

School of Arts, Science & Commerce

B.Sc. IT Semester IV 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

English Communication and Life Skills – IV Prof. Rakhi Pandey		Mode of Submission Email – rbs.raiversity@gmail.com Subject Line: B.Sc. IT IV ECLS-IV
1.	Explain All Forms Of Tenses In Detail	
2.	Explain 4 Stages Of Team Building In Detail	
3	Explain The Following Interview: a. Panel interview b. Group interview c. Stress interview d. Exit interview e. Technical interview	
4	Explain the Parts Of Speech In Detail	
5.	Explain The All Degree forms Of In Detail	
Internet and Web Technology Prof. Yagnesh Rathod		Mode of Submission: E-mail : active.creation40@gmail.com Subject Line: B.Sc. IT IV IAWT
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.	
Data Communication and Networks Prof. Poonam Chakravarty		Mode of Submission: Google Form: https://forms.gle/fzko6bhMEJJqfNVa7 Subject Line: B.Sc. IT IV DCN
1.	What is Topology? Write down steps to configure all topologies in CISCO packet tracer. 1. Ring 2. Bus 3. Mesh 4. Tree 5. Hybrid 6. Star	
2	Explain IPV4 Header in details with diagram.	
3.	What is network? Explain advantages, disadvantages and all applications in details.	
4.	Write down steps how to configure two devices in LAN and also give list of hardware and software used to connect devices.	
5.	Explain the following terms in details. 1. Working of HTTP 2. Difference between Connection Oriented & connection less services 3. Cross cable and straight through cable with diagram 4. Difference between Hub & Switch 5. Difference between Router & Bridge	
Core Java Programming Prof. Yagnesh Rathod		Mode of Submission: E-mail : active.creation40@gmail.com Subject Line: B.Sc. IT IV CJP
1.	Differentiate String with StringBuffer class. List out the methods available with String class and	

	explain any five with proper JAVA code in detail.
2.	What is an Exception? List out various built-in exceptions in JAVA and explain any one Exception class with suitable example.
3.	What is inheritance in java? Explain different types of inheritance with proper examples.
4.	Differentiate between abstract class and interface specifying matrices of differences. Write a program to define abstract class, with two methods addition() and subtraction(). addition() is abstract method. Implement the abstract method and call that method using a program(s).
5.	Describe abstract class called Shape which has three subclasses say Triangle, Rectangle, Circle. Define one method area() in the abstract class and override this area() in these three subclasses to calculate for specific object i.e. area() of Triangle subclass should calculate area of triangle etc. Same for Rectangle and Circle
Object Oriented Software Engineering Prof. Yagnesh Rathod	
Mode of Submission: E-mail : active.creation40@gmail.com Subject Line: B.Sc. IT IV 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.

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