

D. B. F. Dayanand College of Arts and Science

Department of Chemistry

Career Oriented Course (2018-19)

Laboratory safety and handling of Chemicals

Syllabus

(Total Periods: 45 Hrs)

Unit I: General lab safety rules (15 Hrs)

- Common rules that relate to almost every laboratory,
- Safety policies,
- First aid,
- Use of fire safety,
- Use of laboratory hood.

Unit II: Safe Handling of Hazardous Chemicals (15 Hrs)

- Introduction of hazardous chemicals,
- Rules for handling chemicals,
- Essential practices for handling hazardous chemicals,
- Laboratory waste management.

Unit III: Storing, labeling, handling and personal hygiene (15 Hrs)

- Storage and labeling of chemicals,
- Storage of Explosive and reactive hazardous chemicals,
- Transportation of hazardous chemicals

Practicals

1. Demonstration of fire extinguisher
2. Demonstration of working of fuming hood
3. Preparation of solutions
4. Standardization of solutions