Estd. June 1964

"Education for Knowledge, Science and Culture."
– Shikshanmaharshi Dr. Bapuji Salunkhe
Shri. Swami Vivekanand Shikshan Sanstha's

VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

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PG Department of Chemistry

Notice: Lecture Using Smart Board

All M.Sc. I students are hereby notified that Miss. S. N. Inamdar will deliver a lecture using a smart board in Smart Classroom-11 on Friday, November 03, 2023, at 2:00 pm. Please ensure timely attendance for the lecture.

Name of Unit: Raman & IR Spectroscopy

Miss. S. N. Inamdar

Dr. Mrs. S. D. Shirke
HEAD
DEPARTMENT OF CHEMISTRY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Lecture delivered by Miss. S. N. Inamdar on smart board on topic Raman & IR spectroscopy

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INTERNAL QUALITY ASSURANCE CELL
2023-2024

Quality Initiatives/ Activities Report

1. **Name of Department**: Chemistry
2. **Name of Organized Activity**: ICT lecture organized for M.Sc.I students on topic 'Raman & IR spectroscopy'.
3. **Date:** 3-11-2023
4. **Duration:** 60 min.
5. **Aims and Objectives:**
   1. One of the main aims of ICT is to help students to become competent and confident users who can use the basic knowledge and skills acquired to assist them in their daily lives. It is also supposed to prepare students for the world of tomorrow.
   2. It aims to help learners to have an open and flexible mind. This will help them to adjust to the inevitable future changes.
   3. The students should be able to learn chemistry visually through ICT because some topics likes stereochemistry, spectroscopy and instrumental technique which are difficult to explain by traditional chalk and talk method.
   4. It also aims to help students become well-cultured citizens of the modern world.
   5. To make dynamic and interactive visualization possible for phenomena and processes e.g. through animations and simulations.

   6. **No. of beneficiaries:** M.Sc.-I: 44 students

7. **Brief Description:**

   Chemistry department conduct lectures on smart board every year for B.Sc, & M.Sc. students. Incorporating ICT into chemistry education can be done through the use of visualization tools such as molecular modeling, data collection, and presentation. So lecture was taken on the topic 'Raman & IR spectroscopy' with the help of ICT which is more convenient to understand the students through PPT presentations, you tube videos and web articles. In the spectroscopy points like classical theory, Raman & Rayleigh scattering and the instrumentation of Raman spectrometer was easily understood by students. Although chalk and talk method has gain attention of the students but it has been found that using ICT to teach such topic of chemistry helps teacher to overcome from class room difficulty like presenting 3 D structure of molecule with model. There are many concepts that can be used to describe motivational

aspect of science teaching and learning. ICT increases teacher efficiency and can reduce teachers time spent performing administrative tasks. It is important for both students and teachers to use ICT regularly in their courses. Students higher-order thinking skills are enhanced in learning environments where ICT is used.

8. Outcomes:

The educational resources will be available for students who can find them at websites or digital books. Morever, they can get video tutorials, educational materials from teachers by that encourage active participation of everyone in the educational process.

Miss. S. N. Inamdar

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