10M17CI271: Software Systems Lab-II

Course Credit: 2

Semester: M.Tech 2nd SEM

Objective:

The main objective of this lab is to provide the knowledge of system software development. This course introduces the various programming techniques like JAVA, and .NET to the students for developing the system software. Students are required to submit their lab exercises and Mini project reports in a given format timely.

Learning Outcomes:

1. Students will be able to learn various programming techniques.
2. Knowledge of system software development.
3. Developing software in a Client/Server environment.
4. Implementation of compression techniques
5. Developing cloud computing application.
6. Getting familiar of making a Installation package of their software.
7. Developing and handling of Mini projects in a groups.

List of Experiments

S NO	Topics
1	JAVA RMI Programming (JAVA)
	Mini Project – 1 (1.5 weeks)
2	Distributed Programming using EJB 3.0
3	Handling Session Beans (JAVA EE)
4	Working with Entities and Databases (JAVA EE)
	Mini Project – 2 (2 weeks)
5	Working with Compression techniques (JAVA)
	Mini project – 3 (2 weeks)
6	Developing a Cloud Computing Application
	Mini project – 4 (1.5 weeks)

References

1. Troy Bryan Downing, Java RMI: Remote Method Invocation, John Wiley & Sons,2007.
2. William Grosso, Java RMI , O'Reilly Media, 2001.
3. Schildt_, Java 2:The Complete Reference, Tata McGraw-Hill Education, 2002

Evaluation Scheme:

1.	Mid Term Exam (Viva and Written Exam)	20
2.	End term Exam (Viva and Written Exam)	30
3.	Lab Records	5
4.	Regular Assessment (Quality and quantity of experiment performed, Learning laboratory skills, Attendance etc.)	30
5.	Project	15
	Total	**100**