## Course Syllabus

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| **Code - Course Title** | **BDY309 - Cancer and Nutrition** |
| **Course Type** | V. SEMESTER |
| **Laboratory + Practice** | 2+0 |
| **ECTS** | **3.0** |
| **Language of Instruction** | Türkçe |
| **Course Type** | Area Elective Courses |
| **Course Instructor(s)** | ÖĞR. GÖR. DR. EMRE ÇÖMLEKÇİ |

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| **Mode of Delivery** | This course will only face-to-face training. |
| **Place of Delivery** | On Campus |
| **Used Educational Platforms** | Face-to-face |
| **Prerequisites** | There are no prerequisites or corequisites for this course. |
| **Courses Recomended** | Medical Biology and Genetics |
| **Recommended Resources** | Beslenmenin Kanser Tedavisindeki Gücü, Dilşat Baş, Destek Yayınları, 2016. Kanserde Beslenme Tedavisi, Prof. Dr. Gamze Akbulut, Eds., Ankara Nobel Yayınları, 2019. |
| **Work Placement** | Not applicable. |
| **Aims of the Course** | The objective is to acquire general knowledge and concepts regarding cancer, clinical oncology, treatment approaches, and the relationship between nutrition and cancer, as well as to comprehend nutritional principles in prevention and treatment. |

## Course Syllabus

| Weeks | Learning Outcomes | Topics | Teaching Methods |
|---|---|---|---|
| **Week - 1** | | Cancer and carcinogenesis, Definition of cancer | |
| **Week - 2** | | Definition and mechanisms of carcinogenesis | |
| **Week - 3** | | Definition and mechanisms of carcinogenesis | |
| **Week - 4** | | Genetic and environmental factors in carcinogenesis | |
| **Week - 5** | | Genetic and environmental factors in carcinogenesis | |
| **Week - 6** | | Cancer and energy intake | |
| **Week - 7** | | Cancer and metabolism | |
| **Week - 8** | | Cancer and macronutrients | |
| **Week - 9** | | Cancer and macronutrients | |
| **Week - 10** | | Cancer and micronutrients: Vitamins | |

## Course Syllabus

| Weeks | Learning Outcomes | Topics | Teaching Methods |
|---|---|---|---|
| Week - 11 | | Cancer and micronutrients: Minerals | |
| Week - 12 | | Cancer and functional diet components | |
| Week - 13 | | Cancer and phytochemicals | |
| Week - 14 | | Cancer and food additives | |

## Learning Outcomes

| # | Learning Outcome |
|---|---|
| 1 | Knows cancer and cancer-related concepts. |
| 2 | Explain the functions and possible mechanisms of effective nutrients, nutrients and dietary components in cancer formation and during cancer. |
| 3 | Explains possible effective genetic and environmental factors in cancer formation. |
| 4 | The student knows the functions of nutrients, nutrient elements, and food components that are effective in cancer formation and throughout the course of the disease, and can utilize these nutrients, nutrient elements, and components in a manner that supports the individual's health. |
| 5 | The student will be able to identify nutritional support products developed for cancer patients and develop recommendations regarding appropriate product selection and dosage. |

## Sustainable Development Goals

✓ Health and Quality of Life

## Course Theme

✓ Biotechnology and Genetics ✓ Health Sciences and Medical Technologies

## AKTS Workload

| Activity | Duration (Hour) | Count | Workload |
|---|---|---|---|
| Teorik Derse Katılım | 2.00 | 14 | 28 |
| Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı) | 1.00 | 14 | 14 |
| Ödevler | 0.00 | 0 | 0 |
| Proje - Rapor - Sunum Hazırlama | 1.00 | 14 | 14 |
| Ara Sınav Hazırlığı (sınav süresi dahil) | 1.00 | 14 | 14 |
| Final Sınavı Hazırlığı (sınav süresi dahil) | 0.00 | 0 | 0 |
| Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.) | 0.00 | 0 | 0 |
| Staj Uygulaması | 0.00 | 0 | 0 |
| | | **Calculated ECTS** | **3.0** |

## Assessment Method and Passing Requirements

✓ Open-Ended Test ✓ Multiple Choice Test