and Biometry (Basic Post- Professor)

**Vacant Post:** Forest Genetics and Tree Improvement (Basic Post-Associate Professor)

4. This was also recommended by BOS in its meeting, held on 14-02-2014, but no action has been taken by the university.
5. This all is necessary not only for better future of department and students but also in enhancing the reputation and ranking of this department in /ICFRE/ICAR Accreditation and University ranking in NIRF/NAAC.
6. If needed the matter be placed before Academic Council as well as Executive Council.

**Agenda item no.5:** Presentation and approval of synopsis of new Ph.D students of 2019 Batch.

**Resolution:** Three students have presented their synopsis and all members of BOS approve their synopsis with some modifications as well as their supervisors, which were as follows:

**Name of Students**

S.No.	Name of Students	Title of Synopsis	Supervisors
1.	Miss Anupama	"Effect of <del>Arbuscular</del> <sup>Mycorrhizal</sup> Fungi on Arsenic uptake and Oxidative stress in some Multipurpose Tree Species in Nursery"	Dr. B.P.Chamola
2.	Mr. Laxman Singh	<i>Tree Diseases on Sal Dominated Forests in Thano Range, District Dehradun</i>	Dr. B. P.Chamola
3.	Mr. Saurabh Singh	Biomass and Carbon Sequestration of <i>Anogeissus latifolia</i> (Roxb. ex DC.) Stands in Garhwal Himalya	Dr. Munesh Kumar

(Synopsis attached as Annexure-III)

**Agenda item No: 6:** Approval of progress report of following ongoing Ph.D students and old Ph.D students who have submitted their thesis but progress report was not approved due to Covid-19 pandemic.

Following students have submitted their annual/half yearly progress reports.

1. Mr. Prabhakar Manori
2. Mr. Amreen Ansari
3. Mr. Nandita Negi
4. Mr. Radheyshyam

Students who have submitted their thesis

*(Handwritten signatures and initials)*

1. Mr. Vijay Kumar Yadav - Submitted his Ph.D thesis, but approval of 1<sup>st</sup> & 5<sup>th</sup> annual progress reports was pending due to COVID-19 pandemic:
2. Mr. Shashidhar Kumar Jha - Submitted his Ph.D thesis, but approval of 1<sup>st</sup> & 5<sup>th</sup> annual progress reports was pending due to COVID-19 pandemic.
3. Mr. Dinesh Singh (will submit his thesis in November 2020, 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> & 6<sup>th</sup> annual reports submit again)

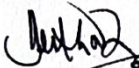
Reports enclosed as Annexure-IV

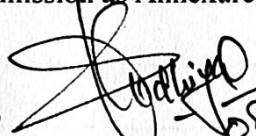
**Resolution:** Annual progress/half yearly progress reports were considered and approved by the BOS.

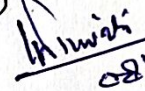
**Agenda item no. 7:** Approval of reduction in training time of ongoing 7<sup>th</sup> Semester students of B.Sc. Forestry up to 50% due to Covid-19 pandemic. Permission has already been taken from Honorable VC with this assurance the matter will be on tabled during upcoming BOS.

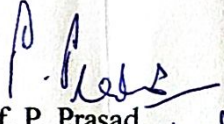
**Resolution:** Board was unanimously agreed for reducing time upto 50% of the total time period as given in syllabus.


(Photocopy of VC permission as Annexure - V)

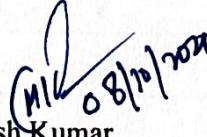
 08/10/2020  
 Prof. A.K. Negi

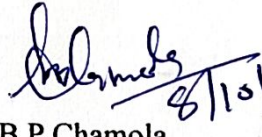
 08/10/2020  
 Prof. L.S. Lodiya

 08/10/2020  
 Prof. J.K. Tiwari

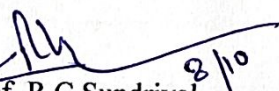
 08/10/2020  
 Prof. P. Prasad

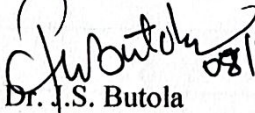
 08/10/2020  
 Prof. D.S. Chauhan


 08/10/2020  
 Dr. Munesh Kumar

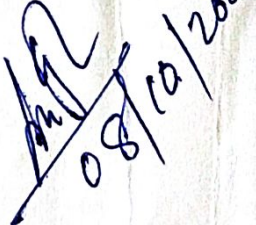
 08/10/2020  
 Dr. B.P. Chamola

**Invited members**

 8/10  
 Prof. R.C. Sundriyal

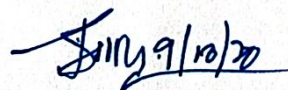
 08/10/2020  
 Dr. J.S. Butola

 08/10/2020  
 Dr. Himsikha Gasain

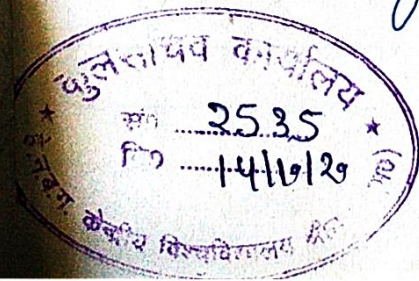
 08/10/2020  
 Dr. L. S. Kandari

Chairperson School of Agriculture & Allied Sciences  
 DR(Acad) / Hon'ble V.C.

Minutes/Proceedings of the BOS of Forestry & Natural Resources may kindly be approved.

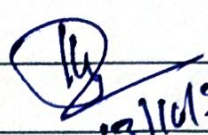
 9/10/20

Dean  
 School of Agriculture & Allied Science  
 H.N.B. Garhwal University  
 (Central University)  
 Srinagar Garhwal-246174 Uttarakhand





पाठ्यक्रम समिति की बैठक दिनांक 15-10-2020 में मद सं-02, 03, 04 को स्कूल बोर्ड में रखा जाना है, शेष मद 15, 16 से संस्तुत है, माननीय कुलपति महोदय के अनुमोदन के प्रतीक,

12-10-2020  13/10/20

DR (Head)

Agenda no. 4 needs vetting by Admin & Recruitment section.

Agenda no. 1, 5, 6 & 7 and "X" above may be considered for kind approval please.

Registrar

Amble VC

14/10/2020

 13/10/20

Yes agenda 4. to be vetted from the admin. status (Recruitment)

if advertised and some applied the HOD may be informed accordingly otherwise not to matter

Rest agenda approved as proposed at 'A'

Amble  
16.10.2020



हेमवती नन्दन बहुगुणा गढ़वाल विश्वविद्यालय  
Hemvati Nandan Bahuguna Garhwal University  
श्रीनगर गढ़वाल (उत्तराखण्ड)-246174  
Srinagar (Garhwal), Uttarakhand- 246174  
(केन्द्रीय विश्वविद्यालय)  
(A Central University)

E-mail: Registrar.hnbgu@gmail.com  
Website: www.hnbgu.ac.in

Ref: Acad / 2022/1857

Date: 16/3/22

OFFICE ORDER

A meeting of Board of Studies, Department of Forestry & NR has been scheduled to be held on date 12 April 2022 in Chauras campus from 11:00 AM/PM onward.

All the Hon'ble members are requested to attend to the meeting as per schedule.


This is issued on the recommendation of the convener, Board of Studies, Department of Forestry & NR it is mandatory to have one external expert in the BOS meeting online.

As per order of Hon,ble V.C in future only 3 BOS Meeting be conducted in one year,

Registrar

Copy to:

1. Chairman BoS, Department of Forestry & NR with a request to intimate the members of BoS member at Department level also.
2. All members of the Board of Studies of Department of Forestry & NR
3. Dean School of Agriculture and Allied Sciences
4. Finance officer.

  
Section officer, Academic

*Syllabus*

**Proceedings of the 20<sup>th</sup> Board of Studies (BOS)  
Department of Forestry and Natural Resources  
HNB Garhwal University (A Central University)  
Srinagar-Garhwal (Uttarakhand)**

**Date: 01/04/2022 & 02/04/2022**

**Mode of Meeting: OFFLINE**

The 20<sup>th</sup> meeting of BOS in Forestry was held on 01/04/2022 & 02/04/2022 in offline mode.  
The following members were present during the meeting.

1. Prof. A.K. Negi
2. Prof. Subhash Nautiyal (Ex-Scientist 'G'-ICFRE)
3. Prof. Jai Gopal Sharma (Head, Department of Biotechnology, Delhi Technological University, Delhi)
4. Prof. P.Prasad (As per 2(ii)(5))-HNBGU
5. Prof. J.K. Tiwari (As per 2(ii)(5))-HNBGU
6. Prof. D.S. Chauhan
7. Prof. R.C. Sundriyal
8. Dr. Munesh Kumar
9. Dr. B.P. Chamola

Chairman

External member

External member

Member

Member

Member

Member

Member

Member

In addition, following members of the department were also present.

10. Dr. J.S. Butola
11. Dr. Himsikha Gusain
12. Dr. L.S. Kandari
13. Prof. J.S. Chauhan, Dean, School of Agriculture & Allied Sciences

**Agenda of Meeting**

01. Confirmation of minutes of 19<sup>th</sup> BOS meeting which was held on 08/07/2021
02. To discuss, finalization and approval of restructured and revised syllabus of M.Sc. Forestry Specialization as per ICAR 5<sup>th</sup> Dean Committee Guidelines
03. To amend essential qualification of M.Sc. Forestry specialization course for upcoming session (2022-23).



04. To conduct Pre-PhD interview of qualified candidates as per list provided by the University i.e., university test (10) and Test exempted candidates (04)
05. Correction the typographical error in approved synopsis title (Lansdown to Lansdowne) of Mr. Shubham Chauhan and change in the name of Mr. Jitendra Singh. (Jitendra Singh instead of Jitendra Negi).
06. Approval of progress report of ongoing Ph.D. students.
07. To select one JRF for UCOST sponsored project of Prof. R.C. Sundriyal from university test qualified candidates.

**Agenda item no.1:**

Confirmation of minutes of 19<sup>th</sup> BOS meeting.

**Resolution:** BOS has confirmed the minutes of the 19<sup>th</sup> BOS meeting which was held on 08/07/2021

**Agenda item 2.**

To discuss, finalization and approval of restructured and revised syllabus of M.Sc. Forestry Specialization as per ICAR 5<sup>th</sup> Dean Committee Guidelines.

**Resolution:**

After detailed discussion by the members of BOS and finalized various specialization syllabus in purview of ICAR guideline (Annexure-1)

**Agenda item 3**

To amend essential qualification for M.Sc. Forestry specialization course from upcoming session (2022-23).

**Resolution**

All BOS member were agreed and approved of the essential qualification for admission in M.Sc. Forestry specialization courses should be B.Sc. 4 year forestry degree and B.Sc.(Hons.) 4 year forestry degree.

**Agenda item 4**

To conduct Pre-PhD interview of qualified candidates (list as provided by the University i.e., university test (10) test exempted candidates (4)).

**Resolution**

Interviews and presentations for admission of Pre-PhD students as per university guideline were made in front BOS members of the department, recommendation of committee are enclosed as annexure-2

Students selected in **University entrance test:**  
Number of students reported:

10  
06

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

*[Handwritten signature]*

Sanctioned seats: 06 ✓  
 (UR-2, EWS-1, OBC-1, SC-1, & ST-1)  
 Total Number of students in test **exempted category**: 04  
 Number of student reported: 01  
 Sanctioned seats: 03  
 (UR-1, OBC-1 & SC-1)  
 Total number of students reported: 07

Category wise list of students as per their merit after interview is:

**- Through Ph.D. Entrance Test**

1. Priya Bansal (UR)
2. NG Manitombi Devi (OBC)
3. Harish Arya (SC)
4. Mridula. (UR)
5. Bhagyashree Debbarma (ST)

**-Through JRF/Teacher fellow**

1. Rekha Rana (ST)

**-Project fellow**

1. Mr. Naveen Tariyal. (UR)

(As per letter of Prof. R.C. Sundriyal to Coordinator RCC and agreed by the Hon'ble Vice-Chancellor email of 30 March ,2022- copy enclosed)

**Agenda item 5**

Correct the typographical error in approved synopsis title (Lansdowne instead of Lansdown) of Mr. Shubham Chauhan and name spelling of Mr. Jitendra Singh. (Jitendra Singh instead of Jitendra Negi)

**Resolution:**

All BOS members were agreed and approved to correct the spelling of Lansdown to Lansdowne in Mr. Shubham Chauhan's synopsis title as well as correction in the name of Mr. Jitendra Negi to Mr. Jitendra Singh.

**Agenda item 6**

Presentation and approval of progress report of ongoing PhD students.

**Resolution**

Half yearly Progress report of the following students (Serial no. 1-11) has been approved by the BOS members of Forestry and letter will be issued to (Serial No.12) Mr. Saurabh Chauhan by HOD/Supervisor ( Annexure-3)

1. Prabhakar Manoori (2017)
2. Radheyshyam Junjariya (2017)
3. Amreen Ansari (2017)
4. Nandita Negi (2017)

*[Handwritten signatures and initials of BOS members and HOD/Supervisor]*

5. Anupma Raj (2019)
6. Laxman Singh (2019)
7. Atul Negi (2020)
8. Shubham Chauhan (2020)
9. Jitendra Singh (2020)
10. Dharmendra Shah (2020)
11. Kavita (2020)
12. Saurabh Chauhan (2019) absent and not submitted his progress report.

**Agenda item no.7:**

Approval of Dr. Laxman Singh Kandari's CV for supervising the Ph.D. student from upcoming batch.

**Resolution**

Dr. Laxman Singh Kandari's CV has approved by the BOS of Forestry as the Ph.D. Supervisor.



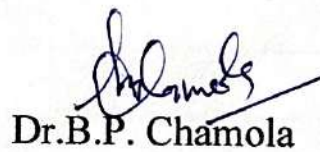
Dr. Laxman Singh Kandari



Dr. Himsikha Gusain



Dr. J.S. Butola



Dr. B.P. Chamola



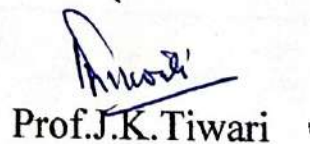
Dr. Munesh Kumar



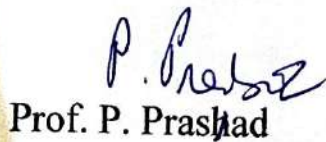
Prof. R.C. Sundriyal



Dr. D.S. Chauhan



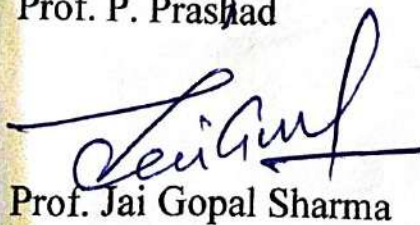
Prof. J.K. Tiwari



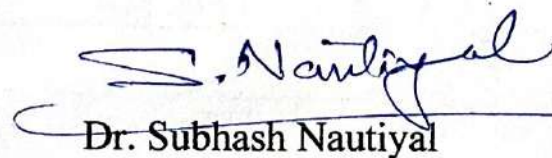
Prof. P. Prashad



Prof. J.S. Chauhan



Prof. Jai Gopal Sharma



Dr. Subhash Nautiyal



Prof. A.K. Negi

**Restructured and Revised Syllabus of PG Program  
M.Sc. (Forestry in Silviculture and Agroforestry)**

*Annexure -1*

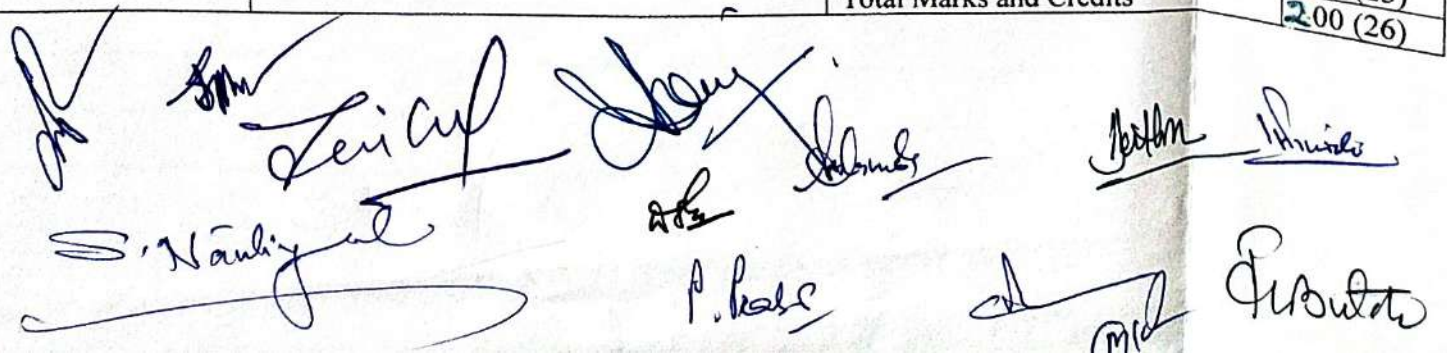
<b>Semester I</b>					
<b>Code</b>	<b>Title</b>	<b>Theory</b>	<b>Internal</b>	<b>Practical/ Term Paper</b>	<b>Total</b>
<b>Major Courses</b>					
SOA/FCMC/501	Silviculture	60 (2)	20	20 (2+1)	100 (3)
SOA/FCMC/502	Forest Biometry	60 (2)	20	20 (1+1)	100 (2)
SOA/FCMC/503	Silvicultural Practices	60 (2)	20	20 (1+1)	100 (2)
SOA/FCMC/504	Agroforestry Systems	60 (2)	20	20 (2+1)	100 (3)
<b>Supporting Courses</b>					
SOA/FCSC/511A	General Statistical Methods and Computer Applications	60 (2)	20	20 (2+1)	100 (3)
<b>Common Courses</b>					
SOA/FECC/01	Library and Information Services	-	40	60 (0+1)	100 (1)
SOA/FECC/02	Technical Writing & Communication Skills	-	40	60 (0+1)	100 (1)
SOA/FECC/03	Intellectual Property & its Management in Agriculture	60	40	- (1+0)	100 (1)
SOA/FECC/04	Basic Concepts in Laboratory Techniques	-	40	60 (0+1)	100 (1)
SOA/FECC/05	Agricultural Research, Research Ethics & Rural Development Programmes	60	40	- (1+0)	100 (1)
<b>Total Marks and Credits</b>					<b>1000 (18)</b>
<b>Semester II</b>					
<b>Major Courses</b>					
SOA/FCMC/505	Interactions in Agroforestry Systems	60	20	20 (1+1)	100 (2)
SOA/FCMC/506	Modern Nursery & Plantation Technology	60	20	20 (2+1)	100 (3)
SOA/FCMC/508	Industrial Agroforestry	60	20	20 (1+1)	100 (2)
<b>Minor Courses</b>					
SOA/FEMC/01	Forest Ecology & Biodiversity Management	60	20	20 (2+1)	100 (3)
SOA/FEMC/02	Applied Forest Tree Improvement	60	20	20 (2+1)	100 (3)
SOA/FEMC/03	Clonal Forestry	60	40	- (2+0)	100 (2)
<b>Supporting Courses</b>					
SOA/FCSC/511B	Experimental Designs	60	20	20 (2+1)	100 (3)
<b>Total Marks and Credits</b>					<b>700 (18)</b>
<b>Semester III</b>					
SOA/FEMC/509	Climate Change and Conservation Silviculture	60	20	20 (2+0)	100 (2)
SOA/FEMC/510	Tree and Shrubs for Agroforestry	60	20	20 (1+1)	100 (2)
SOA/FEMC/511	Economics of Agroforestry Systems	60	20	20 (2+1)	100 (3)
SOA/FEMC/512	Tree Seed Technology	60	20	20 (2+1)	100 (3)
SOA/FCMC/591	Master's Seminar	-	-	100 (1)	100 (1)
SOA/FE/599A	Research Review (Master Thesis)	-	-	100 (7)	100 (7)
<b>Total Marks and Credits</b>					<b>600 (18)</b>
<b>Semester IV</b>					
SOA/FEMC/513	Nutrient and Weed Management in Production Forestry	60	20	20 (1+1)	100 (2)
SOA/FEMC/514	Crops and Live Stock Management in Agroforestry	60	40	- (2+0)	100 (2)
SOA/FE/599B	Master's Research (Thesis)	-	-	100 (23)	100 (23)
<b>Total Marks and Credits</b>					<b>300 (27)</b>

*S. Nayak*  
*P. Chandra*  
*M. Prasad*  
*...*

**Restructured and Revised Syllabus of PG Program  
M.Sc. (Forestry in Forest Biology and Tree Improvement)**

*Annexure - I*

<b>Semester I</b>					
<b>Code</b>	<b>Title</b>	<b>Theory</b>	<b>Internal</b>	<b>Practical/ Term Paper</b>	<b>Total</b>
<b>Major Courses</b>					
SOA/FCMC/501	Applied Forest Tree Improvement	60 (2)	20	20 (2+1)	100 (3)
SOA/FEMC/502	Forest Ecology & Biodiv. Manage.	60 (2)	20	20 (2+1)	100 (3)
SOA/FCMC/503	Breeding Methods in Forest Trees	60 (2)	20	20 (2+1)	100 (3)
SOA/FEMC/504	Reproductive Biology of Forest Trees	60 (2)	20	20 (2+1)	100 (3)
<b>Supporting Courses</b>					
SOA/FCSC/511A	General Statistical Methods and Computer Application	60 (2)	20	20 (2+1)	100 (3)
<b>Common Courses</b>					
SOA/FECC/01	Library and Information Services	-	40	60 (0+1)	100 (1)
SOA/FECC/02	Technical Writing & Communication Skills	-	40	60 (0+1)	100 (1)
SOA/FECC/03	Intellectual Property & its Management in Agriculture	60	40	-(1+0)	100 (1)
SOA/FECC/04	Basic Concepts in Laboratory Techniques	-	40	60 (0+1)	100 (1)
SOA/FECC/05	Agricultural Research, Research Ethics & Rural Development Program	60	40	-(1+0)	100 (1)
<b>Total Marks and Credits</b>					<b>1000 (20)</b>
<b>Semester II</b>					
<b>Major Courses</b>					
SOA/FEMC/505	Tree Seed Orchard	60	20	20 (2+1)	100 (3)
SOA/FCMC/506	Quantitative Genetics in Forest Tree Breeding	60	20	20 (2+1)	100 (3)
SOA/FCMC/508	Biotechnology in Forestry	60	20	20 (2+1)	100 (3)
<b>Minor Courses</b>					
SOA/FEMC/01	Silviculture	60	20	20 (2+1)	100 (3)
SOA/FEMC/02	Forest Biometry	60	20	20 (1+1)	100 (2)
SOA/FEMC/03	Agroforestry System	60	20	20(2+1)	100 (3)
<b>Supporting Courses</b>					
SOA/FCSC/511B	Experimental Designs	60	20	20 (2+1)	100 (3)
<b>Total Marks and Credits</b>					<b>700 (20)</b>
<b>Semester III</b>					
SOA/FEMC/509	Clonal Forestry	60	40	-(2+0)	100 (2)
SOA/FEMC/510	Forest Ecophysiology	60	20	20 (2+1)	100 (3)
SOA/FEMC/511	Physiology of Woody Plants	60	20	20 (2+1)	100 (3)
SOA/FEMC/512	Breeding for Insect Pest and Disease Resistance in Trees	60	20	20 (2+1)	100 (3)
SOA/FCMC/591	Master's Seminar	-	-	100 (1)	100 (1)
SOA/FCMC/599A	Research Review	-	-	100 (7)	100 (7)
<b>Total Marks and Credits</b>					<b>600 (19)</b>
<b>Semester IV</b>					
SOA/FEMC/513	Tree Seed Technology	60	20	20 (2+1)	100 (3)
SOA/FE/599 B	Master's Research	-	-	100 (23)	100 (23)
<b>Total Marks and Credits</b>					<b>200 (26)</b>


  
 S. Nandi  
 P. Bose  
 M. Choudhury  
 P. K. Sahoo  
 P. K. Sahoo  
 P. K. Sahoo  
 P. K. Sahoo  
 P. K. Sahoo

**Restructured and Revised Syllabus of PG Program  
M.Sc. (Forest Product & Utilization)**

*Annexure-1*

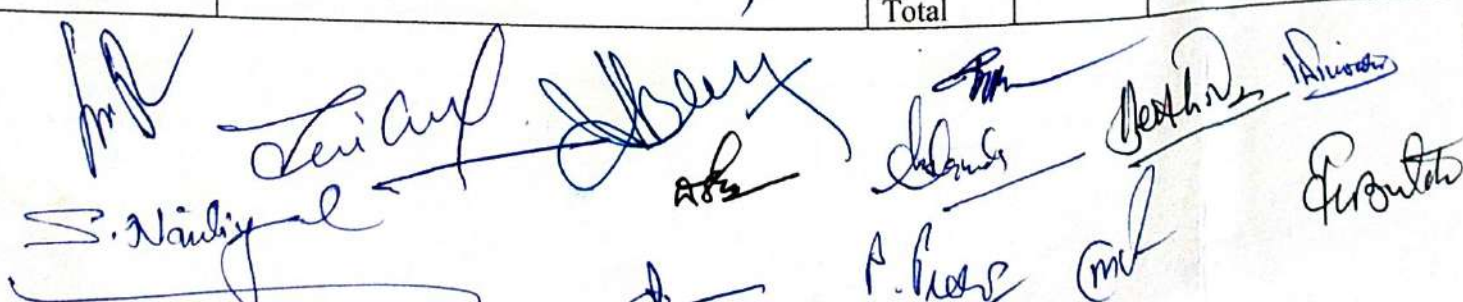
<b>Semester I</b>					
<b>Code</b>	<b>Title</b>	<b>Theory</b>	<b>Internal</b>	<b>Practical/ Term Paper</b>	<b>Total</b>
<b>Major Courses</b>					
SOA/FCMC/501	Non Wood Forest Products Management	60 (2)	20	20 (2+1)	100 (3)
SOA/FEMC/502	Applied Wood Technology	60 (2)	20	20 (2+1)	100 (3)
SOA/FEMC/503	Pulp and Paper Technology	60 (2)	20	20 (2+1)	100 (3)
SOA/FEMC/504	Composite Wood Technology	60 (2)	20	20 (2+1)	100 (3)
<b>Supporting Courses</b>					
SOA/FCSC/511A	General Statistical Methods and Computer Applications	60 (2)	20	20 (2+1)	100 (3)
<b>Common Courses</b>					
SOA/FECC/01	Library and Information Services	-	40	60 (0+1)	100 (1)
SOA/FECC/02	Technical Writing & Communication Skills	-	40	60 (0+1)	100 (1)
SOA/FECC/03	Intellectual Property & its Management in Agriculture	60	40	-(1+0)	100 (1)
SOA/FECC/04	Basic Concepts in Laboratory Techniques	-	40	60 (0+1)	100 (1)
SOA/FECC/05	Agricultural Research, Research Ethics & Rural Development Programme	60	40	-(1+0)	100 (1)
Total Marks and Credits					1000 (20)
<b>Semester II</b>					
<b>Major Courses</b>					
SOA/FCMC/505	Forest Products Laboratory Techniques	-	40	60 (0+2)	100 (2)
SOA/FCMC/506	Agro-techniques of Medicinal and Aromatic Crops	60	20	20 (2+1)	100 (3)
SOA/FEMC/508	Chemistry and Processing of Medicinal & Aromatic Plants	60	20	20 (2+1)	100 (3)
<b>Minor Courses</b>					
SOA/FEMC/01	Silviculture	60	20	20 (2+1)	100 (3)
SOA/FEMC/02	Forest Biometry	60	20	20 (1+1)	100 (2)
SOA/FEMC/03	Agroforestry System	60	20	20 (2+1)	100 (3)
<b>Supporting Courses</b>					
SOA/FCSC/511B	Experimental Designs	60	20	20 (2+1)	100 (3)
Total Marks and Credits					700(19)
<b>Semester III</b>					
SOA/FEMC/509	Wood Identification	-	40	60 (0+2)	100 (2)
SOA/FEMC/510	Chemistry of Forest Products & Industries	60	20	20 (2+1)	100 (3)
SOA/FEMC/513	Wood Seasoning and Preservation	60	20	20 (2+1)	100 (3)
SOA/FEMC/514	Production of Medicinal & Aromatic Crops	60	20	20 (1+1)	100 (2)
SOA/FCMC/591	Master's Seminar	-	-	100 (1)	100 (1)
SOA/FE/599A	Research Review	-	-	100 (7)	100 (7)
Total					600(18)
<b>Semester IV</b>					
SOA/FEMC/513	Medicinal & Aromatic Plants in Health Care Systems	60	40	-(2+0)	100 (2)
SOA/FEMC/514	Pharmacognosy of Medicinal and Aromatic Plants	60	20	20 (1+1)	100 (2)
SOA/FE/599 B	Master's Research	-	-	100 (23)	100 (23)
Total Marks and Credits					300 (27)

*[Handwritten signatures and initials at the bottom of the page]*

**Restructured and Revised Syllabus of PG Program  
M.Sc. (Forestry in Forest Resource Management)**

*Annexure - 1*

<b>Semester I</b>					
<b>Code</b>	<b>Title</b>	<b>Theory</b>	<b>Internal</b>	<b>Practical/ Term Paper</b>	<b>Total</b>
<b>Major Courses</b>					
SOA/FCMC/501	Forest Biometry and Management	60 (2)	20	20 (2+1)	100 (3)
SOA/FEMC/502	Ecology & Management of Forest Soils	60 (2)	20	20 (2+1)	100 (3)
SOA/FCMC/503	Remote Sensing and Geographical Information System in Natural Resource Management	60 (2)	20	20 (2+1)	100 (3)
SOA/FEMC/504	Land Use Planning and Watershed Management	60 (2)	20	20 (2+1)	100 (3)
<b>Supporting Courses</b>					
SOA/FCSC/511	General Statistical Methods and Computer Applications	60 (2)	20	20 (2+1)	100 (3)
<b>Common Courses</b>					
SOA/FECC/01	Library and Information Services	-	40	60 (0+1)	100 (1)
SOA/FECC/02	Technical Writing & Communication Skills	-	40	60 (0+1)	100 (1)
SOA/FECC/03	Intellectual Property & its Management in Agriculture	60	40	- (1+0)	100 (1)
SOA/FECC/04	Basic Concepts in Laboratory Techniques	-	40	60 (0+1)	100 (1)
SOA/FECC/05	Agricultural Research, Research Ethics & Rural	60	40	100 (1+0)	100 (1)
		<b>Total</b>			<b>1000 (20)</b>
<b>Semester II</b>					
<b>Major Courses</b>					
SOA/FCMC/505	Forest Resource Economics	60	20	20 (1+1)	100 (2)
SOA/FCMC/506	Forest Ecosystem Services and Valuation	60	20	20 (2+1)	100 (3)
SOA/FEMC/507	Environmental Impact Assessment and Auditing	60	20	20 (1+1)	100 (2)
<b>Minor Courses</b>					
SOA/FEMC/01	Silviculture	60	20	20 (2+1)	100 (3)
SOA/FEMC/02	Agroforestry Systems	60	20	20 (2+1)	100 (3)
SOA/FEMC/03	Climate Change and Conservation Silviculture	60	20	20 (2+0)	100 (2)
<b>Supporting Courses</b>					
SOA/FCSC/511B	Experimental Designs	60	20	20 (2+1)	100 (3)
		<b>Total</b>			<b>700 (18)</b>
<b>Semester III</b>					
SOA/FEMC/509	Global Climate Change Impact, Mitigation and Adaptation	60	40	- (2+0)	100 (2)
SOA/FCMC/508	Forest Policy, Law and International Conventions	60	40	- (2+0)	100 (2)
SOA/FEMC/511	Management of Tree Insect-Pests and Diseases	60	20	20 (2+1)	100 (3)
SOA/FEMC/512	Forest Ecology, Biodiversity and Management	60	20	20 (2+1)	100 (3)
SOA/FCMC/591	Master's Seminar	-	-	100 (1)	100 (1)
SOA/FE/599A	Research Review	-	-	100 (7)	100 (7)
		<b>Total</b>			<b>600 (18)</b>
<b>Semester IV</b>					
SOA/FEMC/510	Participatory Approaches in Forest Resource Management	60	20	20 (1+1)	100 (2)
SOA/FE/599	Master's Research	-	-	100 (23)	100 (23)
		<b>Total</b>			<b>200 (25)</b>


  
 S. Nandiyal, A.S., P. K. ...

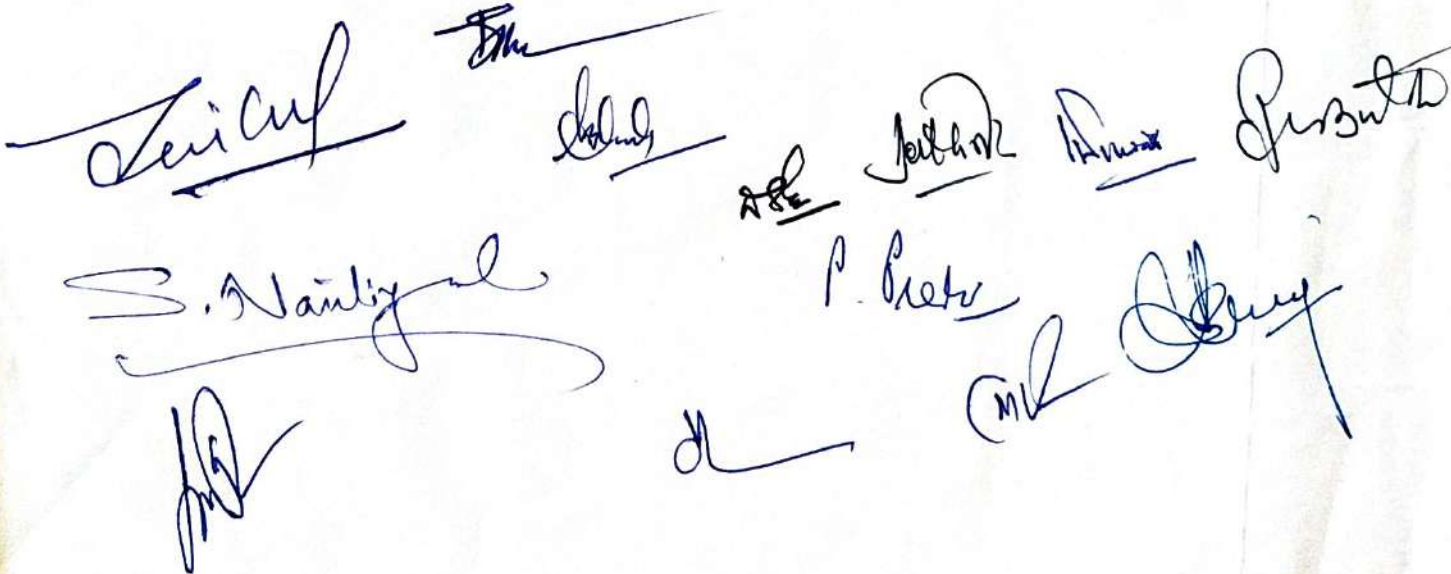
## Summary Sheet

Department of Forestry and Natural Resources

Ph.D. Entrance Examination Qualified Candidates (2021-22)

(Allocation of seats: UR: 02, EWS: 01, OBC: 01, SC: 01, ST: 01)

S. No.	Name	Marks obtained in Entrance Exam (70 %)	Interview (30 Marks)	Total	Rank
<b>UR</b>					
1.	Mridula	52 (36.40)	20	56.40	IV
2.	Shalini Tewari	53 (37.00)	Absent		Absent
3.	Priya Bansal	56 (39.20)	25	64.20	I
4.	Sumit Tewari	55 (38.50)	Absent		Absent
5.	Naveen Tariyal	52 (36.40)	19	55.40	V
<b>OBC</b>					
1.	Shishir Chandrakar	54 (37.80)	Absent		Absent
2.	NG Manitombi Devi	57(39.90)	21	60.90	II
<b>SC</b>					
1.	Harish Arya	51 (35.70)	23	58.70	III
2.	Sandeep Kumar	55 (38.50)	Absent		Absent
<b>ST</b>					
1.	Bhagyashree Debbarma	46 (32.20)	18	50.20	VI



पी. एच. डी. Result आननीया कुलपति महोदया  
 के अनुमोदनार्थ प्रस्तुत  
 S/O [Signature]  
 10-5-2022  
 - 716



## Summary Sheet

**Department of Forestry and Natural Resources**  
**Ph.D. Entrance Exam (JRF/NET Qualified) 2021-22**  
**(Allocation of seats: UR:01,OBC:01, SC:01)**

S. No.	Name	Category	UG Percentage (30%)	PG Percentage (40%)	Interview (30 Marks)	Total	Rank
1.	Radhika Sood	General	81.60 (24.48)	85.40 (34.16)	Absent		
2.	Kanchan Negi	General	80.06 (24.01)	82.69 (33.07)	Absent		
3.	Rekha Rana	ST	68.20 (20.46)	77.50 (31.00)	15	66.46	1
4.	Suraj Goswami	General	73.79 (22.13)	86.86 (34.74)	Absent		

*Suraj Goswami*

*S. Nandiyal*

*Suraj*

*Suraj*

*Suraj*

*Suraj*

*Suraj*

*Suraj*

*R. Prasad*

*Suraj*

*Suraj*

*Suraj*

*Suraj*

Attendance Sheet

Department of Forestry and Natural Resources  
Ph.D. Entrance Exam (JRF/NET Qualified) 2021-22

S. No.	Name	Signature
1.	Mridula	Mridula
2.	Shalini Tewari	Absent
3.	Priya Bansal	Bansal
4.	Sumit Tewari	Absent
5.	Naveen Tariyal	Naveen Tariyal
6.	Shishir Chandrakar	Absent
7.	NG Manitombi Devi	Mani Devi
8.	Harish Arya	Harish Arya
9.	Sandeep Kumar	Absent
10.	Bhagyashree Debbarma	Bhagyashree Debbarma
11.	Radhika Sood	Absent
12.	Kanchan Negi	Absent
13.	Rekha Rana	Rekha
14.	Suraj Goswami	Absent

S. Santal S. Santal S. Santal S. Santal S. Santal  
 S. Santal S. Santal S. Santal S. Santal S. Santal  
 S. Santal S. Santal S. Santal S. Santal S. Santal

Attendance sheet of Research Scholars on 01/04/2022  
for Progress report presentation

S. No.	Name	Registration No.	Signature
1	Prabhakar Manori	AF 17003	
2	Radheyshyam	AF 17006	
3	Nandita Negi	AF-17004	
4	Amreen	AF-17005	
5	Anupama Raj	AF - 19004	
6	Laxman Singh	AF - 19005	
7	Saurabh Chauhan		<u>Absent</u>
8	Kavita	AF-20110	
9	Shubham Chauhan	AF-20111	
10	Atul Negi	AF-20112	
11	Dharmendra Shah	AF-20113	
12	Jitendra Singh	AF-20114	

*(Handwritten signatures and notes below the table)*

DR (Acad) Hon'ble V.C

may kindly approve the Proceedings of BOS of  
Forestry & Natural Resources held on April 19, 2022  
Date 21/4/22

पाठ्यक्रम समिति (वैज्ञानिक विभाग) की बैठक दि. 1, 2 अप्रैल 2022 में सभी सदस्यों से संसुत है, मसं-02 स्कूल वेब में रखा जाना है व मसं-03 प्रवेश समिति में रखा जाना है, शेष सदस्यों का कुल प्रति मसं-04 के अनुसार पत्रित, DR

Scholarship  
AR 10/05/2022      S.O. 10-5-2022  
AR      DR  
10/5/2022

DR(A)

for kind consideration  
as proposed by DR

Registered  
DR  
10/05/2022

Hon. Vc DR  
11/05/2022

Hon. Vc  
How many seats for Ph.D. Programme  
allocated to this department. as it is  
as per allocation it is approved as  
per the note of AR/ DR(AE). Rest as  
per the note approved

DR  
12-5-2022  
DR (AE)

DR  
12/5/22  
DR (Acad)      DR

SOLA

कुलपति सचिवालय  
सं 1298  
दि 11/5/2022

कृपया संयोजक वार्न्कि विभाग की B.O.S. वार्न्कि द्वारा Ph.D. Entrance Exam 2021-22 की Additional seats (JRF/Teacher/NET) में SC Category seat पर ST उम्मीदवारों का चयन किया गया है. जवाब-संलग्न 'AR' seat for Ph.D. Program में ST सीट आवंटित हुई है. अतः SC सीट पर ST उम्मीदवारों को प्रवेश दिये जाने के सम्बन्ध में इच्छित दिशा निर्देश प्रदान करने का कार्य कर, आदेशात्मक प्रस्तुत

8. Allocation

S. No.
1
2
3
4

~~AR~~ S.B. Singh  
 - 21.5.2022  
 23/5/2022

~~DR (Acad)~~ AR  
 AR

of programme and put up as per 'Observation to be made'

~~AR (Acad/Res)~~

विभाग की एसीसीटी सीट पर एसीसीटी उम्मीदवारों को प्रवेश दिये जाने सम्बन्धी उचित प्रकाश को राय लिये जाने हेतु विभागाध्यक्ष को अग्रसारित किया जा सकता है. विभागाध्यक्ष प्रस्तुत

UR-2, EWS-1, OBC-1, SC-1, ST-1  
 कुल 06 सीट  
 JRF/NET/Teacher SC-1  
 कुल 03 सीट  
 24/5/2022

8. Allocation of Seats for Ph.D. Entrance Test 2021-22 (Roster for University Campuses):

S. No.	Code	Subjects	UR	EV/S	OBC	SC	ST	PWD	Total
1	411	FORESTRY	2	1	1	1	1		6
2	413	HORTICULTURE	1	1	1				3
3	412	PLANT PHYSIOLOGY	2				1		3
4	414	RURAL TECHNOLOGY	1						1
5	415	SEED SCIENCE	1		1				2
6	471	DRAWING & PAINTING	1						1
7	472	JOURNALISM & MASS COMMUNICATION	1		1				2
8	473	ENGLISH	2	1	2	2	1		8
9	475	HINDI	2	1					3
10	477	MUSIC			1				1
11	478	SANSKRIT	1*		1	1		1 UR HI (HH)	3
12	491	COMMERCE	3	1	1	2	1		8
13	441	DEFENCE STUDIES	1		1				2
14	443	GEOGRAPHY	4		1	1			6
15	442	GEOLOGY	2*	1	1			1 UR MD (HI, LD)	4
16	452	EDUCATION	2		1	2	1		6
17	454	PHYSICAL EDUCATION	1		1				2
18	453	YOGA	2		1	1			4
19	460	COMPUTER SCIENCE	2	1	1	1	1		6
20	481	ANTHROPOLOGY	1						1
21	489	ARCHEOLOGY	1						1
22	482	ECONOMICS	1	1					2
23	483	HISTORY	1		1	1	1		4
24	485	POLITICAL SCIENCE	2		1	1*		1 SC VI (B, LV)	4
25	486	PSYCHOLOGY	1						1
26	487	SOCIOLOGY	1						1
27	410	LAW	2	1	1	2	1		7
28	437	BIO-CHEMISTRY	1		1				2
29	436	BIO-TECHNOLOGY	2		1	1	1		5

	Subjects	No of Seats	UR	EWS	OBC	SC	ST	PWD
	FORESTRY	3	1		1	1		
413	HORTICULTURE	1			1			
412	PLANT PHYSIOLOGY	1	1					
4	414	RURAL TECHNOLOGY	1		1			
5	415	SEED SCIENCE	2	1		1		
6	471	DRAWING & PAINTING	1			1		
7	473	ENGLISH	3	1	1	1		
8	475	HINDI	3	1		2		
9	477	MUSIC	1			1		
10	478	SANSKRIT	1			1		
11	491	COMMERCE	3	2*		1		1 UR VI (LV)
12	441	DEFENCE STUDIES	1		1			
13	443	GEOGRAPHY	3	2		1		
14	442	GEOLOGY	1	1				
15	452	EDUCATION	3	1		1	1	
16	454	PHYSICAL EDUCATION	1	1				
17	453	YOGA	1	1				
18	460	COMPUTER SCIENCE	1			1		
19	481	ANTHROPOLOGY	1	1				
20	489	ARCHEOLOGY	1				1	
21	482	ECONOMICS	1	1				
22	483	HISTORY	3	1	1*		1	1 EWS HI (HH)
23	485	POLITICAL SCIENCE	3	1	1	1		
24	486	PSYCHOLOGY	1	1				
25	487	SOCIOLOGY	1	1				
26	410	LAW	3		1	1	1	
27	437	BIO-CHEMISTRY	1			1		

~~आय को अंत 209 सी. एन. डी 2021-22~~

~~सिद्धि आकांक्षी सुडई~~

~~संलग्न - स्कूनी परीक्षा फल पी. एन. डी 2021-22,~~

जन आभार को पुराप्रशंसा  
अग्रिमार्थित कु प्रशिक्षक,  
AR

S.O

कमल

25/5/2022

- 7/4

~~24/05/2022~~

~~AR~~

For opinion pt. urgent for.

~~R~~

Q.  
25/05/2022

Liaison officer (SC/ST/OBC/PWD)

46  
3/5





H.N.B. Garhwal University  
High Altitude Plant Physiology Research Centre (HAPPRC)  
14th Meeting of Board of Studies (BOS)  
Date: 22nd May 2019; Time: 10:00AM; Venue: HAPPRC

Proceedings of the Meeting

Fourteenth meeting of the Board of Studies of High Altitude Plant Physiology Research Centre (HAPPRC) was held on 22 May 2019 in the committee room of HAPPRC. Following members were present.

- |  |            |
|--|------------|
| 1. Prof. A. R. Nautiyal, Director/HOD                | - Chairman |
| 2. Prof. M. C. Nautiyal, HAPPRC                      | - Member   |
| 3. Prof. P. Prasad, HAPPRC                           | - Member   |
| 4. Prof. P. Pardha Saradhi, Univ of Delhi            | - Member   |
| 5. Prof. B. P. Nautiyal, VCG UUHF, Bharsar           | - Member   |
| 6. Prof. R. P. Bhatt, Head, Deptt. of Botany         | - Member   |
| 7. Prof. J. S. Chauhan, Head, Seed Sci. & Technology | - Member   |
| 8. Dr. Babita Patni, Assistant Professor, HAPPRC     | - Member   |

At the outset, the Chairman extended a warm welcome to all the members of the Board and appreciated their active participation in the meetings of BOS. Subsequently the agenda items were taken up for deliberations.

**Agenda Item No. 1:** Approval of minutes of the XIII meeting of Board of Studies held on 25 February 2019.

**Brief:** The Board of Studies took the following decisions in its 13th meeting held on 25 February 2019:

(i) In pursuance to the communication from university, allotment of supervisor to Ms. Zarkha Sultan, (ii) approval of progress reports of nine Ph.D. students, (iii) approval of the Pre-submission presentation/seminar of Ph.D. thesis by Mr. Dharam Chand as per the University Ordinances for Ph.D. under Section 28 Clause 11(c), (iv) extension of duration for one year as per the provisions of HNBSGU Ph.D. Ordinances under Section 28, Clause 11(a) to Ms. Vaishali Chandola, Mr. Rajiv Ranjan Kumar and Mr. Sudeep Chandra, (v) in pursuance to the communication OM F.No. 12-4/2019-U1 dated 17.1.2019 from MHRD and the communication of the university vide email dated 02.02.2019 for implementation of EWS reservation the enhancement in the total seats in M.Sc. (Medicinal and Aromatic Plants) BOS approved the enhanced intake as per the guidelines (Annexure I).

*[Handwritten signatures and initials at the bottom of the page]*

Semalty to all the Sciences and life sciences UG and PG students who are interested in the course. The course will be an additional knowledge for their career in Pharma Industry. After successful completion of the course a certificate will be issued and it shall be mentioned in the marks sheet as add on course (without credit).

**Agenda Item No. 7:** To consider the revision of the syllabi of the courses being run at HAPPRC.

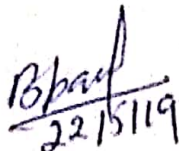
**Brief:** Periodic updating of the syllabus as per the advancement in the knowledge in the concerned subject area is often required. The matter was put for discussion in the 13th meeting of BOS also by the Chairman under Item 7. This has further been emphasized in a recent meeting of Vice-Chancellor with Deans and HoDs. The feedback obtained from the students on this aspect has been communicated by IQAC. It needs deliberation in BOS.

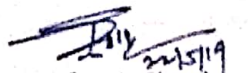
**Resolution:** The Board had a detail discussion on the matter and decided to seek inputs from the industry sector for inclusion of pharma industry related issues/content in the syllabus of the programme M.Sc. (Medicinal and Aromatic Plants), it being of applied nature. Therefore, the BOS decided to discuss the matter in next meeting after obtaining the inputs from the industry.

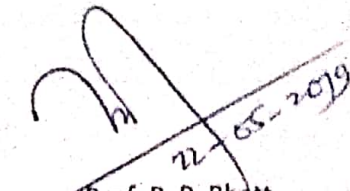
**Agenda Item No. 8:** Any other item.

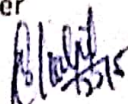
No other item was put for discussion.

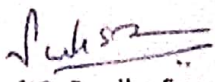
The meeting concluded with vote of thanks to all the members of the Board.

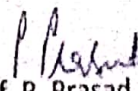
  
22/5/19  
Dr. Babita Patni  
Member

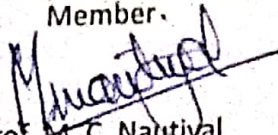
  
22/5/19  
Prof. J. S. Chauhan  
Member

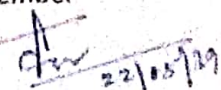
  
22/05/2019  
Prof. R. P. Bhatt  
Member

  
22/5/19  
Prof. B. P. Nautiyal  
Member.

  
Prof. P. Pardha Saradhi  
Member

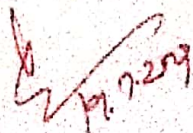
  
Prof. P. Prasad  
Member

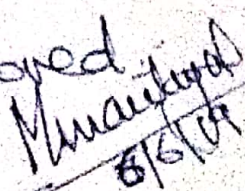
  
Prof. M. C. Nautiyal  
Member

  
22/05/19  
Prof. A. R. Nautiyal  
Chairman

Submitted for approval  
for  
03.06.19

Dean SAAS/Honble VC.


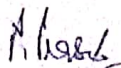
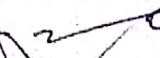

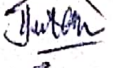
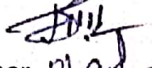
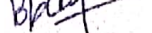
  
17/7/2019

May kindly be approved  
  
6/6/19

H.N.B. Garhwal University  
High Altitude Plant Physiology Research Centre (HAPPRC)  
15th Meeting of Board of Studies (BOS)  
Date: 26 Feb. 2020; Time: 10:30AM; Venue: HAPPRC

Proceedings of the Meeting

Fifteenth meeting of the Board of Studies of High Altitude Plant Physiology Research Centre (HAPPRC) was held on 26 February 2020 in the committee room of HAPPRC. Following members were present.

- |   |            |   |
|---|------------|---|
| 1. Prof. A. R. Nautiyal, Director/HOD                             | - Chairman |    |
| 2. Prof. M. C. Nautiyal, HAPPRC                                   | - Member   |   |
| 3. Prof. P. Prasad, HAPPRC  | - Member   |    |
| 4. Prof. K. S. Rao, Univ of Delhi                                 | - Member   |    |
| 5. Prof. R. P. Bhatt, Head, Deptt. of Botany & Microbiology       | - Member   |   |
| 6. Prof. Ajeet Negi, Head, Deptt. of Forestry & Natural Resources | - Member   |  |
| 7. Prof. J. S. Chauhan, Dean, School of Agr. & Allied Sci.        | - Dean     |  |
| 8. Dr. Babita Patni, Assistant Professor, HAPPRC                  | - Member   |  |

At the outset, the Chairman extended a warm welcome to all the members of the Board with Prof. K. S. Rao and Prof. Ajeet Negi as new members. He also placed on record the appreciation for the active participation and contribution of outgoing members Prof. P. Pardha Saradhi and Prof. B. P. Nautiyal in the meetings of BOS. Subsequently the agenda items were taken up for deliberations.

**Agenda Item No. 1:** Confirmation of the minutes of XIV meeting of Board of Studies held on 22 May 2019.

**Brief:** The Board of Studies took the following decisions in its 14th meeting held on 22 May 2019:

- (i) Recommended 02 candidates for admission into Ph.D. (Plant Physiology) programme based on their overall scores as per the criteria,
- (ii) Recommended 07 candidates for admission into M. Phil. programme based on their overall scores as per the criteria,
- (iii) Considered the request of M.Sc. students for change in the nomenclature of degree from M.Sc. to M.Sc. (Ag.) and decided to relook into the matter in view of the discipline streams of students seeking admission in the Programme,
- (iv) Approved the Course Outcome (CO) and Programme Specific Outcome (PSO) for M.Sc. Medicinal and Aromatic Plants as per the NAAC guidelines,
- (v) Approved the SWAYAM MOOC Courses subject to fulfillment of the

**Resolution:** Based on their overall scores (entrance test and interview) the Board of Studies (BOS) recommended the following candidates for admission in M. Phil. (Environmental Plant Biology) 2019.

1. Mr. Siddartha Vijay - UR →
2. Ms. Pallavi Sati - UR
3. Ms. Sonam Rawat - UR
4. Mr. Shivajee Maurya - OBC
5. Mr. Shokat Hussain - ST

**Agenda Item No. 4:** Approval of progress report of Ph.D. students

**Brief:** Progress reports of the following Ph.D. students admitted at the Centre are placed for consideration and approval as per the HNBGU Ph.D. Ordinance under Section 28, Clause 10(c). Progress Reports are placed at **Annexure IV (i-ix)**.

- i. Ms. Vaishali Chandola
- ii. Mr. Rajiv Ranjan Kumar
- ✓iii. Mr. Sudeep Chandra
- iv. Mr. Ankit Singh
- v. Ms. Sadaf Ansari
- vi. Mr. Yashwant Singh Tariyal
- vii. Ms. Zarkha Sultan
- viii. Mr. Pradeep Dobhal
- ix. Ms. Vandana Shukla

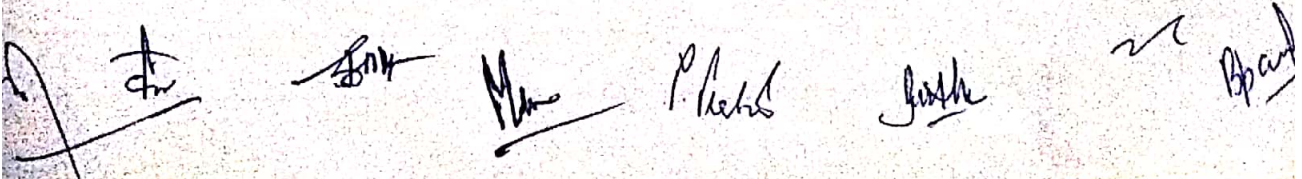
**Resolution:** The progress reports submitted and presented by the above listed nine Ph. D. students were approved by the Board {(Annexure IV (i-ix))}.

**Agenda Item No. 5:** To consider for approval the Pre-submission presentation/seminar of Ph.D. thesis by Ms. Vaishali Chandola as per the University Ordinances for Ph.D. under Section 28 Clause 11(c).

**Resolution:** The Pre-submission presentation of Ph. D. thesis by Ms. Vaishali Chandola was approved by the Board.

**Agenda Item No. 6:** To consider introduction of the course on Research and Publication Ethics in Pre-Ph.D. Course Work and revision of the syllabi of the courses being run at HAPPRC.

**Brief:** As per the office order Ref. No. Academic/2020/49 dated 11 Feb. 2020 issued by the university, pursuant to a communication from UGC, a 2 Credit compulsory course on Research and Publication Ethics has to be introduced in Pre-Ph.D. Course. The structure and syllabus of the course has been given by UGC. **(Annexure V)**.



H.N.B. Garhwal University  
High Altitude Plant Physiology Research Centre (HAPPRC)

19th Meeting of Board of Studies (BOS)

Date: 18th September 2021 Time: 11 AM

Mode: Online through Google Meet

**Proceedings of the Meeting**

Nineteenth meeting of the Board of Studies of High Altitude Plant Physiology Research Centre (HAPPRC) was held 11 AM onwards on 18<sup>th</sup> September 2021 online through Google Meet app. Following members were present.

- |  |            |
|--|------------|
| 1. Prof. M. C. Nautiyal, Director/HOD                            | - Chairman |
| 2. Prof. P. Prasad, HAPPRC                                       | - Member   |
| 3. Prof. K. S. Rao, University of Delhi                          | - Member   |
| 4. Prof. S. K. Guru, G.B. Pant Univ. of Agri. & Tech., Pantnagar | - Member   |
| 5. Prof. R. C. Sundriyal, Deptt. of Forestry & Natural Resources | - Member   |
| 6. Prof. R. K. Maikhuri, HOD, Deptt. Of Environmental Science    | -Member    |
| 7. Dr. Vijaylaxmi, Assistant Professor, HAPPRC                   | -Member    |
| 8. Prof. J. S. Chauhan, Dean, School of Ag. And Allied Sciences  | - Dean     |

At the outset, the Chairman extended a warm welcome to all the members of the Board. Subsequently the agenda items were taken up for deliberations.

**Agenda Item No. 1:** Confirmation of the minutes of 18th meeting of Board of Studies held on 21/04/2021.

**Brief:** The Board of Studies took the following decisions in its 18th meeting held on 21/04/2021

- (i) Approval of minutes of 17<sup>th</sup> meeting of Board of Studies held on 07/01/2021.
- (ii) Approval of the synopses submitted by Ms. Monali Chuhan, Mr. Jaidev Chuhan and Mr. Soban Prakash for Ph.D. and allotment of Supervisors.

**Resolution:** The board confirmed the minutes of 18<sup>th</sup> meeting of BOS held on 21/04/2021.

**Agenda Item No. 2: Approval of Pre-Ph.D. submission seminars:**

**Brief:** Following research scholars presented their Pre-Ph.D. submission seminars:

- (i) Mr. Yashwant Singh Tariyal
- (ii) Ms. Sadaf Ansari
- (iii) Ms. Vandana Shukla
- (iv) Ms. Zarkha Sultan

**Resolution:** After thorough discussion, the board approved the Pre-Ph.D submission seminars presented by the research scholars.

**Agenda Item No. 3: Approval of Progress Report of Research Scholars:**

**Brief:** Following research scholars submitted and presented their progress report.

1. Mr. Pradeep Dobhal
2. Mr. Ankit Singh
3. Mr. Abhishek
4. Mr. Jaidev Chauhan
5. Ms. Monali Chuhan
6. Mr. Soban Praksh

**Resolution:** The board approved the progress reports submitted and presented by the research scholars.

**Agenda Item No. 4: Approval of Introduction of New Course.**

**Brief:** The Centre is intended to introduce a new course PG Diploma in "Entrepreneurship and Skill Development in Medicinal and Aromatic Plants (PGDESDMAP)" of one-year duration consisting of two semesters from next academic session. For this, details of the course and draft syllabus was shared among the members of the BOS.

**Resolution:** After thorough discussion and suggestions, the board approved the introduction of new course PG Diploma in "Entrepreneurship and Skill Development in Medicinal and Aromatic Plants (PGDESDMAP)" of one year duration (two semesters) from next academic session 2022-23.

**Agenda Item No. 5: Approval of Change of Ph.D. topic**

**Brief:** Synopsis entitled "Study of regeneration status and propagation techniques of a medicinal tree: *Symplocos racemosa* Roxb. in Uttarakhand, India" submitted by Mr. Soban Prakash was approved in the last BOS meeting held on 12<sup>th</sup> April 2021. Now Mr. Soban wants to change his research topic due to problem with the plant on which initially he wants to work. Mr. Soban presented his synopsis on a new topic entitled "

**Resolution:** After thorough discussion, the board approved the new synopsis entitled "Eco-physiology and propagation studies of *Delphinium denudatum* Wall. Ex Hook & Thoms. A high value medicinal plant" of Mr. Soban Prakash under Section 28 Clause 11(b) of HNBGU Ph.D. ordinances 2012.

**Agenda Item No. 5. Any other item**

No other item was introduced under this category for discussion and approval.

*(Handwritten signatures)*

पाठ्यक्रम समिति द्वारा किया की बैठक दिनांक-  
21-1-2023 में सभी मद D.O.S. से संस्तुत है।  
मद ए०-06 स्कूल बोर्ड में रखा जाना है, शेष मद  
माननीय कुलपति महोदय के अनुमोदनार्थ प्रस्तुत

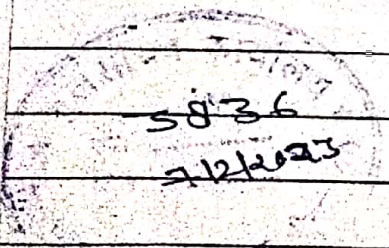
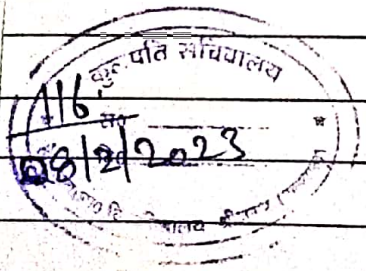
क्र० एजेण्डा/06 पर पाठ्यक्रम नाम परिवर्तन / UAR Accreditation  
उपरोक्त किया जाना उचित होगा, शेष विद्. इच्छा, C.O  
कु अनुमोदनार्थ कृपया कृपया  
07/02/2023

कुलपति

कुलपति महोदय,  
कृपया अनुमोदन करने का कष्ट करेंगे। 07/02/2023

Approved as proposed by Academic section as per M

Dr. Anand  
9.2.2023



**Meeting of Board of Studies (BOS) in Horticulture**

**Venue: Committee Room, Department of Horticulture, Chauras Campus**

**Time: 11.00 AM onwards**

**Minutes of the meeting**

Ninth meeting of Board of Studies in Horticulture was held on 27<sup>th</sup> Sept., 2017 at 11.00 AM in the Department of Horticulture, Chauras Campus.

The following members were present in the meeting:

- |  |                 |
|--|-----------------|
| 1. Prof. M.C. Nautiyal<br>Dean, School of Agriculture & Allied Science     | Chairperson     |
| 2. Prof. B.P. Nautiyal   | External Member |
| 3. Prof. A.R. Nautiyal<br>HAPPRC, Srinagar (Garhwal)                       | Member          |
| 4. Prof. J.S. Chauhan<br>Dept. of Seed Science & Tech., Srinagar (Garhwal) | Member          |
| 5. Dr. D.K. Rana, Dept. of Horticulture                                    | Member          |

Minutes according to the serial no. of agenda.

1. Welcome of members by chairperson.

**Chairman extended warm welcome to all the members of the Board of Studies.**

2. Confirmation of minutes of 8<sup>th</sup> meeting of the Board of Studies held on 25<sup>th</sup> March, 2017. (Annexure-1)

**Resolution**

**Minutes of 8<sup>th</sup> meeting of the Board of Studies held on 25<sup>th</sup> March, 2017 were confirmed by the BOS.**

3. To consider the revised syllabus of Ph.D. Horticulture (Annexure-2)

**Resolution**

**In view of direction of UGC for Ph.D. Syllabus, the existing syllabus of Ph.D. Horticulture was reviewed and modified as per the ordinance of**

*Adew*

*[Signature]* 1

*[Signature]*  
27.9.17

*M. Nautiyal*  
27/9/17

*[Signature]*  
27/9/2017



the university. The BOS after thorough discussion approved the revised syllabus.

(47)

4. Approval of Ph.D. admission

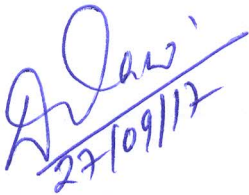
Resolution

After weightage of UG and PG, presentation and interview, the BOS recommends the name of Ms. Tanuja D/O Shri Sushil Kumar for the admission in the Ph.D. Horticulture, 2017-18.

5. Any other item with the permission of Chair.

No such item was put forward for discussion.

The meeting ended with vote of thanks.

  
27/09/17

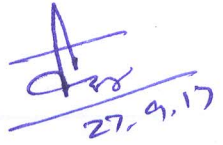
Dr. (D.K. Rana)  
Member

  
27/9/2017

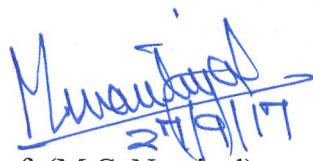
Prof. (B.P. Nautiyal)  
Member

  
27-9-17


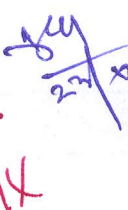
Prof. (J.S. Chauhan)  
Member

  
27.9.17

Prof. (A.R. Nautiyal)  
Member

  
27/9/17

Prof. (M.C. Nautiyal)  
Chairman

We may approve.  
Pro-ve   
Hon'ble ve.   
27/9/17

**Department of Horticulture**  
**H.N.B. Garhwal University, Srinagar (Garhwal), U.K.**

**Meeting of Board of Studies (BOS) in Horticulture**

**Venue: Committee Room, Department of Horticulture, Chauras Campus**

**Time: 11.00 AM onwards**

**Minutes of the meeting**

15<sup>th</sup> meeting of Board of Studies in Horticulture was held on 19<sup>th</sup> Feb., 2020 at 11.00 AM in the Department of Horticulture, Chauras Campus.

The following members were present in the meeting:

1. Prof. J.S. Chauhan  
Dean, School of Agriculture & Allied Science
2. Prof. V.P. Singh
3. Prof. M.C. Nautiyal
4. Prof. A.R. Nautiyal  
HAPPRC, Srinagar (Garhwal)
5. Prof. A.K. Negi  
Dept. of Forestry & NR Srinagar (Garhwal)
6. Dr. D.K. Rana, Dept. of Horticulture

Dean

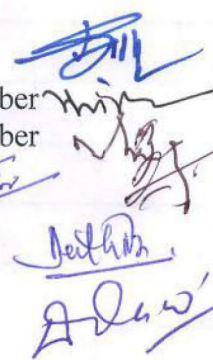
External Member

External Member

Member

Member

Chairperson



Minutes according to the serial no. of agenda.

1. Welcome of members by chairperson.

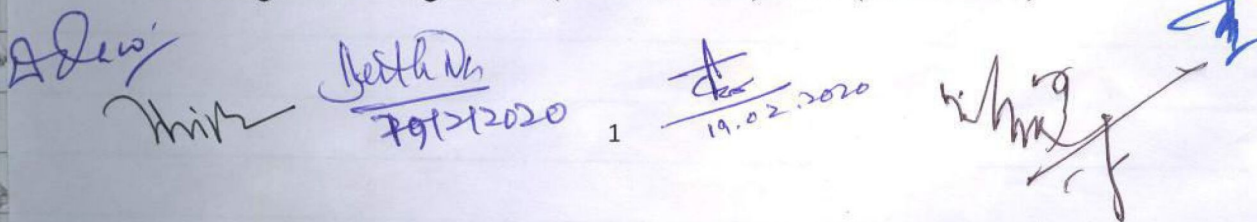
**Chairman extended warm welcome to all the members of the Board of Studies.**

2. Confirmation of minutes of 14<sup>th</sup> meeting of the Board of Studies held on 30<sup>th</sup> July, 2019. (Annexure-1)

**Resolution**

**Minutes of 14<sup>th</sup> meeting of the Board of Studies held on 30<sup>th</sup> July, 2019 were confirmed by the BOS.**

3. To consider the application submitted by Dr. Manju for issuing the certificate according to UGC Regulations (4<sup>th</sup> Amendment) 2016. (Annexure-2).



## Resolution

BOS thoroughly examined the application and documents submitted by Dr. Manju and based on the documents and the declaration by the candidate the Board unanimously agreed to issue the certificate according to UGC Regulations (4<sup>th</sup> Amendment) 2016.

4. To consider the fourth progress report of Ms. Tanuja, Research Scholar  
The Fourth Progress Report submitted by Ms. Tanuja, Research Scholar was put up before the BOS for consideration. Report is placed at **Annexure-3**.

## Resolution

The fourth progress report submitted by Ms. Tanuja, Research Scholar was found satisfactory.

- ✓ 5. To consider the revised syllabus of Ph.D. Horticulture (**Annexure-4**)

## Resolution

In view of direction of UGC for Ph.D. Syllabus, the existing syllabus of Ph.D. Horticulture was reviewed and modified. The two credits course on Research and Publication Ethics was included in the syllabus as per the direction of UGC. The BOS after thorough discussion approved the revised syllabus.

6. Approval of Ph.D. admission

## Resolution

Based on the score of Entrance Exam, presentation and interview, the BOS recommends the name of Mr. Pankaj Chaudhary S/O Shri Om Prakash Singh for the admission in the Ph.D. Horticulture, 2019-20.

- ✓ 7. To consider the Departmental Academic Integrity Panel (DAIP).

## Resolution

In view of direction of UGC and university letter no. Academic/2020/57 dated 12/02/2020, the Departmental Academic Integrity Panel (DAIP) was constituted as follows:

1. Chairman- HOD, Horticulture

2

**Meeting of Board of Studies (BOS) in Horticulture**

**Venue: Committee Room, Department of Horticulture, Chauras Campus**  
**Time: 11:00 AM**

**Minutes of the meeting**

Minutes of 16<sup>th</sup> meeting of Board of studies in Horticulture held on Nov. 09, 2020 at 11.00 AM in the Department of Horticulture, Chauras Campus.

The following members were present in the meeting:

- |   |                 |
|---|-----------------|
| 1. Prof. M.C. Nautiyal  | External Member |
| 2. Prof. V.P. Singh   | External Member |
| 3. Prof. A.R. Nautiyal<br>HAPPRC, Srinagar (Garhwal)            | Member          |
| 4. Prof. A.K. Negi<br>Dept. of Forestry & NR Srinagar (Garhwal) | Member          |
| 5. Dr. D.K. Rana, Dept. of Horticulture                         | Chairperson     |

Prof. M.C. Nautiyal and Prof. V.P. Singh, External Members attended the meeting in online mode.

Dr. D.K. Rana, Chairperson extended warm welcome to all the members of the Board of Studies and expressed special gratitude to external member who inspite of their busy schedules attended the meeting. Chairperson informed the Hon'ble members of the Board that University had issued notification on agenda no. 35 of academic council dated 23/10/2019 vide letter no. Acad/2020/215 dated 24/05/2020 and Acad/2020/217 dated 24/05/2020 for changes in nomenclature of B.Sc. (Horticulture) Degree to B.Sc. (Honours) Horticulture and M.Sc. (Horticulture) Degree to M.Sc.( Ag.) Horticulture, respectively.

Minutes of meeting according to the serial no. of agenda.

1. Confirmation of minutes of 15<sup>th</sup> meeting of the Board of Studies held on Feb.19, 2020. (Annexure-1)

*[Signature]*  
9/11/20

*[Signature]*  
9/11/2020

*[Signature]*  
09/11/2020

*[Signature]*  
9/11/2020

**Resolution**

Minutes of 15<sup>th</sup> meeting of the Board of Studies held on 19<sup>th</sup> Feb., 2020 were confirmed by the BOS.

- 2. To consider the Fifth & Sixth Six months Progress Reports submitted by Ms. Tanuja, Research Scholar. Reports are placed at Annexure-2(a & b).

**Resolution**

The Fifth & Sixth progress reports submitted by Ms. Tanuja, Research Scholar were found satisfactory.

- 3. To consider the application submitted by Ms. Tanuja, Research Scholar for presentation on pre-submission of Ph.D. thesis (Annexure-3).

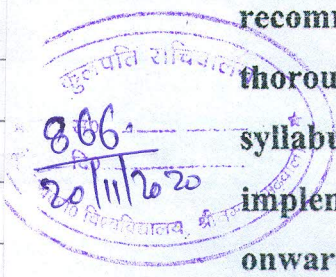
**Resolution**

The presentation on pre-submission of Ph.D. thesis by Ms. Tanuja, Research Scholar was found satisfactory by BOS.

- 4. To consider the syllabus of B.Sc. Horticulture (Honours) as per 5<sup>th</sup> Dean Committee of ICAR (Annexure-4).

**Resolution**

The existing syllabus of B.Sc. Horticulture (4-year, 8-semester) adopted as per the recommendation of ICAR 4<sup>th</sup> Dean's Committee was reviewed and the Board agreed to revise the syllabus as per recommendation of 5<sup>th</sup> Deans' Committee Report of ICAR. After thorough discussion on the matter, BOS approved the outline and syllabus of B.Sc. Horticulture (Hons.). This syllabus will be implemented from the coming academic session i.e., 2021-22 onwards.

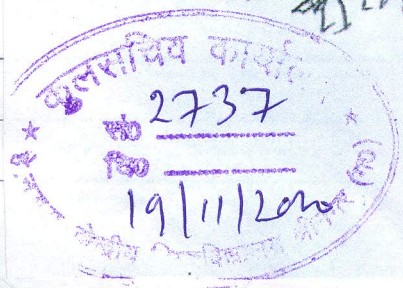


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5. To consider the revised syllabus of M.Sc. (Ag.) Horticulture (Annexure-5).

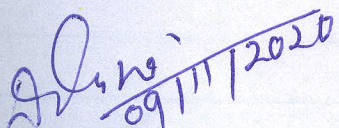
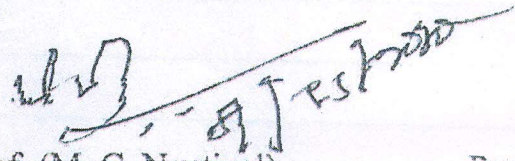
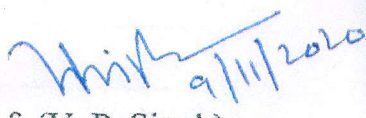
**Resolution**

The existing syllabus of M.Sc. Horticulture was reviewed and the Board agreed to revise the syllabus as per need. After thorough discussion on the matter, BOS approved the outline and syllabus of M.Sc. (Ag.) Horticulture. This syllabus will be implemented from the coming academic session i.e., 2021-22 onwards.

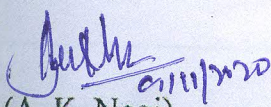
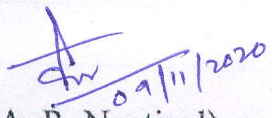
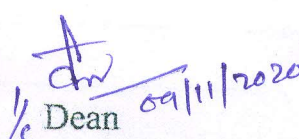
6. Any other item with the permission of Chair.

No such item was put forward for discussion.

The meeting ended with vote of thanks.

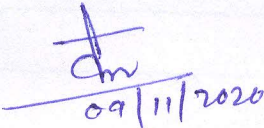




Dr. (D. K. Rana)                      Prof. (M. C. Nautiyal)                      Prof. (V. P. Singh)  
 Chairperson                              External Member                              External Member

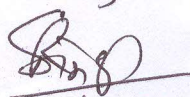
Prof. (A. K. Negi)                      Prof. (A. R. Nautiyal)                      Dean  
 Member                                      Member                                      School of Agriculture & Allied Science

Recommendations of the BOS may kindly be approved.



Hon'ble V.C.

पाठ्यक्रम समिति उद्यानिकी विभाग की बैठक दि-09-11-2020  
 में लिये गये निर्णयों में से मद संख्या 4 स्कूल बोर्ड में रखा  
 जाना है शेष मद B.O.S द्वारा लस्त है।  
 अंतः माननीय कुलपति महोदयों जी के अनुमोदनार्थ प्रस्तुत


  
 D.R. (read)                      "X" above may be considered for kind approval please.

Hon'ble V.C.                      Registrar                      18/11/20                      20.11.2020                      11/11/20