NAAC Re-Accredited 'A' Grade
विद्यया अमृतं अश्नुते
ESTD. 1963
RJC
ISO 9001:2015
Best College
UNIVERSITY OF MUMBAI

Hindi Vidya Prachar Samiti's
RAMNIRANJAN JHUNJHUNWALA COLLEGE (AUTONOMOUS)

(Also known as R. J. College of Arts, Science & Commerce as per UGC Notification)

Affiliated to UNIVERSITY OF MUMBAI II Recognized by UGC under 2f & 12B
NAAC Accredited 'A GRADE' with CGPA 3.50

Knowledge is all Ambrosia

A T S M C

CERTIFICATE COURSE IN

ENTERPRISE JAVA

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Mumbai 400 086, Maharashtra, INDIA.

CERTIFICATE COURSE IN **ENTERPRISE JAVA**

ABOUT US

Hindi Vidya Prachar Samiti was incepted on the auspicious day of Shri Krishna Janmashtami, 15th August 1938. A brain child of a visionary Late Shri Nandkishore Singh Jairamji, samiti was established with the objectives of catering to the educational needs of the Hindi speaking community. Ramniranjan Jhunjhunwala College came into existence in 1963, enabling a larger section of the society to take advantage of the facilities provided for higher education.

From 1999-2000 the College has added a number of self-financing courses like B.M.S., B.B.I., B.Sc. in Computer Science, Information Technology, Biotechnology, M.Sc. in Computer Science, Biotechnology and Information Technology as well as add on courses, which further hone the special skills of the students.

The college has been reaccredited with 'A' Grade by NAAC in 2014 with a CGPA 3.50 and received the Best College Award (2007-2008) of the University of Mumbai.

The College has been bestowed with IMC "Ramkrishna Bajaj Performance Excellence Trophy", 2010.

The Principal of the college was awarded "Best Teacher" by Government of Maharashtra in 2011.

Government of Maharashtra conferred the college with "JAAGAR JAANIVANCHA" (First in Mumbai Suburban- in 2013 and Second in Mumbai Suburban- in 2014) for safety of girls.

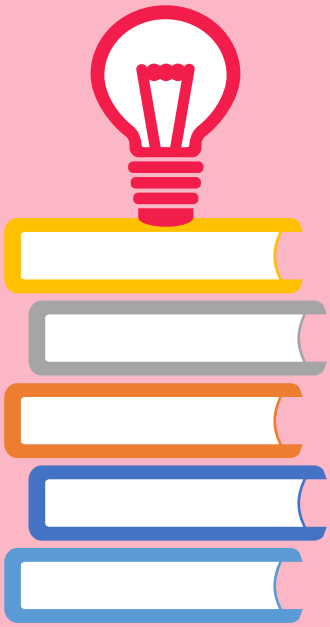
Course Code: RJITC05

Duration: 30 hours

Credits : 02

ABOUT COURSE

The course aims to teach advanced concepts in Java. It aims to familiarize students with concept of using API and handling the same in SPRING BOOT



COURSE OBJECTIVE

The course is designed to give a detailed understanding of Spring API

COURSE CONTENT

Module	Topics	Hours
I	**Introduction To Enterprise Javabeans:** Enterprise Bean Architecture, Benefits of Enterprise Bean, Types of Enterprise Bean, Accessing Enterprise Beans, Enterprise Bean Application, Packaging Enterprise Beans **Setting up Environment:** IDE Eclipse, Netbeans- • Introduction and overview • Creating web projects using eclipse • Configuration and set up the project • Connecting to database SQL, MySQL • Configuring Tomcat and Jboss application deployment, launching and debugging web applications, • Detailed study of eclipse and netbeans • Installing new software plugins-Adding plugins, Update site **Working With Session Beans:** When to use Session Beans? Types of Session Beans, Remote and Local Interfaces, Accessing Interfaces, Lifecycle of Enterprise Beans, Packaging Enterprise Beans, Example of Stateful Session Bean, Example of Stateless Session Bean, Example of Singleton Session Beans. **Implementation of EJB Applications**	7

COURSE CONTENT

Module	Topics	Hours
Unit II	**Working with Message Driven Beans:** Lifecycle of a Message Driven Bean, Uses of Message Driven Beans, The Message Driven Beans Example. **Interceptors:** Request And Interceptor, Defining An Interceptor, AroundInvoke Method, Applying Interceptor, Adding An Interceptor To An Enterprise Bean, Build and Run the Web Application. **Java Naming and Directory Interface:** What is Naming Service? What is Directory Service? What is Java Naming and Directory interface? Basic Lookup, JNDI Namespace in Java EE, Resources and JNDI, Datasource Resource Definition in Java EE. Implementation Message Driven Beans	7
Unit III	**Spring Framework:** Home, Overview, Architecture,Environment Setup, Hello World Example, IoC, Containers, Bean Definition,Bean Scopes, Bean Life Cycle, Bean Post Processors,Bean Definition Inheritance, Dependency Injection,Injecting Inner Beans, Injecting Collection, Beans Auto-Wiring	**8**
Unit IV	**Spring MVC:** Basics , Annotations,Hello World Application,Restful Web Services Basics,Spring MVC without Maven,Apache Maven Basics,MVC with Maven,Spring MVC Application Deployment,Spring MVC Application Deployment with Loggers,Spring MVC WAR File Creation and Deployment Steps,Spring MVC, Hibernate, Mysql, Apache Maven, Apache Tomcat- CRUD Operation,Java, Spring MVC, Spring Security, Algorithm, Hibernate, Maven, Mysql IntegrationApplication	**8**

COURSE OUTCOME

- Familiarize the students with JavaBeans and implement EJB and Session Bean
- Develop applications with message driven Beans
- Familiarize students with Spring Framework
- Implementing Spring MVC Architecture.

MEDIUM OF INSTRUCTION English

EVALUATION

Mode of Assessment	Maximum Marks (50)	Minimum Marks (20)
Programming Exercise	20	8
Assignment	40	16
Project	40	16

100 MARKS PASSING 40

WHO SHOULD DO IT?

The learner should have basic knowledge of computer technology. Learner should be well versed with web technologies, also learners should have good knowledge of Java Programming Language, including the advanced concepts like JDBC, Servlet, JSP. Knowledge of technologies like Database Server and Application Server will be helpful.