SEGUM ASTITUTE OF THE OF

SILIGURI INSTITUTE OF TECHNOLOGY

Department of Computer Science & Engineering Report on Industrial Training on Data Structure with C

Training Details:

Training on Data Structure with C Resource Organization: ARDENT

Training Date: 17th August 2020 to 31st August 2020

Venue: **ONLINE MODE**

Student: 3rd Year CSE (6th Semester)

Students Enrolled: 96

Students Completed Successfully: 96

Pass Out Year: 2021

Feedback Analysis: Attached

Student List: Attached

Introduction:

Data Structures is a concept a means of storing a collection of data. Computer Science is a concern with study of methods for effectively using a computer to solve problems. These can be solved by algorithms and data structures. Data Structures tells you what way the data as to store in computer memory and how to access the data efficiently. Many Applications are designed by data structures stack applications like page visited history in a web-browser, chain of method calls in the Java virtual machine or C++ Run-time environment etc. Queue Application Like Waiting Lines, Multi-programming etc. For many applications the choice of proper data structure is the only major decision involving the implementation. Majorly the database designing and internal implementation is done only by using Data Structures techniques through C programming language.

Training Objective:

This Course main objective for the student to understand Analysis and Designing of the Algorithms and how the different data structures are used for efficient accessing of the data and Manipulation of the data at the end of the session we can able to know different Kinds of data structures and we can able to provide different algorithms for time and space complexity.

TRAINING OUTCOME:

After completed the training student will able to

- Understand the concept of data structures and its relevance in computer science.
- ❖ Familiarize with selected linear and nonlinear data structures.
- Enhance skill in programming in C.

Training Methodology:

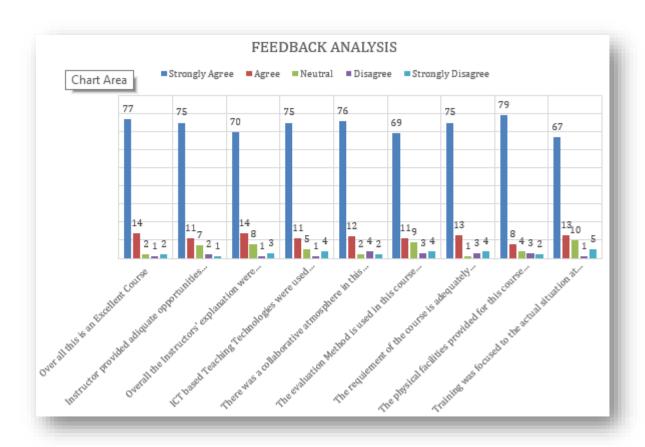
- Hands on practice approach to training, behavioral model of training would be practiced.
- During the training, the Trainee would implement a project related to respective modules.

- Commitment to Individual growth and constant evaluation.
- Implementation of programming techniques through a Project using C language.

Summary of the program:

The following points can be noted from the program.

- ❖ At the beginning of the training trainer has clearly described the basic Introduction Data structure and c programming skill and its application in industries in different areas.
- Students had done many programming by themselves during the trainings.
- ❖ During the training some students raised their queries and the trainer had explained all the quarries of the students.
- ❖ At the end of the training an online exam was conducted.
- ❖ As per the feedback received from the students' end, the entire session was really fruitful
- ❖ and enjoyable and the students have learned many things about C Programming skill.



| SN | ROLLNO | NAME | Remarks |
|----|-------------|-------------------------|------------------------|
| 1 | 11900117007 | VISHAL GUPTA | Successfully Completed |
| 2 | 11900117008 | TAUSIF KHAN | Successfully Completed |
| 3 | 11900117009 | TANUSREE HALDER | Successfully Completed |
| 4 | 11900117010 | TANUSHREE PANDIT | Successfully Completed |
| 5 | 11900117011 | SWATI SINGH | Successfully Completed |
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| 7 | 11900117013 | SURABHI GOPE | Successfully Completed |
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| 11 | 11900117017 | SOURAV GHOSH | Successfully Completed |
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| 13 | 11900117019 | SHUBHANGKAR CHAKRABORTY | Successfully Completed |
| 14 | 11900117020 | SHRITHI BASUMATA | Successfully Completed |
| 15 | 11900117021 | SHREYAM SAHA | Successfully Completed |
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| 96 | 11900118010 | ARIT MAJUMDAR | Successfully Completed |



SILIGURI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Report on Industrial Training on ML With Python

Training Details:

Training on Machine Learning with PYTHON

Resource Organization: ARDENT

Training Date: 16th September 2019 to 20th September 2019

Venue: **ONLINE MODE**

Student: 3rd Year CSE (6th Semester)

Students Enrolled: 92

Students Completed Successfully: 92

Pass Out Year: 2020

Feedback Analysis: **Attached**

Student List: Attached

Introduction:

Artificial Intelligence (AI), Machine Learning (ML) and Data Science (DS) are the pillars of the fourth industrial revolution. ML is an application of AI which allows computers to automatically learn from data without being explicitly programmed. Python has been designed with the provision for creating Machine Learning algorithms. Python is preferred as the best and robust platform for Machine Learning systems. Python also has numerous libraries for machine learning, data manipulation and analysis as well as a very active development community that continuously updates and creates new packages. It has been adopted by a wide variety of industries and applications including Data Science, Machine Learning, Data Analytics, Predictive Analytics, Business Intelligence and Web Analytics. This workshop aims to explore Python Programming right from installation, fundamentals to Machine Learning algorithms.

The Training session covered the basic algorithm that helps us to build and apply prediction functions with an emphasis on practical applications. **Training Objectives**

Main objectives of training were to learn:

- •How to determine and measure program complexity,
- Python Programming
- •ML Library Scikit, Numpy, Matplotlib, Pandas, Theano, TensorFlow
- •Statistical Math for the Algorithms.
- •Learning to solve statistics and mathematical concepts.
- Supervised and Unsupervised Learning
- •Classification and Regression
- •ML Algorithms
- •Machine Learning Programming and Use Cases.

The outcomes of this workshop are:

Understand the components of a Machine Learning algorithm.

- Apply Machine Learning tools to build and evaluate predictors
- How Machine Learning uses computer algorithms to search for patterns in data
- How to uncover hidden themes in large collections of documents using topic modeling
- How to prepare data, deal with missing data and create custom data analysis solutions for different industries
- Familiarity with Python installation, syntax and design

Why Python Is a Perfect Language for Machine Learning?

- 1. **A great library ecosystem -** A great choice of libraries is one of the main reasons Python is the most popular programming language used for AI. A library is a module or a group of modules published by different sources which include a pre-written piece of code that allows users to reach some functionality or perform different actions. Python libraries provide base level items so developers don't have to code them from the very beginning every time. ML requires continuous data processing, and Python's libraries let us access, handle and transform data. These are some of the most wide spread libraries we can use for ML and AI:
- Scikit-learnfor handling basic ML algorithms like clustering, linear and logistic regressions, regression, classification, and others.
- Pandasfor high-level data structures and analysis. It allows merging and filtering of data, aswell as gathering
 it from other external sources like Excel, for instance.
- Kerasfor deep learning. It allows fast calculations and prototyping, as it uses the GPU inaddition to the CPU of the computer.
- TensorFlowfor working with deep learning by setting up, training, and utilizing artificialneural networks with massive datasets.
- Matplotlibfor creating 2D plots, histograms, charts, and other forms of visualization.
- NLTK f or working with computational linguistics, natural language recognition, and processing.
- Scikit-imagefor image processing.
- PyBrainfor neural networks, unsupervised and reinforcement learning.
- Caffefor deep learning that allows switching between the CPU and the GPU
- StatsModelsfor statistical algorithms and data exploration.

In the PyPI repository, we can discover and compare more python libraries.

2. **A low entry barrier** -Working in the ML and AI industry means dealing with a bunch of data that we need to process in the most convenient and effective way. The low entry barrier allows more data scientists to quickly pick up Python and start using it for AI development without wasting too much effort into learning the language.

In addition to this, there's a lot of documentation available, and Python's community is always there to help out and give advice

- 3. Flexibility- Python for machine learning is a great choice, as this language is very flexible:
 - It offers an option to choose either to use OOPs or scripting.
 - There's also no need to recompile the source code, developers can implement any
 - changes and quickly see the results.
 - Programmers can combine Python and other languages to reach their goals.
- 4. **Good Visualization Options-** For AI developers, it's important to highlight that in artificial intelligence, deep learning, and machine learning, it's vital to be able to represent data in a human-readable format. Libraries like Matplotlib allow data scientists to build charts, histograms, and plots for better data comprehension, effective presentation, and visualization. Different application programming interfaces also simplify the visualization process and make it easier to create clear reports.

- 5. **Community Support-** It's always very helpful when there's strong community support built around the programming language. Python is an open-source language which means that there's a bunch of resources open for programmers starting from beginners and ending with pros. A lot of Python documentation is available online as well as in Python communities and forums, where programmers and machine learning developers discuss errors, solve problems, and help each other out. Python programming language is absolutely free as is the variety of useful libraries and tools.
- 6. **Growing Popularity-**As a result of the advantages discussed above, Python is becoming more and more popular among data scientists. According to Stack Overflow, the popularity of Python is predicted to grow until 2020, at least. This means it's easier to search for developers and replace team players if required. Also, the cost of their work maybe not as high as when using a less popular programming language Data Preprocessing, Analysis & Visualization Machine Learning algorithms don't work so well with processing raw data. Before we can feed such data to an ML algorithm, we must preprocess it. We must apply some transformations on it. With data preprocessing, we convert raw data into a clean data set.

To perform data this, there are 7 techniques -

- 1. Rescaling Data -For data with attributes of varying scales, we can rescale attributes to possess the same scale. We rescale attributes into the range 0 to 1 and call it normalization. We use the Min Max Scaler class from scikit-learn. This gives us values between 0 and 1.
- 2. Standardizing Data -With standardizing, we can take attributes with a Gaussian distribution and different means and standard deviations and transform them into a standard Gaussian distribution with a mean of 0 and a standard deviation
- 3. Normalizing Data -In this task, we rescale each observation to a length of 1 (a unit norm). For this, we use the Normalizer class.
- 4. Binarizing Data -Using a binary threshold, it is possible to transform our data by marking the values above it 1 and those equal to or below it, 0. For this purpose, we use the Binarizer class.
- 5. Mean Removal-We can remove the mean from each feature to center it on zero.
- 6. One Hot Encoding -When dealing with few and scattered numerical values, we may not need to store these. Then, we can perform One Hot Encoding. For k distinct values, we can transform the feature into a k-dimensional vector with one value of 1 and 0 as the rest values.
- 7. Label Encoding -Some labels can be words or numbers. Usually, training data is labelled with words to make it readable. Label encoding converts word labels into numbers to let algorithms work on them

Machine Learning Algorithms:

There are many types of Machine Learning Algorithms specific to different use cases. As we work with datasets, a machine learning algorithm works in two stages. We usually split the data around 20%-80% between testing and training stages. Under supervised learning, we split a dataset into a training data and test data in Python ML. Followings are the Algorithms of Python Machine Learning -

- **1. Linear Regression-**Linear regression is one of the supervised Machine learning algorithms in Python that observes continuous features and predicts an outcome. Depending on whether it runs on a single variable or on many features, we can call it simple linear regression or multiple linear regression. This is one of the most popular Python ML algorithms and often under-appreciated. It assigns optimal weights to variables to create a line ax+b to predict the output. We often use linear regression to estimate real values like a number of calls and costs of houses based on continuous variables. The regression line is the best line that fits Y=a*X+b to denote a relationship between independent and dependent variables.
- **2. Logistic Regression** -Logistic regression is a supervised classification is unique Machine Learning algorithms in Python that find sits use in estimating discrete values like 0/1, yes/no, and true/false. This is based on a given set of independent variables. We use a logistic function to predict the probability of an event and this gives us an output between 0 and 1. Although it says 'regression', this is actually a classification algorithm. Logistic

regression fits data into a logit function and is also called logit regression.

- **3. Decision Tree -**A decision tree falls under supervised Machine Learning Algorithms in Python and comes of use for both classification and regression- although mostly for classification. This model takes an instance, traverses the tree, and compares important features with a determined conditional statement. Whether it descends to the left child branch or the right depends on the result. Usually, more important features are closer to the root. Decision Tree, a Machine Learning algorithm in Python can work on both categorical and continuous dependent variables. Here, we split a population into two or more homogeneous sets. Tree models where the target variable can take a discrete set of values are called classification trees; in these tree structures, leave represent class labels and branches represent conjunctions of features that lead to those class labels. Decision trees where the target variable can take continuous values (typically real numbers) are called regression trees.
- **4. Support Vector Machine (SVM)-**SVM is a supervised classification is one of the most important Machines Learning algorithms in Python, that plots a line that divides different categories of your data. In this ML algorithm, we calculate the vector to optimize the line. This is to ensure that the closest point in each group lies farthest from each other. While you will almost always find this to be a linear vector, it can be other than that. An SVM model is are presentation of the examples as points in space, mapped so that the examples of the separate categories are divided by a clear gap that is as wide as possible. In addition to performing linear classification, SVMs can efficiently perform a non-linear classification using what is called the kernel trick, implicitly mapping their inputs into high-dimensional feature spaces. When data are unlabeled, supervised learning is not possible, and an unsupervised learning approach is required, which attempts to find natural clustering of the data to groups, and then map new data to these formed groups.
- **5. Naïve Bayes Algorithm -** Naive Bayes is a classification method which is based on Bayes' theorem. This assumes independence between predictors. A Naive Bayes classifier will assume that a feature in a class is unrelated to any other. Consider a fruit. This is an apple if it is round, red, and 2.5 inches in diameter. A Naive Bayes classifier will say these characteristics independently contribute to the probability of the fruit being an apple. This is even if features depend on each other. For very large data sets, it is easy to build a Naive Bayesian model. Not only is this model very simple, it performs better than many highly sophisticated classification methods. Naïve Bayes classifiers are highly scalable, requiring a number of parameters linear in the number of variables (features/predictors) in a learning problem. Maximum-likelihood training can be done by evaluating a closed-form expression, which takes linear time, rather than by expensive iterative approximation as used for many other types of classifiers.
- **6. k NN Algorithm** -This is a Python Machine Learning algorithm for classification and regression- mostly for classification. This is a supervised learning algorithm that considers different centurions and uses a usually Euclidean function to compare distance. Then, it analyzes the results and classifies each point to the group to optimize it to place with all closest points to it. It classifies new cases using a majority vote of k of its neighbors. The case it assigns to a class is the one most common among its K nearest neighbors. For this, it uses a distance function. k-NN is a type of instance-based learning, or lazy learning, where the function is only approximated locally and all computation is deferred until classification.

k-NN is a special case of a variable- bandwidth, kernel density "balloon" estimator with a uniform kernel.

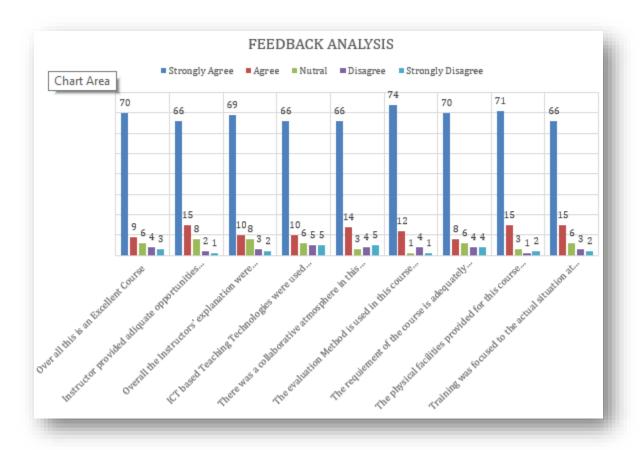
7. K-Means Algorithm -k-Means is an unsupervised algorithm that solves the problem of clustering. It classifies data using a number of clusters. The data points inside a class are homogeneous and heterogeneous to peer groups. k-means clustering is a method of vector quantization, originally from signal processing, that is popular for cluster analysis in data mining. k -means clustering aims to partition n observations into k-clusters in which each observation belongs to the cluster with the nearest mean, serving as a prototype of the cluster.

k-means clustering is rather easy to apply to even large data sets, particularly when using heuristics such as Lloyd's algorithm. It often is used as a preprocessing step for other algorithms, for example to find a starting configuration. The problem is computationally difficult(NP-hard). k-means originates from signal processing, and still finds use in this domain. In cluster analysis, the k-means algorithm can be used to partition the input data set into k partitions (clusters).

k-means clustering has been used as a feature learning (or dictionary learning) step, in either(semi-)supervised learning or unsupervised learning.

8.Random Forest - A random forest is an ensemble of decision trees. In order to classify every new object based on it s attributes, trees vote for class- each tree provides a classification. The classification with the most votes win sin the forest. Random forests or random decision forests are an ensemble learning method for classification, regression and other tasks that operates by constructing a multitude of decision trees at training time and outputting the class that is the mode of the classes (classification) or mean prediction (regression) of the individual trees.

Feedback Analysis:



| SN | ROLL NO | NAME | Remarks |
|----|-------------|----------------|------------------------|
| 1 | 11900116005 | VAIBHAV KAMANI | Successfully Completed |
| 2 | 11900116006 | TANMAY MISHRA | Successfully Completed |

| 3 | 11900116007 | SWATI SUMAN | Successfully Completed |
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SILIGURI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERINGIndustrial Training Report on Big Data/Hadoop

Training Details:

Training on Big Data / Hadoop Resource Organization: I & WE

Training Date: 18th January 2018 to 28th January 2018

Venue: SIT, OT&UML Lab

Student: 3rd Year CSE (6th Semester)

Students Enrolled: **95**

Students Completed Successfully: 95

Pass Out Year: 2019

Feedback Analysis: Attached

Student List: Attached

Introduction

Hadoop is an open-source framework that allows to store and process big data in a distributed environment across clusters of computers using simple programming models. It is designed to scale up from single servers to thousands of machines, each offering local computation and storage. In the Training provides a quick introduction to Big Data, Map Reduce algorithm, and Hadoop Distributed File System.

Training Objective:

- Upon completion of this course, participants will be able to:
- Understand fundamentals of Concepts in Bigdata and hadoop etc
- Understand fundamentals of Hadoop etc.
- Be able to use the HDFS file system, debug and run simple Java programs for hdfs.
- Be aware of the important topics and principles of software development and write better &more maintainable code
- Be able to program using advanced Java topic like JDBC, Servlets and JSP.

What is Big Data?

Big data means really a big data, it is a collection of large datasets that cannot be processed using traditional computing techniques. Big data is not merely a data, rather it has become a complete subject, which involves various tools, techniques and frameworks.

Advantages of Hadoop:

- Hadoop framework allows the user to quickly write and test distributed systems. It is efficient, and it automatic distributes the data and work across the machines and in turn, utilizes the underlying parallelism of the CPU cores.
- Hadoop does not rely on hardware to provide fault-tolerance and high availability (FTHA), rather Hadoop library itself has been designed to detect and handle failures at the application layer.

- Servers can be added or removed from the cluster dynamically and Hadoop continues to operate without interruption.
- Another big advantage of Hadoop is that apart from being open source, it is compatible on all the platforms since it is Java based.

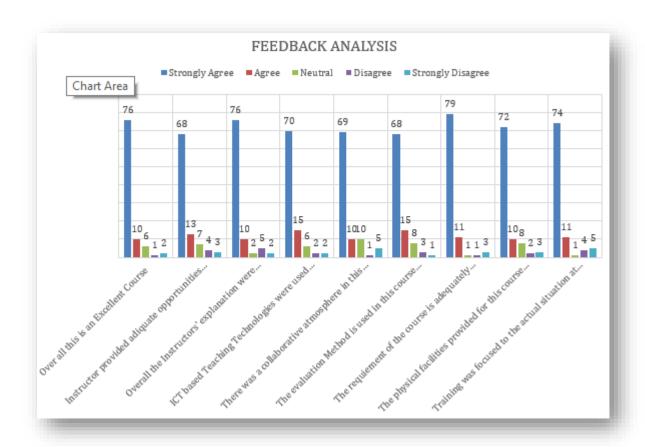
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| 1 | 11900115001 | ABHISHEK | Successfully Completed |
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SILIGURI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERINGIndustrial Training Report on Big Data/Hadoop

Training Details:

Training on Big Data / Hadoop Resource Organization: I & WE

Training Date: 16th July 2017 to 17th July 2018

Venue: SIT, OT&UML Lab

Student: 3rd Year CSE (6th Semester)

Students Enrolled: 87

Students Completed Successfully: 87

Pass Out Year: 2018

Feedback Analysis: **Attached**

Student List: Attached

Introduction

Hadoop is an open-source framework that allows to store and process big data in a distributed environment across clusters of computers using simple programming models. It is designed to scale up from single servers to thousands of machines, each offering local computation and storage. In the Training provides a quick introduction to Big Data, Map Reduce algorithm, and Hadoop Distributed File System.

Training Objective:

- Upon completion of this course, participants will be able to:
- Understand fundamentals of Concepts in Bigdata and hadoop etc
- Understand fundamentals of Hadoop etc.
- Be able to use the HDFS file system, debug and run simple Java programs for hdfs.
- Be aware of the important topics and principles of software development and write better &more maintainable code
- Be able to program using advanced Java topic like JDBC, Servlets and JSP.

What is Big Data?

Big data means really a big data, it is a collection of large datasets that cannot be processed using traditional computing techniques. Big data is not merely a data, rather it has become a complete subject, which involves various tools, techniques and frameworks.

Advantages of Hadoop:

- Hadoop framework allows the user to quickly write and test distributed systems. It is efficient, and it automatic distributes the data and work across the machines and in turn, utilizes the underlying parallelism of the CPU cores.
- Hadoop does not rely on hardware to provide fault-tolerance and high availability (FTHA), rather Hadoop library itself has been designed to detect and handle failures at the application layer.

- Servers can be added or removed from the cluster dynamically and Hadoop continues to operate without interruption.
- Another big advantage of Hadoop is that apart from being open source, it is compatible on all the platforms since it is Java based.

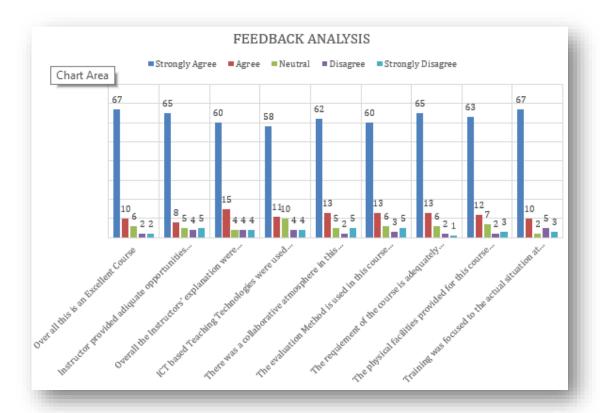
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- Hands on practice approach to training, behavioral model of training would be practiced.
- During the training, the Trainee would implement a project related to respective modules.
- Commitment to Individual growth and constant evaluation.
- Implementation of programming techniques through a Project.

Summary of the program:

The following points can be noted from the program.

- ❖ At the beginning of the training trainer has clearly described the basic Introduction to java its application in industries in different areas.
- Students had done many data analysis algorithm by themselves during the trainings.
- During the training some students raised their queries and the trainer had explained all the quarries of the students.
- ❖ At the end of the training an online exam was conducted.
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| 87 | 11900115099 | SHRADHANJALI PRADHAN | Successfully Completed |



SILIGURI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Industrial Training Report on Advanced JAVA

Training Details:

Training on Big Data / Hadoop

Resource Organization: NSIC

Training Date: 1st August 2016 to 12th August 2016

Venue: SIT, Programming Lab I/SIT, Programming Lab II/OT&UML Lab

Student: 3rd Year CSE (6th Semester)

Students Enrolled: 70

Students Completed Successfully: 70

Pass Out Year: 2017

Feedback Analysis: Attached

Student List: Attached

Introduction:

Apart from University requirement, Java is also a pre-requisite for learning latest technologies like Android and Big Data. In order to prepare and make students ready for industry Computer science department has carved out a course that specifically aligns with industry requirements and conducted by industry experts.

In this training session students learned basic object oriented concepts such as inheritance, encapsulation, and abstraction. They learn how to create and use simple Java classes containing arrays, loops, and conditional constructs. They also learn to use and manipulate object references, and to write simple error handling code. They also learned some advance topic like JDBC connectivity, JSP, Servlates.

Training Objective:

Upon completion of this course, participants will be able to:

- Understand fundamentals of Java programming such as variables, conditional and iterative execution, methods, etc
- Understand fundamentals of object-oriented programming using Java, including defining classes, invoking methods, using class libraries, etc.
- Be able to use the Java SDK environment to create, debug and run simple Java programs
- Be aware of the important topics and principles of software development and write better &more maintainable code
- Be able to program using advanced Java topic like JDBC, Servlets and JSP.

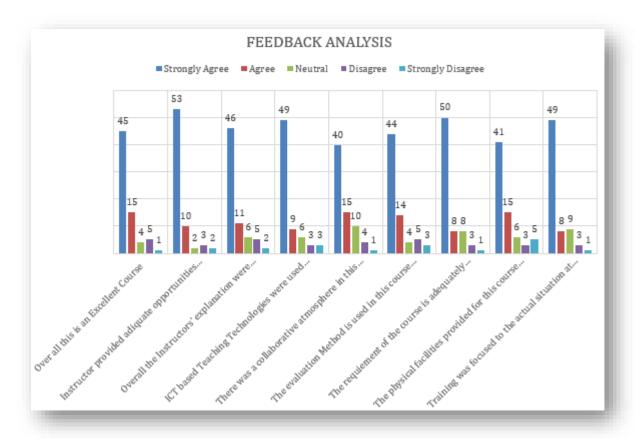
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| 30 11900113034 NEHA SINGH Successfully Completed 31 11900113035 NIRAJ SONAR Successfully Completed 32 11900113036 PRABHAKAR PAUL Successfully Completed 33 11900113037 PRAGYA KUMARI Successfully Completed 34 11900113038 PRASANJIT BANIK Successfully Completed 35 11900113039 PRITAM KUMAR GHOSH Successfully Completed 36 11900113040 PRITI KUMARI Successfully Completed 37 11900113041 PRIYANKA KUMARI Successfully Completed 38 11900113042 PRONIL CHAKRABORTY Successfully Completed 39 11900113043 PUJA HALDER Successfully Completed 40 11900113044 PUJA PANDEY Successfully Completed 41 11900113045 PURBASHA MAJUMDER Successfully Completed 42 11900113046 RAJ KUMAR MANDAL Successfully Completed | 28 | 11900113032 | MRINAL BARMAN | Successfully Completed |
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| 35 11900113039 PRITAM KUMAR GHOSH Successfully Completed 36 11900113040 PRITI KUMARI Successfully Completed 37 11900113041 PRIYANKA KUMARI Successfully Completed 38 11900113042 PRONIL CHAKRABORTY Successfully Completed 39 11900113043 PUJA HALDER Successfully Completed 40 11900113044 PUJA PANDEY Successfully Completed 41 11900113045 PURBASHA MAJUMDER Successfully Completed 42 11900113046 RAJ KUMAR MANDAL Successfully Completed | 33 | 11900113037 | PRAGYA KUMARI | Successfully Completed |
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| 3711900113041PRIYANKA KUMARISuccessfully Completed3811900113042PRONIL CHAKRABORTYSuccessfully Completed3911900113043PUJA HALDERSuccessfully Completed4011900113044PUJA PANDEYSuccessfully Completed4111900113045PURBASHA MAJUMDERSuccessfully Completed4211900113046RAJ KUMAR MANDALSuccessfully Completed | 35 | 11900113039 | PRITAM KUMAR GHOSH | Successfully Completed |
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| | 41 | 11900113045 | PURBASHA MAJUMDER | Successfully Completed |
| 43 11900113047 RASHMI GUPTA Successfully Completed | 42 | 11900113046 | RAJ KUMAR MANDAL | Successfully Completed |
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| 45 11900113051 ROHIT KUMAR JAISWAL Successfully Completed 46 11900113052 SADAF FARHEEN Successfully Completed 47 11900113055 SHISHU KUMAR PAL Successfully Completed 48 11900113056 SHOMIK PAUL Successfully Completed 49 11900113057 SHRAMANA ROY Successfully Completed 50 11900113058 SHRUTI Successfully Completed 51 11900113059 SHUBHAM SAGAR Successfully Completed 52 11900113060 SHUBHAM VERMA Successfully Completed 53 11900113061 SON JUHI Successfully Completed 54 11900113062 SOUVIK ROY Successfully Completed 55 11900113063 SRADDHA CHAKRABORTY Successfully Completed |
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| 56 11900113064 SRISTY AGARWAL Successfully Completed |
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| 58 11900113066 SUBHAM PANDEY Successfully Completed |
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| 60 11900113068 SUJIT ROY Successfully Completed |
| 61 11900113069 SUMAN KUMAR Successfully Completed |
| 62 11900113070 SUMITA DEY Successfully Completed |
| 63 11900113071 SUNNY KUMAR Successfully Completed |
| 64 11900113072 TORSHA SARKAR Successfully Completed |
| 65 11900113073 VIKASH CHAND SINGH Successfully Completed |
| 66 11900113074 VISHAL GAURAV Successfully Completed |
| 67 11900113075 VIVEK KUMAR SINGH Successfully Completed |
| 68 11900114083 ANJU KUMARI PRASAD Successfully Completed |
| 69 11900114084 SEVIKA GUPTA Successfully Completed |
| 70 11900114085 SUDESHNA GHOSH Successfully Completed |