VISUAL PROGRAMMING

1	Course Title:	VISUAL PROGRAMMING
2	Course Code:	EHAZ105
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	2
11	Prerequisites:	none
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr. Gör. Dr. PELİN DEMİR
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.
16	Contact information of the Course Coordinator:	Öğr. Gör Dr. Pelin Demir Bursa Uludağ Üniversitesi Teknik Bilimler MYO Hibrid ve Elektrikli Taşıtlar Prog. Görükle / Bursa pelinsule@uludag.edu.tr
17	Website:	
18	Objective of the Course:	Visual programming, creating a computer program using pictorial elements
19	Contribution of the Course to Professional Development:	Introduction to programming and the concept of an algorithm, the concept of a flow chart and the creation of flow charts for different problems, the definition of pseudo-code and comparison of flow chart outputs, Providing information about Visual Studio (C-based) and making applications for this program, Examples of using arithmetic, assignment, relational, logical, bit-based, condition-dependent operators, Increasing and decreasing, and using special operators, and showing various applications made with these operators, Applications for loops and various types of loops, Various applications for one-dimensional arrays and one-dimensional arrays, Matrix structure and various applications for matrices, Pointer concept and applications, Strings and applications, Geometric drawings with graphic library applications, Arithmetic functions and applications, various applications related to the solution of real problems.
20	Learning Outcomes:	
	1	Introduction to programming and designing program flow
	2	Working with control statements, array operations and subprograms
	3	Running Visual Studio Express
	4	Defining the Visual Studio Express Solution Window, Properties window, and subobjects
	5	Defining Toolbox menu items
	6	Examples with the Visual studio program
	7	Creating a Windows Form Application

	8	Button Tag Checkbox Text Box Radio Button List Box Hint Notification Icon Numerical Increment Reduction Date and Time . Rich Text Box Picture Box applications
	9	Button Tag Checkbox Text Box Radio Button List Box Hint Notification Icon Numerical Increment Reduction Date and Time . Rich Text Box Picture Box applications
	10	Button Tag Checkbox Text Box Radio Button List Box Date and Time . Rich Text Box

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	2	14.00	28.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	30.00	30.00
Others	0	0.00	0.00
Final Exams	1	4.00	4.00
Total Work Load			118.00
Total work load/ 30 hr			3.93
ECTS Credit of the Course			4.00

21	Course Content:	
Week	**Theoretical**	**Practice**
1	Concept charts for different problems, definition of pseudo-code and comparison of flow chart	Providing information about the Visual studio program files (C) and comparing the laboratory applications
4	Examples of using arithmetic, assignment, relational, logical, bit-based, conditional operators	laboratory applications
5	Increase and decrease and use of special operators and demonstration of various applications made with these operators	laboratory applications
6	Loops and applications of various loop types	laboratory applications
7	One-dimensional arrays and various applications of one-dimensional arrays	laboratory applications
8	Midterm Exam	
9	Matrix structure and various applications related to matrices	laboratory applications
10	Pointer concept and applications	laboratory applications

11	Strings and their applications	laboratory applications
12	Arithmetic functions and their applications	laboratory applications
13	Various applications for solving real problems.	laboratory applications
14	Applications with Visual studio	laboratory applications

22	Textbooks, References and/or Other Materials:	THEORY AND PROBLEMS of progamming with visual basic BYRON S. GOTTFRIED, Ph.D. C Applications with Visual Studio,Basic Applications Advanced Applications, Professional Applications, 2019, NOBEL ACADEMIC PUBLISHING EDUCATION CONSULTING TRADE. ltd. Şti. Dr. Emrah Aydemir

23 Assesment

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Measurement and evaluation is carried out according to the priciples of Bursa uludag University Associate and Undergraduate Education Regulation.

24 ECTS / WORK LOAD TABLE

25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS

	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	2	2	3	3	4	4	3	3	2	0	0	0	0	0	0	0
ÖK2	2	3	2	3	3	2	3	2	2	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications					
Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**