

Vishnu Waman Thakur Charitable Trust's
Bhaskar Waman Thakur College of Science,
Yashvant Keshav Patil College of Commerce,
Vidhya Dayanand Patil College of Arts,
(VIVA College)



**Lab-Pro
(CC-LP)**



Vishnu Waman Thakur Charitable Trust's

**Bhaskar Waman Thakur College of Science,
Yashvant Keshav Patil College of Commerce,
Vidhya Dayanand Patil College of Arts,
VIVA College**



Department of

PHYSICS

In association with IQAC of VIVA College
Organizes add on course on lab skill development

“LABPRO”

Syllabus:

- 1) Basic Electronic Components
- 2) Basic Physical measuring instruments

Resource Person:
Dr. Hemangi Raut
Miss Niyanta Dave
Mrs. Anushita Moger
Mrs. Laxmi Parate
Mr. Umesh Prajapati
Mrs. Mrunal Darjee

Evaluation: Activity and viva based on Lab Pro

Registration: Contact Mrunal Darjee, Physics Lab (104) Re

Limited seats



November-December 2022

Venue: Physics lab 104, Old VIVA College

Miss Niyanta Dave
Course coordinator

Dr. Deepa Verma
Vice Principal &
IQAC Co-Coordinator

Dr. Prajakta Paranjape
Vice Principal

Dr. V.S. Adigal
Principal



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(AffiliatedtoUniversity ofMumbai)

DepartmentofPhysics

SkillDevelopmentCertificateCourseonLABPRO

Year:2022-23

Proposesashort-termsskilldevelopmentcertificatecourseon

LABPRO

Course description:

- *ThecourseprovidesacomprehensiveoverviewofbasicElectroniccomponentsandto demonstrate their laboratory skills.
- * To understand and practice the skills while performing physics practical using mentionedcomponents.
- * Tounderstand the use of apparatus and theirusewithout fear in dayto daylife.
- * Tocorrelatetheirphysics theoryconceptsthrough practical.
- * Understandthe conceptsoferrorsandtheir estimationincalculatingphysicalparameters.

Whocan attend-Students who areinterestedto exploretheirknowledgeand skill.

Batchsize-maximum30students

Course duration- Total 30 Hrs

Course fees- Not applicable

Venue-OLDVIVACollegePhysicsLab

CourseTiming-9:00am onwards (Theory)
9:00amonwards(Practical,orwhencalledfor)

SYLLABUS-

- 1) **BasicElectronicComponents** –
Studyof different types of Resistors, Capacitors, Inductors, - various methods used to find their values and industrial applications



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Explore Semiconductor based Devices- Diodes, Triode, SCR, LED, Photocell, Solar cell, Transistors- study of types of transistor, identification methods, IC- how to recognize the numbers on IC.

(20 hours)

2) Basic Physical measuring instruments

Study of Vernier Calliper, Micrometer, Spherometer- How to take measurement on the instrument, Spectrometer- how to handle the instrument, use in Lab, precaution to take, skills used for Travelling microscope, Electronics Balance, Study of Power supplies, Dual power supply, Batteries used in Lab.

(10 hours)

Evaluation: Students will have to perform activity based on practical presentation and Viva-Vice

- A certificate will be given to the participants after successful completion of the course.
- Feedback session will be conducted during the certificate distribution program