

Title of Skill Course: Assistant Nano-analyst

1. Department: Department of Nanoscience and Technology
2. Title: Assistant Nano-analyst
3. Sector:- 13
4. Year of implementation: 2022

Course Structure

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

Syllabus**Course Objectives:**

1. To understand role and responsibilities of Nano-analyst
2. To gain the knowledge of required skills of Nano-analyst

Theory Syllabus (Contact Hrs: 15, Credits: 01)**Unit I:****❖ Role and Responsibilities****[6]**

Role of Nano-analyst: Nanoscale system-based experiments designing, analyses and develop practical application of nanomaterials

Responsibilities: Planning and conducting experiments, Data collection, developing theories, presenting outcomes of experiments, Operating specialized equipment's, Testing products and materials for functionality

Unit-II:**Technical Knowledge****[4]**

Technical and Scientific Skills, Analytical Skills, Problem Solving skills, Mathematical Skills, Report writing, Communication and presenting skills, Time Management, Attention to details.

Course Outcomes:

1. Planning and conducting Nano based experiments
2. Data collection and Report Writing skills.
3. Testing products and materials for functionality

Reference Books:

1. Industrial Management-R.K Singal, Mridul ,Rishi Singal
2. Industrial Engineering and Management –Abhijit Chatterjee

Practical:

1. Experiment Planning for Synthesis of Nanoparticles

2. To Perform designed experiment for synthesis of Nanomaterials
3. Determination of Nanoparticles Size.
4. To determine experimental results and Report writing
5. To Presenting nanomaterial product analysis data.

BOS Sub Committee:

Sr. No.	Name of Member	Designation	Address
1	Miss. S. S. Shinde	Chairman	Department of Nanoscience and Technology
2	Miss. S. V. Nikam	Member	Department of Nanoscience and Technology
3	Mr. Anil Dhole	Academic Expert	
4	Dr. Rishab Sharma	Industrial Expert	Vritra Technologies, Delhi