

610916: MINI PROJECT

Teaching Scheme:

Practical: 2 Hrs/Week/Student

Examination Scheme:

Term Work: 50 Marks

Mini Project is to be carried out in a group of 4 students. Each group will be assigned a guide. At the end of the term the students should submit 2 copies of the project report in a prescribed format provided by the institute. A panel of staff members of the institute will assess the mini project internally.

610915: SOFTWARE LABORATORY - II

Teaching Scheme:
Practical: 4 Hrs/Week

Examination Scheme:
Practical: 50 Marks
Term Work: 50 Marks

Assignment 1: Getting acquainted with Java Environment.

(Students will know use of java interpreter, compiler, class-paths etc.)

Formulate any 2 problem statements e.g.

Managing student/collage/supermarket information to demonstrate use of

1. Java Classes.
2. Java Packages
3. Java Interfaces
4. Exception handling

Assignment 2: Implementation of multithreading.

A] Using matrix manipulation / sorting technique.

B] Creating digital clock.

To demonstrate concepts like

1. Thread creation
2. Thread communication.
3. Thread prioritization.

Assignment 3: AWT Implementation.

A] Creation of calculator.

B] Create GUS for information management & processing (e.g. personal data, admission- process etc.)

Assignment 4: Applet Handling

A] Implement any problem (e.g. font settings / text formatting) using applets & HTML file for parameter passing.

B] Animation using images / sound / videos.

Assignment 5: File Handling.

A] Command based accepting file name, data from user, doing data updation, deletion, insertion into files.

B] AWT Based – From GUI, accepting data, displaying data, processing data.

Assignment 6: JDBC & Networking.

A] Create a database (e.g. collage / student / shop) Execute DDL/DML queries on it.

B] Implement either of following.

- 1] Socket programming
- 2] Java usage for Internet connection.

Note: Use of Application development Tools such as Eclipse, KAWA, J Creator/VJ ++, Coffee cup etc. is recommended.

Students will submit the term work in the form of a journal, which will include at least 12 assignments based on the topics mentioned above. Practical examination will be based on the term work and questions will be asked to judge understanding of assignments performed at the time of examination.

610914: WEB PROGRAMMING LABORATORY

Teaching Scheme:
Practical: 4 Hrs/Week

Examination Scheme:
Term Work: 50 Marks
Oral: 50 Marks

Note:

For assignment below (no 1 to no 7) Study, installation and configuration of web browsers, web servers is expected.

Assignment 1

Designing a simple website using HTML/DHTML using basic text formatting, images, lists, tables, frames and forms, e.g. Resume Creation/ Shopping Applications/ Help files generation

Assignment 2

Creating simple web page for acceptance of data such as name, emails, contact no, URLs etc. and doing data processing, validation using VB Script

Assignment 3

Java Script Event Handling Implementation, e.g.

- a. key events
- b. mouse events
- c. load/ unload/ reset/ submit form events

Assignment 4

Animation of text/ images/ sounds/ videos etc. using Java Script

Assignment 5

JSP: - Using JSP in Web pages. (Implementation of JSP for applications like data form processing)

Assignment 6

ASP.NET:- Creating a simple ASP.NET application to demonstrate use of ActiveX controls / .NET Framework.

Assignment 7

AJAX Implementation: (for example sending an XMLHttpRequest to retrieve data when the user clicks a button, sending an XMLHttpRequest to retrieve HTML header data.)

OOMD Assignments

Frame at least 4 assignments based on case study, to draw all 13 UML diagrams using any UML tool.

Example case studies

- 1) Implementation of Library management system.
- 2) Implementation of Hospital management system.
- 3) Online Reservation System.
- 4) College Admission Process.

Students will submit the term work in the form of a journal, which will include at least 12 assignments based on the topics mentioned above.