DYNAMIC									
1	Course Title:	DYNAMI	IC						
2	Course Code:	INS2014							
3	Type of Course:	Compulsory							
4	Level of Course:	First Cycle							
5	Year of Study:	2							
6	Semester:	4							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:								
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Prof. Dr. M.ÖZGÜR YAYLI							
15	Course Lecturers:	Prof. Dr. M. Özgür YAYLI							
16	Contact information of the Course Coordinator:								
17	Website:	http://insaat.uludag.edu.tr							
18	Objective of the Course: Contribution of the Course to	 Solving Initial and Boundary Value Problems in Engineering Applications Understanding of basic concepts in the theory of functions of complex variables Establishing mathematical models of problems encountered in 							
13	Professional Development:	engineering Obtaining general information about complex variables and applying them Series and its applications Differential equations and Transformation techniques							
20	Learning Outcomes:								
		1	Be able to describe orally and in writing the problems in dynamic and kinematics						
		2	Be able to model the fundamental principles of applied kinematics for particles and rigid bodies in engineering dynamics by using simple drawing techniques and mod- computer technology.						
		3	Be able to implement an integrated understanding of engineering dynamics principles through applications involving problem solving and through creation of design solutions to engineering scenarios.						
		4	Be able to model the dynamics problems by using the simple drawing techniques and modern computer tools and also be able to drive the mathematical formulations of dynamics problems.						
		5	Be able to analyze the dynamics of particles and rigid bodies with applications.						
		6							
		7							
		8							
		9							
		10							

21	Course Content:									
	Course Content:									
Week	Theoretical	F	Practice							
1	Kinematics of Particles									
2	Kinematics of Particles									
3	Kinetics of Particles: Newton's Second	d Law								
4	Kinetics of Particles: Newton's Second	d Law								
5	Kinetics of Particles: Energy and Mom Methods	entum								
6	Kinetics of Particles: Energy and Mom Methods	entum								
7	Systems of Particles									
8	Systems of Particles									
9	Kinematics of Rigid Bodies									
10	Kinematics of Rigid Bodies									
11	Plane Motion of Rigid Bodies: Forces a Accelerations	and								
12	Plane Motion of Rigid Bodies: Forces a Accelerations	and								
13	Plane Motion of Rigid Bodies: Energy Momentum Methods	and								
14	Plane Motion of Rigid Bodies: Energy	and								
Activit	res		Number	Duration (hour)	Total Work Load (hour)					
Theore	ical	TF E	าน _{ุ้น} 2007. Engineering Mechanics-	3.00 Divinamics 11th SI	42.00 Ed Hibbeler					
Practic	als/Labs		0	0.00	0.00					
Self stu	dy and preperation	ļ.	Tigneening wechanics- Rraige L. G. and Palr	4. wenam J.						
Homew	vorks		6	6.00						
Project	Assesment		2	12.00	24.00					
Field S			0	0.00	0.00					
Midtern	m exams	₹	1	3.00	3.00					
Others			0	0.00	0.00					
Panial E	xams) (00	3.00	3.00					
Total W	Vork Load				120.00					
Fioral E	xamoload/30 hr	1 6	60.00		4.00					
ECTS (Credit of the Course				4.00					
Contribution of Term (Year) Learning Activities to Success Grade			10.00							
Contrib	oution of Final Exam to Success Grade	6	60.00							
Total		1	100.00							
Measu Course	•		Understanding the principles of applied mathematics used in the course							
24	ECTS / WORK LOAD TABLE									

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	0	5	0	0	0	0	3	2	0	0	0	2	0	0	0	0
ÖK2	5	3	0	4	0	4	3	0	0	0	0	0	0	0	0	0
ÖK3	5	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	5	0	0	0	5	4	0	0	0	0	0	3	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:				2	2 low			3 Medium		4 High		5 Very High				