Course Syllabus

Code - Course Title	**FKG528 - Vitamins and Minerals of Plant and Animal Origin**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. GÜLMİRA ÖZEK

Mode of Delivery	Face to face
Prerequisites	There is no prerequisite or co-requisite for this course .
Courses Recomended	There is no recommended optional programme component for this course.
Recommended Resources	G. Özek, Plant Derived Vitamines and Minerals, Lecture Notes.
Work Placement	Not applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction into Vitamins.	
Week - 2		Classification of Vitamins.	
Week - 3		Compounds of Vitamin A group: herbal sources, physical and chemical properties, qualitative and quantitative analysis. Biological activity.	
Week - 4		Compounds of Vitamin D group: herbal sources, physical and chemical properties, isolation, qualitative and quantitative analysis. Biological activity.	
Week - 5		Compounds of Vitamin E group: herbal sources, physical and chemical properties, isolation, qualitative and quantitative analysis. Biological activity.	
Week - 6		Compounds of Vitamin K group: herbal sources, physical and chemical properties, isolation, qualitative and quantitative analysis. Biological activity.	
Week - 7		Vitamin C. Compounds of Vitamin B group: herbal sources, physical and chemical properties, isolation, qualitative and quantitative analysis. Biological activity.	
Week - 8		Compounds of Vitamin B group- B1 and B3: herbal sources, physical and chemical properties, isolation, qualitative and quantitative analysis. Biological activity.	
Week - 9		Folic acid. Inositol. Cholin. Herbal sources, physical and chemical properties, isolation, qualitative and quantitative analysis. Biological activity.	
Week - 10		Minerals. Herbal sources, physical and chemical properties, isolation, qualitative and quantitative analysis. Biological activity.	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 11		Minerals. Herbal sources, physical and chemical properties, isolation, qualitative and quantitative analysis. Biological activity.	
Week - 12		Minerals. Herbal sources, physical and chemical properties, isolation, qualitative and quantitative analysis. Biological activity.	
Week - 13		Minerals. Herbal sources, physical and chemical properties, isolation, qualitative and quantitative analysis. Biological activity.	
Week - 14		Minerals. Herbal sources, physical and chemical properties, isolation, qualitative and quantitative analysis. Biological activity.	

Learning Outcomes

#	Learning Outcome
1	Define the vitamins.
2	Recall the methods used for industrial obtaining of the vitamins.
3	Recall the herbal sources of the vitamins.
4	Define macro- and mico- elements..
5	Recall the biological properties of minerals.
6	Categorize vitamins.
7	Recall the physical, chemical and biological properties of the vitamins.
8	Discuss the extraction methods of the vitamins from herbal sources.
9	Recall the methods used for qualitative analysis of the vitamins from herbal sources.
10	Recall the methods used for quantitative analysis of the vitamins from herbal sources.
11	Recall of Pharmacopoean monographs of the vitamins

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.