PG DIPLOMA IN INFORMATION SECURITY
(PGDIS)

ASSIGNMENTS
JULY 2020

SCHOOL OF VOCATIONAL EDUCATION AND TRAINING
INDIRA GANDHI NATIONAL OPEN UNIVERSITY
MAIDAN GARHI, NEW DELHI – 110 068

CONTENTS

Guidelines regarding submission of assignments

1. It is compulsory for the students to submit the prescribed assignments. They will not be allowed to appear for the term-end examination of a course if they do not submit the assignments in time for that course.

2. The assignment responses should be complete in all respects. Before submission, the students should ensure that they have answered all the questions in all assignments. Incomplete answer sheets bring poor grades.

3. The University/ Regional Centre has the right to reject the assignments received after the due date. Therefore, the students are advised to submit their assignments before the due date.

4. Students should submit before the last dates prescribed for submission of assignments.

5. In case the students have already done some assignments prescribed in a course, they are required to do the **left-over assignments before taking the Term-end Examination**. If they have qualified in a course on the basis of lesser number of assignments and Term-end Examination, they will **not be eligible to re-do the assignments** with a view to improve the overall qualifying score of that course.

6. In case any student fails to submit the assignments or fails to score minimum qualifying marks, s/he has to wait for fresh assignments meant for the current batch of students.

7. For their own record, students should retain a copy of all the assignment responses, which they submit.

8. Once the students get the pass marks in an assignment, they can not re-submit it for improvement of marks. If the student secured requisite marks in Term-End Examination and Assignments, but did not get requisite overall percentage, then the student can either resubmit the assignment or reappear for the term-end examination for securing the requisite overall percentage.

9. Assignments are not subject to re-evaluation.

Instructions for Doing Assignments

While answering Assignments, the following guidelines are required to be observed:

1. The student should write their Complete correct Enrolment Number, Name, Full Address, Signature and Date on the top right hand corner of the first page of the response sheet.
2. The students should write the Programme Title, Course Code and Course Title on the left hand corner of the first page of their response sheet. Course code may be reproduced from the assignment.

The top of the first page of your response sheet for each assignment should look like this:

PROGRAMME TITLE: .... ENROLMENT No.: ……………….
COURSE CODE: .... NAME : ……………………………
COURSE TITLE: ....
ADDRESS:……………………………………………………………………………...
SIGNATURE: ……………………
DATE: …………………………..

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3. The students should write the responses in their own hand. **They should not print or type the answers. They should not reproduce their answers from the units sent to them by the University. If they reproduce from units, they will get poor marks for the respective question**.

4. The students should write each assignment separately. All the assignments should not be written in continuity.

5. The students should write the question number with each answer.

6. The students should use only foolscap size paper for their response and tie all the pages carefully. Avoid using very thin paper. They should allow a 4 cm. margin on the left and at least 4 lines in between each answer. This may facilitate the evaluator to write useful comments on the margins at appropriate places.

7. The students should not copy from the response sheets of other students. If copying is noticed, the assignments of such students will be rejected, and disciplinary action can be taken against the students as per rules of the University.

8. Please remember that it is compulsory to send the scanned copies of handwritten assignments through email to the respective Regional Centre email before you can take the Term End Exams or else you will not be issued hall tickets.

   Under no circumstances should they be sent to the (SED) for evaluation.

Course Code   **:**   **MSEI-021**
Course Title   **:**   **Introduction to Information Security**
Maximum Marks   **:**   **20**
Last date of Submission   **:**   **31st October, 2020**

There are two questions in this assignment. Answer all the questions. You may use illustrations and diagrams to enhance your explanations.

Question 1:   What is virus? Explain its characteristics and types.

                                                                              (10 Marks)

Question 2:   What is malware and malicious code. Explain in detail.

                                                                              (10 Marks)

Course Code	**:**	**MSEI-022**
Course Title	**:**	**Network Security**
Maximum Marks	**:**	**20**
Last date of Submission	**:**	**31ˢᵗ October, 2020**

There are three questions in this assignment. Answer all the questions. You may use illustrations and diagrams to enhance your explanations.

Question 1: What is the need to secure protocols?

(5 Marks)

Question 2: Describe the concept of asymmetric cryptography. How asymmetric encryption works? Also explain its types.

(10 Marks)

Question 3: Explain the role of network security in the organization?

(5 Marks)

Course Code	:	**MSEI-023**
Course Title	:	**Cyber Security**
Maximum Marks	:	**20**
Last date of Submission	:	**31st October, 2020**

There are three questions in this assignment. Answer all the questions. You may use illustrations and diagrams to enhance your explanations.

Question 1: All the security measures that the organization adopts go in vain when employees get "social engineered" by strangers. Do you agree with this statement and also suggest the measures. **(10 Marks)**

Question 2: Explain the common forms of denial of service attacks? **(5 Marks)**

Question 3: Describe Explain the role of Certificate Authority in transmitting digital information through the mechanism of cryptography.

(5 Marks)

Course Code	:	**MSE-024**
Course Title	:	**Policy, Standards and Laws**
Maximum Marks	:	**30**
Last date of Submission	:	**31ˢᵗ October, 2020**

There are three questions in this assignment. Answer all the questions. You may use illustrations and diagrams to enhance your explanations.

Question 1: Policy must primarily reflect what is necessary for good security. Do you agree? How you will work out to prepare the security policy for making the organization free from the cyber crimes?

(10 Marks)

Question 2: Explain Uniform Domain-Name Dispute-Resolution Policy (UDRP).

(10 Marks)

Question 3: Do you think that the cyberspace and IPR are interlinked with each other. If yes, in what manner? If no, then how these are independent?

(10 Marks)

Course Code : **MSEI-025**
Course Title : **Application and Business Security Developments**
Maximum Marks : **20**
Last date of Submission : **31st October, 2020**

There are two questions in this assignment. Answer all the questions. You may use illustrations and diagrams to enhance your explanations.

Question 1: Why do you need coding standards and what are its advantages?

(**10 Marks**)

Question 2: Explain the characteristics of Well Formed Design.

(**10 Marks**)

Course Code	:	**MSEI-026**
Course Title	:	**BCP, DR Planning and Audit**
Maximum Marks	:	**20**
Last date of Submission	:	**31st October, 2020**

There are two questions in this assignment. Answer all the questions. You may use illustrations and diagrams to enhance your explanations.

Question 1: What is the need of Business Continuity Program? Explain different activities related to BCP.

(10 Marks)

Question 2: The data has to be stored on some data storage medium. Explain these storage media for back-ups and recovery.

(10 Marks)

Course Code	:	**MSEI-027**
Course Title	:	**Digital Forensics**
Maximum Marks	:	**20**
Last date of Submission	:	**31st October, 2020**

There are two questions in this assignment. Answer all the questions. You may use illustrations and diagrams to enhance your explanations.

Question 1: There are the cyber crimes that target computer networks or devices directly. Kindly explain such cyber crimes and the remedies available under law to protect from such crimes.

(10 Marks)

Question 2: Familiarity with the forensic analysis of digital evidence will help investigators in apprehending modern white collar criminals and exculpate the innocent. Explain the investigation process for analyzing the digital evidence.

(10 Marks)