

# IHARSUGUDA ENGINEERING SCHOOL, IHARSUGUDA

## DEPARTMENT OF MATHEMATICS&SCIENCE

### LESSONPLAN

NAME OF THE FACULTY- BABITA PADHI & RITIKA DASH  
SUBJECT-APPLIED PHYSICS-II PRACTICAL  
SUBJECT CODE: PR-2A  
SECTION: C1,C2, M1,M2,E1,E2,IT,ETC,COM,MCT

ACADEMIC YEAR: 2024-25  
BRANCH-ALL BRANCHES  
SEMESTER-2<sup>ND</sup>  
SESSION: SUMMER

Sl.No.	WEEK	TIME (MIN)	LAB NO.	Experiments to be performed
1	1 <sup>ST</sup>	120	1	EXPT:1 To determine and verify the time period of a cantilever. Observation and calculation by students. Record writing by the students, record checking and viva voce.
2	2 <sup>ND</sup>	120	2	Observation and calculation by students. Record writing by the students, record checking and viva voce. EXPT:2 To verify laws of reflection from a plane mirror/ interface.
3	3 <sup>RD</sup>	120	3	Observation and calculation by students. Record writing by the students, record checking and viva voce. EXPT:3 To verify laws of refraction (Snell's law) using a glass slab.
4	4 <sup>TH</sup>	120	4	Observation and calculation by students. Record writing by the students, record checking and viva voce. EXPT:4 To determine focal length and magnifying power of a convex lens.
5	5 <sup>TH</sup>	120	5	Observation and calculation by students. Record writing by the students, record checking and viva voce.
6	6 <sup>TH</sup>	120	6	EXPT:5 To verify Ohm's law by plotting graph between current and potential difference. Observation and calculation by students. Record writing by the students, record checking and viva voce.
7	7 <sup>TH</sup>	120	7	EXPT:6 To verify laws of resistances in series and parallel combination. Observation and calculation by students. Record writing by the students, record checking and viva voce.
8	8 <sup>TH</sup>	120	8	Observation and calculation by students. Record writing by the students, record checking and viva voce.
9	9 <sup>TH</sup>	120	9	EXPT:7 To verify Kirchhoff's law using electric circuits. Observation and calculation by students. Record writing by the students, record checking and viva voce.
10	10 <sup>TH</sup>	120	10	Observation and calculation by students. Record writing by the students, record checking and viva voce.

11	11 <sup>TH</sup>	120	11	<b>EXPT: 8</b> To convert a galvanometer into an ammeter. Observation and calculation by students. Record writing by the students, record checking and viva voce.
12	12 <sup>TH</sup>	120	12	<b>EXPT: 9</b> To convert a galvanometer into a voltmeter Observation and calculation by students. Record writing by the students, record checking and viva voce.
13	13 <sup>TH</sup>	120	13	Observation and calculation by students. Record writing by the students, record checking and viva voce
14	14 <sup>TH</sup>	120	14	<b>EXPT: 10</b> To measure numerical aperture (NA) of an optical fiber. Observation and calculation by students. Record writing by the students, record checking and viva voce
15	15 <sup>TH</sup>	120	15	Observation and calculation by students. Record writing by the students, record checking and viva voce

*[Handwritten Signature]*  
4/2/25

Signature of faculty member

Math & Sc.

*[Handwritten Signature]*  
for 04/2/25  
Signature of Sr. Lecturer

**Sr. Lect. (M/Sc)**  
**Engg. School**  
**Jharsuguda**