

**Programme outcome (P.Os)**

The MSc. Biotechnology programme of Bundelkhand University aims to train students in various theoretical and practical principles for the study and research in the field of Agriculture, Biology, pharmaceutical, industrial and clinical research. The students in this program acquire deep knowledge and critical thinking skills in conducting advanced research.

**PO1:** Learn and understand the necessary knowledge and concepts of biotechnology and its applications in related areas.

**PO2:** Understand the ability to apply biotechnological knowledge in practical or experiment design, which students can conduct independently, employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of experiment.

**PO3:** To solve the problems of related subject and think methodically, independently and draw a logical conclusion

**PO4:** Use modern tools and techniques in related fields, advanced equipment and bioinformatics software

**PO5:** Create an awareness of the impact of biotechnology on the environment, society, and development outside the scientific community

**Program Specific Outcomes (PSO)**

**PSO1:** Students will be able to demonstrate their knowledge of Immunology, Genetic engineering, Plant biotechnology, Vaccines and Agriculture Biotechnology to solve various problems in Biotechnology and related areas. Acquire knowledge of biotechnology through theory and practical.

**PSO2:** Students will be able to gain deep knowledge in Immunology, Genetic engineering, Plant biotechnology, Vaccines and Agriculture Biotechnology techniques used in biotechnology research laboratories.

**PSO3:** Students will be able to gain understanding about Industrial Bioprocess technology, Enzymology, Environmental Biotechnology and Animal Biotechnology along with related lab techniques.

**PSO4:** Students will be able to experience the research work ethics by working in research labs or in industries. They will learn the operation of basic laboratory instruments and will learn the principle of measurements using the various lab instruments. Make aware and handle sophisticated and advanced instrument. This will help them to begin a career in laboratories conducting fundamental research or as entrepreneurs.

**PSO5:** Apply their knowledge in advanced subject areas like animal and plant biotechnology, Molecular biology, food biotechnology, immune technology, environment biotechnology, drug discovery and restoration of the degraded environment to provide a sustainable competitive edge to present society, for the betterment and advancement of their professional career and develop research-oriented skills.

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*Shalendra*  
24/06/2022

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24/06/2022