

CALICUT UNIVERSITY

**B.Sc Physics Core - 1<sup>st</sup> Semester**

# **Methodology of Science and Basic Mechanics**

**Dr. Shaju K Y**

**Prof. Arun V**

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(For I Semester, B.Sc. Physics (Core))  
Calicut University

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## Preface

We have great pleasure in presenting the first edition of "Methodology of Science and Basic Mechanics" as per the new syllabus under Choice Based Credit and Semester System (CBCSS) of University of Calicut. This book is mainly intended for the use of students along with the prescribed reference books.

We have tried our best to present the matter in a simple and lucid way, without sacrificing the depth and vastness of the subject. Many real life examples are given in order to understand the principles of mechanics behind them. A number of sample questions are given at the end of each chapter for the better understanding of the basic principles. The students are advised to work out all these questions and improve their skills. Only when the student learns by self, without any compulsion, the actual learning starts. Students are requested to go through the standard reference text books given in the syllabus and also to watch the MIT videos by Walter Lewin.

We do not claim the originality of the topics presented in this book. We have used several reference books mentioned in the syllabus for the preparation of this study material. The entire material is typeset in *LaTeX* and compiled in *Ubuntu*. We are thankful to all those helped us in this effort. Creative suggestions and potential criticisms for improvement of this book shall be most gratefully welcome with utmost humility.

Kozhikode

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