

## 441 Chem

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### Course Description

Topic	No of Weeks	Contact hours
Definition of electromagnetic radiation ultraviolet and visible spectra	2	4
Infrared spectra	5	10
Nuclear magnetic resonance spectra	6	12
Mass spectra	1	2
Structure elucidation by joint application of UV, IR, NMR, and Mass spectroscopy	1	2

### Schedule of Assessment Tasks for Students during the Semester

	Assessment task	Week due	Proportion of Final Assessment
1	Major exam I	<u>12/2</u>	20%
2	Major exam II	<u>4/3</u>	20%
3	Quizzes	-	10%
4	Project & Homework	-	6% - 4%
5	Final exam	-	40%

### References and text books

1. Pavia, D. L.; Lampman, G. M. and Kriz, G. S, Introductio to Spectroscopy, 4<sup>th</sup> Edition (2009)
2. Silverstien, R. M. and Webster, F. X, Spectroscopic Identification of organic Compounds, 7<sup>th</sup> Edition (2005)
3. المبادئ الأساسية في أطياف المركبات العضوية، حسن الحازمي وسالم الشويمان
4. أساسيات التحليل الطيفي للمركبات العضوية، عبد الله عسيري و عبود باحجاج