Title of Skill Course:Basic chemical lab technician

Department: Department of Chemistry
Title: Basic chemical lab technician

3. Sector: Chemical

4. Year of implementation:2022

Course Structure

	Skill Level	Theory Hours	Practical Hours	Total Hours	Credits	No. of students in batch
8	4	10	05	15	01	30

Syllabus

Course Objectives: Students will be able to

- 1. Learn role and responsibility which are required for the professional job.
- 2. Understand the importance of technical knowledge.

Theory Syllabus (Contact Hrs: 15, Credits: 01)

Unit I: Role and Responsibilities

[5]

Design and execute laboratory testing ,Conduct experiments ,Organize and store all chemical substances, Record and manage all data, Manage lab equipment and supplies , Manage cleanliness,orderliness and supplies, Prepare reports based on findings ,Observe and interpret research findings, Receive, label and analyze samples.

Unit II: Technical Knowledge

[5]

Lab skills include creating a hypothesis, record keeping, pipetting, measuring, lab safety, calibration of lab equipments and instruments.

Course Outcomes: After completion of this course, students will be able to

- 1.Perform laboratory activity in a scientific manner.
- 2.calibrate and demonstrate the working of instruments.

Reference Books:

- Jack T. Ballinger and Gershon J. Shugar, Chemical Technicians' Ready Reference Handbook, 5th Edition (The McGraw-Hill Companies, Inc., 2011)
- Charlotte Bailey, Vicki Barwick, Laboratory Skills Training Handbook(ISBN 978-0-948926-25-9, LGC Limited, May 2007)

Practicals: [5]

1. Preparation of safety data sheets for hazardous chemicals.

SKILL DEVELOPMENT PROGRAM

- 2. Handling of hazardous chemicals. (H₂SO₄, HCl, HNO₃) etc
- 3. Storage of chemicals at workplace.
- 4. Use of fire extinguisher.
- 5. Preparation of laboratory reports.

BOS Sub Committee:

Sr. No.	Name of Member	Designation	Address
1	Mr. A. D. Kadam	Chairman	Assistant Professor, Y. C. I. S., Satara
2	Miss. P. S. Gaikwad	Member	Assistant Professor, Y. C. I. S., Satara
3	Mr. D. Rupanwar	Academic Expert	Asst. Prof., LBS, Satara
4	Mr. Ajit Ekal	Industrial Expert	Manager, Insta vision laboratories & services, Satara