

[Aim]

Those who want to learn the basis of the modern biochemistry will be welcome to this course.

[Schedule]

The rough schedule of the lecture is as follows. The topics may change based on the intelligibility and background information of the attendee.

- 1 . Introduction: what is biochemistry?
- 2 . Water molecule: from biochemical aspects
- 3 . Amino Acids and polypeptides
- 4 . Protein: marvelous polymer molecule
- 5 . Protein folding and its regulation
- 6 . Enzyme catalysis: general aspects
- 7 . Energy transduction: I. Mitochondria
- 8 . Molecular mechanism of ATP synthesis
- 9 . Energy transduction: II. Chloroplasts
- 10 . Electron transfer and enzyme regulation

[How to Grade]

At the end of the course, the attendee has to have an exam.