

# **COURSE OUTLINE**

## **TOPICS COVERED IN COURSE**

1. Introduction to chromatography
2. Introduction to HPLC (definition, principle, types of HPLC)
3. Advantages of HPLC
4. Advantages of HPLC over other techniques
5. Advantages of HPLC over GC
6. Instrumentation of HPLC
7. Application of HPLC
8. Theory of HPLC
9. Stationary phases and supporting material
10. Introduction to solvent extraction (principle, definition)
11. Factor affecting on solvent extraction
12. Classification of solvent extraction
13. Method of extraction
14. Mechanism and application of solvent extraction
15. Apparatus used in solvent extraction

## Reference books

1. Chromatography (basic principles, sample preparations and related materials) by WILEY-VICH
2. Handbook of HPLC second edition by JACK CAZES

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