SYLLABUS

	O I EE/ (i	300	
DIVIS	SION: Business and Engineering Technology	REVISED: Fall 2014	
CURF	RICULA IN WHICH COURSE IS TAUGHT:	Programming	
COUF	RSE NUMBER AND TITLE: ITP 236 – C	C# Programming II	
CRED	DIT HOURS: 4 HOURS/WK LEC: 4 HOURS/WI	K LAB: 0 LEC/LAB COMB: 4	
I.	CATALOG DESCRIPTION: Focuses instruction C# for application development. Emphasizes .NET Framework.	on in advanced object-oriented techniques using database connectivity and networking using the	
II.	RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES		
•	Acquire the fundamentals of object-oriented programming and design using C# Gain an understanding of concepts of object oriented language; encapsulation, inheritance and polymorphism Learn the C# programming within the .NET framework		
III.	REQUIRED BACKGROUND: ITP 136 - Visual C# Programming I		
IV.	COURSE CONTENT:		
•	C# language advanced topics Classes and Objects Inheritance and polymorphism Interfaces Arrays and collections File input and output web based programs		
V. TH COUF	HE FOLLOWING GENERAL EDUCATION OBJ	ECTIVES WILL BE ADDRESSED IN THIS	
	X Communication Cultural and Social Understanding Personal Development Scientific Reasoning	 X Critical Thinking X Information Literacy X Quantitative Reasoning 	

VI.	LEARNER OUTCOMES	VII. EVALUATION
Intro	duction to Computers and	
		Lab exercises
		In class assignments
•	Learn the history of computers.	Project Test
•	Understand the difference between low	
	level and high level programming	
	languages.	
•	Understand difference between	
	procedural languages and object-	
	oriented language.	
Unde	rstand the basics of computer hardware	
	ses and objects	
		Lab exercises
•	Understand how to define a class.	In class assignments
•	Understand object-oriented concepts of	Project Test
	classes	
•	Be able to create objects from the classes	
•	Understand method constructs.	
•	Understand how to pass parameters	
•	Understand the concept of data	
	encapsulation	
Inter	aces	
		Lab exercises
•	Be able to describe what an interface is	In class assignments
	and why it is used	Project Test
•	Understand how to implement an interface	
Array	vs and collections	Lab exercises
Allay	and conections	In class assignments
	Understand array basics	Project Test
•	Learn to declare and use one	1 10,000 1000
	dimensional array	
•	Understand the effect of using array	
	elements as parameter to methods	
•	Understand the Collection interfaces	
File i	nput and output	Lab exercises
		In class assignments
•	Understand file input	Project Test
•	understand file extenstions	
•	reading data	
•	saving data	
•	exporting data	
Web based programs		Lab exercises
		In class assignments
•	different systems	Project Test
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- users accessing the web format the programs for web material exporting data