TECNIA INSTITUTE OF ADVANCED STUDIES

Approved by AICTE, Ministry of HRD, Govt. of India Affiliated To Guru Gobind Singh Indraprastha University, Recognized by UGC under Sec 2(f)

INSTITUTIONAL AREA, MADHUBAN CHOWK, ROHINI, DELHI- 110085

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ISO 9001
International Standards
Certifications

ISO 9001:2008

Event	: Workshop
Topic	: Software Testing
Resource Person	: Mr. Anjani, Corporate Trainer, Ducat, Noida.
Schedule	: 11:30 AM to 5:00 PM
Date	: 13th September 2014
Day	: Saturday
Venue	: Multi Purpose Hall (PG Block)
Faculty Incharge	: Dr. Jitender Rai (Associate Professor), MCA Department
No of Students	: MCA-I, III, V Semesters

Objectives:

1. To understand the essential characteristics of tool used for test automation.
2. To motivate and enrich the students to take testing as a career.
3. To Identify any defects injected by programmers and not detected in normal debugging.
4. To study the code to ensure that each and every line of code is tested.

Resource Person Profile:

Mr.Anjani is working as a **Corporate Trainer** with **DUCAT, Noida from 2012** onward in software testing fields. He provides training to students studying in BCA, MCA and B.Tech (Computer Science & engineering) courses and wants to make their career in software testing field. He has trained a number of IT professionals who are now working in renowned IT companies

Mr.Anjani Corporate Trainer, Ducat, Noida, addressing the audience   Students & Faculty Members attending the workshop

Report:

The workshop was divided into following modules:

Module 1: Introduction to SQT: (60 mins)

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1) Introduction to Testing, Quality Assurance & Quality Control
2) Software Development Life Cycle (SDLC)
3) Introduction Software Testing Techniques:
    i. Black Box
    ii. White Box
    iii. Grey Box
4) Testing Levels

Module 2: Manual Testing: (90 mins)

1) Understanding Software Test Life Cycle (STLC)
2) Identifying Testing Artifact:
    i. Test Plan
    ii. Designing Test Cases
    iii. Optimizing Test Cases

3) Executing Testing Artifacts
4) Bug Life Cycle

Module 3: Introduction to Automated testing Tools :(2 Hours)
1) Quick Test Professional (QTP):(60 mins)
2) Load Runner (LR) :(30 mins)
3) Quality Center(QC) : (30 mins)
Module 4: Future, Scope & Career in SQT (30 mins)

Mr.Anjani successfully elaborated each of the four modules with practical orientations. He also made students acquainted with the prospects of software testing in the IT sector. At the end, he resolved the students' queries to their satisfaction level.

LEARNING OUTCOME:
Students have the following learning:
1. Various test processes and continuous quality improvement
2. Types of errors and fault models
3. Methods of test generation from requirements
4. Behavior modeling using UML: Finite state machines (FSM)
5. Test generation from FSM models
6. Input space modeling using combinatorial designs
7. Combinatorial test generation
8. Test adequacy assessment using: control flow, data flow, and program mutations
9. The use of various test tools
10. Application of software testing techniques in commercial environments