

<b>Module code</b>	SS-2201		
<b>Module Title</b>	Internet Programming and Development		
<b>Degree/Diploma</b>	Bachelor of Science (Computer Science)		
<b>Type of Module</b>	Major Core		
<b>Modular Credits</b>	4	<b>Total student Workload</b>	10 hours/week
		<b>Contact hours</b>	4 hours/week
<b>Prerequisite</b>	None		
<b>Anti-requisite</b>	SS-3402 World Wide Web and Applications BB-4314 Practical Web Development		
<b>Aims</b>			
In this module, student can list the non-technical issues in the design of websites and apply technical knowledge and skill to implement the design.			
<b>Learning Outcomes</b>			
<i>On successful completion of this module, a student will be expected to be able to:</i>			
Lower order:	20%	- explain the protocols and standards used by the Web	
Middle order:	60%	- design user-friendly websites	
Higher order:	20%	- implement client-side modules to make interactive web applications - implement server-side modules to manage application data - harden web applications against common vulnerabilities	
<b>Module Contents</b>			
- Protocols and standards: URI, HTTP, HTTPS, SSL, MIME, cookie; Markup and formatting languages: HTML, XML, CSS; Design: aesthetics, navigation, security; Accessibility: for users with disability, devices with small screen; Contents: text, graphics, multimedia, logical versus physical markups - Client-side programming: document object model, dynamic contents and attributes , asynchronous access, filtration and validation of form data; Server-side programming: reading and pre-populating forms, reading and setting cookies, database access, session handling. -			
<b>Assessment</b>	Formative assessment	Interactive Quizzes and Feedback	
	Summative assessment	Examination: 50% Coursework: 50% - 2 class tests (20%) - 1 written assignment (15%) - 1 laboratory exercise (15%)	