

COMPUTER SCIENCE Program

ISLOs, PSLOs, CSLOs, Mapping, and Assessment Plan

		Year 1		Year 2		Year 3		Year 4		Year 5		Year 6	
		F 2013	S 2014	F 2014	S 2015	F 2015	S 2016	F 2016	S 2017	F 2017	S 2018	F 2018	S 2019
INSTITUTIONAL STUDENT LEARNING OUTCOMES - ISLOs													
ISLO 1	COMMUNICATION												
1A	Read												
1B	Listen												
1C	Write												
1D	Dialogue												
ISLO 2													
ISLO 2	TECHNOLOGY AND INFORMATION COMPETENCY												
2A	Demonstrate Technical Literacy												
2B	Apply Technology												
2C	Access Information												
2D	Evaluate and Examine Information												
ISLO 3													
ISLO 3	CRITICAL AND CREATIVE THINKING												
3A	Inquire												
3B	Analyze												
3C	Problem Solve												
3D	Express												
ISLO 4													
ISLO 4	CITIZENSHIP												
4A	Ethics												
4B	Diversity												
4C	Sustainability/Global Awareness												
4D	Personal Responsibility												
COMPUTER SCIENCE PROGRAM OUTCOMES - PSLOs		Related ISLOs											

PSLO A	Engage in continuous learning as well as research and assess new ideas and information to provide the capabilities for lifelong learning.	1A,1B,1C,1D,2A,2B,2C,2D,3A,3B,3C																		
PSLO B	Read and interpret technical information, as well as listen effectively to, communicate orally with, and write clearly for a wide range of audiences.	1A,1B,1C,1D,2A,2B,2C,2D,3A,3B,3C																		
PSLO C	Analyze a problem and craft an appropriate algorithmic solution.	1A,2A,2B,2C,2D,3A,3B,3C																		
PSLO D	Apply knowledge of computing and mathematics appropriate to the discipline.	1A,2A,2B,2C,2D,3A,3B,3C																		
PSLO E	Interpret data, think critically and apply the scientific method.	1A,2A,2B,2C,2D,3A,3B,3C																		

COMPUTER SCIENCE CONCENTRATION AA or AS degree - same as the PSLOs.	
MANAGEMENT INFORMATION SYSTEMS CONCENTRATION AA or AS degree - same as the PSLOs.	
EMBEDDED SYSTEMS CONCENTRATION CERTIFICATE OF ACHIEVEMENT - same as the PSLOs.	
WEB PROGRAMMING CONCENTRATION CERTIFICATE OF ACHIEVEMENT - same as the PSLOs.	

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COMPUTER SCIENCE COURSE OUTCOMES - CSLOs		Related PSLO																		
	CSCI 10 - Introduction to Computing		C - Completed, P- Planned																	
CSLO 1	Describe the software development life-cycle.	B																		
CSLO 2	Describe the principles of structured programming and be able to describe, design, implement, and test structured programs using currently accepted methodology.	C																		
CSLO 3	Explain what an algorithm is and its importance in computer programming.	B,E																		
CSLO 4	Explain moral and ethical issues in computer science.	B																		
	CSCI 12 - Introduction to Object-Oriented Programming																			

CSLO 4	Create headings and cells in a table, use cells that span multiple rows/columns, define row/column groups, and add a table summary. Understand the difference between formatting a table using attributes vs. using CSS styles, collapse table borders, and create a multi-column layout.	B,C													
CSLO 5	Create form elements including field sets, legends, input boxes, labels, selection lists, radio buttons, text area boxes, check boxes, spinners, sliders, and form buttons. Apply styles to web forms, validate form data, and understand how web forms interact with web servers.	B,E													
CSLO 6	Explore audio/video file formats and embed an audio/video clip using a variety of techniques. Understand how to incorporate Flash video (as well as YouTube video) and embed a Java applet using a variety of techniques.	B,E													
CSCI 63 - Web Programming II (ARCHIVED)			C - Completed, P- Planned												
CSLO 1	Create text and box shadows, work with filters, rotate an object using CSS3, and use linear gradients. Apply a border image, set the opacity, and apply print styles. Define the visual viewport, create a media query, and apply styles for mobile devices.	B,D													
CSLO 2	Understand the rules for creating valid XHTML documents and explore the relationship between HTML5 and XHTML. Apply a DTD to an XHTML document and test/validate that document under the strict DTD.	B,E													
CSLO 3	Create a script element, write text to a web page using JavaScript, understand and use basic JavaScript syntax, and work with various data types and variables. Create and call a JavaScript function, access an external JavaScript file, and use basic debugging techniques and tools.	B,C													
CSLO 4	Create and use event handlers, extract information from Date objects, and work with arithmetic operators. Control how JavaScript works with numeric values, explore conditional, comparison, and logical operators, and run time-delayed commands.	B,C													
CSLO 5	Create an array, populate and reference array elements, and work with array methods. Use various types of loops to repeat blocks of code, loop through the contents of an array, and work with ECMAScript5 array methods. Create conditional statements, use conditional statements with arrays and loops to create a table, and understand how to interrupt loops.	D,E													
CSLO 6	Understand the document object model (DOM), reference document objects using a variety of techniques, and use an event handler as an object property. Change the inline style of a document object, use a CSS selector in an object reference, and loop through an object collection.	B,E													
CSCI 66 - Object-Oriented Programming Using C++															

CSLO 4														
		Related PSLO												
CSLO#	COURSE NUMBER: COURSE NAME													