DEPARTMENT OF PLANT PRODUCTION AND TECHNOLOGIES
UNDERGRADUATE CURRICULUM

Abbreviations: T=Weekly hours: theoretical; P=Weekly hours: practice; ECTS= European Credit Transfer System

Semester-1

Code	Course Title	T	P	ECTS	Status
UNIV 1015	Turkish Language & Literature I	2	0	2	Required
FANS 1003	Physics I	2	2	4	Required
FANS 1005	Chemistry I	2	2	4	Required
AGRI 1001	Botany	2	2	4	Required
FANS 1001	Mathematics I	3	0	4	Required
UNIV 1001	English I	3	0	4	Required
CENG 1003	Introduction to Programming I	2	0	3	Required
UNIV 1017	Occupational Health & Safety	2	0	3	Required
FANS 1009	Social Responsibility	0	2	2	Required
	TOTAL CREDIT			**30**	

Semester-2

Code	Course Title	T	P	ECTS	Status
UNIV 1016	Turkish Language & Literature II	2	0	2	Required
FANS 1004	Physics II	2	2	4	Required
FANS 1006	Chemistry II	2	2	5	Required
AGRI 1002	Zoology	3	0	4	Required
FANS 1002	Mathematics II	3	0	4	Required
UNIV 1002	English II	3	0	4	Required
CENG 1004	Introduction to Programming II	2	0	3	Required
UNIV 1032	Technical Drawing	0	2	2	Required
UNIV 1024	Career Planning	2	0	2	Required
	TOTAL CREDIT			**30**	

Semester-3

Code	Course Title	T	P	ECTS	Status
UNIV 2007	Principles of Ataturk & History of Turkish Revolution I	2	0	2	Required
AGRI 2001	Plant Physiology	2	2	4	Required
AGRI 2003	Biostatistics	3	0	3	Required
AGRI 2005	Microbiology	2	2	3	Required
AGRI 2007	Soil Science	3	0	3	Required
AGRI 2009	Animal Science	2	0	3	Required
AGRI 2011	Agricultural Meteorology	2	0	3	Required
AGRI 2013	Entomology	2	1	3	Required
AGRI 2015	Mass & Energy Balances	2	0	3	Required
AGRI 2017	Agricultural Ecology	2	0	3	Required
	TOTAL CREDIT			**30**	

Semester-4

Code	Course Title	T	P	ECTS	Status
UNIV 2008	Principles of Ataturk & History of Turkish Revolution II	2	0	2	Required
AGRI 2002	Plant Biochemistry	2	1	3	Required
AGRI 2004	Research & Experimental Methods	1	2	3	Required
AGRI 2006	Field Crops	2	2	3	Required
AGRI 2008	Horticulture	2	2	3	Required
AGRI 2010	Agricultural Irrigation & Drainage	2	0	3	Required
AGRI 2012	Agricultural Machinery	2	0	3	Required
AGRI 2014	Smart Agriculture	2	0	2	Required
AGRI 2016	Principles of Genetics	2	2	3	Required
AGRI 2018	Practical Training I	0	4	5	Required
	TOTAL CREDIT			**30**	

Semester-5

Code	Course Title	T	P	ECTS	Status
AGRI 3001	Biotechnology in Plant Science	2	2	4	Required
AGRI 3003	Plant Pathology	2	2	4	Required
AGRI 3005	Introduction to Engineering Concepts	3	0	3	Required
AGRI 3007	Seed Science & Technology	2	1	3	Required
AGRI 3009	Plant Propagation Techniques	2	1	3	Required
AGRI 3011	Fluid Mechanics	2	0	3	Required
ECOD 2013	Introduction to Economics	3	0	4	Required
-	Elective			3	Elective
-	Elective			3	Elective
	TOTAL CREDIT			**30**	

Semester-6

Code	Course Title	T	P	ECTS	Status
AGRI 3002	Principles of Weed Science	2	2	3	Required
AGRI 3004	Cereals & Legume Crops	2	2	4	Required
AGRI 3006	Diseases of Horticultural Plants	2	2	3	Required
AGRI 3008	Pests of Horticultural Plants	2	2	3	Required
AGRI 3010	Fruit & Vegetable Production	2	2	3	Required
AGRI 3012	Plant Nutrition	2	2	3	Required
AGRI 3014	Practical Training II	0	4	5	Required
-	Elective			3	Elective
-	Elective			3	Elective
	TOTAL CREDIT			**30**	

Semester-7

Code	Course Title	T	P	ECTS	Status
AGRI 4001	Graduation Project I	0	4	4	Required
AGRI 4003	Fertilizers & Fertilization	2	2	4	Required
AGRI 4005	Principles of Pesticides	3	1	4	Required
AGRI 4007	Integrated Pest Management	3	1	4	Required
AGRI 4009	Principles of Plant Breeding	2	2	4	Required
-	Elective			3	Elective
-	Elective			3	Elective
-	Social Elective			5	Social Elective
	TOTAL CREDIT			**31**	

Semester-8

Code	Course Title	T	P	ECTS	Status
AGRI 4002	Graduation Project II	0	4	4	Required
AGRI 4004	Diseases of Field Crops	2	2	4	Required
AGRI 4006	Pests of Field Crops	2	2	4	Required
AGRI 4008	Industrial Crops	2	2	4	Required
AGRI 4010	Design in Engineering	0	4	4	Required
-	Elective			3	Elective
-	Elective			3	Elective
-	Social Elective			5	Social Elective
	TOTAL CREDIT			**31**	

TOTAL ECTS	242	
COMPULSORY ECTS	208	85%
ELECTIVE ECTS	34	15%

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Fall Semesters						Spring Semesters					
Code	**Course Title**	**T**	**P**	**ECTS**	**Status**	**Code**	**Course Title**	**T**	**P**	**ECTS**	**Status**
AGRI 3013	Plant Tissue Culture	2	1	3	Elective	AGRI 3016	Pasture & Forage Crops	2	1	3	Elective
AGRI 3015	Introduction to Biomaterials	2	0	3	Elective	AGRI 3018	Seed Production Techniques	2	0	3	Elective
AGRI 3017	Food Science & Technology	2	0	3	Elective	AGRI 3020	Instrumental Analysis of Agricultural Products and By-produ	2	1	3	Elective
AGRI 3019	Molecular Techniques in Agricultural Sciences	2	0	3	Elective	AGRI 3022	Soilless Culture	3	0	3	Elective
					Elective						Elective
AGRI 4011	Functional Foods	3	0	3	Elective	AGRI 4012	Agricultural Best Management Practices	2	2	3	Elective
AGRI 4013	Omics Techniques in Agricultural Research	2	2	3	Elective	AGRI 4014	Precision Agriculture	3	0	3	Elective
AGRI 4015	Algal Biotechnology for Agriculture	2	0	3	Elective	AGRI 4016	Data Science in Agricultural Research	2	1	3	Elective
AGRI 4017	Good Agricultural Practices	2	0	3	Elective	AGRI 4018	Postharvest Physiology, Management & Technology	2	1	3	Elective
AGRI 4019	Fundamentals of Digital Agriculture	3	0	3	Elective	AGRI 4020	Sensors & IoT in Agriculture	3	0	3	Elective

Social Electives						*Social Electives*					
GENE 2015	Scientific Writing & Presentation Skills	2	0	5	Elective	UNIV 3001	Techno Entrepreneurship	2	2	5	Elective
ITBD 3204	Food & Product Marketing	3	0	5	Elective	ECOD 2006	Agricultural & Food Policy	3	0	5	Elective
		TOTAL CREDIT	**37**					**TOTAL CREDIT**	**37**		