

## TFYA41: Thin Film Physics, 2011

### Teachers:

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### Lectures:

1. Introduction
2. Film formation and structure I
3. Film formation and structure II
4. Film formation and structure III
5. Epitaxy
6. Computer simulations
7. PVD I
8. PVD II
9. Characterization of thin films
10. Vacuum science and technology
11. Optical thin films
12. CVD
13. Other techniques; electroplating, plasma spraying, etc. and Mechanical and electrical properties of thin films
14. Student presentations
15. Study visit at Impact Coatings AB
16. Student presentations

### Room, time, date, lecturer

P36, 10-12	21/3	KS/UH
P36, 13-15	23/3	KS
P18, 13-15	25/3	KS
P26, 10-12	28/3	KS
P18, 08-10	31/3	UH
P18, 10-12	4/4	VC
P18, 13-15	6/4	UH
P18, 08-10	7/4	UH
P22, 10-12	11/4	KS
P18, 13-15	15/4	UH
P18, 10-12	2/5	KJ
P18, 13-15	11/5	HP
P18, 08-10	12/5	UH
P18, 10-12	16/5	KS
P18, 08-10	19/5	KS
P18, 10-12	23/5	KS
08-12	30/5	
14-18	17/8	
08-12	14/1	

### Exam

### Laboratory work:

Computer simulation DS  
Physical Vapor Deposition AA

### Study visit: (mandatory)

May 23, 10-12

### Book:

The Materials Science of Thin Films, by Milton Ohring, Second edition. Materials will also be distributed during the lectures.

### Examination:

A written exam and a student presentation.