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 strstr(), strops(), 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.