

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)



**LABTECH
(CC-LT)**



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**Bhaskar Waman Thakur College of Science,
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VIVA College

(2023-24)

Department of

PHYSICS

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

“LAB TECH”

COURSE CODE:CC-LT

Syllabus:

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

Resource Person:

**Dr. Hemangi Raut
Dr. Niyanta Dave
Mrs. Anushita Moger
Mrs . Laxmi Parate
Mr. Umesh Prajapati
Mrs. Mrunal Darjee
Mrs. Jyoti Gupta**

Venue: Physics lab 602, New VIVA College

Dr. 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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CERTIFICATE COURSE

Sr. No	Particulars	
1.	Department	Physics
2.	Name of the Course and Course Code	short-term skill development certificate course (Non-Credit) on LABTECH
3.	Code	CC-LT
4.	Duration	30 Hours
5.	Date of Commencement	07 February 2024
6.	Curriculum / Syllabus copy of the course	<p>Detailed syllabus to be submitted</p> <p>1) Basic Electronic Components – Study of 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. Study of different types of Resistors, Capacitors, Inductors, - various methods used to find their values and uses of components in industries. (20 hours)</p> <p>2) Basic Physical measuring instruments Study of Power supplies, Dual power supply, Batteries used in Lab. 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, (10 hours)</p>
7.	Committee (BOS) for framing of syllabus	<p>1. Chairman : Dr. Hemangi Raut 2. Coordinator :Dr . Niyanta Dave 3. Member : Mrs. Laxmi Parate 4. Member : Mrs. Anushita Moger</p>
8.	Mode of Delivery of the curriculum	Hybrid

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9.	Assessment procedure	Test, Assignments etc.
10.	Outcomes of the program	<ol style="list-style-type: none">1. The course provides a comprehensive overview of basic Electronic component and to demonstrate their laboratory skills.2. To understand and practice the skills while performing physics practical using mentioned components.3. To understand the use of apparatus and their use without fear in day to day life.4. To correlate their physics theory concepts through practical. <p>* Understand the concepts of errors and their estimation in calculating physical parameter</p>

Dr. Niyanta Dave

Name & Signature of Course Coordinator

Dr. Niyanta Dave

Name & Signature of HOD/ Coordinator