

UNDERGRADUATE PROGRAMME

B.Sc.

Programme Outcomes (POs)

At the end of the completion students are able to attain the following attributes

- **Critical thinking:** Undergraduate program syllabus for different courses is designed by Board of Studies of Hemchand Yadav University, Durg. The combination of different subjects in the courses in graduation level leads to knowledge gathering of students. They develop critical thinking about the subject and are able to check the assumptions and ideas from different perspectives.
- **Effective communication:** Foundation course includes two language papers as Hindi language and English language in the undergraduate programme, which aims for development of communication skills. The students will be able to communicate with people, express ideas through books, media and technology.
- **Social interaction:** In UG programme, the courses include practical's and most of the subjects includes field excursion, and field studies, industrial visits which assist students for participative discussions and interactions with experts, professionals, industrialists, entrepreneurs, social activists etc.
- **Ethics:** College administration induce the ethical conducts to students during the entire stay of students in campus and by conducting induction program in the beginning of session and imparting code of conduct to students from time to time thus helping them to develop ethical values amongst the students.
- **Environment and Sustainability:** As per the supreme court guideline the undergraduate courses incorporate Environmental studies as a subject which imparts studies related to environmental issues and sustainability in which the students are given projects pertaining to the environmental concerns. It leads students to understand the issues of environmental contexts and sustainable development.
- **Effective Citizenship:** During the three-year UG programme, students actively participate in NCC, NSS, Red cross society activities. This participation helps them in developing effective citizenship, awareness of national issues and concerns and to be good citizens.
- **Self-directed and lifelong learning:** Students acquire various traits on completion of the course and program and develop the ability to learn by their own, consequently lifelong learning process is part of the personality.

DEPARTMENT OF MICROBIOLOGY

Course Outcome in Microbiology – B.Sc. Part- I, II, III

| S. No. | COURSE | OUTCOME |
|--------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | B.Sc. I Year General Microbiology And Basic techniques | Students will be able to understand the contribution various scientist in microbiology and scopes of various branches of microbiology. Understands various microbial techniques (culture, staining, Serial dilution, isolation technique). |
| | Basic microbial techniques | Understand various stages of cell divisions of microbes and microbial physiology, Genetics of microbes. |
| 2 | B.Sc. II Year Molecular Biology genetic engineering and microscopy, centrifugal technique | Students will be able to Define various stages of genetic engineering. Identify different parts of microscope and they will be able to know about microscopic study in various department. |
| 3 | B.Sc. III Year Molecular biology and genetic engineering Environment and medical microbiology | Students will be able to To study the microorganism found in environment To gain knowledge of the relationship between the human body and microorganism They will be able to know the different diseases caused by microorganism |