

School of Engineering And Applied Science

Diploma CSE / IT Semester VI Major Assignment

Important Instructions to Student:

1. Last date for Assignment Submission – **30-May-2020**
2. This assignment carries major **weightage of 50 Marks**. Kindly prepare it very carefully and in a very detailed manner. For any help in this regard, kindly contact your faculties.
3. Front Page of Assignment should clearly include details like:
 - a. Your Name
 - b. UID Number
 - c. Subject
 - d. Class
 - e. Semester

In the event of no such information, we may not be able to assign marks for your assignment, for which responsibility lies with students.
4. You can write and submit assignment through any of the following options:
 - a. Handwritten Assignment – Prepare softcopy of your assignment through suitable apps and send the assignment as one PDF to your respective faculty as mentioned above.
 - b. Typed Assignment – Prepare Assignment with following font setting and submit the assignment to your respective faculty as mentioned above.
 - i. Font Type – Times New Roman or Arial
 - ii. Headings – Font Size 14
 - iii. Text (Except Heading) – 12
 - iv. Normal Margin and Line Spacing maximum 1.15
5. After this lockdown ends, you all have to submit the physical assignment copies to your respective Faculties. So, keep the assignment carefully for submission.
6. While submitting assignment through email, kindly use subject line as Name of the Programe_Name of Course/Branch_Semester_Name o the the Subject. For Example B.Tech._Mechanical_IV_Theory of Machines

Linux Programming with Shell Prof. Jigar Pandya		Mode of Submission: Google Drive Google Link: https://forms.gle/GqsdTJhSZkxbn2wF7 Subject Line: Diploma CSE / IT - VI
1.	Explain 15 basic commands in details with proper example.	
2.	Write and explain a shell script for find out maximum value from the user define three different values.	
3	Write and explain a shell script for check the year is leap year or not. Year value accepted from the user only.	
4	Explain Linux operating system along with the advantages over other operating systems. Explain Linux Architecture in detail.	
5.	Write and explain a shell script for calculate the factorial of 5.	
Advanced Java Prof. Jigar Pandya		Mode of Submission : Google Drive Google Link: https://forms.gle/G5vy5QARAp9YbGpa8 Subject Line: Diploma CSE / IT - VI
1.	Explain JAVA Servlet with example. Explain Servlet architecture and life cycle.	
2.	Explain RMI architecture and Applications in detail.	
3.	Explain JAVA JDBC database connectivity with example.	
4.	Explain Inheritances in JAVA with example in detail.	
5.	Explain APLET in detail. Explain Applet life cycle in JAVA.	
Open Source Technology with LAMP Prof. Jigar Pandya		Mode of Submission: Google Drive Google Link: https://forms.gle/BvpVwRCWkmiAfwA17 Subject Line: Diploma IT – VI
1.	Explain HTML with different any 15 tags with example.	
2	Explain php, MySQL and Apache web server in detail. Explain the advantages of PHP over any other web developing tool.	
3.	Write a code for design HTML page for accepting user define student data and display in php. [Student data like: UID, NAME, BRANCH, SEMESTER, ADDRESS, PINCODE, STATE, COUNTRY, TOTAL COURSE FEE, and COLLEGE NAME].	
4.	Create a web page in php for insert and display data of student from database table [Student data like: UID, NAME, BRANCH, SEMESTER, COLLEGE NAME, SUBJECT 1 MARK, SUBJECT 2 MARK, SUBJECT 3 MARK, PERCENTAGE].	
5.	Explain \$_GET and \$_POST in php with example.	
Object Oriented Software Engineering Prof. Yagnesh Rathod		Mode of Submission: Google Drive Google Link: https://forms.gle/DXzcvKGrvhZxeU6m9 Subject Line: Diploma CE VI OOSE
1.	What is Software Requirement Specification (SRS)? Why is it important? List the characteristic of a good quality SRS? What contents can we include in it?	
2.	Explain Functional Requirement and Non Functional Requirement with example of Online Examination System.	
3.	Prepare an SRS and Use Case diagram for a simple Library Management System	
4.	Explain white box and black box testing. Discuss all the testing strategies that are available.	
5.	Software is to be developed for hotel management system in which information is provided for all type of activities conducted in hotel. The major users of the system are hotel staff, people who stay in the hotel and people who visit the restaurant. Information for the billing system, hotel account management, staff salary, hotel menu information, hotel room information is provided by software. Prepare Software	

Requirement Specification and Use Case Diagram.	
Introduction of Web Technology Prof. Yagnesh Rathod	Mode of Submission: Google Form: https://forms.gle/8pEppjDPbtypieMh7 Subject Line: Diploma CE VI IOWT
1.	Explain types of lists in html with suitable example.
2.	Write HTML code to design GUI form to accept student name, age, address, state, country, gender, hobbies and suggestion.
3.	Explain Switching techniques in detail.
4.	Explain E-mail Systems in detail.
5.	List out all the HTML tags and their functions you have studied in this subject.
Microsoft Server Technology Prof. Poonam Chakravarty	Mode of Submission: Google Drive Google Link: https://forms.gle/aKGfFxT9ArvAA2NFA Subject Line: Diploma – IT – VI
1.	Write down steps to configure RAID 0 ,RAID 1 & RAID 5 in windows server 2012.
2.	Explain types of backup and write down steps how to take backup in windows server 2012.
3.	Write down steps to create one GPO named Student in IIS and configure any two security policies in windows server 2012.
4.	Write down steps to create one Organizational Unit named UNIVERSITY and Write down steps to configure any two windows policies in IIS.
5.	Write down steps to install IIS and configure any two administration policies in window server 2012.

NOTE: After completing your assignments, contact your respective faculty member and submit the assignment for assessment.