

TRISHUL Syllabus for School of Computer Sciences

Program Name: TRISHUL-CSE/IT-TRACK

Entry Criteria: Students belonging to

- Computer Science Engineering (CSE)
- Information Technology (IT)

The computer science stream shall be offered the following training modules during the course, in addition to the regular academic curriculum. Each module will include lecture demos, seminars by field experts and technology workshops.

Course – 011

Starts in 1st Year

Module-1

Module Name: Java Certification Program – SCJP (CX-310-055)

Duration: 60 Hrs

Description:

This module begins with training on Core Java which includes fundamentals of Java programming language, object-oriented theory, Java programming language syntax etc. Weekly mock tests are conducted that help participants to get acquainted with the format of the exam and its questions.

Benefits:

Companies prefer certified programmers over non-certified programmers. Java technology certification helps to ensure that you have the necessary skills to efficiently meet the challenges of IT organization. Earning a Java technology certification provides a clear demonstration of the technical skills, professional dedication and motivation for which employers are willing to pay a premium of minimum 20% above the average salary.

Module-2

Module Name: Entrepreneur Development Programme

Duration: 20 Hrs

Description:

Students review the biographies of Industry Leaders of different sectors and are asked to write essays summarizing those biographies.

Some of the Biographies to be given are:

1. Who says Elephants cant Dance-Louis Gerstner.
2. Every Street is Paved with Gold-Kim Woo Choong.
3. Straight From the Gut-Jack Welch.

Benefits:

This program brings about an overall development, improve self-esteem and confidence level. Participants develop the skills to excel in a variety of writing formats including comparative passages, descriptive essays, outlines and Builds Intrinsic motivation among the participants engaging themselves in learning out of curiosity, interest in order to achieve their own intellectual and personal goals.

Course – 021

Starts in 2nd Year I Semester

Module-1

Module Name: Web Component Developer Certification Program(CX-310-081)

Duration: 50 Hrs

Description:

This program provides participants with the knowledge to build and deploy enterprise applications which include servlets, Java Server Pages (JSP) technology, JSTL J2ee Design Patterns etc. with extensive practice exams for the Web Component Developer.

Benefits:

Sun Certified Web Component Developer (SCWCD) is one of most coveted certifications in the J2EE domain. This certification is for developers specializing in the application of Java Server Pages and servile technologies. There is a high demand for SCWCD Certified candidates as this has been widespread technology being used in the IT field.

Module-2	
Name: PL/SQL Developer OCA certification Program	
Module Duration: 30 Hrs	
Description: This program provides participants with the knowledge of Oracle SQL and PL/SQL with sample practice exams for the PL/SQL Developer OCA certification.	
Benefits: Being an Oracle as well as Java Certified Professional adds an immense potential and raises the student visibility and increase his/her access to the industry's most challenging opportunities.	
Course – 031	Starts in 3rd Year I Semester
Module-1	
Module Name: Developing Web Applications with Microsoft's Visual C#™ .NET & Visual Studio .NET	
Duration: 80 Hrs	
Description: This program provide training on Microsoft Technologies which include creating ASP.NET web applications using C# and conducts practice test to prepare Participants for the MCTS-70536 and MCTS-70528 exams.	
Benefits: Participants will get the complete .Net training in ASP.Net, C#, XML and Webservices. Companies prefer certified programmers over non-certified programmers. Employers are willing to pay a premium of minimum 20% above the average CTC.	
Course – 032	Starts in 3rd Year II Semester
Module-1	
Module Name: UML Certification Program	
Duration: 50 Hrs	
Description: UML is widely used for the purpose for software design. This program covers the best principles and practices for Object Oriented Analysis and Design. UML certification tests not just about UML diagrams but more importantly about applying OOAD principles in the context of software design. It provides participants the concept and usage of Use Case Diagrams, Class Diagrams, Activity Diagrams, and Interaction Diagrams etc. Periodically mock tests are conducted to get acquainted with the format of the OCUP Fundamental Certification.	
Benefits: As this course provides comprehensive coverage of the latest standard for the Unified Modelling Language (UML) and how UML fits into the software development life cycle, benefits the Participants to carry out their live project phases effectively.	
Module-2	
Module Name: Mini Project	
Duration: 30 Hrs	
Description: Introduction to project and various phases of the Software Development Life Cycle (SDLC). Participants are asked to develop a mini project based on Java or .NET technologies.	
Benefits: Helps the participants to get clear understanding of the phases involved in Software Development Life Cycle. Practical implementation of learnt concepts.	

Course – 041	Starts in 4th Year I Semester
Module-1	
<p>Module Name: Domain Knowledge Duration: 80 Hrs Description: The Participants are given open option to select and study a topic. Several topics are provided that belong to various domains like Telecom, Banking & Finance, Health Care and Wireless. Faculty members are given topic wise responsibility to guide and monitor the students. Benefits: In the present scenario 70% of software jobs are in these domains. Each of these domains has their own standards and peculiarities. So it is always beneficial to know the thumb rules of the industry. Employers will also prefer people having their respective domain knowledge.</p>	
Course – 042	Starts in 4th Year II Semester
Module-2	
<p>Module Name: Live Project Duration: 18hrs per Week Description: This program gives an opportunity to the students in getting live experience of real time projects. These projects are mostly pilot projects which are part of various live R&D projects. While doing this project, the Participants will go through the following phases Software Development Life Cycle (SDLC). Analysis Phase: Preparation of SRS - document defining Interfaces, Functional Capabilities, Performance Levels, Usability Support, Reliability, Security/ Privacy, Quality, Constraints and Limitations. Design Phase: Preparation of architectural document specifying common software components and common interactions among these components through UML, satisfying key requirements in such areas as performance, reliability, portability, scalability, and interoperability. Implementation Phase: Project Coding and Testing Followed by Seminars, Presentations and Documentation. Benefits: The participants will get clear understanding of the phases involved in Software Development Life Cycle and also Practical knowledge of real time project execution. This gives them an opportunity to apply the theory to practice.</p>	

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