SPECIAL CASTING METHODS									
1	Course Title:	SPECIA	L CASTING METHODS						
2	Course Code:	MAK6236							
3	Type of Course:	Optional							
4	Level of Course:	Third Cycle							
5	Year of Study:	2							
6	Semester:	4							
7	ECTS Credits Allocated:	6.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	none							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Doç. Dr. MUSTAFA SAFA YILMAZ							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	msafayilmaz@uludag.edu.tr 0224 2942637 U.U. Müh. Fak. Makine Müh. Böl. BURSA							
17	Website:								
18	Objective of the Course:	To introduce special casting methods. To comprehend the place and importance of special casting methods in industrial applications.							
19	Contribution of the Course to Professional Development:	Production techniques used in rare but valuable works in the sector will be learned.							
20	Learning Outcomes:								
		1	The student will have the knowledge to choose a particular casting method for a certain number of products and to produce the product.						
		2	Have basic professional terminology and knowledge that Metallurgical and Materials Engineers will need in business life.						
		3	Gains the ability to reveal the features that will be needed in the production and use of materials.						
		4							
		5							
		6							
		7							
		8							
		9							
04	Course Content	10							
21									
W/ook	Theoretical		purse Content: Practice						
vvеек 1	plaster mold casting								
2	Investment casting (Shell and grade methods)	d							
3	Ceramic Mold casting								

4	Shell mold casting																
5	Casting with vacuum (V) process						T										
6	Full mold casting (Disappearing foam technique)																
7	Metal (permanent) mold casting																
8	Die Casting																
9	Low pressure casting, Compression casting																
10	Centrifugal casting																
11	vacuum filled casting																
12	Oriented and single crystal part castings																
13	The use of 3D printers in the foundry industry						/										
14	Other casting methods																
22	Textbooks, References and/or Other Materials:						N F	N.G. Kınıkoğlu Özel Döküm Yöntemleri ve Metalurjisi Ders Notları, YTÜ, 2000. Peter Beeley, Foundry Technology, Butterworth- Heinemann, 2001 ASM, Metal Handbook, 9. baskı, Casting, 1991.									
23	Assesi	nent															
TERMI	I LEARNING ACTIVITIES NUMBE					V	WEIGHT										
Midterr	n Exam					•	1	4	0.00	0							
Activit	Activites						Number				Dura	Duration (hour)			Total Work Load (hour)		
Theore	oretical 2					1	100.00			3.00			42.00				
	iticals/Labs							0			0.00			0.00			
Sere	අඥාන්ත්ර ක්ෂේත කර්ග කර්ග කර්ග කර්ග කර්ග කර්ග කර්ග කර්ග								14			9.00			126.00		
Homev	, , ,								0			0.00			0.00		
Forter	zts							1	100.00			0.00			0.00		
Field S	Studies								0			0.00			0.00		
Økidtære	en exams							1			3.00			3.00			
Others	S								0			0.00	0.00				
Final E	Exams							1			3.00			3.00			
Total V	Work Load														177.00		
Total w	vork loa	d/ 30 h	r													5.80	
ECTS	Credit of the Course													6.00			
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																	
	PG	1 PQ	2 PQ3	PQ4	PQ5	PQ6	PQ7	PQ	8 P	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	0	0	5	4	0	0	0	2	0		3	0	0	0	0	0	0
ÖK2	0	0	5	4	0	0	0	2	0)	3	0	0	0	0	0	0
ÖK3	0	0	5	4	0	0	0	2	0)	3	0	0	0	0	0	0
			LO: L	earr	ning C)bje	ctives	6	PQ): P	rogra	m Qu	alifica	tions	i	1	<u>I</u>

Contrib ution	1 very low	2 low	3 Medium	4 High	5 Very High
Level:					