Standard Operating Procedure (SOP)

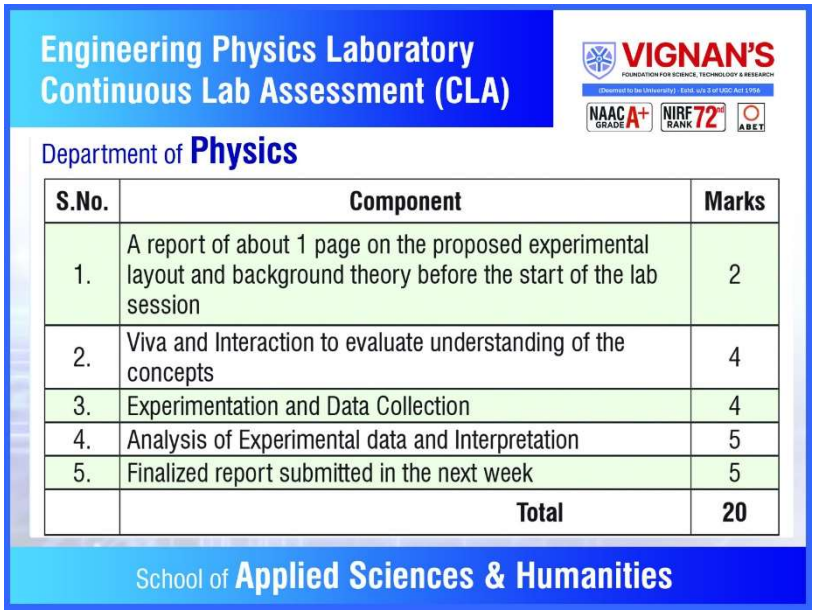
Engineering Physics 25PY101

Laboratory

Section 24

Course Instructor: Dr. Sreekar Guddeti

Continuous Lab Assessment



Engineering Physics Laboratory
Continuous Lab Assessment (CLA)

VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY & RESEARCH
(Deemed to be University) · Estd. u/s 3 of UGC Act 1956
NAAC GRADE A+ · NIRF RANK 72 · ABET

Department of Physics

S.No.	Component	Marks
1.	A report of about 1 page on the proposed experimental layout and background theory before the start of the lab session	2
2.	Viva and Interaction to evaluate understanding of the concepts	4
3.	Experimentation and Data Collection	4
4.	Analysis of Experimental data and Interpretation	5
5.	Finalized report submitted in the next week	5
	Total	**20**

School of Applied Sciences & Humanities

Continuous Lab Assessment (Formative)

One-page report

Before the lab session, student needs to study about the experiment and summarize his/her understanding in two sides of a single page. The summary may include

- Aim
- Apparatus
- Brief description of theory in not more than six sentences written in own words
- Working formulae
- Precautions
- Applications

Viva Voce

After performing the practice, at least four questions will be asked by the instructor who taught the practice.

Experimentation and Data collection

While performing the practice, student needs to be alert as there is risk to life while dealing with instruments.

Data collection

Data tables need to filled in the manual. After data collection, please take the approval of faculty/co-faculty to proceed with graphing in the form of signature.

Graphing

Take the help of model graph to plot the graph.

Every graph needs to have minimum of three things

- X axis
  - Name of Quantity
  - Symbol of Quantity
  - Unit of Quantity
- Y axis
  - Name of Quantity
  - Symbol of Quantity
  - Unit of Quantity
- Scale
  - Scale-X: 1 cm = ... [X-axis: Unit of Quantity]
  - Scale-Y: 1 cm = ... [Y-axis: Unit of Quantity]

Analysis of Experimental Data and Calculations

Slopes of linear graphs need to be written on the graph, calculations related to tabular data need to be written in

- Manual, and
- Record (on white side)

Finalized report submitted in next week

In addition to the 1-page report, the final record must contain the following on the border side --

1. Aim
2. Apparatus
3. Working formula
4. Formula
5. Results

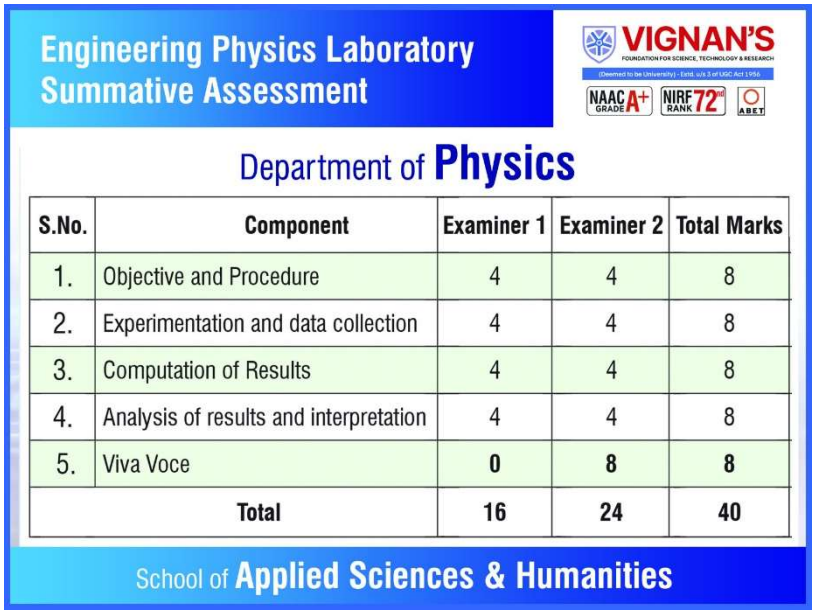
and the following on the white side --

1. Circuit/Ray diagram
2. Model graph
3. Tabular data
4. Calculations

Note: Results is the final section and there needs to be vertical space of at least 3 inch after the Results section to put stamp of Continuous Lab Assessment (CLA).

Record is expected to be submitted within a week of performing the experiment. Delay will incur penalty of -1 for every additional week.

Summative assessment



Engineering Physics Laboratory
Summative Assessment

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S.No.	Component	Examiner 1	Examiner 2	Total Marks
1.	Objective and Procedure	4	4	8
2.	Experimentation and data collection	4	4	8
3.	Computation of Results	4	4	8
4.	Analysis of results and interpretation	4	4	8
5.	Viva Voce	0	8	8
	Total	16	24	40

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Summative Lab Assessment

END of SOP