

Course Schedule of MST Program ,TIGP

Semester: Spring, 2015(103 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
2/25 Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	4/29 Wednesday 10:20~12:10	Prof. Jer-Lai Kuo
3/2 Monday 9:10~10:00	Prof. Michitoshi Hayashi	5/4 Monday 9:10~10:00	Prof. Jer-Lai Kuo
3/4 Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	5/6 Wednesday 10:20~12:10	Prof. Jer-Lai Kuo
3/9 Monday 9:10~10:00	Prof. Michitoshi Hayashi	5/11 Monday 9:10~10:00	Prof. Jer-Lai Kuo
3/11 Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	5/13 Wednesday 10:20~12:10	Prof. Jer-Lai Kuo
3/16 Monday 9:10~10:00	Prof. Michitoshi Hayashi	5/18 Monday 9:10~10:00	Prof. Jer-Lai Kuo
3/18 Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	5/20 Wednesday 10:20~12:10	Prof. Jer-Lai Kuo
3/23 Monday 9:10~10:00	Prof. Michitoshi Hayashi	5/25 Monday 9:10~10:00	Prof. Jer-Lai Kuo
3/25 Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	5/27 Wednesday 10:20~12:10	Prof. Jer-Lai Kuo
3/30 Monday 9:10~10:00	Prof. Michitoshi Hayashi	6/1 Monday 9:10~10:00	Prof. Jer-Lai Kuo
4/1 Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	6/3 Wednesday 10:20~12:10	Prof. Jer-Lai Kuo
4/8 Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	6/8 Monday 9:10~10:00	Prof. Jer-Lai Kuo
4/13 Monday 9:10~10:00	Prof. Michitoshi Hayashi	6/10 Wednesday 10:20~12:10	Prof. Jer-Lai Kuo
4/15 Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	6/15 Monday 9:10~10:00	Prof. Jer-Lai Kuo
4/20 Monday 9:10~10:00	Prof. Michitoshi Hayashi	6/17 Wednesday 10:20~12:10	Prof. Jer-Lai Kuo
4/22 Wednesday 10:20~12:10	Prof. Michitoshi Hayashi	6/22 Monday 9:10~10:00	Prof. Jer-Lai Kuo
4/27 Monday 9:10~10:00	Prof. Michitoshi Hayashi	6/24 Wednesday 10:20~12:10	Prof. Jer-Lai Kuo

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
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