

Course Schedule of MST Program ,TIGP

Semester: Spring, 2016(104 學年度下學期)

Course(科目): 高等物化二- Advanced Physical Chemistry (II)

Time(時間): 9:10~10:00 am Monday, 10:20~12:10 am Wednesday

Room(教室): R121 , Chemistry Building NTU 臺大化學系館 121 教室

NTHU coordinator(清大教師): 倪其焜

Course speakers(授課老師): 林倫年 Michitoshi Hayashi、郭哲來 Jer-Lai Kuo

Core course(必選課), credit(學分): 3

Course No.(科號): TIGP727200

Date	lecturer	Date	lecturer
2/22Monday 9:10~10:00	Prof. Michitoshi Hayashi	5/2Monday 9:10~10:00	Prof. Jer-Lai Kuo
2/24Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	5/4Wednesday 10:20~12:10	Prof. Jer-Lai Kuo
3/2Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	5/9Monday 9:10~10:00	Prof. Jer-Lai Kuo
3/7Monday 9:10~10:00	Prof. Michitoshi Hayashi	5/11Wednesday 10:20~12:10	Prof. Jer-Lai Kuo
3/9Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	5/16 Monday 9:10~10:00	Prof. Jer-Lai Kuo
3/14 Monday 9:10~10:00	Prof. Michitoshi Hayashi	5/18Wednesday 10:20~12:10	Prof. Jer-Lai Kuo
3/16Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	5/23 Monday 9:10~10:00	Prof. Jer-Lai Kuo
3/21Monday 9:10~10:00	Prof. Michitoshi Hayashi	5/25Wednesday 10:20~12:10	Prof. Jer-Lai Kuo
3/23Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	5/30 Monday 9:10~10:00	Prof. Jer-Lai Kuo
3/28Monday 9:10~10:0	Prof. Michitoshi Hayashi	6/1Wednesday 10:20~12:10	Prof. Jer-Lai Kuo
3/30Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	6/6 Monday 9:10~10:00	Prof. Jer-Lai Kuo
4/6 Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	6/8Wednesday 10:20~12:10	Prof. Jer-Lai Kuo
4/11Monday 9:10~10:00	Prof. Michitoshi Hayashi	6/13Monday 9:10~10:00	Prof. Jer-Lai Kuo
4/13Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	6/15Wednesday 10:20~12:10	Prof. Jer-Lai Kuo (Final exam)
4/18 Monday 9:10~10:00	Prof. Michitoshi Hayashi		
4/20Wednesday 10:20~12:10	Prof. Michitoshi Hayashi		
4/25Monday 9:10~10:00	Prof. Michitoshi Hayashi		
4/27Wednesday 10:20~12:10	Prof. Michitoshi Hayashi		

Core materials	Time-independent Schrödinger equation, particle in a box/well, rigid rotors, Dirac formalism (expectation values, uncertainty principle, matrix representation), harmonic oscillator, molecular structures, angular momentum (Clebsch-Gordan coefficients, rotation matrices), variational method, time-independent Perturbation theory Optional materials
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Optional materials	Density operator and matrix, symmetries (parity and time reversal), tensor algebra (Wigner-Eckart theorem), energy band theory of solids, chemical bondings, frequency domain spectroscopy
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