FOUR WEEKS SUMMER INSTITUTIONALTRAINING REPORT

On

**Cisco CCNA 200-301 Exam: Complete Course with Practical Labs**

On

Udemy

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF THE DEGREE OF

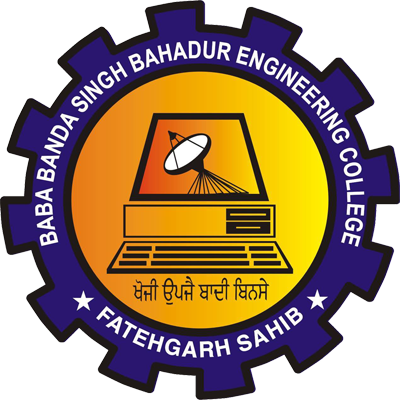
**BACHELOR OF TECHNOLOGY**

(Computer Science and Engineering)

SUBMITTED BY:

**Name: Ankur Batta**

**University Roll Number: 2001200**



JUNE,2021

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

BABA BANDA SINGH BAHADUR ENGINEERING COLLEGE FATEHGARH SAHIB

**CANDIDATE’S DECLARATION**

I, Ankur Batta, hereby declare that I have undertaken four weeks training on “Udemy” during a period from June 20, 2021 to July 20, 2021. The project entitled “Cisco CCNA 200-301 Exam: Complete Course with practical labs” submitted by Ankur Batta, (2001200) in partial fulfillment of the requirement for the award of degree of the B. Tech. (Computer Science and Engineering) submitted in Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib is an authentic record of my own work carried out during four weeks Summer Institutional Training. The matter presented in this project has not formed the basis for the award of any other degree, diploma, fellowship or any other similarities.

Signature of Student:   
Date:

**E-CERTIFICATE**

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**ACKNOWLEGEMENT**

I express my sincere gratitude to the I. K. Gujral Punjab Technical University, Jalandhar, for giving me the opportunity to undergo four weeks Summer Institutional Training, after my 2nd Semester of B.Tech.

I would like to thank Dr. Lakhvir Singh (Principal) and Dr. Kanwalvir Singh Dhindsa (Head of Department), CSE at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib for their kind support.

I also owe my sincere gratitude towards Mr. David Bombal (Instructor) for his valuable advice and healthy criticism throughout my training which helped me immensely to complete my work successfully.

I would also like to thank everyone who has knowingly and unknowingly helped me throughout my work.

Last but not least, a word of thanks for the authors of all those books and papers which I have consulted during my training as well as for preparing the report.

**INTRODUCTION TO COMPANY**

Udemy allows its users to learn or share what they know. As a global destination, Udemy connects people through knowledge. Udemy responds to the needs of the business in an agile and global manner and help organizations of all types and sizes prepare for the path ahead- wherever it leads, by curating collection of business and technical courses which places learning at the centre of their strategies.

**INTRODUCTION TO PROJECT**

* Objectives:

1. To acquire knowledge about Networking
2. To learn about different cables used in networking
3. To gain an understanding of devices required in networking
4. To discover how to configure routers and switches
5. To grasp knowledge about models of networking – TCP/IP, OSI
6. To study how to secure the network
7. To attain the Udemy CCNA 200-301 certification

* Project Overview:

This course helps users to learn about CCNA 200-301 by including practical video content, detailed explanations of CCNA topics and Cisco packet Tracer demonstrations. It also provides built in Packet Tracer assessments and labs, cheat sheets and quiz questions.

**TRAINING WORK UNDERTAKEN**

* Hardware Specification: None as this course can be accessed from any laptop/PC/mobile
* Software Specification: Packet Tracer Software

In the CCNA Udemy course, I discovered various aspects of networking which includes what network is, how it works, how to setup a network and create topologies in packet tracers. I also learned about switches, routers, hub, cables like CAT 5 and CAT 6, which are required to create a network. Moreover, this course sheds lights on the paramount importance of network in order to run the world and how it has become an essential part of daily lives of people because no communication is possible without it in today’s modern world. Apart from its numerous benefits, it can be used by intruders to track the daily activities of people, steal their confidential data and invades their privacy. In order to protect the network, this course also introduced firewall and how it functions to keep the intruders away. Additionally, I gained knowledge about ports, OSI and TCP/IP model using example. I also understood the process of encapsulation of the data in http header, then in segment, then in packet and at-last, in frame. Talking about advanced technology such as multilayer switch- which can replace router and its working was also taught in this course. Studied about known ports such as 80 (http), 443 (https), 21(ftp), 22(ssh), 3389 (rdp). In the end, thorough knowledge about LAN, MAN, WAN, PAN was provided.

**RESULT**

1. Acquired knowledge about Networking
2. Learned about different cables used in networking
3. Gained an understanding of devices required in networking
4. Discovered how to configure routers and switches
5. Grasped knowledge about models of networking – TCP/IP, OSI
6. Studied how to secure the network
7. Attained the Udemy CCNA 200-301 certification

**CONCLUSION AND FUTURE SCOPE**

This course gave me the practical knowledge required to apply what I have learned to real world networking scenarios. It also prepared me for CCNA exam, which will help me in building a career in the future by taking a job in company as Network Engineer.