

# Department of Botany

# University of Kashmir

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## Criterion 1

- Programme Objectives
- Programme Outcomes



Self-Study Report (SSR) 2019-2023



## **Programme Objectives**

### **1. Foundational Knowledge:**

- Equip students with a comprehensive understanding of plant biology, including plant structure, function, growth, reproduction, diversity, ecology and molecular biology.

### **2. Critical Thinking and Problem-Solving:**

- Foster the ability to critically analyse and assess complex biological problems and develop innovative solutions.

### **3. Interdisciplinary Integration:**

- Encourage the integration of knowledge from related fields such as genetics, biochemistry, and environmental science to address broader biological questions.

### **4. Sustainability and Conservation:**

- Promote an understanding of plant diversity, ecosystem services, and the importance of conservation in the context of global environmental challenges.

### **5. Ethical and Social Responsibility:**

- Instill a sense of ethical responsibility and awareness of the societal impact of botanical research and its applications.

### **6. Professional Development:**

- Prepare students for careers in academia, industry, government, and non-governmental organizations, or for further studies leading to a Ph.D. or other advanced degrees.

## **Programme Outcomes**

### **1. In-depth Knowledge:**

- Graduates will possess an advanced understanding of key concepts in botany, including plant physiology, taxonomy, ecology, genetics, and biotechnology.

### **2. Research Competence:**

- Graduates will be capable of designing and executing original research projects, utilizing modern techniques and methodologies in botany and related disciplines.

### **3. Analytical Skills:**

- Graduates will demonstrate the ability to critically evaluate scientific data, synthesize information from various sources, and apply it to solve biological problems.

### **4. Practical Expertise:**

- Graduates will have hands-on experience with laboratory and field techniques, including the use of advanced instrumentation and technologies in plant science.

### **5. Career Readiness:**

- Graduates will be prepared to enter the workforce as botanists, ecologists, conservationists, or educators, or to pursue further academic qualifications.