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PHYSICS
LABORATORY MANUAL
FOR
SENIOR SECONDARY COURSE

Co-ordinator
Dr. Oum Prakash Sharma



NATIONAL INSTITUTE OF OPEN SCHOOLING

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A word with you

Dear Learner,


I hope you would be enjoying studying Physics from NOS study material. Physics is a Science, wherein you search for scientific truth by verifying the facts. Hence, learning by doing play an important part in science particularly in Physics. The NOS Physics curriculum at Sr. Sec. stage is designed to encourage development of such skills in order to make learning effective. Therefore, lots of activities have been incorporated even in the study material of Physics course. In the Book 1 of Physics at the end you will find a list of experiments. Some of these experiments are very simple and you will be able to perform them on your own. But for many of them, you may require some guidance. In this Physics laboratory manual we have tried to incorporate all the required guidelines to perform an experiment. This book is apart from the five core books and one optional book which cover the theory portion of the curriculum.

There are three sections in this laboratory manual. In the beginning of each section, a few pages of introduction have been given which talks about the importance and meaning of practical work in Physics, safety measures to be taken while in the laboratory, and the way you should maintain the Record Book. Each experiment in the manual has detailed instructions about how to perform the experiment and has observation tables in which you can record your data. Before starting an experiment, read the instructions given in the laboratory manual carefully and record the observations in the tables honestly.

I am sure, at the end of each experiment, you may like to assess your understanding related to that experiment. For this purpose, a few questions have been given. For your convenience the answers of these questions are also given at the end of manual as appendix. Though, the manual has the scope of recording your observations in the tables, you are required to maintain a record book as per the instructions given, as it carries weightage in the practical examination also. In case, you have any doubt or problem while doing the experiments or otherwise, do not hesitate to ask your Physics Teachers or to write to us.

We hope you will enjoy doing experiments. Wishing you all the success.

Yours.



(Oum Prakash Sharma)

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