

**Shree Swami Vivekanand Shikshan Sanstha Kolhapur,
DATTAJIRAO KADAM ARTS, SCIENCE AND COMMERCE COLLEGE,
ICHALKARANJI**

Course Outcomes

CLASSICAL MECHANICS (Paper-XI)

B.Sc. III, Semester: V (PHYSICS)

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This course develops concepts in Classical mechanics such that the behavior of the physical universe can be understood from a fundamental point of view. It provides a basis for further study of Classical mechanics. Content will include: Motion in central force field, Degrees of freedom, Moving co-ordinate system, generalised Co-ordinates, D' Alembert's principle, Coupled oscillation, Coriolis force, Motion of rigid body, Lagrange's and Hamilton's equation, symmetries and laws of conservation.

Course Outcomes:-

1. Student should understand Motion in central force field and D' Alembert's principle.
2. Student should develop skill in computing Degrees of freedom and Generalised co-ordinate.
3. Student should develop a qualitative understanding of Coupled oscillation.
4. Use the tools, methodologies, language and conventions of physics to test and communicate ideas and explanations.