Date: 08/02/2019

To,
Mr. Chirag Panchal,
Microsoft Certified Trainer,
Mumbai

Sub.: Invitation as a Guest Speaker for Certificate Course on "Microsoft Certification in JAVA"

Respected Sir,

We are extremely happy to invite you **as a Guest Speaker for the Certificate Course in " Microsoft Certification in JAVA"** for our UG students starting from 15th. February 2019 to 4th March 2019 at 10.00 am.

Your session will inspire and motivate students by sharing real-world experiences and insights from your journey. Through your stories of triumphs and obstacles, attendees will gain valuable lessons, resilience, and strategies to overcome challenges on their own paths to success.

Prof. Mahesh Deshmukh, IQAC Convener will coordinate with you regarding the guest lecture.

Thank you very much in anticipation.

Yours Faithfully,

(Dr. Kiran J. Save)
Principal

PRINCIPAL
Sonopant Dandekar Arts College,
V.S. Apte Commerce College &
M.H. Mehta Science College
PALGHAR (W.R.)
Dist. Palghar, Pin-401404

<u>NOTICE</u>

Department of Computer Science

All students of Bsc (CS) have been informed that the Department of CS is going to start a Certificate Course on "Microsoft certification in JAVA" from 15th February 2019 from to 4th March 2019" at 10:00 am onwards.

Mr. Chirag Panchal is the trainer who is Microsoft certified professional.

Those who want to enroll for this course have to give their names to Prof.Rashmi Varade.

Mrs. Rashmi Varade
Head of the Department
Computer Science

List of Participants:

JAVA CERTIFICATION	
Sr no	Name of the student
1	Anjali Wagh
2	Priya Sharma
3	Priti Parande
4	Aparna Jha
5	Ritu Jha
6	Ketaki Pujari
7	Yash Pagdhare
8	Jay Chamare
9	Deep Meher
10	Henri Dandekar
11	Harshada Prajapati
12	Smriti Thakur
13	pooja patil
14	Fahim Ansari
15	Anand prasad
16	Ziya
17	Safar
18	Gaurav
19	Aadarsh
20	Ajay
21	Dinesh

Report:-

Event Name:-Microsoft Java certification course

Date:-15-02-2019

No.Of students' enrolled-21

Details of course:-

Java Certification Training

 In Java Certification Training we provide the following things to students.

1. Industry Expert Training by Certified Trainer
2. Exam practice questions and two online mock test
3. Software development tools and IDE
4. Interview Preparation Questions and Solutions on JAVA
5. Programming Tips and Tricks with Logic with practical teaching

Duration: 40 Hours Including Practical.

Course Content:

- **JAVA BASICS**

    1. Define the scope of variables

    2. Define the structure of a Java class

    3. Create executable Java applications with a main method

    4. Import other Java packages to make them accessible in your code

- **WORKING WITH JAVA DATA TYPES**

    1. Declare and initialize variables

    2. Differentiate between object reference variables and primitive variables

    3. Read or write to object fields

    4. Explain an Object's Lifecycle (creation, "dereference" and garbage collection)

    5. Call methods on objects

    6. Manipulate data using the StringBuilder class and its methods

    7. Creating and manipulating Strings

- **USING OPERATORS AND DECISION CONSTRUCTS**

  1. Use Java operators

  2. Use parentheses to override operator precedence

  3. Test equality between Strings and other objects using == and equals ()

  4. Create if and if/else constructs
  5. Use a switch statement

- **CREATING AND USING ARRAYS**

  1. Declare, instantiate, initialize and use a one-dimensional array

  2. Declare, instantiate, initialize and use multi-dimensional array

  3. Declare and use an ArrayList

- **USING LOOP CONSTRUCTS**

  1. Create and use while loops

  2. Create and use for loops including the enhanced for loop

  3. Create and use do/while loops

  4. Compare loop constructs

  5. Use break and continue

- **WORKING WITH METHODS AND ENCAPSULATION**

  1. Create methods with arguments and return values

  2. Apply the static keyword to methods and fields

  3. Create an overloaded method

  4. Differentiate between default and user defined constructors

  5. Create and overload constructors

  6. Apply access modifiers

  7. Apply encapsulation principles to a class

  8. Determine the effect upon object references and primitive values when they are passed into methods that change the values

- **WORKING WITH INHERITANCE**

  1. Implement inheritance

  2. Develop code that demonstrates the use of polymorphism

3. Differentiate between the type of a reference and the type of an object

4. Determine when casting is necessary

5. Use super and this to access objects and constructors

6. Use abstract classes and interfaces

- **HANDLING EXCEPTIONS**

  1. Differentiate among checked exceptions, RuntimeExceptions and Errors

  2. Create a try-catch block and determine how exceptions alter normal program flow

  3. Describe what Exceptions are used for in Java

  4. Invoke a method that throws an exception

  5. Recognize common exception classes and categories

- **JAVA CLASS DESIGN**

  1. Use access modifiers: private, protected, and public
  2. Override methods

  3. Overload constructors and methods

  4. Use package and import statements

- **ADVANCED CLASS DESIGN**

  1. Identify when and how to apply abstract classes

  2. Construct abstract Java classes and subclasses

  3. Use the static and final keywords

  4. Write code that declares, implements and/or extends interfaces

  5. Choose between interface inheritance and class inheritance

- **GENERICS AND COLLECTIONS**

  1. Create a generic class

  2. Sort and search arrays and lists

- **STRING PROCESSING**

  1. Search, parse, and replace strings by using string functions
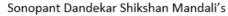- **EXCEPTIONS AND ASSERTIONS**

- **JAVA I/O FUNDAMENTALS**

- **BUILDING DATABASE APPLICATIONS WITH JDBC**

    1. Describe the interfaces that make up the core of the JDBC API (including the Driver, Connection, Statement, and ResultSet interfaces and their relationship to provider implementations)

    2. Identify the components required to connect to a database using the DriverManager class (including the jdbc URL)

    3. Submit queries and read results from the database (including creating statements, returning result sets, iterating through the results, and properly closing result sets, statements, and connections)

    4. Use JDBC transactions (including disabling auto-commit mode, committing and rolling back transactions, and setting and rolling back to savepoints)

    5. Construct and use RowSet objects using the RowSetProvider class and the

       RowSetFactory interface
    6. Create and use PreparedStatement and CallableStatement objects

- **Java Swing and AWT**

Students Benefits of Java Certification Training:

1) Industry Level Certification Training by Certified Trainer
2) Java Certification Training Material (Study Guides in PDF Form)
3) Software Tools and IDE
4) Interview Preparation Questions and Answers

Date: 04/03/2019

To,
Mr. Chirag Panchal,
Microsoft Certified Trainer,
Mumbai

Subject : Letter of Appreciation.

Respected Sir,

Thank you very much for delivering an informative & thought-provoking Lecture on **Certificate Course in " Microsoft Certification in JAVA"** for the UG students held on **"15th. February 2019 to 4th March 2019 at 10.00 am".**
The session offered students and teachers valuable guidance and inspiration as they navigate their own paths towards the successful journey.

I'm excited about the prospect of elevating our collaboration to remarkable heights.

Your expertise and willingness to share knowledge are truly appreciated.

Yours faithfully,

(Prof. Mahesh Deshmukh)
IQAC Convener

(Dr. Kiran J. Save)
Principal

PRINCIPAL
Sonopant Dandekar Arts College,
V.S. Apte Commerce College &
M.H. Mehta Science College
PALGHAR (W.R.)
Dist. Palghar, Pin-401404