

Mobile Applications Lab

605

Practical

2 Hours/Week

1 credit

- 1 Create the Screen for the Hello World App
- 2 Develop a mobile app to Create Good Morning Translator App
- 3 Design a mobile app to change the Screen's Background Image
- 4 Create a mobile app for layout components and Color Blocks
- 5 Design the mobile app for the Kilometer Converter
- 6 Create mobile app to calculate Test Average
- 7 Develop a mobile app to demonstrate Range Checker
- 8 Develop a mobile app for Grader App
- 9 Design a mobile app to demonstrate checkbox components
- 10 Demonstrate a mobile app for while loop
- 11 Design a mobile app to Calculate Sum of Consecutive Numbers
- 12 Design a mobile app to create Lights
- 13 Design a mobile app to demonstrate lists
- 14 Design a mobile app to validate an Email Address
- 15 Design a mobile app to display images of all states and union territories in India
- 16 Design a mobile app of your college having college information, features, events and placements

PHP Programming**606**

Practical

2 Hours/Week

1 credit

- 1 a. Write a PHP script to find the factorial of a given number.
b. Write a PHP script to find the sum of digits of a given number.
- 2 a. Write a PHP script to find whether the given number is a prime or not.
b. Write a PHP script to demonstrate the use of break, continue statements using nested loops.
- 3 a. Write a PHP script to display the Fibonacci sequence with HTML page.
b. Write a PHP script to create a chess board.
- 4 a. Write a PHP script using built-in string function like strpos(), strpos(), substr_count(), etc..
b. Write a PHP script to transform a string to uppercase, lowercase letters, make a string's first character uppercase.
- 5 a. Write a PHP script that inserts a new item in an array in any position.
b. Write a PHP function to check whether all array values are strings or not.
- 6 a) Write a PHP script to count number of elements in an array and display a range of array elements.
b) Write a PHP script to sort a multi-dimensional array set by a specific key.
- 7 a) Write a PHP script using a function to display the entered string in reverse.
b) Write a PHP script using function for sorting words in a block of text by length.
- 8 a) Write a PHP script for creating the Fibonacci sequence with recursive function.
b) Write a PHP script using pass by value and pass by reference mechanisms in passing arguments to functions.
- 9 a. Write a PHP script to demonstrate the defining and using object properties.
b. Write a PHP script to demonstrate the inheritance.
- 10 a. Write a PHP script to demonstrate the object overloading with _get(), _set(), and _call().
b. Write a PHP script to demonstrate the overloading property accesses with _get() and _set().
- 11 a. Write a PHP script to demonstrate the method overloading and method overriding mechanisms.
b. Write a PHP script to demonstrate the use of final classes and final methods.
- 12 a. Write a PHP script to demonstrate the use interfaces.
b. Write a PHP script using constructors and destructors.
- 13 Write a PHP application to handling HTML forms with PHP script.
- 14 a. Write a PHP script to create a file, write data into file and display the file's data.
b. Write a PHP script to check and change file permissions, copying, renaming and deleting files.
- 15 a. Write a PHP application for connecting to MySQL and reading data from database table.
b. Write a PHP application for inserting, updating, deleting records in the database table.
- 16 Write a PHP application for student registration form.

Information Security and Cyber Laws Lab

606

Practical

2 Hours/Week

1 credit

- 1 Demonstrate the use of Network tools: ping, ipconfig, ifconfig etc...
- 2 Demonstrate the use of Network tools: tracert, arp, netstat, whois etc...
- 3 Use of Password cracking tools: John the Ripper, Ophcrack.
Verify the strength of passwords using these tools.
- 4 Write a program for performing encryption and decryption operations of Caesar cipher.
- 5 Write a program for performing encryption and decryption operations of Rail cipher.
- 6 Write a program for performing encryption and decryption operations of Monoalphabetic cipher.
- 7 Write a program for performing encryption and decryption operations of Playfair cipher.
- 8 Write a program for performing encryption and decryption operations using Transposition technique.
- 9 Use nmap to analyze a remote machine.
- 10 Use zenmap to analyze a remote machine.
- 11 Use Burp proxy to capture and modify the message.
- 12 Demonstrate sending of a protected word document.
- 13 Demonstrate sending of a digitally signed document.
- 14 Demonstrate sending of a protected worksheet.
- 15 Demonstrate use of steganography tools.
- 16 Demonstrate use of gpg utility for signing and encrypting purposes.