

# DESIGN OF IRRIGATION MACHINERY

1	Course Title:	DESIGN OF IRRIGATION MACHINERY
2	Course Code:	BSM6014
3	Type of Course:	Optional
4	Level of Course:	Third Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. ALİ VARDAR
15	Course Lecturers:	YOK
16	Contact information of the Course Coordinator:	e-posta: dravardar@uludag.edu.tr Telefon: 0 224 2941605 Adres: Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA
17	Website:	
18	Objective of the Course:	The aim of the course is to enable the student to design irrigation machines.
19	Contribution of the Course to Professional Development:	It contributes to the identification and design of irrigation machines / systems to be applied in agricultural areas.
20	Learning Outcomes:	
	1	To understand the importance of irrigation concept;
	2	Understanding the importance of the concept of machine design;
	3	To be able to design irrigation machines
	4	
	5	
	6	
	7	
	8	
	9	
	10	
21	Course Content:	
	<b>Course Content:</b>	
Week	Theoretical	Practice
1	Physical properties of water, flow types and properties	Physical properties of water, flow types and properties
2	Equivalent pipe length and total losses	Equivalent pipe length and total losses
3	Planning the pipeline	Planning the pipeline
4	Working principles and classification of centrifugal pumps	Centrifugal pump application



<b>Contribution Level:</b>	<b>1 very low</b>	<b>2 low</b>	<b>3 Medium</b>	<b>4 High</b>	<b>5 Very High</b>
----------------------------	-------------------	--------------	-----------------	---------------	--------------------