



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Model Making Techniques							
Course Code		BSM110		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	2	Workload	50 (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	60

### Recommended or Required Reading

1	History of Aviation, translate, 1986. Hürriyet Matbaacılık, İstanbul. 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 (Midterm Exam)
8	Theoretical	Modeling process and project
9	Theoretical	Modeling process and project
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

### 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	3	1	4



Final Examination	1	3	1	4
Total Workload (Hours)				50
[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 (Horticulture)

1	To provide practical learning of production and cultivation techniques in the field of horticulture, to introduce the current status of new techniques and to create a perspective based on efficient, economical and quality production techniques for the future
2	To develop the ability to think in the professional field and to gain the ability to produce projects by making innovative approaches
3	To contribute to the development of appropriate breeding strategies in the field of horticulture, especially for sector-based areas, and to provide a perspective for breeding and new variety development in the commercial field
4	To contribute to the possibilities of using technology in the field of horticulture, to create awareness that they can develop activities in the sector in harmony with different disciplines
5	To gain the ability to analyze field work and hypothesis formulation, experiment planning, experiment and research management, data acquisition and evaluation skills related to research topics for the solution of problems encountered in horticultural issues, to shed light on the perspective of their use in public and private sector areas
6	To develop collaboration with different departments in the field of agricultural engineering, to develop the ability to plan research and to work in harmony with different stakeholders in an integrated manner
7	To provide candidates who plan a career in academia, public and private sectors with the skills of research planning, execution and evaluation, report writing, analyzing-understanding-evaluating written reports, and making presentations to sector stakeholders and academia.
8	To gain the ability to create awareness about accessing and developing information and technology within the framework of the principle of lifelong learning
9	To have knowledge about the principles of professional ethics, to gain the ability to make ethical responsibility sustainable throughout professional life
10	To have sufficient knowledge about the quality standards of horticultural crops, evaluation and preservation of products, to have the ability to take initiatives that will create awareness with innovative approaches on these issues
11	To have knowledge about the effects of Agricultural Engineering-Horticulture applications on the environment, human and animal health and sustainable agricultural systems; also to be aware of the legal consequences of engineering solutions to 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	5	5	4	5	5
P5	5	4	4	5	4

