AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Model Making Techniques						
Course Code	BSM110		Couse Level	First Cycle (Bachelor's Degree)			
ECTS Credit	2	Workload	54 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Objective of this course, teaching the basic concepts for the construction of models and model, technical drawing applications in models , basic concepts of modelling, concepts of scale and sizing on modelling, materials, and materials used in the construction strength of model concepts, the models and the grouping of loads can, stable and movable them to the models, and the forces that may ways to control the moving information about the models and structures, used engines, grouping, and with the construction of model synchronization.						
Course Content	The place of models in physical design and the importance of modeling, Basic notions about models and modeling, Model types according to their issues, Materials used in modeling , Modeling process						
Work Placement	N/A						
Planned Learning Activities and Teaching Methods		Explanation (Presentation), Demonstration, Discussion, Project Based Study, Individual Study, Problem Solving					
Name of Lecturer(s)							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	History of Aviation, translate, 1986. Hürriyet Matbaacılık, Istanbul. 2. Course Note of Material information, Ersel YILMAZ 2007.
2	Croach, T., 2004."A history of aviation from kites to space age", New York, WW. Norton &Co. ISBN 0-393-32620-9
3	Needham, J., Ronan, C., A., 1994."the shorter science and civilization in china: an abridgement, of Joseph Needham's original text, Cambridge university pres, p. 285, ISBN 0-521-32955-7
4	The prehistory of powered flight, US Centennial of Flight Commission. 2004.

Week	Weekly Detailed Course Contents	
1	Theoretical	Modelling, description, date,
2	Theoretical	The first model designs and classifieds
3	Theoretical	Air - sea - land vehicles and their feature
4	Theoretical	Technical drawing applications of modelling
5	Theoretical	The methods and importance of sizing and scaling, monitoring and implementation of the project
6	Theoretical	Materials to be used in making model , and features.
7	Theoretical	Materials to be used in making model , and features, strength properties, project applications
8	Theoretical	Modeling process and project
9	Intermediate Exam	Mid term exam
10	Theoretical	The forces acting on model and solution methods, project implementation
11	Theoretical	Flying the models used in the motors, control units, properties and classification, the project applications
12	Theoretical	Flying to work with the models, management and simulation technique, the project applications
13	Theoretical	Evaluation of projects
14	Theoretical	General assessment and evaluation of projects
15	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0.5	1	21
Lecture - Practice	14	0.5	1	21
Midterm Examination	1	5	1	6

Final Examination	1	5	1	6
		Total Workload (Hours)		54
		[Total Workload (Hours) / 25*] = **ECTS**		2

25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To understand the importance and benefits of model-making.
2	Appropriate scale and quality of a project using the techniques of modeling model making.
3	Making a research on different materials to use in making model.
4	Model making use of the basic tools and supplies.
5	Model-making.

Programme Outcomes *(Agricultural Biotechnology)*

1	To be able to develop skills in identifying, modeling and solving problems in agricultural biotechnology
2	To be able to synthesize life and engineering sciences for the effective resource planning of agricultural biotechnology applications
3	To be able to interpret about living organisms structure, metabolic and physiological processes in order to propose biotechnological solutions to the agricultural problems
4	To be able to analyze genomic, metabolomic and proteomic information via bioinformatic tools.
5	To have the ability to analyze collected data and interpret the results.
6	To have the ability of individual working ability and to make independent decisions, to work in inter-disciplinary and interdisciplinary teamwork, to communicate by expressing their ideas orally and in writing, clearly and concisely
7	To have the awareness of professional liabilities and ethics
8	To be able to follow current national and international problems

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L1	L2	L3	L4	L5
P1	1			1	
P2	1	1	1	1	1
P3	1	1	1	1	1
P5	1	1	1	1	1
P6	1	1	1	1	1
P7	1	1	1	1	1
P8	1	1	1	1	1