

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Introduction To Coding W	ith Arduino					
Course Code	ETO188	Couse Level	Couse Level		Cycle (Associate's Degree)		
ECTS Credit 2	Workload 50 (Hours)) Theory	2	Practice	0	Laboratory	0
Dbjectives of the Course	In this course, it is aimed to diagram, to write program applications						d flow
Course Content	Basic electronics knowled Algorithm creation, Flow c uploading and debugging open source code concep	liagrams, Microc process of writte	ontrollei en codes	r program introdu	uction, Bas lers, library	ic input and output	coding,
Nork Placement	N/A						
Planned Learning Activities and Teaching Methods		Explanation (I Study, Individ				stration, Discussion	
	Name of Lecturer(s) Ins. Mustafa Tayfun MAVIC			iy, i iobieni ooliv	ing		n, Case

Assessment Methods and Criteria					
Method		Quantity	Percentage (%)		
Midterm Examination		1	40		
Final Examination		1	70		

Recommended or Required Reading

1 Lecture Notes

- 2 Web Pages
- 3 Internet Education Environment.

Week	Weekly Detailed Cours	e Contents			
1	Theoretical	asic Electronics Knowledge			
2	Theoretical	licrocontroller Architecture and Hardware			
3	Theoretical	Designing Algorithms, Flowcharts			
4	Theoretical	Choosing the microcontroller board to be used for the lesson (Arduino Uno)			
5	Theoretical	he microcontroller contains the board (Arduino Uno) coding program is loaded into the computer. Arduino IDE)			
6	Theoretical	ntroduction of Arduino IDE coding program. Basic coding knowledge			
7	Theoretical & Practice	First application in Arduino IDE coding program			
8	Theoretical	Midterm			
9	Theoretical & Practice	Basic input / output codes, operation, application			
10	Theoretical & Practice	Basic control codes, operation, application.			
11	Theoretical & Practice	Button and led applications with Arduino Uno			
12	Theoretical & Practice	Potentiometer applications with Arduino Uno			
13	Theoretical & Practice	7 segment display applications with Arduino Uno			
14	Theoretical & Practice	LCD applications with Arduino Uno			
15	Theoretical & Practice	Keypad applications with Arduino Uno			

Workload Calculation

Activity	Quantity Pre		Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	10	0	1	10
Studio Work	10	0	1	10
Midterm Examination	1	0	1	1



					Course Information Form
Final Examination	1		0	1	1
Total Workload (Hours)					50
		[Total Workload (Hours) / 25*] = ECTS	2
*25 hour workload is accepted as 1 ECTS					

Learn	ning Outcomes
1	The student taking the course should be able to use the knowledge gained.
2	The student taking the course should be able to use the knowledge gained.
3	The student taking the course should be able to use the necessary theoretical knowledge, manual and/or intellectual skills in practice.
4	The student taking the course should be able to use computer software, information-communication technologies, technical and modern professional tools for relevant applications.
5	Be aware of the necessity of lifelong learning and be able to realize it

Programme Outcomes (Fashion Design)

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1	Be able to use the theoretical and practical knowledge related to fashion design
2	Fashion marketing and promotional activities should be carried out in matters related to fashion design
3	Must be able to collect data for research, prepare and present research report, prepare project
4	Designing personal clothing to meet the expectations of the sector and preparing the creations on the computer
5	Should be able to recognize the fabric surfaces, select auxiliary materials, control materials.
6	It should be able to carry out steps of mold preparation, spreading, laying plan preparation.
7	Must be able to use the necessary equipment, equipment and machines for the applications related to fashion design, and make adjustments and maintenance.
8	Must be able to use computerized mold and design programs in the field of fashion design.
9	Must have the ability to manage and organize business by creating the idea of establishing a business in the field.
10	Can create a model she designs in her mind by applying the technical drawings of the clothes and fashion formal training.
11	Basic sewing techniques should be able to realize the production stages of women's, men's and children's wear.

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	3	3			3
P6			3		
P7		3		3	
P10	3				3