

Report for the workshop on OOP with C++/JAVA on 11.03.19 to 15.03.19 for 2nd year 2021 pass out students.

The major motivating factor in the invention of object-oriented approach is to remove some of the flaws encountered in the procedural approach. OOP treats data as a critical element in the program development and does not allow it to flow freely around the system. It ties data more closely to the function that operate on it, and protects it from accidental modification from outside function. OOP allows decomposition of a problem into a number of entities called objects and then builds data and function around these objects. The data of an object can be accessed only by the function associated with that object. However, function of one object can access the function of other objects. OOP offers several benefits to both the program designer and the user. Object Orientation contributes to the solution of many problems associated with the development and quality of software products. The new technology promises greater programmer productivity, better quality of software and lesser maintenance cost. OOP has become one of the programming buzzwords today. There appears to be a great deal of excitement and interest among software engineers in using OOP. Applications of OOP are beginning to gain importance in many areas. The most popular application of object-oriented programming, up to now, has been in the area of user interface design such as window. Hundreds of windowing systems have been developed, using the OOP techniques. The facilities that C++ adds on to C care classes, inheritance, function overloading and operator overloading. These features enable creating of abstract data types, inherit properties from existing data types and support polymorphism, thereby making C++ a truly object-oriented language.

Objective of the training: Students will be explored to understand the basic areas and applications of OOP with C++/ JAVA. They also acquire the skills to apply OOP in real time system, simulation and modeling, Decision support and office automation systems, Object-oriented data bases, Neural networks and parallel programming etc.

Outcome of the program:

Students will be able to:

- Able to exhibit knowledge to understand the preliminary concept about OOP with C++ /JAVA.
- Able to apply OOP in real time, simulations, modeling, automation, office system etc. .

The program details are as below:

Title of training	: OOPs with C++/JAVA
Resource Organiza	tion: Ardent Computech
Date	: 11/03/2019-15/03/2019
Name of Trainer	: Mr. Debasish Sahoo
Venue	: Seminar Hall, Deptt. Of EE, S.I.T
Summary of the pr	ogram.

The following points can be noted from the program

- > At the beginning of the training and in day one and two Mr. Debasish Sahoo has clearly described the basic theories of C, C++, OOP, JAVA, its application in industries in different areas with the students.
- > The students were asked to bring their laptops for programing and the trainer instructed and taught the students the different programming on the basis of the theories they have learned.
- Students had done many programing by themselves during the trainings.
- > At the end of the training an online exam was conducted.

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During the training some students raised their queries and the trainer had explained all the quarries The attendance record of the students throughout the training is given below:

1st half	12/3/2010	Atter	dance		2 3 4 5 4		
41 2nd half	Ist half 2nd 1	13/03/19		14/03/19		15/03/19	
36	25 2nd half	1st half	2nd half	1st half	2nd half	1st half	2nd half
-	6	28	21	22	21	22	18

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As per the feedback received from the students end, the entire session was really fruitful and enjoyable and this kind of training program may be for longer period in future for such

Feedback analysis for the event:



Some Glimpses during the training





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Report for the training on Python during 02/04/19 to 08/04/19 for 1st year 2023 pass out EE and ECE students.

Python is a widely used general-purpose, high-level programming language. Its design philosophy emphasizes code readability, and its syntax allows programmers to express concepts in fewer lines of code than would be possible in languages such as C, C++ or Java. The language provides constructs intended to enable clear programs on both a small and large scale.

Python supports multiple programming paradigms, including object-oriented, imperative and functional programming or procedural styles. It features a dynamic type system and automatic memory management and has a large and comprehensive standard library.

Python is a programming language that lets you work more quickly and integrate your systems more effectively. You can learn to use Python and see almost immediate gains in productivity and lower

Python runs on Windows, Linux/Unix, Mac OS X, and has been ported to the Java and .NET virtual Python is free to use, even for commercial products, because of its OSI-approved open source license.

Objective of the training: Students will be explored to understand the basic areas and applications of Python. They also acquire the skill set needed to deal with the challenges involved in real-world programming and scripting issues and embedded technologies to meet the needs of industry both today and in the future.

Outcome of the program:

Students will be able to:

- Able to exhibit knowledge to understand the preliminary concept about Python.
- Able to apply Python in real time, embedded and in modern technologies.

The program details are as below:

Title of training : Python Resource Organization: Ardent Computech : 02/04/2019-08/04/2019 Date : Mr. Arnab Chakraborty Name of Trainer : Control System Lab, Deptt. Of EE, S.I.T Venue Summary of the program:

The following points can be noted from the program

- > At the beginning of the training Mr. Arnab Chakraborty has clearly described the basic Introduction to Python and interpretable, OOPs programming/scripting language, C, C++ and its application in industries in different areas with the students.
- > The topics discussed and practiced during the next days of the training are Built-in Functions, Nonessential Built-in Functions, Built-in Types, Built-in Exceptions, String Services, Data Types, Numeric and Mathematical Modules. File and Directory Access, Data Persistence, Data Compression and Archiving, File Formats, Cryptographic Services, Generic Operating System

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- Services, Optional Operating System Services, Internet Data Handling, Structured Markup Processing Tools, Internet Data Handling, Structured Markup Processing Tools, Internet Protocols and Support, Graphical User Interfaces with Tk, Development Students had done many programing by themselves during the trainings like making of calculator ×
- >
- During the training some students raised their queries and the trainer had explained all the quarries At the end of the training an online exam was conducted. 3

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 Python.

Feedback analysis for the training:



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Some Glimpses during the training



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Jt- coordinators Training and Placement subcommittee, Department of Electrical Engineering

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Brief Report on technical training on "PLC and SCADA automation" from 03.10.2018-06.10.2018 for 5th semester 2020 pass out Electrical Engineering students.

The most used guiding force behind an automated industrial plant is a "programmable logic controller" generally known as a PLC. PLCs along with certain other necessary ingredients like sensors, motors, actuators, valves, conveyors, boilers, SCADA systems, computers & many more, makes a real automated manufacturing plant. A programmable logic controller (PLC) or programmable controller is an industrial digital computer which has been ruggedized and adapted for the control of manufacturing processes, such as assembly lines, or robotic devices, or any activity that requires high reliability control and ease of programming and process fault diagnosis. Supervisory control and data acquisition (SCADA) is a control system architecture that uses computers, networked data communications and graphical user interfaces for high-level process supervisory management, but uses other peripheral devices such as programmable logic controller (PLC) and discrete PID controllers to interface with the process plant or machinery. The operator interfaces which enable monitoring and the issuing of process commands, such as controller set point changes, are handled through the SCADA computer system. However, the real-time control logic or controller calculations are performed by networked modules which connect to the field sensors and actuators. PLCs are used in various applications in industries such as the steel industry, automobile industry, chemical industry and the energy sector. The scope of PLCs dramatically increases based on the development of all the various technologies where it is applied. SCADA Applications in Power System. Supervisory control and data acquisition (SCADA) is an industrial control system which is used in many modern industries like energy, manufacturing, power, water transportation, etc. ... SCADA systems range from simple to large configurations.

The training on PLC & SCADA Automation is organized to make the aspiring engineers acquainted with the conceptual as well as practical knowledge of the Industrial Automation & latest technologies being used to achieve industrial automation. The idea of organizing this training is to inculcate the basic fundamentals of automation in the students and provide them with a platform to work on, in the near future.

Objective of the training: Students will be explored to the conceptual as well as practical knowledge of the Industrial Automation & latest technologies being used to achieve industrial automation. The idea of organizing this training is to inculcate give the basic fundamentals of automation.

.Outcome of the program:

Students will be able to:

- understand the basic concept of PLC and SCADA and their uses.
- able to realize the application of PLC and SCADA in industrial automation.
- Gain skills on making projects with the application on PLC and SCADA.

The program details are as below:

Title of training: PLC and SCADA AutomationResource Organization: I & WeDate:03/10/2018-06/10/2018Name of Trainer:Mr. Abhijit Maitra

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Venue Technology : Smart class room, Department of Electrical Engineering, Siliguri Institute of

Summary of the program:

The following points can be noted from the program

- ➢ In the very fast 1st day Mr. Abhijit Maitra has explained the detailed through power point presentation the theoretical concept of Industrial automation, PLC , SCADA and its use in present days in industries along with the concept of Electrical power system.
- On the 2nd day Mr. Maitra gave very good introduction to PLC hardware, General PLC theory and concept, architecture of PLC, PLC components, programming language introduction, introduction of PLC software, SCADA applications. Students listened and learned in the entire session with accuracy.
- The students were instructed to bring their laptops for application or laboratory purpose and during the 3rd and 4th day the trainer taught the students about how to work with PLC and SCADA through software.
- During the interactive session some students raised their queries and they motivated to start some basic projects based on PLC programing.
- The trainer explained all the doubts of the students very clearly and the students were highly inspired throughout the training.
- > The attendance record of the students throughout the session was satisfactory.
- The training program was attended by 47 students from 3rd year, Electrical Engineering Department.

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Feedback analysis for the training:





Some Glimpses of the training



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Brief report of 60 Hours Technical Training Program on" Energy Management Advanced (Auto-CAD Electrical Design)"

Energy Audit is the key to a systematic approach for decision-making in the area of energy management. It attempts to balance the total energy inputs with its use, and serves to identify all the energy streams in a facility. It quantifies energy usage according to its discrete functions. Industrial energy audit is an effective tool in defining and pursuing comprehensive energy management program. The Energy Audit would give a positive orientation to the energy cost reduction, preventive maintenance and quality control programs which are vital for production and utility activities. Smart energy in buildings is an important research area of Internet of Things (IoT). Buildings as important parts of the smart grids, their energy efficiency is vital for the environment and global sustainability.

Objective of the training program: Students will be explored to the concept of advanced energy management and Auto-CAD based electrical design. They are also able to design & develop IoT based energy monitoring system.

Outcome of the training program:

- · Able to understand the need of energy management and audit in different areas.
- · Design some basic layout of electrical system using Auto-CAD
- · Understand the technical aspects of plant and equipment
- · Use the energy review to develop this into an Energy Management System.
- Use IoT tools for some smart monitoring systems in modern appliances

The program details are as below:

Title of program: Technical Training Program on Energy Management Advanced (Auto-CAD Electrical Design)

Resource Organization: I and We, Kolkata

Date: Phase-I: 18.01.18-20.01.18, Phase-II: 16.04.18-18.04.18, Phase-III: 26.04.18-28.08.18

Time: 10.00 am-5 pm.

Venue: APJ Abdul Kalam Seminar Hall/Smart Class Room, Department of Electrical Engineering, SIT

The entire training program has been conducted in three (03) phases

The following points can be noted from the Phase-I program

- At the beginning of the training an introductory and welcome speech has been delivered by Prof. J. B. Basu, Head of the Department, Department of Electrical Engineering, SIT, Siliguri.
- In this phase Auto-CAD based electrical design of different electrical panels have been discussed. In this session design of relays, MCBs, switches, motors have been demonstrated.

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During this session some live industrial projects and its energy audit analysis has been discussed in a brief manner to be familiar with the different topologies of energy

The following points can be noted from the Phase-II program

- In this session IoT (Internet of Things) based smart monitoring system for energy management analysis has been discussed. The Internet of Things (IoT) is the network of physical objects or "things" embedded with electronics, software, sensors, and network connectivity, which enables these objects to collect and exchange data.
- In their session they also discussed the typical programming concept of Arduino based microcontroller and development of flowchart while executing any typical problem

During this session utilization of energy and its impact in house hold applications have been established and concept of smart energy meter using IoT tools has been introduced.

The following points can be noted from the Phase-III program

- In this session server-client interaction through online chat window has been demonstrated through different coding and analysis. Several communications during the process can be recorded and monitored for data analysis.
- A typical analysis of temperature monitoring and control system using node MCU and ubidots has been discussed.
- Students are highly motivated in this particular application; they formed several groups and started to implement the basic IoT tools in some real-time projects. **Overall Monitoring:**
- · All the students are entitled to prepare a brief report on the training program at the end training.
- The attendance record of the students throughout the session was satisfactory.
- As per the feedback received from the students end, the interactive session was fruitful . and much attractive in modern days perspective and this kind of training program may be for longer period in future for such better output.
- · In the concluding part, the trainers thanked all the students for their patience hearing and gave his contact no. and email id in case any students have any query to develop some IoT based real-time projects.

The training program continued with 63 students from 3rd year of Electrical Engineering Department.

Coordinator

H.O.D

Department of Electrical Engineering

T & P Sub-Committee

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Some Glimpses of the Training Program





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Report for Training on Coding with data structure during 45 hours for 2nd year 2021 pass out batch

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 solve 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.

Training Details:

Title of Training: Coding with data structure,C Resource Organization/ Name of Trainer: I & We

Date: 10/1/2018 to 12/1/2018, 15/3/2018 to 17/3/2018, 19/4/2018 to 21/4/2018

Venue: SIT, Programming Lab I / SIT, Programming Lab II

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.

Feedback analysis for the training:



	University Roll	Student	ENROLLE	PARTICIPATE
sl.				U
1	11900316009	YASH VARDHAN	Y	Y
2	11900316010	UTSA GHOSH	Y	Y
3	11900316011	TRIDIBESH NAYEK	Y	Y
4	11900316012	TANMOY DEY	Y	Y
5	11900316013	TANIYA CHATTERJEE	Y	Y
6	11900316014	SUSMITA CHOWDHURY	Y	Y
7	11900316015	SUSHMITA SARKAR	Y	Y
8	11900316016	SUPRATIV SENGUPTA	Y	Y
9	11900316017	SUDESHNA SAHA	Y	Y
10	11900316018	SUBHAM UPADHYAY	Y	Y
11	11900316019	SUBHAM GHOSH	Y	Y
12	11900316020	SOUVIK MONDAL	Y	Y
13	11900316021	SOUMYADEEP PAUL	Y	Y
14	11900316022	SHIVAM SINHA	Y	Y
15	11900316023	SHAYATA SARKAR	Y	Y
16	11900316024	SHANKHADEEP DEY	Y	Y
17	11900316025	SEJUTI ROY MUKHERJEE	Y	Y
18	11900316026	SAYANTANI DEY	Y	Y
19	11900316027	SAYANI MAITRA	Y	N
20	11900316028	SAURAV KUMAR VERMA	Y	γ
21	11900316029	SANDIPAN BHATTACHARJEE	N	N
22	11900316030	SANDEEP DAS	Y	Y
23	11900316031	SAGNIK KUMAR SINHA	Y	Y
24	11900316032	RUPESH RAJ	Y	Y
25	11900316034	RISHAV KUMAR MAHATO	Y	Y
26	11900316035	RAKTIM MONDAL	Y	Y
27	11900316036	RAJESH RANJAN PRASAD	Y	Y
28	11900316037	RAHUL GHOSH	Y	Y
29	11900316038	RAHUL BHOWAL	Y	Y
30	11900316039	PRITAM KUMAR DAS	Y	Y
31	11900316040	PRATIK PRADHAN	N	Y
32	11900316041	PRARTHITA GUHA	Y	Y
33	11900316042	PRALAY BISWAS	Y	Y
34	11900316043	POURABI SENGUPTA	Y	Y
35	11900316044	PANKAJ KUMAR TIWARI	Y	Υ
36	11900316045	PALLAVI BHARDWAJ	Y	Υ
37	11900316046	NILANJAN DEB	Y	Y
38	11900316047	NIKITA PRASAD	Y	Y
39	11900316048	MRIGANKA BHUSAN BARAI	Y	Y

40	11900316049	MD SHADAD REZWI	Y	Y
41	11900316050	MARMEN DOLMA SHERPA	N	N
42	11900316051	MANDIRA SAHA	Y	Y
43	11900316052	MADHURIMA YADAV	Y	Y
44	11900316053	LOK BAHADUR CHHETRI	Y	Y
45	11900316054	KUNDAN KUMAR	Y	Y
46	11900317001	Krishanu Bepari	Y	N
47	11900317002	Kaushik Das	Y	Y
48	11900317003	Aparajita Roy	Y	N



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Report for Training on JAVA,OOPS,C++,J2EE 9 days (45 hours) for 2nd year 2020 Pass Out Batch

Introduction :

Object-Oriented Programming or OOPs relates to languages that use objects in programming. Object-oriented programming intends to achieve real-world entities such as inheritance, hiding, polymorphism, etc in programming. The main purpose of OOP is to tie together the data and the functions that operate on them thus no other part of the code can enter this data except that function. Mainly, the course of the Object-Oriented Programming is intended to implement a broad study of the Java programming language. OOPs is an extension of the Java programming language

Objective of Training : The aim of the course was to give an overview of C++ and Java programming by solving several practical problems. The course also focused on the Object Oriented Programming concepts. One of the main objectives when programming with objects is to organize programs more effectively. Objects are the key programming concept for implementing: encapsulation, abstraction, inheritance and polymorphism

Features of the Object Oriented programming :

- Emphasis is on doing rather than procedure.
- programs are divided into what are known as objects.
- Data structures are designed such that they characterize the objects.
- Functions that operate on the data of an object are tied together in the data structure.
- Data is hidden and can't be accessed by external functions.
- Objects may communicate with each other through functions.
- New data and functions can be easily added.
- Follows bottom-up approach in program design.

Training Methodology:

- Hands on practice on 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.

Training Details:

Title of Training: JAVA,OOPS,C++,J2EE

Resource Organization/ Name of Trainer: I & We

Date: 15/1/2018 to 17/1/2018, 19/3/2018 to 21/3/2018, 23/4/2018 to 25/4/2018

Venue: SIT , Programming Lab II/SIT, Project Lab

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, OOPs programming and java its application in industries in different areas with the students.
- 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 Java

Feedback analysis for the training:





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Training Report on Soft skill development program duration 19/7/2018 to 24/7/2018 for 4th Year 2019 Pass Out Batch

INTRODUCTION:

Soft Skills are the set of skills that a person should possess in order to face life's daily challenges successfully and to positively adapt to it. This would build the self confidence in an individual to handle life challenges in a more effective manner. In order to visualize a clearer picture on soft skills, let us now look at some more definitions,

1. Soft skills are the behaviors and characteristics that people demonstrate unconsciously and routinely (Daytona Beach Community College)

2. For success in the workplace, the contribution of soft skills are 85% and contribution of technical skills are 15%

3. Soft skills are learned through practice and experience (DDI International)

4. Soft skills will take you higher in your profession while giving you the technical skills to provide an efficient service

This module will introduce several important soft skills that are vital to overcome challenges in life Discuss the importance of soft skills with the participants. Arrange their ideas in an orderly manner.

TRAINING OBJECTIVES

The participants shall be able to achieve the following objectives at the end of this training

- To build and maintain interpersonal relationships.
- To make meaningful/appropriate decisions
- Efficient Communication
- To influence the professional development
- For effective, efficient and higher performance

Soft Skills Training sessions covered :

- Understand General Expectations from Corporate standpoint Corporate attire
- Introduction during the interview process
- Mock Interviews
- An overview to communication in the interview process
- Communicate effectively with recruiters

Methodology

- Experiential Learning
- Ample use of role plays

• Share real life examples, share their experiences and also facilitate discussions to address Students' queries.

Training Details:

Title of Training: soft skills & life skills

Resource Organization/ Name of Trainer: Career Launcher

Date: 19/7/2018 to 24/7/2018

Venue: SIT Campus

Feedback Analysis of the Training on Soft skill Development Program :



Training onIoT

Introduction:

Internet of Things (IoT) is a network of physical objects or people called "things" that are embedded with software, electronics, network, and sensors that allows these objects to collect and exchange data. The goal of loT is to extend to internet connectivity from standard devices like computer, mobile, tablet to relatively dumb devices like a toaster loT makes virtually everything "smart," by improving aspects of our life with the power of data collection, AI algorithm, and networks. The thing in IoT can also be a person with a diabetes monitor implant, an animal with tracking devices, etc. This IoT tutorial for beginners covers all the Basics of IoT. Students has learnt about Best practices for IoT in this Internet of Things in this training like.

- Design products for reliability and security
- Use strong authentication and security protocols.
- Energy efficient algorithms should be designed for the system to be active longer.

Objective: After attending the training, students should be able to understand:

- 1. IoT architecture and IoT Decision Framework
- 2. Configure Raspberry Pi, Understand Sensors, Actuators
- Understand various IoT Networking Protocols which are mainly used to develop communication 3. solutions.

Program Details:

Training Program: IoT Resource Organization: I & We Date: 18/1/2018 to 20/1/2018, 9/4/2018 to 11/4/2018, 26/4/2018 to 28/4/2018 Students who can attend: B. Tech (ECE) 6^h Sem-2019 PO.

Feedback Analysis



Report of Feedback Analysis1st Phase of Winter Training

Feedback for training was taken on 20thJan,2018 with the 3rd year students (2019 PO). Analysis of feedback are listed below:

- 1. Duration of training should be increased then students will be able to understand more clearly.
- 2. Due to problem of Wi-Fi connectivity students faced difficulty to do their project work.
- 3. Trainers are very much friendly and energetic, so students are being encouraged for doing IoT projects.
- 4. Enough equipment is not provided.
- 5. Students want this type of training in upcoming semester.
- 6. Supplied material is not sufficient for all the students.

Report of Feedback Analysis 2nd and 3rd Phase of Winter Training

Feedback for training was taken on 13th April 2018 with the 3rd year students (2019 PO). Analysis of feedback are listed below:

- 1. Improper and inefficient internet facility.
- 2. Projector was not working properly, students faced huge problem.
- 3. Time duration should be more than 3 days.
- 4. This type of training should be started earlier of the semester.



Brief Report on "Finishing School Program (FSP)" from 30/07/2018-03/08/2018 for 7th semester 2019 pass out Electrical Engineering students.

FSP program is conducted for the overall aptitude and personality development for the student required to appear for any interview which also impart also addition of value for the students. An aptitude test is a systematic means of testing a job candidate's abilities to perform specific tasks and react to a range of different situations. The tests each have a standardized method of administration and scoring, with the results quantified and compared with all other test takers. FSP will reduce the gap between the college and the industry; this will provide the essential knowledge and skill to work with confident. The students understand the industrial needs and expectations to face the interview confidently and secure the suitable position. Soft skills include: attitude, communication skills, time management, critical thinking and a slew of other categories that do not relate to intelligence. The students would be trained with qualitative skill, employment oriented dexterity, quantitative aptitude, soft skills and others required for their employment.

Objective of the training: Students will be explored to enhance business communication and interpersonal skills. They also acquire the skills to solve the aptitude questions for any recruitment drive in a structured manner.

Outcome of the program:

Students will be able to:

- Able to exhibit knowledge, skills and attitude required to deliver organizational goals.
- Able to recognize basic needs of Human Resource Management in a modern corporate world.
- Gain skills on solving different aptitude questions based on standard campus recruitment drive.
- The program details are as below:

Title of training : Finishing School Program (F.S.P)

Resource Organization : Vista Mind

Date	:30/07/2018-03/08/2017
Name of Trainer	:Mr. Devanjan Sarkar, Mr. Amit Kuma Dhar
Venue	: Department of Electrical Engineering, Siliguri Institute of Technology

Summary of the program:

The following points can be noted from the program

- In the very fast 1st session trainers have clearly demonstrated the need of skill of solving aptitude questions quickly, soft-skills, personality development, group discussions and industry interactions in their professional career.
- Ist half of every training day was conducted by Mr. Amit Kumar Dhar and he was engaging the students by teaching and practicing the quick solving ways of any aptitude problems.Mr. Dhar discussed suitable techniques for solving aptitude questions comprises of quantitative aptitude, logical, verbal and non-verbal reasoning.
- > The students became very much interested and learn from the training.
- > 2nd half of every training day was conducted by Mr. Devanjan Sarkar. In this session some fruitful



procedures for the overall grooming had been discussed. By taking students on a journey through choosing the right job into understanding the mind of the recruiter to make it there while building competence in elements like resume building, cover letters, email etiquette, interviews and follow-ups.

- Some course materials for placement aptitude papers have been given to the students for solving within the prescribed time limit and some easy and quick method was provided to the students.
- During the interactive session some students raised their queries and they motivated to arrange some group discussions/industry awareness/grooming sessions among themselves. Bright students are entitled to help the weak students in this case for establishing a teamwork and ethics.
- In the concluding part trainers thanked all the students for their patience hearing.
- The program continued with about 26 students from 7th semester of Electrical Engineering Department.
- As per the feedback received from the students end the industrial training was fruitful and highly appreciable for the students and the instructor has demonstrated all the necessary topics in a healthy manner.

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H.O.D Department of Electrical Engineering

Jt- coordinators Training and Placement subcommittee, Department of Electrical Engineering



SILIGURI INSTITUTE OF TECHNOLOGY

Report for Training on Big Data/Hadoop during 18/01/2018 to 28/01/2018 for 3rd year 2018 pass out batch

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.

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.

Training Details:

Title of Training: Big Data/Hadoop *Resource Organization/ Name of Trainer: I & We Date: 18/01/2018to 28/01/2018*

Venue: SIT, OT&UML Lab

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.
- ✤ As per the feedback received from the students end, the entire session was really fruitful
- and enjoyable and the students have learned framework of Hadoop.

Feedback analysis for the training:



Report for Training on Big Data/Hadoop during 18/01/2018 to 20/1/2018, 09/04/2018 to 11/04/2018, 26/04/2018 to 28/04/2018 for 3rd year 2019 pass out batch

Introduction

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- During the training, the Trainee would implement a project related to respective modules.
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- Implementation of programming techniques through a Project.

Training Details:

Title of Training: Big Data/Hadoop

Resource Organization/ Name of Trainer: TechBridge

Date: 18/01/2018 to 20/1/2018, 09/04/2018 to 11/04/2018, 26/04/2018 to 28/04/2018

Venue: SIT, OT&UML Lab

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.
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