



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: 2019-20**

**POST GRADUATE DIPLOMA IN CYBER SECURITY  
(PGDCS)**

**ADVANCE DIPLOMA IN CYBER SECURITY  
(ADCS)**

**2<sup>nd</sup> Semester**

## **SUBMISSION DATES FOR ASSIGNMENTS**

Sl.No.	CODE	COURSE TITLE	DATE OF SUBMISSION
1	CSP-13	Application Cyber Security	Sunday, 24 <sup>th</sup> May 2020
2	CSP-14	Network Cyber Security	Sunday, 24 <sup>th</sup> May 2020
<b>PRACTICALS</b>			
3	CSPL-13	Application Cyber Security Lab	Sunday, 24 <sup>th</sup> May 2020
4	CSPL-14	Network Cyber Security Lab	Sunday, 24 <sup>th</sup> May 2020

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:**.....

**COURSE CODE**.....**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

## Application Cyber Security (CSP-13)

### (Theory)

Full Mark – 100

#### GROUP- 'A'

**Q. No. 1 Answer all the questions, each in one word**

**Marks: 1 × 10= 10**

- a) For user authentication, Digital Signature can be used. (True/False)
- b) In a strong password minimum character length is \_\_\_\_\_.
- c) Write the full form of COOP?
- d) A rootkit is a malicious code. (True/False)
- e) Heisen Bug comes under \_\_\_\_\_ category of Bug?
- f) Full form of PCI DSS is \_\_\_\_\_?
- g) Write the full form of COBIT
- h) What does SAR stand for?
- i) DSC is issued by \_\_\_\_\_?
- j) \_\_\_\_\_ is the primary law dealing with cybercrime and electronic commerce in India?

#### Group 'B'

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

**Marks:5 X 4 = 20**

- a) What are the common steps to ensure desktop security?
- b) Differentiate between strong and weak password.
- c) Define the relationship between BCP & DRP?
- d) What is the CIA Triad? Explain it.

#### Group 'C'

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

**Marks: 10 X 4 = 40**

- a) Discuss different types of Programming Bug with example.
- b) What is a Digital Signature? How its process to ensure Authentication.
- c) Give a brief description of multilevel database security.
- d) What is Reconnaissance? Discuss its types.

#### Group 'D'

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

**Marks: 15 X 2 = 30**

- a) Give a brief description of Computer Security Classification. How it will relate to security threats.
- b) Discuss ISO 27001 with all its feature, benefits and security management.

# ASSIGNMENTS

## Network Cyber Security (CSP-14)

### (Theory)

Full Mark – 100

#### GROUP- 'A'

**Q. No. 1 Answer all the questions, each in one word**

**Marks: 1 × 10= 10**

- a) What is the full form of NAT?
- b) Masquerade is a \_\_\_\_ type of attack.
- c) Write the full form of ACL?
- d) In \_\_\_\_ attack an attacker pings all possible IP addresses on a subnet to find out the host.
- e) STORMWATCH is also called as \_\_\_\_?
- f) NSM consist of \_\_\_\_ number of layers?
- g) What does WEP stand for?
- h) \_\_\_\_ is a kind of unwanted online communication.
- i) What are the commands that an SMTP receiver must support?
- j) Define the term HTTPS?

#### Group 'B'

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

**Marks:5 X 4 = 20**

- a) Discuss various types of Network Security Threats.
- b) Write down the role of IDS in an organization.
- c) What are the different attacks detection techniques for a Wireless System?
- d) Short notes on:- SSID & EAP-FAST.

#### Group 'C'

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

**Marks: 10 X 4 = 40**

- a) How Network Security Model can be used to mitigate an attack.
- b) Briefly discuss the protocols that are used in the E-mail system.
- c) Write a note on various web authentication techniques.
- d) Briefly describe SQL Injection.

#### Group 'D'

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

**Marks: 15 X 2 = 30**

- a) Give a brief description of the protection major against Android Malware.
- b) What are the security concerns for a web browser? Explain in brief.

**ASSIGNMENTS**

**(PRACTICAL)**

# ASSIGNMENTS

## Application Cyber Security Lab (CSPL-13)

**(Practical)**

Full Mark – 100

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

1. How to hack a strong password?
2. Write down the steps for denial of service attack.
3. Write down the steps to prevent a computer virus from spreading.
4. Explain the steps involved in forensic readiness planning.
5. Write down the steps to protect a word document through a password.

# ASSIGNMENTS

## Network Cyber Security Lab (CSPL-14)

**(Practical)**

Full Mark – 100

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

1. Write down the steps to configure Windows Firewall.
2. What measures should be taken to make the Wi-Fi network secure?
3. Write down the steps to install IDS in an Organization.
4. Define specific types of Client- To-Client attack.
5. Explain different design configurations of WLAN according to the IEEE 802.11 standard.