Elective Course Description (1. Fall Semester)

| Subject (English) | Introductory Quantum Mechanics | | | | | |
|--|---|--|---|---|--|--|
| <u>(日18)</u> 科目名 (日本語) | 量子力学 | | Semester | Fall | Day/Slot | |
| Course Code | | Course Numbering | TEI-QTME | 301 | Period | Oct. – Feb. |
| Instructor (Post) | Assoc. Prof. Simon J. Greaves | | | Campus Building | | |
| Faculty | Department of Electrica Information and Physic Engineering | | Credits | 2 | Class Room | |
| Class subjec | t | | | · | | · |
| Object and s | summary of class | | | | | |
| basic con used to s physical Students | ncepts of quantum mechai | nics and how the blems and show tum mechanica | ney differ fro w that quant I tunneling, | om classical mo tum mechanic discrete energ | echanics. The s is can be used gy levels and e | |
| Keywords | - | | | | | |
| Goal of stud | iy | | | | | |
| Contents an | d progress schedule of cl | ass | | | | |
| 3. Compt 4. Bohr's 5. Schröc 6. Operat 7. The in 8. Pauli e | body radiation, photoelect ton scattering, Franck and model of the hydrogen at dinger equation, wave fund tors, eigenvalue equations finite potential well exclusion principle, particle function potential, scatter | Hertz experime om, de Broglie ctions , expectation v e in a box, Heise | theory values | rtainty princip | le | |
| 10. One o 11. Solid 12. The h | dimensional barrier proble s, band gaps, angular mon narmonic oscillator particles and wave packet | ems nentum | ng | | | |
| 10. One of 11. Solids 12. The h 13. Free Preparation | dimensional barrier proble s, band gaps, angular mon narmonic oscillator particles and wave packet | ems nentum | | | | |
| 10. One of 11. Solids 12. The h 13. Free Preparation | dimensional barrier proble s, band gaps, angular mon narmonic oscillator particles and wave packet | ems nentum | | on homework, | mid-term and | I final examinations. |
| 10. One of 11. Solids 12. The h 13. Free Preparation Record and | dimensional barrier proble s, band gaps, angular mon narmonic oscillator particles and wave packet | ems hentum <u>Course grades</u> There is no se David J. Griffi Richard L. Lib | s are based o t text. Many ths, Introduc off, Introduc | v textbooks co ction to Quant tory Quantum | ver the topics um Mechanics Mechanics, A | I final examinations. discussed in the course, e.g. 5, Prentice Hall International. ddison Wesley. 5, Prentice Hall. |
| 10. One of 11. Solids 12. The h 13. Free Preparation Record and | dimensional barrier proble s, band gaps, angular mon narmonic oscillator particles and wave packet - evaluation method | ems hentum <u>Course grades</u> There is no se David J. Griffi Richard L. Lib | s are based o t text. Many ths, Introduc off, Introduc | v textbooks co ction to Quant tory Quantum | ver the topics um Mechanics Mechanics, A | discussed in the course, e.g. s, Prentice Hall International. ddison Wesley. |