IV Year B.Tech. CSE   II - Semester

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CS402   J2EE
(Dept. Elective - III)

Objective of the Course :

To understand the development of enterprise applications using 'java 2 Platform, enterprise Edition (J2EE)'. EJB technology enables rapid and simplified development of distributed, transactional, secure and portable applications based on Java technology. After the course completion, student will be able to read, compose, and send electronic messages using 'Java Mail API' . It also enables XML-based protocol to let applications exchange information over HTTP.

UNIT - I

Introduction to J2EE,J2EE Overview, Why J2EE?,J2EE Architecture,the birth of J2EE,distributive systems,the tier,J2EE multitier architecture,client tier architecture, web tier implementation,EJB tier implementation,enterprise information systems tier implementation,myths of using inheritance,maintainable classes.

UNIT - II

J2EE database concepts : data,data base,tables,database schema,the art of indexing,jdbc objects,the concept of jdbc,jdbc driver types,jdbc packages,a brief overview of the jdbc process,database connection,associating the jdbc-odbc bridge with database,result set,transaction processing,metadata,data types,exceptions.

UNIT - III

JDBC and Embedded Sql : model programs,tables,indexing,inserting data into tables,selecting data from a table,metadata,updating tables,deleting data from a table,joining tables,calculating data,grouping and bordering data,subqueries,view. Struts Framework:What is Struts?,Struts Architecture.

UNIT - IV

Java mail API,java interface definition language and cobra,java RMI(remote method invaocation)java msg service,securityRMI overview,RMI architecture,example demonstrating RMI.

UNIT - V

Electronic business XML,java API for XML registres(JAXR),web servicesdecription languages(WSDL).

TEXT-BOOKS :

1. Jim Keogh "The complete reference J2EE", 2nd ed., Tata McGraw Hill publishers, 2007.

REFERENCE BOOKS :

1. Herebert schildt " Java 2 complete reference" 5th ed., TMH, 2008.
2. Black " Java server programming" J2EE, 1st ed., Dream Tech Publishers, 2008.
3. Kathy walrath " The J2EE tutorial" , 1st ed., Addison Wesley Publishers, 2005.