

Course number and grade: 354 Chem

Course Name: Chemical methods of separation

Modules: (theoretical + practical)(1+1)

Level:V

Laboratory time :satu 1-3

Topics of course:

Extraction

A - appropriate for the solvent extraction

B - the efficiency of extraction

T - Determination of iron spectrally using a detector

thioassianat

Chromatographic methods

1 - column chromatography

A - the separation of pigments by column chromatography

2 - ion-exchange

A - estimate the total concentration of ions in the solution

by ion-exchange column

3 - layer chromatography flat

A - Selection of the appropriate mobile phase to separate

B - the separation of a mixture of dyes by thin-layer

chromatography

T - a mixture of phenols separated by thin-layer

chromatography

4 - Gas chromatography ((GC

A - identify the types of alcohols in the mixture by gas

chromatography

5 - liquid chromatography, high-pressure ((HPLC

A - the separation and estimate a mixture of aspirin and

caffeine by liquid chromatography high-pressure

References:

Study Memorandum

Distribution of grade:

Degree required

5 report to the experience

5 exam league

15 final exam practice

5 final exam theory

30 Total