**Al-Farabi Kazakh National University**

**Higher School of Medicine**

**Department of Fundamental Medicine**

**Discipline: «Molecular biology and Bioorganic Chemistry»**

**Tasks for SWS, Schedule of their implementation, Methodical directions for them**

The schedule of implementation of Self Work of Student (SWS)

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| № | Tasks for SWS\* | The form of implementation of SWS | Deadline of SWS\*\* (study week) |
| 1 | The group of students is divided into two teams. The first team makes presentation “GMOs are harmless” and the second group makes presentation “GMOs are dangerous” by scientific articles from PubMed (<https://www.ncbi.nlm.nih.gov/pubmed>) for the last five years. Each team defends its position based on scientific facts. | Participation in the plenary conference “GMOs: pros and cons”. | 5 week of the course |
| 2 | The group of students is divided into two teams. The first team makes presentation “Gene therapy is a myth” (problems of gene therapy) and the second group makes presentation “Gene therapy is reality” (achievements of gene therapy) by scientific articles from PubMed (<https://www.ncbi.nlm.nih.gov/pubmed>) for the last five years. Each team defends its position based on scientific facts. | Participation in the plenary conference “Gene therapy: myths and reality”. | 7 week of the course |
| 3 | Each student should study one chapter from the first volume of the book “Organic chemistry with a biological emphasis” (Chapters 1-8) assigned by the teacher and implement all tasks at the end of this chapter. On the conference student should discuss the case from the chapter with the teacher and answer on his questions. | Participation in the plenary conference (Case-based discussion) | 12 week of the course |
| 4 | Each student should study one chapter from the second volume of the book “Organic chemistry with a biological emphasis” (Chapters 9-17) assigned by the teacher and implement all tasks at the end of this chapter. On the conference student should discuss the case from the chapter with the teacher and answer on his questions. | Participation in the plenary conference (Case-based discussion) | 15 week of the course |

For implementation of SWS students can get maximum 10 points additionally to the final course grade.