Govt. Science College, Jabalpur

B.Sc. 3rd year
Bio-Technology
Industrial Biotechnology
(Group A Paper I)
Course Learning Outcomes (CLO)

❖ Student will get concept of industrial and human beneficial living organism, their exploitation and application.

❖ Student will get insight on industrially important organism, recent development in fermentation processes and various optimization strategies at fermenter level.

❖ Create interest about design, type of fermenter and various critical components of bioreactors.

Govt. Science College, Jabalpur

B.Sc. 3rd year
Bio-Technology
Agriculture Biotechnology
(Group A Paper II)
Course Learning Outcomes (CLO)

- ❖ The student will empower with the fundamental of the agriculture biotechnology such as organic farming agro biology and techniques.
- ❖ The learner will get the deep understanding of soil microbiology, microbial diversity of soil importance of organic farming.
- ❖ Student will empower through the hand on training on compositing. Vermiculture and methane production.
- ❖ Learned molecular tetchiness will provide knowledge of further application.
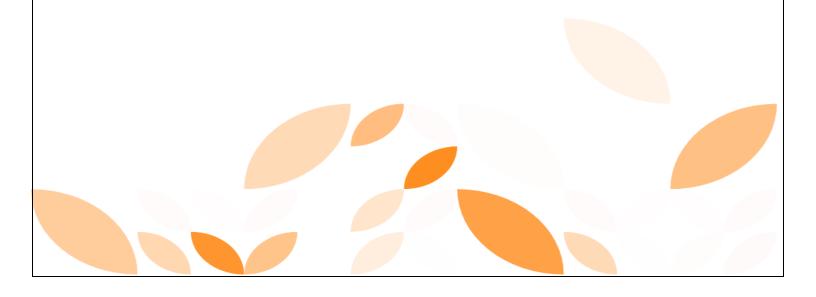- ❖ Basic principle bio-fertilizer and bio-pesticide development will impart field knowledge.

Govt. Science College, Jabalpur

B.Sc. 3rd year
Bio-Technology
Environmental Biotechnology
(Group B Paper I)
Course Learning Outcomes (CLO)

- ❖ Deep understanding of existing and emerging technology that are importance in the area of environment and the principles and techniques which underline the environmental issues including air and water pollution.

- ❖ Empower the students with the knowledge of Domestic waste water treatment, Classification of wastewater treatment (Physical, Chemical and biological).

- ❖ Student learn about concepts of Biodegradation, Biodegradation of hydrocarbon, Measurement of biodegradation, Bioremediation-Concept, Method of Bioremediation (In-situ and Ex-situ Bioremediation), and Xenobiotic biodegradation.

- ❖ Learners will understand the concept of biodiversity: conservation and management, rules and acts.

Govt. Science College, Jabalpur

B.Sc. 3ʳᵈ year
Bio-Technology
Bioinformatics
(Group B Paper II)
Course Learning Outcomes (CLO)

- ❖ Will know the use of bioinformatics tools and their applications.
- ❖ Develop an understanding of basic theory of these computational tools.
- ❖ Gain working knowledge of these computational tools and methods.
- ❖ Appreciate their relevance for investigating specific contemporary biological questions.
- ❖ Critically analyse and interpret results of their study.