

## Institute of Agriculture Sciences



The Institute of Agriculture Science, Jiwaji University Gwalior, emphasizes to prepare graduates in agriculture and allied subjects related to agriculture. B.Sc. (Hons) Agriculture is a four year undergraduate program that focuses on agriculture scientific research and activities, including genomics and plant biotechnology, agriculture microbiology, horticulture, agronomy, plant physiology, environmental sciences and so on.

This course covers agriculture science as well as the effective application of other appropriate discipline of agriculture technologies and management in real world situations. B.Sc. (Hons) agriculture course aims at combining concepts of biology, technology and agriculture science to boost agricultural productivity. As Gwalior surrounded by the 80% agriculture land so the entrepreneurship is a critical element in agricultural development, serving as a key factor in transforming rural areas. To achieve sustainable agricultural development, graduates must possess professional skills and entrepreneurship capabilities to address various aspects of agriculture. Recognizing this, agricultural course curricula are designed under the guidance of the Indian Council of Agricultural Research (ICAR), New Delhi, to ensure consistency across the country. The present course content follows the recommendations of the 6<sup>th</sup> Dean's Committee.

### **Mission:**

To encourage student success by creating a need-based learning environment that leads to excellence and personal fulfillment with an objective to create valuable manpower for sustainable agriculture, Argo- Industry and contribution to the society. To meet the current demands, agriculture graduates must be well-versed in the concept of entrepreneurship. It is crucial that entrepreneurial education is systematically provided, particularly to rural youth,

so they can establish enterprises that not only provide self-employment but also generate employment opportunities for others. This approach is essential for fostering economic growth and sustainability in rural communities.

**Vision:**

To develop capable students with the latest agricultural techniques and skills particular focus is on experimental teaching to develop their skills and analytical capabilities that enhancing their employability and inspiring them to become agro-entrepreneurs, agro-scientist, officer and many more.

**Course objectives:**

- To deliver comprehensive knowledge in agriculture and allied sciences by integrate academic programs incorporate with new trends and innovations for enabling students that effectively address common challenges in crop cultivation management, crop improvement, livestock rearing, and their marketing.
- To encourage a robust teaching and learning environment that supports higher education and aids students in selecting professional careers in government and private organizations, agro-based industries, educational, research, and allied institutes.
- For the improvement of rural livelihoods, this course develops innovative extension strategies and establishes effective mechanisms for transferring technology from institutions to farmers, aiming to enhance and sustain agricultural production.
- To locate and protect biodiversity to preserve the agro-ecosystem of the state and to document traditional knowledge and technologies.

**Placements:**

Agriculture is vital to the country's economy, with millions of people engaged in agriculture and related activities. Pursuing a B.Sc. in Agriculture opens up numerous employment opportunities across various sectors. Graduates can find roles in public and private institutions, research centers, and companies involved in agriculture, dairy farming, horticulture, and other agri-related industries. Agriculture graduates have strong job prospects in India. The career opportunities for these graduates are extensive, with roles such as agricultural officers, scientific researchers, and agricultural strategists among the many high-profile positions available.

**Course Highlights:**

Course Details	Descriptions
B.Sc. (Hons) Agriculture Science	Undergraduate
Course Duration	4 Year
Examination pattern	Semester (CBCS)
Available seats	40
Eligibility	50% marks in 10+2 level with PCB/PCM/Agriculture/Biotechnology/Computer Science. Passed in all the subjects with minimum requirements as prescribed by the UGC/ other concerned regulatory bodies mainly ICAR.
Admission process	University level Merit based/Entrance Exam
Course Fee	27021/-+3000/- (Caution Money) per semester. Caution money applicable only in I <sup>st</sup> semester.

**Syllabus:**

S. No.	B.Sc. I <sup>st</sup> Semester	S. No.	B.Sc. II <sup>nd</sup> Semester
1	Fundamentals of Horticulture	1	Fundamentals of Genetics
2	Fundamentals of Plant Biochemistry and Biotechnology	2	Agricultural Microbiology
3	Fundamental of Soil Science	3	Soil and Water Conservation Engineering
4	Introduction of Forestry	4	Fundamentals of Crop Physiology
5	Comprehension and Communication Skills in English	5	Fundamentals of Agricultural Economics
6	Fundamentals of Agronomy	6	Fundamentals of Plant Pathology
7	Introductory Biology	7	Fundamentals of Entomology
8	Elementary Mathematics	8	Fundamentals of Agricultural Extension Education
9	Agricultural Heritage	9	Communication Skills and Personality Development
10	Rural Sociology & Educational Psychology		
11	Human Value and Ethics (non gradial)		
12	NSS		
13	NCC		
14	Physical Education & Yoga Practices		