

S.T..S. N GOVT. DEGREE COLLEGE, KADIRI

DEPARTMENT OF COMMERCE

Minutes of the Department meeting for the conduct of the Certificate Course for the AY 2021-22

The Department of Commerce, the pioneer in catering to the needs of the students, has decided to be the pathfinder for the outgoing students of our college. In the job market, especially Certificate Course in **Cyber Security and Ethical Hacking** is generally covers the combined study of the concepts of IT, and Computer. The course imparts sound knowledge in the fields of IT, Commerce, Management, Finance, Economics, etc. During the course, candidates are introduced to various aspects of Computers applied in the business. So, the E-Commerce course is very essential for the outgoing students. Department of Commerce has taken these initiatives.

The Department of Commerce conducted a meeting on 02-04-2022. The faculty members of commerce designed the certificate program structure for 30 days. All the faculty members are accepted to run the certificate program in **Cyber Security and Ethical Hacking**.

Board of Studies Department of Commerce:

- **Dr.S.Smitha-Principal** : **Chairman**
- **Dr. P .M. Siva Prakash** : **Member**
- **N. Pushpa Latha** : **Member**
- **S. Shabbir** : **Member**
- **K. Ashok** : **Member**
- **M. Ravi Naik** : **Member**

Permission Letter for Certificate Course

To
The Principal
S.T.S.N Government Degree College
KADIRI

Date: 03-04-2022

Sir,

Sub: - S.T.S.N Government Degree College, Kadiri seeking permission to -Certificate Course

Certificate Course in Cyber Security and Ethical Hacking in Computers-30 day's duration-no fee-accord -permission -request -Reg

We submit that permission may kindly be accorded for the above-mentioned courses vide subject.

The duration of the course will be 30 days and the majority of stakeholders are marginalized sections, hence we request that the fee will be exempted for the students who pursue this course.

Kindly accord permission

With regards



Sri Sathya Sal
PRINCIPAL
STSN GOVERNMENT DEGREE COLLEGE
KADIRI-515 591

Yours Faithfully

(N. Pushpa Latha)

Sri Sathya Sal
PRINCIPAL
STSN GOVT. DEGREE COLLEGE
KADIRI - 515 591
Sri Sathya Sal (Dist).

N. Pushpa Latha

S.T.S.N GOVERNMENT DEGREE COLLEGE:: KADIRI

DEPARTMENT OF COMPUTERS SCIENCE

CIRCULAR

Date: 03-04-2022

Handwritten signature and date: P.L. 03/04/22

Dear students,

This is to inform you that, the Department of Commerce is going to conduct a certificate course in Cyber Security and Ethical Hacking; the duration of the course is 30 days. So, we are informing the III rd year B.com; (C.A) students. Those who are interested can enroll their names with N. Pushpa Latha, Lecturer in Commerce on or before 07.04.2022. The classes will commence from 16.04-2022.

In-charge

Principal

Handwritten signature: P.L.



Copy to Library Notice Board.

Copy to the Notice Board.

Circulate to Computer Science Students.

RESOLUTION

It is resolved that the department of Commerce unanimously decided, to conduct a 30 days certificate course on Cyber Security for the First year B.Com, Computer Applications students of this college. The course schedule will be from 16-03-2022 to 16-04-2022. After successful completion of course an online quiz, PPT Presentation, Group Discussion should be conducted for both theory and practical and distribution of certificates to the students. The course syllabus is attached to this copy.

~~Pg.~~

Faculty

Department of Commerce



PRINCIPAL
STSN Govt. DEGREE COLLEGE
KADIRI - 515 591
Sri Sathya Sai (Dist).

Course objectives:

The course is designed in a way that a candidate can identify, analyze and remediate computer security breaches by learning and implementing the real-world scenarios in Cyber Investigations Laboratory, Network Security Laboratory and in Security and Penetration Testing Laboratory.

- Exhibit knowledge to secure corrupted systems, protect personal data, and secure computer networks in an Organization.
- Practice with an expertise in academics to design and implement security solutions.
- Understand key terms and concepts in Cryptography, Governance and Compliance
- Develop cyber security strategies and policies
- Understand principles of web security and to guarantee a secure network by monitoring and analyzing the nature of attacks through cyber/computer forensics software/tools.

Course outcomes:

Upon successful completion of the programme, candidates will be familiar with cyber security landscapes and able to

- Analyze and evaluate the cyber security needs of an organization.
- Determine and analyze software vulnerabilities and security solutions to reduce the risk of exploitation.
- Measure the performance and troubleshoot cyber security systems.
- Implement cyber security solutions and use of cyber security, information assurance, and cyber/computer forensics software/tools.
- Comprehend and execute risk management processes, risk treatment methods, and key risk and performance indicators
- Design and develop security architecture for an organization.
- Design operational and strategic cyber security strategies and policies

SYLLABUS

UNIT I INTRODUCTION

Introduction to Cyber Security - Importance and challenges in Cyber Security - Cyberspace - Cyber threats - Cyber warfare - CIA Triad - Cyber Terrorism - Cyber Security of Critical Infrastructure - Cyber security -Organizational Implications.

UNIT II HACKERS AND CYBER CRIMES

Types of Hackers - Hackers and Crackers - Cyber-Attacks and Vulnerabilities - Malware threats - Sniffing - Gaining Access - Escalating Privileges - Executing Applications - Hiding Files - Covering Tracks - Worms - Trojans - Viruses - Backdoors

UNIT III ETHICAL HACKINGAND SOCIAL ENGINEERING

Ethical Hacking Concepts and Scopes - Threats and Attack Vectors - Information Assurance - Threat Modeling - Enterprise Information Security Architecture - Vulnerability Assessment and Penetration Testing - Types of Social Engineering - Insider Attack - Preventing Insider Threats - Social Engineering Targets and Defence Strategies.

UNIT IV CYBER ETHICS AND LAWS

Introduction to Cyber Laws - E-Commerce and E-Governance - Certifying Authority and Controller - Offences under IT Act- Computer Offences and its penalty under IT Act 2000 - Intellectual Property Rights in Cyberspace.

Certificate course – Time table

S.No	Date	Topic covered
1.	16-03-2022	Introduction about certificate course In Cyber Security
2.	18-03-2022	Introduction of Cyber Security
3.	19-03-2022	Importance and challenges in Cyber Security
4.	21-03-2022	Cyberspace - Cyber threats
5.	22-03-2022	Cyber warfare - CIA Triad
6.	23-03-2022	Cyber Terrorism - Cyber Security of Critical Infrastructure
7.	24-03-2022	Cyber security -Organizational Implications.
8.	25-03-2022	Malware threats - Sniffing
9.	26-03-2022	Gaining Access - Escalating Privileges - Executing Applications
10.	28-03-2022	Hiding Files - Covering Tracks - Worms
11.	29-03-2022	Trojans - Viruses - Backdoors
12.	30-03-2022	Ethical Hacking Concepts and Scopes - Threats and Attack Vectors
13.	31-03-2022	Enterprise Information Security Architecture
14.	01-04-2022	Vulnerability Assessment and Penetration Testing - Types of Social Engineering
15.	04-04-2022	Insider Attack - Preventing Insider Threats
16.	05-04-2022	Social Engineering Targets and Defense Strategies.
17.	06-04-2022	Introduction to Cyber Laws
18.	07-04-2022	E-Commerce and E-Governance
19.	08-04-2022	Certifying Authority and Controller
20.	09-04-2022	Offences under IT Act
21.	11-04-2022	Computer Offences and its penalty under IT Act 2000
22.	12-04-2022	Intellectual Property Rights in Cyberspace
23.	13-04-2022	Applications with PPT Presentation
24.	14-04-2022	Applications with PPT Presentation
25.	16-04-2022	Group Discussion on Cyber Security

DEPARTMENT OF COMMERCE

Students Registered

S.NO	ROLL NUMBER	NAME OF THE STUDENT	GROUP	SEMESTER
1	200055081	D CHARAN KUMAR	B.COM-C.A	VI
2	200055082	B REDDAPPA	B.COM-C.A	VI
3	200055086	P YUNUS KHAN	B.COM-C.A	VI
4	200055087	S KHALEEL	B.COM-C.A	VI
5	200055091	B SONY	B.COM-C.A	VI
6	200055093	B KAVITHA	B.COM-C.A	VI
7	200055101	G SUKANYA	B.COM-C.A	VI
8	200055102	J BALAJI KUMAR	B.COM-C.A	VI
9	200055104	J SRAVANI	B.COM-C.A	VI
10	200055106	J CHENNA KRISHNA	B.COM-C.A	VI
11	200055107	K BAYYAPPA	B.COM-C.A	VI
12	200055109	K MAHENDRA REDDY	B.COM-C.A	VI
13	200055110	K PRASANTHI	B.COM-C.A	VI
14	200055114	K RAMANJANEYULU	B.COM-C.A	VI
15	200055115	K KANCHANA	B.COM-C.A	VI
16	200055119	M SHALINI	B.COM-C.A	VI
17	200055122	M SREENATH	B.COM-C.A	VI

18	200055131	P SHANTHI	B.COM-C.A	VI
19	200055132	P MANJUNATH	B.COM-C.A	VI
20	200055135	P GOWTHAMI	B.COM-C.A	VI
21	200055136	P TEJA	B.COM-C.A	VI
22	200055137	P HARISH	B.COM-C.A	VI
23	200055138	S SAI KRISHNA	B.COM-C.A	VI
24	200055139	S SRAVANI	B.COM-C.A	VI
25	200055144	S VIJAY KUMAR	B.COM-C.A	VI
26	200055145	S SAI KUMAR	B.COM-C.A	VI
27	200055146	S ANUSHA	B.COM-C.A	VI
28	200055153	T PRASANTH	B.COM-C.A	VI
29	200055159	C MISBAH SULTHANA	B.COM-C.A	VI
30	200055160	S IMAM KHASIM	B.COM-C.A	VI

S.T.S.N Govt. Degree College, Kadiri

Department of Commerce

Examination on Certificate course

Time: 1Hour

Max.Marks: 20

I. Answer the following questions

5X3=15

1. What are common Cyber Attacks?
2. What is Fire Wall?
3. What is VPN?
4. Define DNS?
5. What are different sources of Malware?

II. Fill up the blanks

5X1=5

1. _____ is used in the Process of Wi-Fi Hacking
2. _____ is a type of Anti- Virus Program
3. _____ Software is designed to detect Viruses and avoid them
4. _____ is Considered as the unsolicited commercial email
5. _____ is Considered as the Class of Computer Threats

Feed back

1. The course content was highly relevant to current situations. like how to protect computer operating systems, networks and data from cyber attacks.
2. The practice is used by companies to protect against phishing, schemes, ransomware attacks, identity theft, data breaches & financial losses.
3. The three goals of cyber security are Confidentiality, Integrity & Availability
4. The course material are well-organized & presented in an engaging manner.
5. While the instructor was knowledgeable, a bit more interaction during lectures would have enhanced the learning experience.
6. More opportunities for questions & discussion could have helped clarify certain concepts.

This course was valuable addition to our non-graduate curriculum.

Photos Of Course Conducted:





S.T.S.N GOVERNMENT DEGREE COLLEGE

KADIRI, SRI SATHYA SAI DIST. AP

NAAC Accredited with 'B' Grade

DEPARTMENT OF COMMERCE

Certificate of Participation

This is to certify that Sri/Mr./Miss _____ of

I B COM CA has successfully completed Certificate Course with 30 hours in CYBER SECURITY AND ETHICAL HACKING Conducted by the Department/ Wing of COMMERCE S.T.S.N Govt. Degree College, Kadiri During the Academic Year 2021-22.

Course coordinator

Head of the Department

Principal

