KRISHNASAMY
College of
ENGINEERING & TECHNOLOGY
Approved by AICTE & Affiliated to Anna University
Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
(04142) 285 601 - 604 www.kcet.in info@kcet.in

DEPARTMENT OF CSE

30.11.2022

CIRCULAR

Ref.: KCET/CSE/VAC/CIRCULAR/2022-23/01.

The following Value Added Course will be conducted during the academic year 2022-2023. The course will be conducted from 23.01.2023 to 28.01.2023. Students are instructed to register their names in the course allotted to them.

Note: Students are instructed to attend the program without fail.

S.No.	Course Code	Name of the Course	Year	No. of Period	Course Coordinator
1	CS-VAC2203	INTEGRATED PROGRAMMING	III & IV	30	Mr.N.Thanigaivel, AP - CSE
2	CS-VAC2204	DATA INFORMATION SECURITY	II	30	Dr.S.Ramesh, AP – CSE Mrs.R.Shenbagavalli,AP - CSE

30/11/22

HOD/CSE

KRISHNASAMY COLLEGE OF ENGG. & TECH ★ CUDDALORE 607 109.

Copy to:

Class Room

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SYLLABUS

Subject Code/ Subject Name: CS-VAC2203 - INTEGRATED PROGRAMMING

Duration: 30 Hours

OBJECTIVES:

- To know the importance of Java based Enterprise level application development
- To train the students to acquire knowledge in various frameworks
- To gain skill to develop enterprise applications using Java based technologies

MODULE - I SERVER SIDE PROGRAMMING **7**

Java EE 7 - Enterprise Architecture Types - Features of the Java EE Platform - Architecture of Java EE 7 - Java EE 7 Containers - Developing Java EE 7 Applications - Compatible Products for the Java EE Platform .

MODULE - II ENTERPRISE JAVA BEANS **8**

JavaServer Faces - JSF Architecture - JSF Request Processing Life Cycle - JSF UI and Message Components - Developing a JSF Application - JavaMail Architecture - JavaMail API - Sending and Reading Mails - Enterprise JavaBeans Architecture - Session Beans - MessageDrivenBean - Transactions in Java EE - Entity Bean - Life Cycle of Entity Bean - Entity inheritance and Relationship

MODULE - III HIBERNATE FRAMEWORK **8**

Hibernate - Architecture of Hibernate - Exploring HQL - Hibernate O/R Mapping - JBoss Seam - Features of the Seam Framework - Working with the Seam Framework - Implementing BPM and Page Flow in Seam - Java EE Connector Architecture - Key Concepts of Java Connector Architecture (JCA)

MODULE - IV JAVA WEB SERVICES **7**

Overview of SOA - Overview of Java Web Services (JWS) - Role of WSDL, SOAP, and Java/XML Mapping in SOA - JAX-WS 2.2 and JAXB 2.2 Specification - WSEE , WS-Metadata, SAAJ, JAXR specifications

TOTAL: 30 PERIODS

COURSE OUTCOMES:

On Completion of the course, the students should be able to:

- ✓ Develop complex real world web applications
- ✓ Differentiate the importance of various application development frameworks

TEXT BOOKS:

1. Kogent Learning Solutions Inc.," Java Server Programming Java EE7 (J2EE 1.7): Black Book", Dream Tech Press, 2014.
2. https://docs.oracle.com/javaee/7/JEETT.pdf

REFERENCES:

1. Ed Roman, Rima Patel Sriganesh, Gerald Brose, Mastering Enterprise JavaBeans, 3rd Edition, WILEY publication, 2005.
2. Jim Keogh, J2EE: The Complete Reference, TATA Mc-Graw Hill, 2002.
3. James Holmes, Struts: The Complete Reference, 2nd Edition, TATA McGraw Hill, 2007.

C. Reddy
30/11/22
HOD