HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

B.C.A. Semester – VI
BCA-601: Building Application Using PHP

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
				INT		EXT		TOTAL	
Th. (hours)	Pr. (hours)	Total Hours	Credit	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)
4	--	40	4	30	--	70	--	100	--

Unit – I   [18 MARKS]

Introduction to PHP:
Web-Technologies, Server side technologies, Web-server, Web-browser, Introduction PHP, Future of PHP, Client-side scripting, Server-side scripting, adding PHP to HTML Syntax and variable, control and function, Passing information between page,

Variable Function: Get type, set type, isset, unset, strval, floatval, inval, print_r, String, Array and Array Function, Date function, String Function.

Working with Forms: Creating form, Handling form, Validating form data, Accessing form data, use of Hidden fields to save State, Redirecting user, file Upload and Sending Mail on Form Submission.

Unit-2   [17 MARKS]

Object oriented Programming with PHP and Error Handling:
Basic PHP construction for OOP, Advance OOP future, File and File system Function, Session, cookies. **Error Handling and Debugging:** General error types and debugging, displaying PHP errors, Adjusting Error Reporting, Creating Custom error handler, PHP debugging techniques

Unit – 3   [18 MARKS]

Data Access with MySql:
Understanding the Database Design Process: The importance of good database design, Types of Table Relationship, Understanding Normalization.

Learning Basic SQL Command: Table Creation, Insert row, Select Command Using Where Clause, Update and Delete Command, Replace Command, String Function, Date and Time Functions, Stored Procedures, Join, Indexing and Sorting query.

Using MySQL with PHP: Connecting to MySQL and selecting the database, executing simple queries, retrieving query results, counting return Records, updating, Record Addition, Viewing Record, and Deletion Record with PHP.

Unit – 4   **[17 MARKS]**

Email, Web Services ,XML,:
E-Mail: Understanding E-mail, Receiving E-mail with PHP, Sending E-mail with
PHP.XML: What Is XML, Working with XML, Documents and DTDs, SAX versus
DOM, SAX Web Services: Introduction to Web Services, Web Services Model, Web
Services, Platform Elements

TEXT BOOKS:

1. **PHP 5 and MySQL**   Bible publication
2. **Beginning PHP and MySQL** , by W. Jason Gilmore, Apress
3. **Learning PHP, MySQL, JavaScript, and CSS,** Second Edition by Robin Nixon
4. **PHP and MySQL for dynamic Web Sites: Visual Quickpro Guide, Second Edition**
   by Larry. Programming PHP By Rasmus Lerdorf, Kevin Tatroe, Peter MacIntyre.
5. **The Complete Reference PHP** By Steven Holzner
6. **Julie C. Meloni, PHP MySQL and Apache,** SAMS Teach Yourself, Pearson
   Education.

Question Paper Scheme:

University Examination Duration: 3 Hours

Q-1 – Unit -1   (18 Marks)
   O. Objective / Short Questions
   P. Descriptive / Long Questions

Q-2 – Unit -2   (17 Marks)
   O. Objective / Short Questions
   P. Descriptive / Long Questions

Q-3– Unit -3   (18 Marks)
   O. Objective / Short Questions
   P. Descriptive / Long Questions

Q-4 – Unit -4   (17 Marks)
   O. Objective / Short Questions
   P. Descriptive / Long Questions

Note: All Objective/ Short Questions are compulsory, no option wil l be given.