

## Universitas Negeri Surabaya Faculty of Engineering, Bachelor of Information Systems Study Program

Document Code

UNESA	A																	
	SEMESTER LEARNING PLAN																	
Courses		CODE		Cou	Course Family			Credit Weight			SEMI	ESTER	Compilation Date					
Visual Pr	rogra	mming		572010307	1							T=3 P=0 ECTS=4.77		=4.77		5	July 17, 2024	
AUTHOR	RIZAT	TION		SP Develop	per			<u> </u>		Co	ourse	e Clus	ster C	oordir	ator	Stud	y Progr dinator	am
															l Kadek Dwi Nuryana, S.T., M.Kom.		Nuryana, S.T., Kom.	
Learning model	J	Case Studies		•						•								
Program Learning		PLO study prog	gram th	nat is charg	jed t	o th	е со	urse										
Outcom		Program Object	tives (I	PO)														
(PLO)		PO - 1 Ability to create simple database applications																
		PLO-PO Matrix																
					_													
				P.O														
				PO-1														
		PO Matrix at the end of each learning stage (Sub-PO)																
				P.O								\\/o/	ale.					
				P.O	1	2	3	4 5	6	7	8	Wee	10	11	12	13	14	15 16
			PO	1	1		3	4 5	0	· ·	•	9	10	11	12	13	14	15 10
				-1		<u> </u>												
Short Course Descript	tion	This course tead validation, integra	thes the	e basics of v d compilation	/isua ı alor	I pro	gram th sin	ming ind	luding	visua s in a	al prog	ogram Iramm	ming ing er	conce	ots, ol nent.	ojects,	events,	the basics of
Reference	ces	Main :																
		<ol><li>Benyami</li><li>Karli Wat</li></ol>	n Perkir tson, dk	ck. 2012. Starting Out with Visual C# , Third Edition. Boston: Pearson . ins, Jacob V H, Jon D.Reid. 2015. Beginning Visual C# Programming. John Wiley: Canada . kk. 2012. Beginning Visual C#, Programming. John Wiley: Canada . vey Deital. 2012. Visual C#, How To Program, Fifth Edition. Pearson: Boston .														
		Supporters:																
Supporting lecturer Dr. F		Dr. Ricky Eka Pu	tra, S.K	.Kom., M.Kom.														
Week-		inal abilities of ach learning age		Evaluation				Help Learning, Learning methods, Student Assignments, [Estimated time]				Learning materials [ References		Assessment Weight (%)				
	(Su	b-PO)	I	Indicator		Cri	iteria	& Form		Offline ( Online ( online ) offline )			]					
(1)		(2)		(3)			(4	4)		(5)			(	6)		(	(7)	(8)

1	1.Students are able to understand the objectives of the course and apply the basics of visual programming with the Visual Studio.NET IDE 2.Students understand the concept of Visual Programming with C#	1.Explaining Learning Contracts and RPS 2.Explains the basics of programming, hardware, software and storage 3.Explain GUI (Graphical User Interface) and Objects 4.Explaining the Visual Studio.NET IDE. 5.Implemented project creation in Visual Studio.NET 6.Implements saving the project, reopening the project, and closing the project	Scientific approach, lectures, questions and answers, discussions and problem- based learning		15%
2	1.Students are able to understand the objectives of the course and apply the basics of visual programming with the Visual Studio.NET IDE 2.Students understand the concept of Visual Programming with C#	1.Explaining Learning Contracts and RPS 2.Explains the basics of programming, hardware, software and storage 3.Explain GUI (Graphical User Interface) and Objects 4.Explaining the Visual Studio.NET IDE. 5.Implemented project creation in Visual Studio.NET 6.Implements saving the project, reopening the project, and closing the project	Scientific approach, lectures, questions and answers, discussions and problem- based learning		15%

3	1.Students Apply	1.Implement		Scientific		10%
	visual	reading input		approach		
	programming	data from		, lectures,		
	for data	textbox		questions and		
	processing  2.Students are	2.Design input		answers,		
	able to apply	and output displays with		discussions		
	visual	GUI components		and		
	programming	3.Apply		problem- based		
	for branching	programming for		learning		
	(decision	data processing				
	making)	4.Implement display and set				
		the display				
		(format) of				
		processing				
		results				
		5.Implementing the use of Math				
		Class				
		6.Implement Error				
		Handling				
		7.Implementing				
		branching in C# 8.Implement GUI				
		components for				
		branching				
		9.Implement input				
		validation				
4	1.Students Apply	1.Implement		Scientific		10%
	visual programming	reading input data from		approach , lectures,		
	for data	textbox		questions		
	processing	2.Design input		and		
	2.Students are	and output		answers, discussions		
	able to apply	displays with		and		
	visual	GUI components 3.Apply		problem-		
	programming for branching	programming for		based		
	(decision	data processing		learning		
	making)	4.Implement				
		display and set				
		the display (format) of				
		processing				
		results				
		5.Implementing				
		the use of Math				
		Class 6.Implement Error				
		Handling				
		7.Implementing				
		branching in C#				
		8.Implement GUI				
		components for branching				
		pranching	1		l	
		9.Implement input validation				

5 1.Students are able to apply visual programming for loops, file operations and random numbers 2.Students are able to apply modular methods  1.Explain the concept of repetition 2.Implement GUI components with loops 3.Implement File operations 4.Implement the dialog component 5.Apply random numbers 6.Implement load Event 7.Explain the method 8.Explain passing parameters by value and by reference 9.Explain the return value of the method 10.• Implement methods with GUI 11.Describes arrays 12.Describes arrays 12.Describes the array class 1.4.Explain the algorithm on arrays 15.Implementing arrays with GUI display 16.Implementing a multidimensional

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6	1.Students are	1.Explain the	Scientific		7%
	able to apply	concept of	approach		
	visual	repetition	, lectures,		
	programming	2.Implement GUI	questions		
	for loops, file	components	and		
	operations and	with loops	answers,		
	random	3.Implement File	discussions		
	numbers	operations	and		
	2.Students are	4.Implement the	problem-		
	able to apply	dialog	based		
	modular	component	learning		
	methods	5.Apply random			
	metrous	numbers			
		6.Implement load			
		Event			
		7.Explain the			
		method			
		8.Explain passing			
		parameters by			
		value and by			
		reference			
		9.Explain the			
		return value of			
		the method			
		10.• Implement			
		methods with			
		GUI			
		11.Describes			
		arrays			
		12.Describes			
		arrays as			
		method			
		arguments			
		13.Describes the			
		array class			
		14.Explain the			
		algorithm on			
		arrays			
		15.Implementing			
		arrays with GUI			
		display			
		16.Implementing			
		a			
		multidimensional			
		array			
		array			

7	1.Students are able to apply visual programming for loops, file operations and random numbers 2.Students are able to apply modular methods	1.Explain the concept of repetition 2.Implement GUI components with loops 3.Implement File operations 4.Implement the dialog component 5.Apply random numbers 6.Implement load Event 7.Explain the method 8.Explain passing parameters by value and by reference 9.Explain the return value of the method 10.• Implement methods with GUI 11.Describes arrays 12.Describes arrays as method arguments 13.Describes the array class 14.Explain the algorithm on arrays 15.Implementing arrays with GUI display 16.Implementing a multidimensional array		Scientific approach , lectures, questions and answers, discussions and problem-based learning		7%
8	Midterm exam					25%
9						7%
10						7%
11						7%
12						7%
13						0%
14						0%
15	Final exams					25%
16			Form of Assessment : Project Results Assessment / Product Assessment			40%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Project Results Assessment / Product Assessment	40%
		40%

## Notes

- Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study
  Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of
  their study program obtained through the learning process.
- The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program) which
  are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and
  knowledge.
- 3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- Subject Sub-PO (Sub-PO) is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- 5. **Indicators for assessing** abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities or performance of student learning outcomes accompanied by evidence.
- Assessment Criteria are benchmarks used as a measure or measure of learning achievement in assessments based
  on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and
  unbiased. Criteria can be quantitative or qualitative.
- 7. Forms of assessment: test and non-test.
- 8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.