Cybersecurity	
SOURCE: 01	**Cyber Security**
01	Course Outline
02	Requirement
03	Getting Ready
04	Effective Note Keeping
05	Connect with Community
06	What is Cyber Security
07	History of Cyber Attacks
08	Inclusion Detection System
09	Careers in Cyber Security
10	Types of Hackers
11	Cyber Threats, Malware
12	Phishing
13	MITM Attacks
14	DDOS Attacks
15	Password Attacks
16	Maladvertising
17	Rouge Software
18	What is Penetration Testing
19	Types of Penetration Testing
20	States of Penetration Testing
21	Hashing and Digital Signatures
22	Cryptography
23	The CIA Traid
24	Foot Printing
25	Linux Started
26	What is Linux
27	What is Linux
28	Installing Linux VM
29	Linux File System
30	Linux Commands
31	Important and Sensitive Linux Files
32	What is Network
33	IP Addresses
34	Switches and Routes
35	Ports and Protocols
36	NMAP
37	TCP and UDP Protocols
38	What is Website
39	What is Database
40	Client and Server
41	Domains and Sub-Domains
42	Request and Response
43	Cookies and Tasty
44	HTTP and HTTPs
45	HTTP Methods
46	Burp Suite
47	HTTP Status Codes
48	OWASP-1
49	OWASP-2
50	OWASP-3
51	OWASP-4
52	OWASP-5
53	Weapon zing
54	Bug Bounty

Cybersecurity	
SOURCE: 02	**Google Cybersecurity Certificate**
01	Cybersecurity for Beginners
02	How to Manage Security Risks and Threats
03	Internet Networks and Network Security
04	The Basics of Computing Security: Linux and SQL
05	Cybersecurity Assets, Network Threats and Vulnerabilities
06	Cybersecurity IDR: Incident Detection and Response
07	Fundamentals of Python for Cybersecurity
08	How to Prepare for Your Cybersecurity Career
09	What Does An Information Security Analyst Do
10	Jobs You Can Qualify for By Completing Google Cybersecurity
11	What is A Loop in Python
12	What Are The 8 Cybersecurity Domains
13	What are The 8 Security Domains
14	How Do Operating Systems Work in Cybersecurity
15	What Are Network Tools and Protocols in Cybersecurity
16	What to Know Before Going Into Cybersecurity or Project Management
17	How to Secure Networks in Cybersecurity
18	How to Best Communicate as A Cybersecurity Analyst

Information Security	
SOURCE: 03	**Cyber and Information Security**
01	Information Security Basic Concepts
02	Information Security Management and Governance
03	Cryptography Hashing Ciphering
04	Message Authentication, SSL, TSL and Digital Signature
05	Risk Management and Business Continuity Management
06	Computer Security, Platform, Virtualization and Hyper-V
07	Digital Forensics and Incident Response, Evidence
08	User Authentication, Passwords, Tokens and Biometrics
09	Identity Management and Access Control, OpenId
10	Communication Security, TSL, TCP/IP, HTTPS, SSL
11	Network Perimeter Security, Firewalls, Proxies
12	Malicious Software, Attacks and Application Security
13	Review and Recap – Project
14	OWASP Top 10, Injection, XSS, Authentication Attack

Cryptography

SOURCE: 01	Cryptography
01	Encryption Explained Simply | What is Encryption | Cryptography and Network Security
02	What is Cryptography | Introduction to Cryptography
03	Symmetric Key Cryptography | Stream Cipher and Block Cipher Explained | Network Security
04	DES – Data Encryption Standard | Data Encryption Standard In Cryptography | DES Algorithm
05	AES – Advanced Encryption Standard Algorithm in Cryptography | AES Explained
06	AES and DES Algorithm Explained | Difference Between AES and DES | Network Security
07	Asymmetric Key Cryptography | RSA Encryption Algorithm | Asymmetric Encryption
08	DSA Algorithm | DSA Algorithm Explained | Digital Signature Algorithm
09	RSA Encryption Algorithm | Rivest – Shamir – Adleman | RSA Algorithm Explained
10	RSA and DSA Encryption Algorithms Explained | Cryptography and Network Security
11	What is Hashing | What is Hashing with Example | Hashing Explained
12	MD5 Algorithm | What is MD5 Algorithm | MD5 Algorithm Explained | Network Security
13	SHA 256 | SHA 256 Algorithm Explanation | How SHA 256 Algorithm Works | Cryptography
14	Top Hashing Algorithm in Cryptography | MD5 and SHA 256 Algorithm Explained
15	Diffie Hellman Key Exchange Algorithm | Cryptography and Network Security
16	SSL Handshake Explained | What is SSL / TLS Handshake | SSL/TSL Handshake Protocol
SOURCE: 02	**Cryptography and System Security**
01	Introduction to Cryptography and System Security
02	Security Goals | CIA Triad
03	OSI Security Architecture
04	Security Services in Cryptography
05	Security Mechanism
06	Security Attacks
07	Classical Encryption Techniques
08	Affine Cipher
09	Vigenere Cipher
10	Hill Cipher
11	Playfair Cipher
12	Keyed Transposition Cipher
13	Rail Fence Cipher | Keyless Transposition Cipher
14	Columnar Transposition Cipher
15	Symmetric Key Encryption | Symmetric Key Cryptography
16	Asymmetric Key Cryptography | Asymmetric Key Encryption
17	RSA Algorithm
18	Stream Cipher
19	Block Cipher
20	Data Encryption Standard (DES)
21	Hash Functions
22	Properties of Has Functions
23	User and Entity Authentication
24	Kerberos Authentication Protocol
25	Network Security
26	Packet Sniffing
27	ARP Spoofing
28	IP Spoofing
29	Denial of Service Attack (DoS Attack)
30	Distributed Denial of Service Attack (DDOS Attack)

Cryptography and Network Security

SOURCE: 01	Cryptography and Network Security
01	Introduction to Cryptography and Network
02	CIA Triad
03	The OSI Security Architecture
04	Security Attacks
05	Security Services
06	Security Mechanisms
07	Network Security Model
08	Cryptography
09	Cryptography – Key Terms
10	Cryptanalysis
11	Brute Force Attack
12	Classical Encryption Techniques
13	Caesar Cipher Part-1
14	Caesar Cipher Part-2
15	Mono-alphabetic Cipher
16	Play-fair Cipher Part-1
17	Play-fair Cipher Part-2
18	Play-fair Cipher (Solved Question)
19	Hill Cipher (Encryption)
20	Hill Cipher (Decryption)
21	Polyalphabetic Cipher (Vigenere Cipher)
22	Polyalphabetic Cipher (Vemam Cipher)
23	One Time Pad
24	Rail Fence Technique
25	Row Column Transposition Ciphering Technique
26	Steganography
27	LSB Steganography – Demo
28	Cryptograph (Solved Questions)
29	Abstract Algebra and Number Theory
30	Prime Numbers in Cryptography
31	Modular Arithmetic Part-1
32	Modular Arithmetic Part-2
33	Modular Exponentiation Part-1
34	Modular Exponentiation Part-2
35	GCD – Euclidean Algorithm Method – 1
36	GCD – Euclidean Algorithm Method – 2
37	Relatively Prime (Co-Prime) Numbers
38	Euler's Totient Function (Phi Function)
39	Euler's Totient Function (Solved Examples)
40	Fermal's Little Theorem
41	Euler's Theorem
42	Primitive Roots
43	Multiplicative Inverse
44	Extended Euclidean Algorithm (Solved Example 1)
45	Extended Euclidean Algorithm (Solved Example 2)
46	Extended Euclidean Algorithm (Solved Example 3)
47	The Chinese Remainder Theorem (Solved Example 1)
48	The Chinese Remainder Theorem (Solved Example 2)
49	The Discrete Logarithm Problem
50	The Discrete Logarithm Problem (Solved Example)
51	Prime Factorization (Fermat's Factoring Method)
52	Testing for Primality (Fermat's Test)
53	Testing for Primality (Miller-Rabin Test)
54	Group and Abelian Group
55	Cyclic Group
56	Rings, Fields and Finite Fields
57	Stream Cipher vs Block Cipher
58	Feistel Cipher Structure
59	Introduction to Data Encryption Standard (DES)

60	Single Round of DES Algorithm
61	The F Function of DES (Mangler Function)
62	Key Scheduling and Decryption in DES
63	Avalanche Effect and The Strength of DES
64	Data Encryption Standard (DES) – Solved Questions
65	Introduction to Advanced Encryption Standard (AES)
66	AES Encryption and Decryption
67	AES Round Transformation
68	AES Key Expansion
69	AES Security and Implementation Aspects
70	Multiple Encryption and Triple DES
71	Block Cipher Modes of Operation
72	Electronic Codebook (ECB)
73	Cipher Block Chaining (CBC)
74	Cipher Feedback (CFB)
75	Output Feedback (OFB)
76	Counter Mode (CTR)
77	Block Cipher Modes of Operation (Solved Question)
78	Pseudorandom Number Generator (PRNG)
79	Golomb's Randomness Postulates
80	Public Key Cryptography | Cryptography and Network Security
81	Hash Function and Digital Signatures | Cryptography and Network Security
82	System Practices and System Security | Cryptography and Network Security