

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 MATHEMATICS

Course Outcome in Mathematics

B.Sc. Part – I

- Learn to solve system of linear equation.
- Learn to solve system of elementary matrices relation and
- Mapping solves to liner equation.
- Learn to solve system of change of variables, Tracing of coins and solve of cylinder equation.
- Gail knowledge of fundamental concepts of real number and introduction to sequence and series.

B.Sc. Part – II

- Verify the value of the limit of a function at a point using the definition of the limit.
- Student will be to understand differentiation and fundamental theorem in differentiation.
- Introduction to ordinary differential equation and solve dif. Equation problems.
- Student will be to understand mechanics like harmonic oscillations kinetic energy.

B.Sc. Part – III

- Finding extreme values of function and introduction to complex analysis.
- Learn to find roots of polynomial over rational roots.
- Introduction to complex analysis solve linear equation.
- Acquire good knowledge and understanding in advanced analysis of vector geometry and algebra problem.