



Course Outcomes & CO-PO-PSO Mapping and Justification

Subject	Advanced Java & J2EE	18CS644
COURSE OUTCOMES:		
CO No.	On completion of this course, students will be able to:	Cognitive Level
18CS644.1	Interpret the need for advanced Java concepts like enumerations, Auto Boxing and annotations.	L2
18CS644.2	Demonstrate the concept of Collections, Comparators, Legacy classes and Interfaces.	L2
18CS644.3	Understand the use of string handling functions.	L2
18CS644.4	Develop distributed web application using Servlets and JSP.	L6
18CS644.5	Apply the concepts of JDBC, Transaction processing, statement objects and Resultset to perform operations on Database	L3

CO-PO-PSO MAPPING

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
18CS644.1	3	2	2	-	2	-	-	-	-	-	-	2	2	-	-
18CS644.2	3	2	2	-	2	-	-	-	-	-	-	2	2	-	-
18CS644.3	3	2	2	-	2	-	-	-	-	-	-	2	2	-	-
18CS644.4	3	3	3	-	3	-	-	-	-	-	-	3	3	-	-
18CS644.5	3	3	3	-	3	-	-	-	-	-	-	3	3	-	-
Avg. Mapping	3.0	2.4	2.4	-	2.4	-	-	-	-	-	-	2.4	2.4	-	-

CO-PO-PSO JUSTIFICATION

CO No.	PO/PSO	CL	Justification
18CS644.1	PO1	3	Strongly mapped as students able to gain the knowledge of Enumerations, Auto boxing and Annotations in writing the program.
	PO2	2	Moderately mapped as only few students identify their own problem by conducting literature review for writing programs.
	PO3	2	Moderately mapped as designing and implementation is required to write the code for the given problem statement.
	PO5	2	Moderately mapped as students learn modern IDE tools to execute java programs / applications (Eclipse IDE / Netbeans IDE).
	PO12	2	Moderately mapped as students apply the concepts learnt in continuing product development and new innovations.
	PSO1	2	Moderately mapped as students understand fundamentals concepts of java in developing the application.
18CS644.2	PO1	3	Strongly mapped as students able to gain the knowledge of Collections, Comparators, Legacy classes and interfaces for data handling in java.
	PO2	2	Moderately mapped as only some students able to identify the problem statements, objectives used to solve the problem.
	PO3	2	Moderately mapped as designing and implementation is required to solve the given problem by utilizing data handling mechanism.
	PO5	2	Moderately mapped as students learn modern IDE tools to execute java programs / applications (Eclipse IDE / Netbeans IDE).
	PO12	2	Moderately mapped as students apply the concepts learnt in continuing product development and new innovations effectively.
	PSO1	2	Moderately mapped as students gain knowledge in developing application software by effective utilization of data handling mechanisms such as Collections and interfaces, comparators.
18CS644.3	PO1	3	Strongly mapped as students gain the knowledge how effectively String, StringBuffer and StringBuilder methods can be used in writing the program.
	PO2	2	Moderately mapped as students able to identify the problem statements and objectives and apply them in solving the problem.
	PO3	2	Moderately mapped as design and implementation is required to solve the given problem by utilizing String, StringBuffer and StringBuilder methods.

	PO5	2	Moderately mapped as students learn modern IDE tools to execute java programs / applications (Eclipse IDE / Netbeans IDE).
	PO12	2	Moderately mapped as students apply the concepts learnt in continuing professional development and able to bridge the gap in knowledge.
	PSO1	2	Moderately mapped as students gain knowledge in developing application software by using String, StringBuffer and StringBuilder methods.
18CS644.4	PO1	3	Strongly mapped as students gain the knowledge in developing the applications using Servlets and JSP.
	PO2	3	Strongly mapped as students able to identify the problem statements and use Servlets / JSP to build applications.
	PO3	3	Strongly mapped as students design the web application using Servlets and JSP.
	PO5	3	Strongly mapped as students learn modern IDE tools to execute java applications (Eclipse IDE: Integrating Apache Tomcat Server) / Netbeans IDE).
	PO12	3	Strongly mapped as students apply the concepts learnt in continuing professional development, able to bridge the gap in knowledge and new developments.
	PSO1	3	Strongly mapped as students gain knowledge in developing application software by using advanced concepts of Java & J2EE.
18CS644.5	PO1	3	Strongly mapped as students gain the knowledge in developing the applications using Database concepts.
	PO2	3	Strongly mapped as students able to identify the problem statements and develop application using JDBC to connect backend of the database.
	PO3	3	Strongly mapped as students design the web application by using java database connectivity.
	PO5	3	Strongly mapped as students learn modern IDE tools to execute java applications (Eclipse IDE : Oracle SQL/Mysql client) / Netbeans IDE).
	PO12	3	Strongly mapped as students apply the concepts learnt in continuing professional development and new developments.
	PSO1	3	Strongly mapped as students gain knowledge in developing application software by using advanced concepts of Java & JDBC.

Prepared by
Veena G

HoD
Dr.M.Ramakrishna