

ENTERPRISE JAVA PROGRAMMING

Semester	Subject Code	Category	Lecture Hrs		Theory Hrs		Practical		Credits
			Per week	Per Sem	Per week	Per Sem	Per week	Per Sem	
I	21CPCS1A	CORE -I	6	90	6	90	0	0	4

COURSE OBJECTIVE

- This paper help us to understand the advanced level of enterprise java programming concept.

COURSE OUTCOME

Successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level (K1-K4)
CO1	Understand the J2EE concepts	K2
CO2	Deals with JSP Components	K2
CO3	To learn Enterprise beans and web client usage	K3
CO4	To apply Struts flow concept in real time application.	K3
CO5	To analyze Hibernate in detail	K4

Knowledge Level – K1-Remember, K2- Understand, K3-Apply, K4-Analyze

MAPPING WITH PROGRAMME OUTCOME

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO1	S	S	S	S	M	S
CO2	S	S	M	S	S	M
CO3	S	S	S	M	M	S
CO4	S	S	S	M	S	M
CO5	S	M	S	S	M	M

S-Strong , M-Medium and L-Low

UNIT-I INTRODUCTION

18 Hours

Introduction -Enterprise Architecture Styles - J2EE Architecture - Containers - J2EE Technologies - Developing J2EE Applications - Naming and directory services - Using JNDI - Implementing the J2EE Specifications - J2EE packaging and Deployment - J2EE packaging overview - Configuring J2EE packages

UNIT-II CONCEPT OF JSP

19 Hours

JSP Benefits - Framework roles - Simple JSF application - User Interface Component Model - Navigational Model - Life Cycle of JSF page - Using JSF in JSP Pages – Setting up a page, using core tags - using HTML tags - using localized messages - Using converters.

UNIT-III INTRODUCTION TO ENTERPRISE BEANS

18 Hours

Introduction to Enterprise Beans - Session Bean - Entity Bean - Message driven Bean - defining clients access with interfaces - contents of an enterprise Bean - life cycle of enterprise Bean - creation of Enterprise Bean - application client - web client - other Enterprise Bean features handling exceptions.

UNIT-IV STRUTS

17 Hours

Struts Architecture - Struts classes - Action Forward, Action Form, Action Servlet, Action classes - Understanding struts - Understanding Action Mappings, Struts flow with an example application.

UNIT-V HIBERNATE

18 Hours

Hibernate - Architecture of Hibernate - Life cycle of Hibernate Entities- Exploring HQL - Understanding Hibernate O/R Mapping - Collection Mapping - Association Mapping - Relationships in Java and Databases.

Distribution of Marks: Theory 80% and Applications: 20%

TEXTBOOKS

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1	Marty Hall, Larry Brown	Core Servlets and Java Server Pages	2nd Edition, Pearson Education	2004
2	Stephanie Bodoffetl	The J2EE TM Tutorial	Pearson Education, Second Edition	2005
3	Minter Dave	Linwood Jeff, "Beginning Hibernate, From Novice to Professional	Apress, Second Edition	2006

REFERENCEBOOKS

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1	Patrick Naughton& Herbert Schildt	The Complete Reference: Java 2	Tata McGraw Hill	1999
2	Bruce W.Perry	Java Servlet and JSP Cook Book	O'Reilly	2004.

WEB RESOURCES

1. <http://www.tutorialspoint.com/hibernate/>
2. <https://javaee.github.io/tutorial/overview001.html>

TEACHING METHODOLOGY

- Class room teaching & Group discussions
- Seminars & Smart Class room
- Chart/Assignment & Simulation Model

SYLLABUS DESIGNER

- Mrs.G.SANGEETHA LAKSHMI, Assistant Professor & HOD, Dept of Computer Science & Applications
- Dr. R.HAMSAVENI, Assistant Prof, Dept of Computer Science & Applications