



ଓଡ଼ିଶା ରାଜ୍ୟ ମୁକ୍ତ ବିଶ୍ୱବିଦ୍ୟାଳୟ, ସମ୍ବଲପୁର, ଓଡ଼ିଶା  
Odisha State Open University, Sambalpur, Odisha  
Established by an Act of Government of Odisha.

## **ASSIGNMENTS**

**CSP- 13 & 14**

**CSPL- 13 & 14**

**(Theory & Practical)**

**SESSION: 2020-21**

**DIPLOMA IN CYBER SECURITY (DCS)**

**(2nd semester)**

### **SUBMISSION DATES FOR ASSIGNMENTS**

<b>SESSION (2020-2021)</b>			
<b>Sl.No.</b>	<b>CODE</b>	<b>COURSE TITLE</b>	<b>DATE OF SUBMISSION</b>
<b>1</b>	<b>CSP-13</b>	Application Cyber Security	<b>Sunday, 28<sup>th</sup> Feb.2021</b>
<b>2</b>	<b>CSP-14</b>	Network Cyber Security	
<b>PRACTICALS</b>			
<b>3</b>	<b>CSPL-13</b>	Application Cyber Security	<b>Sunday, 28<sup>th</sup> Feb.2021</b>
<b>4</b>	<b>CSPL-14</b>	Network Cyber Security	

**Please read the instructions carefully before attempting assignment questions.**

# INSTRUCTIONS FOR DOING ASSIGNMENTS

## Dear Learner,

You are required to submit one assignment per course within the stipulated time in order to become eligible to appear in the term-end examination. The assignments will be evaluated by the counsellors at your Study Centre. Please submit your assignment solutions to the Coordinator of your Study Center.

## Purpose of Assignments:

1. Assignments are part of the continuous evaluation process in Open and Distance Learning (ODL) system. Due weightage is given to the marks/grades you obtain in assignments. This will help you for better performance in the term-end examination. If you secure good grades/marks in assignments, your overall performance will improve.
2. Assignments are also a part of the teaching-learning process in the ODL system. Your assignment, after evaluation, will be returned back to you with specific and general comments by the evaluator. This will help you to know your strength as well as your weakness. Thus, it will establish two-way communication between learner and evaluator.

## How to Write Assignments:

Please read the instructions for writing the response of an assignment before you start writing your answer.

1. Write your name, programme code, the course title, enrolment no. and study centre name with code in the top sheet of the assignment answer booklet as per the format given below.

**PROGRAMME TITLE:** ..... **ENROLMENT No.:** .....

**NAME:**.....

**ADDRESS:**.....

**COURSECODE**..... **COURSE TITLE:**.....

**ASSIGNMENT CODE:**..... **SIGNATURE:**.....

**STUDY CENTRE:** ..... **DATE:** .....

2. Before you attempt the assignments, please go through the course materials carefully, understand the same and write answers in your own language and style.
3. **Write the answers in your own handwriting.** Give sufficient margin in the left side of each page so that the evaluator will give comments on each paragraph/page.
4. Your handwriting should be neat and readable.

## Weightage for each Assignments:

1. Each Theory Assignment will carry 15% weightage and each Practical Assignment will carry 10% weightage and term-end examination will carry 75% weightage.
2. Each assignment will be of 100 marks. But it will carry 25% weightage.
3. You have to score minimum pass mark i.e. 40% in each assignment. In case you do not submit the assignment or get fail mark in the assignment you have to re-submit in the next year.

# **ASSIGNMENTS**

**(THEORY)**

## ASSIGNMENTS

### Applications cyber security (CSP-13)

(Theory)

Full Mark – 100

#### GROUP- 'A'

**Q. No. 1 Answer all the questions, each within one word or one sentence. Marks: 1 × 10 = 10**

- a) Write the full form of PCI and SAR?
- b) Write about Disaster recovery?
- c) COBIT and BCP full form is \_\_\_\_\_?
- d) A root kit is a malicious code. (True/False)
- e) How many types of Disaster recovery control measures?
- f) DRP and DSS full form is \_\_\_\_\_?
- g) Write the full form of COOP and DSC.
- h) How many types of Cyber Laws?
- i) Write in a sentence about IT Security.
- j) List down type of auditing.

#### Group 'B'

**Q. No 2. Short answer-type Questions (Word Limit: 100 Words)**

**Marks:5 X 4 = 20**

- a) Write the role of a forensics investigator?
- b) What are the desktop security threats?
- c) What is a programming bug?
- d) What are different malicious codes?

#### Group 'C'

**Q. No 3. Medium answer-type Questions (Word Limit: 200 Words)**

**Marks: 10 X 4 = 40**

- a) Give a brief description of desktop computer and desktop security.
- b) What is a Digital Signature? Write the benefits of it.
- c) What is a Trojan horse? What are different types of Trojan horse?
- d) Give a brief description of Computer Security Classification. How it will relate to security threads?

#### Group 'D'

**Q. No 4. Long answer-type Questions (Word Limit: 300 Words)**

**Marks: 15 X 2 = 30**

- a) What is an SQL injection? How SQL injection must exploit security vulnerability in an application's software
- b) What do you mean by database security? When do database security issues arise?

## ASSIGNMENTS

### Network Cyber Security (CSP-14)

(Theory)

Full Mark – 100

#### Group 'A'

**Q. No 1. Answer all the questions, each within one word or one sentence. Marks: 1 × 10 = 10**

- a) HTTPS Stands for?
- b) What is DMZ?
- c) What are the types of Network security threats?
- d) IDS stands for?
- e) What is Honeypot?
- f) STORMWATCH is also known as \_\_\_\_\_.
- g) ACL Stands for?
- h) Define Server.
- i) SSID stands for?
- j) What are the different WLAN design structures?

#### Group 'B'

**Q. No.2 Short answer-type Questions (Word Limit: 100 Words)**

**Mark: 5 X 4 =20**

- a) Write short note on EAP-FAST.
- b) Differentiate between software based firewall and hardware based firewall.
- c) What is PKI? What are the components of PKI environment?
- d) Explain SQL Injection in details?

#### Group 'C'

**Q. No3. Medium answer-type Questions (Word Limit: 200 Words)**

**Mark: 10 X 4 = 40**

- a) Explain the security concerns for a web browser.
- b) Explain briefly Secure Hypertext Transfer Protocol.
- c) Explain briefly Wireless Network Security protocol.
- d) Explain' Wireless security policy.

#### Group 'D'

**Q. No4. Long answer-type Questions (Word Limit: 300 Words)**

**Mark: 15 X 2 = 30**

- a) Define Intrusion Detection Systems? Explain its Components?
- b) Explain the various web authentication techniques in details.

# ASSIGNMENTS

## (PRACTICAL)

### ASSIGNMENTS

#### Application Cyber Security Lab (CSPL-13)

##### (Practical)

**Answer all the question (each question carries 20 marks)**

**Full Mark – 100**

1. Explain the steps to protect a Microsoft Word Document of different version with different operating system.
2. Write down the steps to protect your personal computer system by creating User Accounts with Passwords and types of User Accounts for safety and security.
3. Write down the steps to protect a word document through a password.
4. Explain the steps “How to make strong passwords” and “passwords cracking techniques”.
5. Write the steps to remove Passwords from Microsoft Office Word 2016.

### ASSIGNMENTS

#### Network Cyber Security Lab (CSPL-14)

##### (Practical)

**Answer All Questions (each question carries 20 marks)**

1. Explain the different wireless network component.
2. Briefly describe the security measures to ensure safe browsing.
3. Discuss different security vulnerabilities of E-commerce applications.
4. Briefly explain the security features of firewall.
5. Briefly discuss different security steps to secure website from being hacked.