

**Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science &
Commerce College, Beed.
Department of Mathematics
PEOs, POs, PSOs**

Programme Educational Outcomes:

M.Sc. Mathematics is a two-year postgraduate program that deals with a deeper knowledge of advanced mathematics through a vast preference of geometry, calculus, algebra, number theory, dynamical systems, differential equations etc. Banks, universities, share markets, space agencies, research centers, etc., offer good job opportunities for the graduates. Since mathematics has a good job scope worldwide, students get placed in reputed firms.

Program Outcomes:

- To enhance computational skills and Mathematical reasoning among the students.
- To develop the ability to think critically, logically, and analytically.
- To enhance career opportunities in education, research, and industries.
- To develop skills in mathematical softwares.

Program Specific Outcomes:

- To formulate, analyze, and solve problems through application of fundamental mathematical techniques.
- To develop the ability to determine the validity of a given argument, develop mathematical thinking and be able to solve mathematical problems and construct mathematical proofs independently.
- To demonstrate an understanding of the foundations of various branches of mathematics and apply the same to formulate and develop mathematical arguments in a logical manner.
- Apply knowledge and mathematical skills to translate information presented into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
- Investigate and apply mathematical solutions in a variety of contexts related to science, technology, business and industry, and illustrate these solutions using symbolic, numeric, or graphical methods.
- Build a solid foundation for higher studies in mathematics and other disciplines requiring quantitative techniques and enhancing their career prospects through success in competitive examinations for further academic progression or placement in various positions requiring mathematical or quantitative background as a pre-requisite.