



Mangalmai Institute of Management Technology
Greater Noida (U.P.)



MANGALMAI
INSTITUTE OF MANAGEMENT TECHNOLOGY



CERTIFICATION PROGRAMME

On

Software Testing tools and Techniques

From

14th March - 17th May 2023

Convener: Mr. Abhay N Tripathi, Associate Professor, MIMT

For BCA IInd Semester

Resource Person

Mr. Krishan Kumar
Assistant Professor, MIMT



Syllabus
Software Testing tools and Techniques

Duration: 30 Hours

Module I:

Definition of Software Testing and its Role Terms:- Failure, Error, Fault, Defect, Bug, Goals of Testing, Principles of Testing, Software Testing Life Cycle, Verification and Validation :- V-testing Life cycle, Static and Dynamic Testing, Manual Testing, Automated Testing, Supported Technologies for Software Testing, Software Testing Certifications. Software Development Life Cycle, SDLC Models, Software Test Levels, Software Test Types, Software Test Design Techniques, Software Test Process / STLC, Software Quality Standards, Software Test Documents.

Module II:

Types of Testing:- Black Box Testing Overview: What is & When? Techniques, Boundary Value Analysis, Equivalence class testing o Decision Table, White Box Testing, Need of white box Testing, **Classification, Structural** : Coverage, Path, Static : Inspection, Walkthrough , Technical Review, Level of Testing:- Unit Testing integration Testing, Techniques: Graph based, & Path based Functional Testing, System Testing, Categories: Reliability Security Performance Recovery, Acceptance Testing : Overview, Types of Acceptance Testing.

Module III:

Software Testing Tools:- Functional Testing using Selenium, Performance Testing, Functional Testing using UFT, Test Management using JIRA, Defect Management using HP ALM tool , Regression Testing, Functional Testing using Test Complete, API Testing, Database Testing, ETL Testing.

TEXT BOOK/S:

Software Testing: Principles and Practice by SrinivasanDesikan, GopaldaswamyRamesh,Pearson.
Software Testing: Principles and Practice by NareshChauhan,Oxford.

REFERENCE BOOK/S:

Software Testing: Easy Learning Approach by ShubhaAgarwalKundlas.

WEB RESOURCES:

<https://www.guru99.com> > software-testing-introduction-importance



Schedule

Duration:30hours			
Session	Content	Time	Date
1.	Discussion about the subject syllabus and learning outcome	03:00-04:30	14/03/2023
2.	Failure, Error, Fault, Defect, Bug, Goals of Testing	03:00-04:30	15/03/2023
3.	Principles of Testing, Software Testing Life Cycle	03:00-04:30	21/03/2023
4.	Verification and Validation :- V-testing Life cycle, Static and Dynamic Testing,	03:00-04:30	22/03/2023
5.	Software Test Levels, Software Test Types	03:00-04:30	28/03/2023
6.	Software Test Design Techniques, Software Test Process / STLC	03:00-04:30	29/03/2023
7.	Software Quality Standards, Software Test Documents.	03:00-04:30	04/04/2023
8.	Revision of Module 1	03:00-04:30	05/04/2023
9.	Black Box Testing What is & When?	03:00-04:30	11/04/2023
10.	Boundary Value Analysis, Equivalence class testing Decision Table	03:00-04:30	12/04/2023
11.	White Box Testing, Need of white box Testing	03:00-04:30	18/04/2023
12.	Coverage, Path, Static, Inspection, Walkthrough , Technical Review	03:00-04:30	19/04/2023
13.	Level of Testing:- Unit Testing integration Testing, Techniques	03:00-04:30	25/04/2023
14.	Functional Testing, System Testing	03:00-04:30	26/04/2023
15.	Categories: Reliability Security Performance Recovery	03:00-04:30	02/05/2023
16.	Functional Testing using Selenium, Performance Testing	03:00-04:30	03/05/2023
17.	Functional Testing using UFT	03:00-04:30	09/05/2023
18.	Test Management using JIRA, Defect Management using HP ALM tool	03:00-04:30	10/05/2023
19.	Regression Testing, Functional Testing using Test Complete	03:00-04:30	16/05/2023
20.	API Testing, Database Testing, ETL Testing	03:00-04:30	17/05/2023



Report	
Name of Activity	Software Testing tools and techniques
Date	14 th March 2023 to 17 th May 2023
Venue	BCA Classroom
Organized by	Computer Application Department
Resource Person	Mr. Krishan Kumar, Assistant Professor, MIMT
Beneficiaries	BCA 2nd Semester (112 students)
Convener	Mr. Abhay N Tripathi, Associate Professor, MIMT
Objective	<p>The course is designed to learn how to plan a test project, design test cases and data, conduct testing operations, manage software problems and defects, generate a testing report and other skills like:</p> <ul style="list-style-type: none">• Finding defects which may get created by the programmer while developing the software.• Gaining confidence in and providing information about the level of quality• To make sure that the end result meets the business and user requirements
Content	<p>With the initiative of IQAC, Mangalmay Institute of Management and Technology organized an add-on certification course on "Software testing tools and techniques". The course enabled the students to acquire knowledge of Software Testing.</p> <p>Day 1: This session started with the discussion about the subject syllabus and learning outcome.</p> <p>Day 2: This session started with the difference between Failure, Error, Fault, Defect, and Bug.</p> <p>Day 3: In this session explain Principles of Testing and Software Testing Life Cycle</p> <p>Day 4: in this session differentiate Verification and Validation.</p> <p>Day 5: In this session, describe Software Test Levels and Software Test Types.</p> <p>Day 6: This session was focused on Software Test Design Techniques</p> <p>Day 7: In this session, the resource persons discussed the Software Test Documents.</p> <p>Day 8: Revision of module 1 takes place.</p> <p>Day 9: In this session, resource person discussed about the Black Box Testing.</p> <p>Day 10: In this session, resource person in lighting on Boundary Value Analysis and Equivalence class testing Decision Table.</p> <p>Day 11: In this session, resource person discussed about the White Box Testing and explain what is the need of white box Testing.</p> <p>Day 12: In this session, resource person explain Coverage, Path, Static, Inspection and Walkthrough.</p> <p>Day 13: In this session, Level of Testing, discussed by the resource person.</p> <p>Day 14: In this session resource person discuss on Functional Testing and System Testing.</p> <p>Day 15: In this session the resource person discuss Categories: Reliability</p>



	<p>Security and Performance Recovery.</p> <p>Day16:Theresourceperson hands on using Selenium tool, to explain automation testing.</p> <p>Day17:Theresourceperson taught about Functional Testing using UFT</p> <p>Day18:Inthissession resource person give hand on and explain how tool work for Test Management using JIRA.</p> <p>Day19:Thesessionwasabout theRegression Testing.</p> <p>Day20:Inthissession resource person discuss on API Testing, Database Testing</p>
Outcome ofActivity	<ul style="list-style-type: none">• Understand and describe the basic concepts of functional (black box) software testing.• Understand the basic application of techniques used to identify useful ideas for tests.• Characterize a good bug report, peer-review the reports of your colleagues, and improve your own report writing.



Mangalmay Institute of Management Technology
Greater Noida (U.P.)



ResourcePersonProfile

Name: Mr Krishna Kumar, Assistant Professor
Organization: MIMT
Core Skills: Data Security, Software testing
Qualification: MCA, M. Tech
Experience: 18 years
Research Area: Regression Testing



MANGALMAY
INSTITUTE OF MANAGEMENT TECHNOLOGY
Gr. NOIDA



CERTIFICATE OF COURSE COMPLETION

This is to certified the **ADITYA** student of BCA (Batch: 2022-25) has successfully completed **30 Hours** course on “**Software Testing tools and Techniques**” from **14-March-2023** to **17-May-2023**

PRINCIPAL
Mangalmay Institute of
Management & Technology

CONVENER
Mangalmay Institute of
Management Technology



2
1

Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Aditya

Year/Sem: I/II

Invigilator's Sign:

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

- 1) Which of the following is not part of the Test document?
 - a.) Test Case
 - b.) Requirements Traceability Matrix [RTM]
 - c.) Test strategy
 - d.) Project Initiation Note [PIN]
- 2) Which of the following is not a valid phase of SDLC (Software Development Life Cycle)?
 - a.) Testing Phase
 - b.) Requirement Phase
 - c.) Deployment phase
 - d.) Testing closure
- 3) Which of the following testing is also known as white-box testing?
 - a.) Structural testing
 - b.) Error guessing technique
 - c.) Design based testing
 - d.) None of the above
- 4) Which of the following testing is related to the boundary value analysis?
 - a.) White box and black box testing
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 - c.) Black box testing
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- 5) What are the different levels of Testing?
 - a.) Integration testing
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 - a.) User's end
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 - c.) Procedure Errors
 - d.) None of the mentioned
- 8) What is the best time to perform Regression testing?
 - a.) After the software has been modified
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- 11) Which term is used to define testing?
a.) Evaluating deliverable to find errors b.) Finding broken code (1)
c.) A stage of all projects d.) None of the above
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c.) Design based testing d.) None of the above
- 13) Functional testing is a -----?
a.) Test design technique b.) Test level (1)
c.) SDLC Model d.) Test type
- 14) Sanity testing is a -----?
a.) Test type b.) Test Execution Level (1)
c.) Test Level d.) Test design technique
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c.) User's and developer's end d.) None of the above

----- For Departmental use only -----

Max. Marks: 15

Marks Obtained: (14)

Name of Evaluator:

Rome Anwar

Sign.

Rome Anwar



Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Ankit

Year/Sem: I/II

Invigilator's Sign:

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Max. Marks: 15

Marks Obtained: 15

Name of Evaluator:

Sign.







Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: ISHA

Year/Sem: I/II

Invigilator's Sign:

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Max. Marks: 15

Marks Obtained: 11

Name of Evaluator:

Sign.

Rishu Kumar

Ran



Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: NISHA KUMARI

Year/Sem: I/II

Invigilator's Sign:

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Max. Marks: 15

Marks Obtained: 13

Name of Evaluator:

Sign.

Krishna Kumar

Kash



Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Yash Sarin

Year/Sem: I/II

Invigilator's Sign:

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Max. Marks: 15

Marks Obtained: 14

Name of Evaluator:

Sign.

Krishna Kumar

Ram



Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Tushar

Year/Sem: III

Invigilator's Sign:

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Max. Marks: 15

Marks Obtained: 13

Name of Evaluator:

Sign.

Krishna Kumar

[Signature]



Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Shreuti

Year/Sem: I/II

Invigilator's Sign:

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- 13) Functional testing is a -----?
a.) Test design technique b.) Test level (1)
c.) SDLC Model d.) Test type
- 14) Sanity testing is a -----?
a.) Test type b.) Test Execution Level (1)
c.) Test Level d.) Test design technique
- 15) In which environment we can performed the Alpha testing?
a.) User's end b.) Developer's end ✗
c.) User's and developer's end d.) None of the above ✗

----- For Departmental use only -----

Max. Marks: 15

Marks Obtained: 11

Name of Evaluator:

Sign.

Rehans Kumar

Ron



Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Syeeda

Year/Sem: I/II

Invigilator's Sign:

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

- 1) Which of the following is not part of the Test document?
 - a.) Test Case
 - b.) Requirements Traceability Matrix [RTM]
 - c.) Test strategy
 - d.) Project Initiation Note [PIN] (1)
- 2) Which of the following is not a valid phase of SDLC (Software Development Life Cycle)?
 - a.) Testing Phase
 - b.) Requirement Phase (1)
 - c.) Deployment phase
 - d.) Testing closure (1)
- 3) Which of the following testing is also known as white-box testing?
 - a.) Structural testing
 - b.) Error guessing technique
 - c.) Design based testing
 - d.) None of the above (X)
- 4) Which of the following testing is related to the boundary value analysis?
 - a.) White box and black box testing
 - b.) White-box testing (1)
 - c.) Black box testing
 - d.) None of the above
- 5) What are the different levels of Testing?
 - a.) Integration testing (1)
 - b.) Unit testing (X)
 - c.) System testing
 - d.) All of the above
- 6) In which environment we can performed the Alpha testing?
 - a.) User's end
 - b.) Developer's end (1)
 - c.) User's and developer's end
 - d.) None of the above
- 7) - What is the key objective of Integration testing?
 - a.) Design Errors
 - b.) Interface Errors
 - c.) Procedure Errors
 - d.) None of the mentioned (1)
- 8) What is the best time to perform Regression testing?
 - a.) After the software has been modified
 - b.) As frequently as possible (1)
 - c.) When the environment has been modified
 - d.) Both option a & c
- 9) In which environment we can perform the Beta testing?
 - a.) User's and developer's end
 - b.) Developer's end (1)
 - c.) User's end
 - d.) None of the above
- 10) When we have to stop the testing?
 - a.) The faults have been fixed
 - b.) All the tests run (1)
 - c.) The time completed
 - d.) The risk is resolved

- 11) Which term is used to define testing?
a.) Evaluating deliverable to find errors b.) Finding broken code
c.) A stage of all projects d.) None of the above
- 12) Which of the following testing is also known as white-box testing?
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- 13) Functional testing is a -----?
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----- For Departmental use only -----

Max. Marks: 15

Marks Obtained: 11

Name of Evaluator:

Sign.

Subhans Kumar

[Signature]



Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Nitish Kumar

Year/Sem: I/II

Invigilator's Sign:

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

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----- For Departmental use only -----

Max. Marks: 15

Marks Obtained: 13

Name of Evaluator:

K. Srinivas Kumar

Sign.





Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Sagar

Year/Sem: I/II

Invigilator's Sign: _____

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

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Mangalmai Institute of Management Technology
Greater Noida (U.P.)



Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Kalyana

Year/Sem: I/II

Investigator's Sign: [Signature]

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'.

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Max. Marks: 15 Marks Obtained: 09

Name of Evaluator: Selvaraj Kumar Sign: [Signature]