



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

ASSIGNMENTS

CSP-15, 16 & 17

(Theory & Practical)

SESSION: 2018-19

P.G DIPLOMA IN CYBER SECURITY
(PGDCS)

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 counselors 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 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 a 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, course title, enrolment no. and study center 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 assignment will carry 25% weightages 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 assignment or get fail mark in assignment you have to re-submit in the next year.

SUBMISSION DATES FOR ASSIGNMENTS

Sl. No.	Course Code	Name of the Course	Date of Submission	Day (As per Calendar)
Theory				
1	CSP-15	Web Technology	18th Nov 2018	Sunday
2	CSP-16	White Hat Hacking	18th Nov 2018	Sunday
3	CSP-17	Security Analysis & Reporting	18th Nov 2018	Sunday
Practical				
4	CSPL-15	Web Technology Lab	18th Nov 2018	Sunday
5	CSPL-16	White Hat Hacking Lab	18th Nov 2018	Sunday
6	CSPL-17	Security Analysis & Reporting Lab	18th Nov 2018	Sunday

NOTE: *Web Technology (CSP-15) and Web Technology Lab (CSPL-15) is only for 2018-19 Lateral Entry Students.*

ASSIGNMENTS

Web Technology (CSP-15)

(Theory)
Only for LE students (2018-19)

Full Mark – 100

GROUP-‘A’

Q. No. 1

Mark: 1 × 10= 10

- a) ARPANET stands for.
- b) SDSL stands for.
- c) What is Web Page?
- d) What is Net banking?
- e) Name any two antivirus Software available in Market.
- f) Name any two tools that is used for effective web designing.
- g) Name any four domain extension.
- h) What is tag in HTML?
- i) What is web Socket?
- j) What is Flash?

Group ‘B’

Q. No. 2 (Word Limit: 50 Words)

Mark: 5 × 4= 20

- a) What is dynamic web sites? What are its types?
- b) Why Website Security Is Important?
- c) What is XHTML? Explain.
- d) What is SVG? How to view SVG files? Explain.

Group ‘C’

Q. No. 3 (Word Limit: 200 Words)

Mark: 10 × 4= 40

- a) Differentiate between Static vs. Dynamic website
- b) Differentiate between HTML Vs. XHTML.
- c) What is Web Socket? What are the method and event associated with Web Socket object?
- d) Explain How Internet Works?

Group ‘D’

Q. No. 4 (Word Limit: 250 Words)

Mark: 15 × 2= 30

- a) Difference between HTML4 and HTML5
- b) Write the Steps to Build a Website.

ASSIGNMENTS

White Hat Hacking (CSP-16)

(Theory)

Full Mark – 100

GROUP-‘A’

Q. No. 1

Mark: 1 × 10= 10

- a) What are the types of Hacking?
- b) Name four programming language used in Hacking?
- c) What is System Hacking?
- d) What is Foot printing?
- e) What is LCP Program?
- f) What is key Logger?
- g) What is Legal Hacking?
- h) Define Eavesdropping?
- i) Define Skimming?
- j) What is a Wireless Sniffer

Group ‘B’

Q. No. 2 (Word Limit: 50 Words)

Mark: 5 × 4= 20

- a) What are the types of sources in the field of information gathering?
- b) Mention Advantages and Weaknesses of Information Gathering.
- c) What is the purpose of a Honeypot?
- d) What is Social Engineering? What are its types?

Group ‘C’

Q. No. 3 (Word Limit: 200 Words)

Mark: 10 × 4= 40

- a) What is SQL Injection and it’s Types? Explain.
- b) What is Hacking? Explain different phases of Hacking.
- c) How DoS Happens? Give a brief ideas.
- d) How hacking is different from Cracking? What is Legal Hacking and what is its use?

Group ‘D’

Q. No. 4 (Word Limit: 250 Words)

Mark: 15 × 2= 30

- a) What are the Tools Used for the Reconnaissance Phase in Hacking? Explain in details.
- b) What is Smurf Attacks? How to Protect Against Smurf Attacks? Explain

ASSIGNMENTS

SECURITY ANALYSIS AND REPORTING (CSP-17)

(Theory)

Full Mark – 100

GROUP-‘A’

Q. No. 1

Mark: 1 × 10= 10

- a) What is packet sniffer?
- b) Who are Hacktivists?
- c) What is the Nature of the Computer Security Community?
- d) NERC stand for.
- e) Define Cloud Computing.
- f) Routers operate at _____ of the OSI model, where they are responsible for forwarding packets between two or more networks.
- g) _____ is a tool that measures TCP and UDP bandwidth performance.
- h) Which _____ converts plaintext into cypher text in a bit-by-bit fashion.
- i) What is Firewall?
- j) _____ to protect the confidentiality of the organization’s most sensitive information.

Group ‘B’

Q. No. 2 (Word Limit: 50 Words)

Mark: 5 × 4= 20

- a) What is Granular Information Sharing?
- b) What is remote administration tool? What is its use?
- c) What is Inline Hooking?
- d) What is Key Exchange Algorithms?

Group ‘C’

Q. No. 3 (Word Limit: 200 Words)

Mark: 10 × 4= 40

- a) What are the factors that should be considered during the policy creation?
- b) Define Malware? Explain different types of malware available.
- c) Why is Penetration Testing Required? When to Perform Penetration Testing?
- d) Differentiate between Penetration Testing and Vulnerability Assessment.

Group ‘D’

Q. No. 4 (Word Limit: 250 Words)

Mark: 15 × 2= 30

- a) What are the Crisis Handling Steps? Explain.
- b) Explain Seven Principles of Network Security Analysis Strategy.

ASSIGNMENTS

(PRACTICAL)

ASSIGNMENTS

Web Technology Lab (CSPL-15)

(Practical)
Only for LE students (2018-19)

Full Mark – 100

Answer Any Five (each question carries 20 marks)

1. Write A JavaScript program to accept your first name and surname and concat it.
2. Write a Javascript program to convert Fahrenheit temperature to Celsius.
3. Write a HTML program to show the working of hyperlink.
4. Write down the steps for hosting a Website.
5. What are the ways to define a color in HTML? Explain with example.
6. Write down the steps to create a Flash Document.
7. Write a Javascript program to demonstrate the use of Alert, Confirm and Prompt dialog box.

ASSIGNMENTS

White Hat Hacking Lab (CSPL-16)

(Practical)

Full Mark – 100

Answer Any Five (each question carries 20 marks)

1. Explain Sniffers and its types.
2. What are the various methods of password cracking?
3. What are the phases involved in Session Hijacking?
4. Write down the steps to conduct SQL injection.
5. Explain the types of Denial of Service Attacks.
6. What are the different Virus detection methods?
7. Explain different types of Attacks.

ASSIGNMENTS

Security Analysis and Reporting Lab (CSPL-17)

(Practical)

Full Mark – 100

Answer Any Five (each question carries 20 marks)

1. What do you mean by Wireless Hacking Methodology? Explain.
2. Explain types of Intrusion Prevention Systems (IPS).
3. What are the different types of firewalls? Explain it.
4. Explain how you will prevent your networks from anonymous attack.
5. What are the different types of Phishing? Explain it briefly.
6. What are the different Malware Analysis techniques?
7. Explain briefly the five phases of Cyber Security Incident Management.