

In accordance with the syllabuses as per 6th Deans' Committee
Recommendation of the ICAR

Deeksharambh:
**(Induction-cum-Foundation
Course)**

B.Sc. (Ag) Hons Degree Course (ICAR)

Deeksharambh: (Induction-cum-Foundation Course)

B.Sc. (Ag) Hons Degree Course (ICAR)

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Preface

Welcome to the book on “*Deeksharambh: Induction-cum-Foundation Course for the B.Sc. (Ag) Hons Degree Course*,” a comprehensive guide designed to facilitate the transition of undergraduate students into the world of agricultural sciences. This book serves as an essential resource for new students enrolled in the Bachelor of Science in Agriculture program under the auspices of the Indian Council of Agricultural Research (ICAR). The importance of a well-structured induction and foundation course cannot be overstated. “*Deeksharambh: Induction-cum-Foundation Course*” has been meticulously designed to facilitate a comprehensive introduction to B.Sc. (Agriculture) students, helping them bridge the gap between theoretical knowledge and practical application in the field of agriculture.

As agriculture continues to evolve in response to global challenges such as climate change, food security, and sustainable development, it is vital that students not only acquire technical knowledge but also develop a holistic understanding of the agricultural landscape. “*Deeksharambh*” has been shaped to provide a strong foundation for students, enriching their academic journey and preparing them for the diverse and dynamic field of agriculture. The core objective of this induction-cum-foundation course is to bridge the gap between theoretical learning and practical application. Through a blend of lectures, hands-on experience, and interactive sessions, I aim to motivate the essential skills, enhance critical thinking, and foster innovation. The curriculum is designed to encourage exploration and engagement, allowing students to build a strong network with peers, faculty, and industry experts.

In this book, you will find a variety of topics, including the importance of agriculture in national and global contexts, the role of technology in modern farming practices, and the fundamentals of agronomy, horticulture, and animal husbandry. Additionally, I have incorporated insights into research methodologies, environmental sustainability, and ethical considerations in agricultural practices.

I believe that the journey in agricultural education is not just about acquiring knowledge; it is about cultivating a passionate and principled approach to ensure that future generations can thrive through innovative and sustainable agricultural

practices. Thus, I encourage every student to take full advantage of the resources and opportunities presented throughout this course.

I express our sincere gratitude to the educators, researchers, and industry professionals whose contributions have shaped this book. Their insights and expertise have been invaluable in creating a resource that I hope will inspire and empower the next generation of agricultural leaders.

The importance of mentorship and peer support is woven throughout the “*Deeksharambh*” curriculum. I strive to create an inclusive environment where students feel empowered to share their ideas, learn from one another, and collaborate on projects that reflect the diverse and dynamic nature of agriculture in India. As I embark on this educational journey together, I hope that “*Deeksharambh*” will serve as a guiding light for the next generation of agricultural leaders, equipping them with the knowledge, skills, and confidence to make meaningful contributions to the agricultural sector and society at large.

May this course inspire a profound passion for agriculture and a commitment to sustainable development, ultimately leading to a healthier, more prosperous future for our communities and our planet.

As you embark on this exciting educational journey, I urge you to embrace the challenges and opportunities that lie ahead. Let “*Deeksharambh*” be your guide as you delve into the fascinating world of agriculture, equipped with the knowledge, skills, and confidence to make a meaningful impact.

Happy learning!

Prof (Dr.) Aftabuz Zaman

30th April, 2025

Dean
School of Agricultural Sciences
Sister Nivedita University, Kolkata, West Bengal

Syllabus

SEMESTER - 1

Deeksharambh (Induction-cum-Foundation Course)

Objectives

- Help for cultural integration of students from different backgrounds,
- Know about the operational framework of academic process in the University/ College/Institute
- Instilling life and social skills,
- Social Awareness, Ethics and Values, Team Work, Leadership, Creativity, etc.
- Identify the traditional values and indigenous cultures along with diverse potentialities both in indigenous and developed scenario.
- Identify strength and weakness of the students in different core areas of the discipline.

The structure shall include, but not restricted to:

- i. Discussions on operational framework of academic process in the University, as well as interactions with academic and research managers of the University
- ii. Interaction with alumni, business leaders, perspective employers, outstanding achievers in related fields, and people with inspiring life experiences
- iii. Group activities to identify the strength and weakness of students (with expert advice for their improvement) as well as to create a platform for students to learn from each other's life experiences
- iv. Activities to enhance cultural Integration of students from different backgrounds.
- v. Field visits to related fields/ establishments
- vi. Sessions on personality development (instilling life and social skills, social awareness, ethics and values, team work, leadership, etc.) and communication skills

Lesson Plans

1. Discussions on the operational framework of academic process in the University,
2. Discussion on the operational framework of interactions with academic managers of the university;
3. Discussion on the operational framework of framework as interactions with research managers of the University;
4. Interaction with alumni, business leaders, perspective employers,
5. Interaction with the outstanding achievers in related fields,
6. Interaction with the people with inspiring life experiences
7. Group activities to identify the strength (with expert advice for their improvement)
8. Group activities to identify the weakness of students (with expert advice for their improvement)
9. Group activities to create a platform for students to learn from each other's life experiences;
10. Activities to enhance cultural Integration of students from different backgrounds.
11. Field visits to related fields/ establishments;
12. Sessions on personality development (instilling life and social skills)
13. Sessions on social awareness, ethics and values,
14. Sessions on team work and leadership
15. Communication process and basic communication skills
16. Status of Agricultural Education System in India

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