**III.2.7** **PHOTOCHEMISTRY**

**I. Course description**

**1. Credit points: 2 ECTS**

**2. Time commitment**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Items | Lecture | Tutorial/  Exercise | Practice/  Assignment | Lab-work | Total |
| No. of hours | 15 |  |  | 5 | 20 |

**3. Prerequisites**

**4. Recommended background knowledge**

**5. Subject description**

**6. Objectives & Outcome**

**7. Assessment/ Evaluation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Component | Attendance/Participation | Exercises | Practical | Reports | Midterm | Final |
| Percentage % | 10 |  |  |  | 30 | 60 |

**8. Prescribed Textbook(s):** N/A

**II. Course content**

1 Introduction to photochemistry

2 Electronic structures of molecules and light absorption

3 Photochemical reactions and radical formation

4 Photochemical kinetics

5 Photochemical reactions of main chemical functions (unsaturated bonds, carbonyl and N-containing chromophores...)

Environmental photochemistry

**III. Reference Literature:**