

MENA 4010 Module 9 – XPS – autumn 2016

Time and Place: Weeks 42-44 Chemistry department and MINA building

18/10 – 12.15-14.00 Lecture 1: Introduction to XPS/general principles/spectrum interpretation

19/10 – 9.15-11.00 Lecture 2: Instrumentation and planning experiments

20/10 – 10.15-12.00 Work shop: Planning experimental work – prepare for laboratory sessions

24/10 and/or 25/10 Laboratory demonstration in Mina building

1/11 and/or 2/11 Data processing using CasaXPS

Date	Day	Time	Room	Building	Lecture	Teacher
18/10	Tuesday	12.15-14.00	Curie	Chemistry	Introduction to XPS	Spyros
19/19	Wednesday	9.15-11.00	Avogadro	Chemistry	Instrumentation and experiment planning	Sissel
20/10	Thursday	10.15-12.00	Avogadro	Chemistry	*Workshop:Planning laboratory work	Sissel/ Spyros
24/10	Monday	10.30-12.30	XPS laboratory	MINA building	**Lab groups alternative 1	Spyros
25/10	Tuesday	10.00-12.00	XPS laboratory	MINA building	**Lab groups alternative 2	Spyros
1/11	Tuesday	12.15-14.00	Ø 186	Chemistry	Offline data processing alt. 1	Sissel
2/11	Wednesday	10.15-12.00	Berzelius	Chemistry	Offline data processing alt. 2	Sissel
20/11					Deadline written report	Spyros/ Sissel

*) We will prepare for the laboratory sessions. As part of the laboratory work you are expected to read a XPS paper (will be posted in Fronter) and based on the paper and the Iworkshop on 20/10 you will work in groups and make a plan for the experimental work.

**) Details at/before first lecture - Most likely we have to divide you into two or more groups.

We might have to schedule more laboratory time, this depends on demand (how many students register for the module).