

Enterprise Java Programming	L 3	T 1	P 0	Core JAVA
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Course Objective: To familiarize students with advanced JAVA programming constructs.

S. NO	Course Outcomes (CO)
CO1	To introduce fundamentals of Enterprise Java Programming,
CO2	To implement interfaces, collections
CO3	To implement TCP/IP programming
CO4	To learn database Connectivity

S. NO	Contents	Contact Hours
UNIT 1	Interfaces, packages, Collections : Collection Interfaces, Concrete Collections, Collections Framework.	8
UNIT 2	Multithreading : Creating and running thread, Multiple thread synchronization, Thread communication, Thread group, Thread priorities, Daemon Thread, Life Cycle of Thread.	8
UNIT 3	Fundamentals in Networking: Sockets in Java - Internet Addressing -DNS – Ipv4,IPv6- URL class - TCP/IP and Datagram. The interfaces and classes for networking :Interfaces and classes of java.net package; InetAddress class : IP address scope - Host name resolution - Methods of InetAddress class; Program to look up the IP addresses for a hostname - Factory methods - Creating and using Sockets : Socket class - constructors and methods of Socket class. Creating TCP servers &clients : TCP/IP server sockets - Constructors and methods of ServerSocket class - Program to create a TCP/IP server and client.	8
UNIT 4	Handling URL: URL class - constructors and methods of URL class - URLConnection class - fields of URLConnection class - methods of URLConnection class. Working with Datagrams: DatagramPacket - Constructors for DatagramPacket class - Methods of DatagramPacket class - creating Datagram server and client	8

UNIT 5	JDBC Package :JDBC – JDBC versus ODBC – Types of JDBC drivers – Connection – Statement – PreparedStatement.ResultSet :Fields of ResultSet – Methods of ResultSet – Executing a query - ResultSetMetaData – DatabaseMetaData. Datatypes in JDBC : Basic datatypes in JDBC – Advanced datatypes in JDBC – fields of Statement – methods of Statement – CallableStatement Interface – BatchUpdates	10
	TOTAL	42

REFERENCES		
S.No.	Name of Books/Authors/Publishers	Year of Publication / Edition