# Devi Ahilya Vishwavidyalaya, Indore

## Ph.D. Course work in Chemistry

**(2021)**

**Credits 3**

**CHEM-103 ADVANCED COURSE: INTERPRETATION OF SPECTRA**

**(Theory and Practice)**

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| **Unit –I:**  **ESR spectroscopy**   * Introduction, Basic Principle, Instrumental Features and Interpretation Exercises * Structure elucidation using combined spectral techniques data |
| **Unit –II:**  **Infra-Red spectroscopy**  Introduction, Basic Principle, Instrumental Features and Interpretation Exercises |
| **Unit –III:**  **NMR spectroscopy**  Introduction, Basic Principle, Instrumental Features and Interpretation Exercises |
| **Unit –IV:**  **Mass spectrometry**  Introduction, Basic Principle, Instrumental Features and Interpretation Exercises |