

DAV University, Jalandhar

Department of Botany and Environment Studies

Proceedings of BoS Meeting

Date: 14th August, 2023

A meeting of Board of Studies (BoS) in BOTANY and ENVIRONMENT STUDIES was held on 14th August, 2023 at 12:00 noon in AC-13, DAV University, Jalandhar.

The following members were present in the meeting:

1. Dr. Manish Kapoor, Department of Botany, Punjabi University, Patiala – *Subject Expert*
2. Prof. Alla Rang, Director Biocarve Seeds – *Industrial Expert*
3. Dr. Ashish Sharma (Assistant Professor, DAV University, Jalandhar) – *Convener cum Member*
4. Dr. Harpreet Walia (Assistant Professor, DAV University, Jalandhar) – *Member*
5. Dr. Raj Bala (Assistant Professor, DAV University, Jalandhar) – *Member*
6. Dr. Aditi (Assistant Professor, DAV University, Jalandhar) – *Member*
7. Ms. Harleen Kaur, M.Sc. Alumnus – *Member*
8. Ms. Kritika, Final Year Student – *Member*

The BoS discussed the agenda and unanimously resolved as under:

1. The board approved the proposed outline and details of the syllabi and courses of study for B.Sc. Botany 1st year as per NEP-2020 for session 2023-24.
2. The board approved the proposed outline and details of the syllabi and courses of study for B.Sc. Botany 2nd year as per NEP-2020 for session 2023-24.
3. The board approved the proposed outline and details of the syllabi and courses of study for B.Sc. Botany 3rd year as per NEP-2020 for session 2023-24.
4. The board approved the proposed outline and details of the syllabi and courses of study for M.Sc. Botany (Hons.) 1st year – session 2023-24.
5. The board approved the proposed outline and details of the syllabi and courses of study for M.Sc. Botany (Hons.) 2nd year – session 2023-24.
6. The board approved the proposed outline and details of the syllabi and courses of study for M.Sc. Botany (Hons.) 2nd year – session 2022-23.
7. The board approved syllabi of the subjects of Botany and EVS to be opted by the students of the other departments of the University for the academic session 2023-24.
8. The board approved the proposed outline and details of the syllabi and courses of study for the admission to Ph.D. Botany and Ph.D. Environment Science, session 2023-24.
9. The board approved the proposed outline and details of the syllabi and courses of study for the admission to Ph.D. Environment Science, session 2022-23.

The details of the changes incorporated in the syllabi are as follows:

- The course BTN101 – Algae and Microbiology (4 Cr) has been incorporated in the 1st semester in new B.Sc. scheme as per NEP-2020.
- The course BTN102 – Mycology and Phytopathology (5 Cr) has been incorporated in the 2nd semester in new B.Sc. scheme as per NEP-2020.
- The course BTN201 – Principles of Biochemistry (4 Cr) has been incorporated in the 3rd semester in new B.Sc. scheme as per NEP-2020.
- The course BTN202 – Archeogoniate (4 Cr) has been incorporated in the 3rd semester in new B.Sc. scheme as per NEP-2020.
- The course BTN203 – Morphology and Anatomy (4 Cr) has been incorporated in the 4th semester in new B.Sc. scheme as per NEP-2020.
- The course BTN204 – Economic Botany (2 Cr) has been incorporated in the 4th semester as Department Specific Skill Enhancement Course - *Elective* in new B.Sc. scheme as per NEP-2020.

- The course BTN205 - Herbal Technology (2 Cr) has been incorporated in the 4th semester as Department Specific Skill Enhancement Course - *Elective* in new B.Sc. scheme as per NEW-2020.
- The course BTN206 - Plant Systematics (3 Cr) has been incorporated in the 4th semester as Department Specific Skill Enhancement Course - *Elective* in new B.Sc. scheme as per NEW-2020.
- The course BTN207 - Plant Ecology (3 Cr) has been incorporated in the 4th semester as Department Specific Skill Enhancement Course - *Elective* in new B.Sc. scheme as per NEW-2020.
- The course BTN208 - Organic Farming (3 Cr) has been incorporated in the 4th semester as Department Specific Skill Enhancement Course - *Elective* in new B.Sc. scheme as per NEW-2020.
- The course BTN209 - Mushroom Culture Technology (2 Cr) has been incorporated in the 4th semester as Department Specific Skill Enhancement Course - *Elective* in new B.Sc. scheme as per NEW-2020.
- The course BTN301 - Reproductive Biology of Plants (4 Cr) has been incorporated in the 5th semester in new B.Sc. scheme as per NEW-2020.
- The course BTN303 - Plant Physiology (4 Cr) has been incorporated in the 5th semester as Department Specific Skill Enhancement Course - *Elective* in new B.Sc. scheme as per NEW-2020.
- The course BTN304 - Analytical Techniques in Plant Science (4 Cr) has been incorporated in the 5th semester as Department Specific Skill Enhancement Course - *Elective* in new B.Sc. scheme as per NEW-2020.
- The course BTN305 - Plant Breeding (4 Cr) has been incorporated in the 5th semester as Department Specific Skill Enhancement Course - *Elective* in new B.Sc. scheme as per NEW-2020.
- The course BTN306 - Plant Metabolism (4 Cr) has been incorporated in the 6th semester in new B.Sc. scheme as per NEW-2020.
- The course BTN307 - Plant Biotechnology (4 Cr) has been incorporated in the 6th semester in new B.Sc. scheme as per NEW-2020.
- The course BTN308 - Natural Resource Management (4 Cr) has been incorporated in the 6th semester as Department Specific Skill Enhancement Course - *Elective* in new B.Sc. scheme as per NEW-2020.
- The course BTN309 - Stress Physiology (4 Cr) has been incorporated in the 6th semester as Department Specific Skill Enhancement Course - *Elective* in new B.Sc. scheme as per NEW-2020.
- The course BTN310 - Research Methodology (4 Cr) has been incorporated in the 6th semester as Department Specific Skill Enhancement Course - *Elective* in new B.Sc. scheme as per NEW-2020.
- The course BTN311 - Biostatistics (4 Cr) has been incorporated in the 6th semester as Department Specific Skill Enhancement Course - *Elective* in new B.Sc. scheme as per NEW-2020.
- In the Course BOT641A - Plant Resource Utilization (M.Sc. Semester 3) following topics has been updated in the syllabus - Medicinal Plants: Aconitum, Cinchona, Belladonna, Digitalis, Glycyrrhiza, Artemisia, Rauwolfia, Nux-vomica, Garlic, Neem, Tulsi, Papaver, Vasaka, Aloe, Asafoetida, Ginseng. (ii) Aromatic Plants: Mentha, Rosa, Jasminum, Cymbopogon, Lavender, Hops, Camphor. (iii) Spices and Condiment: Ginger, Turmeric, Cinnamon, Cloves, Cardamom, Chillies, Pepper, Fennel, Coriander, Cumin, Nutmeg, Mace and Saffron.
- In the course BOT637A - Advances in Plant Breeding following topics has been updated in the syllabus - Biometrical techniques for agricultural research: Assessment of variability, Component of variance, Genetic diversity, Correlation coefficient analysis, regression and Path analysis. Analysis and continuous variations, Analysis of variance and covariance, Variance associated with polygenic traits, Gene action, Selection, Genetic variance, Heritability and genetic advance, Generation mean and variance analysis.
- In the course BOT645A - Plant Ecology and Phytogeography following topics has been updated in the syllabus - Ecotoxicology: types of ecotoxins, distribution and fate of toxic substances; dose-response relationship, toxic effects ecotoxicological tests and ecological risk assessment. Systems ecology: goals of model building, anatomy of mathematical methods, basic mathematical tools in model building, analysis of model properties, approaches to the development of models, limitations of model application.
- The following new courses has been updated in the syllabus
 - BOT651 - Plant Taxonomy and Systematics (4 Cr) has been incorporated in 3rd semester.
 - BOT652 - Plant Taxonomy and Systematics Laboratory (2 Cr) has been incorporated in 3rd semester.
 - BOT653 - Research Techniques in Botany (4 Cr) has been incorporated in 4th semester.
 - BOT654 - Research Techniques in Botany Laboratory (2 Cr) has been incorporated in 4th semester.

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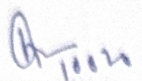
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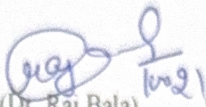
The meeting concluded with special thanks to Dr. Manish Kapoor (*External Expert*) and Prof. Alla Rang (*Industrial Expert*).


(Dr. Manish Kapoor)

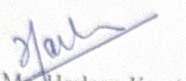
Joined online
(Prof Alla Rang)


(Dr. Ashish Sharma)


(Dr. Harpreet Walia)


(Dr. Raj Bala)


(Dr. Aditi)


(Ms. Harleen Kaur)


(Ms. Kritika)

1