

សាកលវិទ្យាល័យភូមិន្ទនីតិសាស្ត្រ និងវិទ្យាសាស្ត្រសេដ្ឋកិច្ច
កម្មវិធីមុខវិជ្ជាលម្អិត (Course Syllabus)
WEB PROGRAMMING
INF223

មុខវិជ្ជា : Web-Programming (INF223)

ស្រាវជ្រាវ : នាង មាន

បង្រៀនសម័យ: ២

១-ការពិពណ៌នាអំពីមុខវិជ្ជា (Course Description)

សេចក្តីផ្តើមអំពីភាសា PHP ដែលមានរួមទាំងកម្មវិធីវិបមូលដ្ឋាន ការរចនា design, ការបង្កើតបណ្តុំទិន្នន័យ arrays, strings, កន្សោមធម្មតា regular expressions, file input/output, e-mail អ៊ីម៉ែល និងចំណុចទាក់ទងមូលដ្ឋានទិន្នន័យ database interfaces, ស្រ្តីម stream និងកម្មវិធីបណ្តាញ network programming, ការកែតម្រូវកំហុស debugging, និងសន្តិសុខ security ។

២- គោលបំណងនៃមុខវិជ្ជា (Course Objectives)

គោលបំណងសំខាន់នៃការសិក្សាមុខវិជ្ជានេះគឺ៖

- Design and write PHP programs
- Demonstrate proper basic PHP syntax, structure and coding techniques
- Use variables, constants, expressions and operators
- Comment PHP code
- Create and use Arrays
- Use String, Numbers, built-in functions & global variables
- Use XHTML forms with PHP
- Use PHP to send email
- Upload files dynamically
- Use session and cookies
- Setup a MySQL database
- Set up a data connection using PHP
- Search the database and display query results
- Insert, Update and Delete records

៣- មាតិកាមុខវិជ្ជា (Course Outline)

សប្តាហ៍	ចំណងជើងមេរៀន	ខ្លឹមសារមេរៀន	រយៈពេល
	ជំពូកទី១: INTRODUCTION		
1	Introduction: - Course requirements grading Syllabus	- Course requirements & grading Syllabus - Internet, WWW Overview • Web Introduction/Review	2 ^h 30

	- Internet, WWW Overview	<ul style="list-style-type: none"> Using FTP and directory hierarchy FTP tutorial 	
	ជំពូកទី២: SETTING UP A DEVELOPMENT SERVER & WEB DESIGN TOOLS		
2	What is a Web Application Server?	<ul style="list-style-type: none"> Installing a WAMP/XAMPP on Windows Configuration with PHP Installation Web Design Tools 	2 ^h 30
	ជំពូកទី៣: PROGRAMMING WITH PHP		
3	Introduction to PHP	<ul style="list-style-type: none"> Incorporating PHP Within HTML The Structure of PHP <ul style="list-style-type: none"> Using Comments Basic Syntax 	2 ^h 30
4	VARIABLES, OPERATORS, AND EXPRESSIONS	<ul style="list-style-type: none"> Variables, Data types Constants Operators(String, Increment / Decrement, Comparison, Logical and Array) Expression 	2 ^h 30
5	VARIABLES, OPERATORS, AND EXPRESSIONS	<ul style="list-style-type: none"> Operators continued Expression 	2 ^h 30
6	CONTROL STATEMENTS	<ul style="list-style-type: none"> True and False The <i>if</i> Statement The <i>switch</i> Statement 	
7	CONTROL STATEMENTS	<p>Control Statements: continued</p> <ul style="list-style-type: none"> Loops <ul style="list-style-type: none"> The <i>while</i> Statement <ul style="list-style-type: none"> The <i>break</i> Statement The <i>continue</i> Statement The <i>do...while</i> Statement The <i>for</i> Statement The <i>foreach</i> Statement <ul style="list-style-type: none"> <i>exit, die, and return</i> Statement 	2 ^h 30
8	FUNCTIONS	<ul style="list-style-type: none"> Declaring a Function The <i>return</i> Statement Scope and the global Statement Arguments Recursion Dynamic Function Calls 	2 ^h 30
9	FUNCTIONS	<p>Functions continued:</p> <ul style="list-style-type: none"> Create Own functions 	2 ^h 30
10	ប្រឡងពាក់កណ្តាលឆមាស		2 ^h 30
11	ARRAYS	<ul style="list-style-type: none"> Single-Dimensional Arrays Indexing Arrays Initializing Arrays Multidimensional Arrays Casting Arrays Referencing Arrays inside Strings 	2 ^h 30
12	PHP and Forms	<p>Forms, Form Elements</p> <p>\$_POST, \$_GET</p>	

		PHP Strings	
13	PHP and the Web	Includes, Email, Redirects Sticky forms Functions	2 ^h 30
14	Cookies & Sessions	Cookies, Sessions Verify all students can access database on hosting service, PHPMyAdmin Introduction	2 ^h 30
	ជំពូកទី៤: PHP DATABASE		
15	Introduction to MySQL	- Database Theory - Relationships - MySQL Basic	2 ^h 30
16	PHP MySQL: Connection, Create DB/Table, Select Insert, Update & Delete	- Connection String, - Create a Database - Create Tables (designing tables) - SELECT, WHERE, ORDER BY - Adding, Editing, Deleting Records(INSERT, UPDATE, DELETE), modifying table structure	2 ^h 30
17	PHP DATABASE ODBC	- Connecting to an ODBC - Retrieving Records - Retrieving Fields from a Record - Closing an ODBC Connection - PHP with MS-Access	2 ^h 30
18	ជំពូកទី៥: FILE MANAGEMENT AND REFERENCE FUNCTIONS	- Outputting documents (xls, doc, pdf) - File uploading - File Handling - Error Handling - Referencing Functions	2 ^h 30
Total			45^h00
	Final Project		

៤- ការវាយតម្លៃការសិក្សា (Assessment)

លរ	បរិយាយ	ពិន្ទុ
1	វត្តមាន	10
2	វិន័យ	10
3	កិច្ចការស្រាវជ្រាវ	15
4	ប្រឡងពាក់កណ្តាលឆមាស	25
5	ប្រឡងឆមាស	40
	សរុប	100

៥- ឯកសារយោង (References)

- PHP for the Web: Visual Quickstart Guide 4th. ISBN 978-0321733450, Larry Ullman
- Learning PHP, MySQL, and JavaScript, ISBN 978-0596157135, Robin Nixon.
- MySQL and PHP Database Applications, ISBN 0-7645-3537-4, M&T Books
- MySQL®/PHP Database Applications, Second Edition ISBN: 0-7645-4963-4, Wiley Publishing, Inc. Brad Bulger, Jay Greenspan, and David Wall

ROYAL UNIVERSITY OF LAW AND ECONOMICS
 Course Syllabus
WEB PROGRAMMING
INF223

Course : Web-Programming (INF223)
Lecturer : Mr. NEANG HON
Semester : II

2- Course Description

Introduction to PHP including the design of web-based applications, arrays, strings, regular expressions, file input/output, e-mail and database interfaces, stream and network programming, debugging, and security.

3- Course Objectives

- Design and write PHP programs
- Demonstrate proper basic PHP syntax, structure and coding techniques
- Use variables, constants, expressions and operators
- Comment PHP code
- Create and use Arrays
- Use String, Numbers, built-in functions & global variables
- Use XHTML forms with PHP
- Use PHP to send email
- Upload files dynamically
- Use session and cookies
- Setup a MySQL database
- Set up a data connection using PHP
- Search the database and display query results
- Insert, Update and Delete records

4- Course Outline

Week	Title	Sub-Titles	Duration
CHAPTER1: INTRODUCTION			
1	Introduction: - Course requirements grading Syllabus - Internet, WWW Overview	- Course requirements & grading Syllabus - Internet, WWW Overview <ul style="list-style-type: none"> • Web Introduction/Review • Using FTP and directory hierarchy • FTP tutorial 	2 ^h 30
CHAPTER2: SETTING UP A DEVELOPMENT SERVER & WEB DESIGN TOOLS			
2	What is a Web Application Server?	- Installing a WAMP/XAMPP on Windows - Configuration with PHP - Installation Web Design Tools	2 ^h 30
CHAPTER3: PROGRAMMING WITH PHP			
3	Introduction to PHP	- Incorporating PHP Within HTML - The Structure of PHP <ul style="list-style-type: none"> • Using Comments • Basic Syntax 	2 ^h 30
4	VARIABLES, OPERATORS, AND EXPRESSIONS	- Variables, Data types - Constants - Operators(String, Increment / Decrement, Comparison, Logical and Array)	2 ^h 30

		- Expression	
5	VARIABLES, OPERATORS, AND EXPRESSIONS	- Operators continued - Expression	2 ^h 30
6	CONTROL STATEMENTS	- True and False - The <i>if</i> Statement - The <i>switch</i> Statement	
7	CONTROL STATEMENTS	Control Statements: continued - Loops <ul style="list-style-type: none"> • The <i>while</i> Statement <ul style="list-style-type: none"> + The <i>break</i> Statement + The <i>continue</i> Statement - The <i>do...while</i> Statement <ul style="list-style-type: none"> • The for Statement • The <i>foreach</i> Statement <ul style="list-style-type: none"> + <i>exit, die, and return</i> Statement 	2 ^h 30
8	FUNCTIONS	- Declaring a Function - The <i>return</i> Statement - Scope and the global Statement - Arguments - Recursion - Dynamic Function Calls	2 ^h 30
9	FUNCTIONS	Functions continued: - Create Own functions	2 ^h 30
10	MIDTERM		2 ^h 30
11	ARRAYS	- Single-Dimensional Arrays - Indexing Arrays - Initializing Arrays - Multidimensional Arrays - Casting Arrays - Referencing Arrays inside Strings	2 ^h 30
12	PHP and Forms	Forms, Form Elements \$_POST, \$_GET PHP Strings	
13	PHP and the Web	Includes, Email, Redirects Sticky forms Functions	2 ^h 30
14	Cookies & Sessions	Cookies, Sessions Verify all students can access database on hosting service, PHPMyAdmin Introduction	2 ^h 30
	CHAPTER4: PHP DATABASE		
15	Introduction to MySQL	- Database Theory - Relationships - MySQL Basic	2 ^h 30
16	PHP MySQL: Connection, Create DB/Table, Select Insert, Update & Delete	- Connection String, - Create a Database - Create Tables (designing tables) - SELECT, WHERE, ORDER BY - Adding, Editing, Deleting Records(INSERT, UPDATE, DELETE), modifying table structure	2 ^h 30
17	PHP DATABASE ODBC	- Connecting to an ODBC - Retrieving Records - Retrieving Fields from a Record	2 ^h 30

		- Closing an ODBC Connection - PHP with MS-Access	
18	CHAPTER5: FILE MANAGEMENT AND REFERENCE FUNCTIONS	- Outputting documents (xls, doc, pdf) - File uploading - File Handling - Error Handling - Referencing Functions	2 ^h 30
Total			45^h00
	Final Examination		

5- Assessment :

- Attendance	10%
- Discipline	10%
- Mid-Term	25%
- Assignment	15%
- Final Examination	40%
<u> Total</u>	100%

6- References

- PHP for the Web: Visual Quickstart Guide 4th, ISBN 978-0321733450, Larry Ullman
- Learning PHP, MySQL, and JavaScript, ISBN 978-0596157135, Robin Nixon.
- MySQL and PHP Database Applications, ISBN 0-7645-3537-4, M&T Books
- MySQL®/PHP Database Applications, Second Edition ISBN: 0-7645-4963-4, Wiley Publishing, Inc. Brad Bulger, Jay Greenspan, and David Wall