**Cell Biology**

(For 1st year faculty of science students)

**Module description:**

This module represents an introduction to the eukaryotic cell. It includes (briefly) the structure and function of most cell components. The module is taught in total of 4 hours of lectures and 4 hours of practical sessions. Lectures will be run for week 1 upto week 4 (an hour per week). The practical sessions will run from week 1 to week 2 (2 hours per week).

**Module contents:**

By the end of this module you will know;

The cell and protoplasm theories,

Definition of cell biology,

Microscopes (light and electron microscopes) and preparation of samples for microscopical examinations,

Prokaryotic cells vs Eukaryotic cells,

Structure of Cell membranes and its modifications,

Structure and functions of most Cytoplasmic organells,

The nucleus,

Chromatin structure and function,

Chromosome number, types, structure,

The cell cycle and check points,

and Mitosis.

**Evaluation**

The grade of this module is calculated as following:

48% for the final written exam

6% for the module work

6% oral exam

24% for the final practical exam

16% for the practical work and activities

The module work will be in the form of a midterm exam and a report.