Lectures in Dept. Functional Molecular Science

| Field | Subject Code | Subject | Credit | Content of subject | Lecturer | | Lecture Schedule |
|---|---|---|---|---|---|---|---|
| | 11080195 | Functional Biomolecular Science | 2 | 1. Bases and applications of solution and solid-state NMR spectroscopy in structural analyses of biomolecules<br>2. Overview of metalloproteins, Molecular mechanism of metalloproteins, Overview of spectroscopy for studying metalloproteins | Prof.<br>Assoc.Prof.<br>Assoc.Prof. | Koichi Kato<br>Hiroshi Fujii<br>Katsuyuki Nishimura | 2014 school year |
| | 11080171 | Complex Catalysis | 2 | Molecular structures and functions of complex catalysts, in particular transition metal complexes, will be overviewed to understand catalytic molecular transformations. | Prof.<br>Assoc.Prof. | Yasuhiro Uozumi<br>Hidehiro Sakurai | 2013 school year<br>Intensive Course<br>in 2nd semester |
| | 11080194 | Quantum dynamics | 2 | Lecture on principles of direct observation and control of ultrafast quantum dynamics of matter (in femto- and attosecond time scale) by using light and recent experimental trials in the relevant field. | Prof. | Kenji Ohmori | 2014 school year |
| | 11080100 | Photo-physics | 2 | Laser technologies, photo-electronics, photo-material science, basic knowledges of optics and electromagnetic radiation from relativistic electron beams (synchrotron radiation, free electron lasers) will be described. | Prof.<br>Assoc.Prof.<br>Assoc.Prof. | Masahiro Katoh<br>Takunori Taira<br>Takao Fuji | 2014 school year |
| | 11080101 | Molecular Functional Materials | 2 | In this lecture, one of the following topics will be delivered : Solid state physics and fundamental knowledge of electronic properties measurement and device physics for molecular solids. | Prof.<br>Assoc.Prof. | Masahiro Hiramoto<br>Toshikazu Nakamura | 2013 school year<br>1st semetser |
| | 11080196 | Exercise on Functional Molecular Science Ⅰ | 4 | Discussion, experimental instructions, and/or theoretical studies for the student to perform the individual fundamental and applied research in the field of functional molecular science. This program is provided by appropriate teaching stuffs based on the research subject. | | | every year |
| | 11080104 | Exercise on Functional Molecular Science Ⅱ | 4 | | | | every year |
| | 11080105 | Exercise on Functional Molecular Science Ⅲ | 4 | | | | every year |
| | 11080106 | Exercise on Functional Molecular Science Ⅳ | 4 | | | | every year |
| | 11080107 | Exercise on Functional Molecular Science Ⅴ | 4 | | | | every year |
| | 11080197 | Seminar on Functional Molecular Science Ⅰ | 4 | Small size seminar to gain scientific knowledge, competence for scientific consideration, discussion, and research performance, and origina scientific conceptions in the field of fundamental and applied functional molecular science. This program is provided by appropriate teaching stuffs molecular science. This program is provided by appropriate teaching stuffs based on the research subject of the individual student. | | | every year |
| | 11080110 | Seminar on Functional Molecular Science Ⅱ | 4 | | | | every year |
| | 11080111 | Seminar on Functional Molecular Science Ⅲ | 4 | | | | every year |
| | 11080112 | Seminar on Functional Molecular Science Ⅳ | 4 | | | | every year |
| | 11080113 | Seminar on Functional Molecular Science Ⅴ | 4 | | | | every year |
| | 11080115 | English for scientific research | 2 | The principal aim of this course is to improve academic reading, acadimic writing, listenig, and speaking in English for scientific research. | | | |