

SANDIP FOUNDATION'S

SANDIP INSTITUTE OF PHARMACEUTICAL SCIENCES



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Affiliated to Savitribai Phule Pune University, Approved by PCI, New Delhi, NAAC Accredited

Course Module Hands on UV-Vis, IR, HPLC & GC

Sr No.	Syllabus Content	Hours
1	Infrared Spectroscopy: 1. Basic principle and detailed instrumentation of IR. 2. Types of IR: FTIR, ATR 3. Sample preparation techniques for solids & liquids. 4. Compound characterization by IR spectrum. 5. Calibration	04
2	Ultraviolet-Visible Spectroscopy 1. Basic principle and detailed instrumentation of UV-Visible Spectro photometer 2. Qualitative and quantitative application. 3. Sample analysis. 4. Analytical method development and validation. 5. Calibration	07
3	High Performance Liquid Chromatography 1. Basic principle and detailed instrumentation of HPLC. 2. Sample analysis. 3. Analytical method development and validation. 4. Qualitative and quantitative application. 5. Calibration.	07

4	Gas Chromatography	
	1. Basic principle and detailed instrumentation of GC.	
	2. Sample analysis by using liquid auto sampler and head	07
	space sampler.	
	3. Analytical method Development and validation.	
	4. Qualitative and quantitative application.	
	5. Calibration.	

Remark by IQAC	Dr. Marina Dsouza.
Signature	



