

PG DIPLOMA IN INFORMATION SECURITY (PGDIS)

PGDIS/ASSIGN/2018

ASSIGNMENTS
January 2018



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

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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/ Programme Co-ordinator/ Study 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 enclose a self-addressed stamped assignment remittance-cum-acknowledgement card (**Form No. 1**) with each assignment response to ensure the delivery of assignments 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 to the Study Center.
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 except for factual errors, if any. The discrepancy noticed by the students in the evaluated assignments should be brought to the notice of the Study centre/ Programme Co-ordinator.

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:

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 submit your assignments before you can take the Term End Exams or else you will not be issued hall tickets. Also remember to keep a copy of your assignments with you and do take a receipt from your Study Center when you submit the assignments. In the event that you do not have a study center, please forward it to the following address:

Programme Coordinator, PGDIS
School of Vocational Education and Training
Block-15E, New Building
Indira Gandhi National Open University
Maidan Garhi New Delhi- 110068

Under no circumstances should they be sent to the (SED) for evaluation. After submitting the assignment at the Study Center in person, the students should get the acknowledgement from the Study Center on the prescribed assignment-cum-acknowledgement card (**Form No. 1**) otherwise, the assignment should be sent under certificate of posting through post.

FORM NO. 1

<p>Enrol. No. _____ Programme Title: _____</p> <p>Name : _____</p> <p>Course Code: _____ Medium: _____</p> <p>Signature of the Student Date : _____</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">  INDIRA GANDHI NATIONAL OPEN UNIVERSITY ASSIGNMENTS REMITTANCE -CUM-ACKNOWLEDGEMENT CARD </td> </tr> <tr> <td style="width: 50%; padding: 5px;"> <p>Enrol. No. _____ Name : _____ Course Code: _____</p> </td> <td style="width: 50%; padding: 5px;"> <p>Programme Title: _____ Medium : _____</p> </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> <p>Signature of the Student</p> <p>Name : _____ Address of the Student : _____ Date : _____</p> <p>(Please write your complete address and affix adequate postal stamp on reverse)</p> </td> </tr> </table>	 INDIRA GANDHI NATIONAL OPEN UNIVERSITY ASSIGNMENTS REMITTANCE -CUM-ACKNOWLEDGEMENT CARD		<p>Enrol. No. _____ Name : _____ Course Code: _____</p>	<p>Programme Title: _____ Medium : _____</p>	<p>Signature of the Student</p> <p>Name : _____ Address of the Student : _____ Date : _____</p> <p>(Please write your complete address and affix adequate postal stamp on reverse)</p>	
 INDIRA GANDHI NATIONAL OPEN UNIVERSITY ASSIGNMENTS REMITTANCE -CUM-ACKNOWLEDGEMENT CARD							
<p>Enrol. No. _____ Name : _____ Course Code: _____</p>	<p>Programme Title: _____ Medium : _____</p>						
<p>Signature of the Student</p> <p>Name : _____ Address of the Student : _____ Date : _____</p> <p>(Please write your complete address and affix adequate postal stamp on reverse)</p>							

<p style="text-align: center;">For Office Use Only</p> <p>S.No. _____ Date of Receipt: _____ Name of Evaluator: _____</p> <hr/> <p>Date of despatch to the Evaluator: _____</p> <p>Date of receipt from the Evaluator: _____</p>	<p style="text-align: center;">For Office Use Only</p> <p>S.No. _____</p> <p>Signature of the receiver _____</p> <p>Date : _____</p> <p style="text-align: right;">Seal</p>
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Affix Stamp Here

To

(ADDRESS OF THE STUDENT)

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Course Code : **MSEI-021**
Course Title : **Introduction to Information Security**
Maximum Marks : **20**
Last date of Submission : **30th March, 2018**

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

Question 1: Good security practices are never obvious, intuitive or easily incorporated into established routines. Do you agree and explain why?
(5 Marks)

Question 2 : List out the ethical and legal issues when advertising.
(5 Marks)

Question 3: Managers at any level may require a different view of information security business practices. Upper level management may need simply an executive overview, while middle management and user management may need to know more about prevention, detection, and incident reporting. Please explain.
(10 Marks)

Course Code : **MSEI-022**
Course Title : **Network Security**
Maximum Marks : **20**
Last date of Submission : **30th March, 2018**

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

Question 1: Explain the following :-

- a) Symmetric Watermarking
- b) Secure Socket Layer
- c) Handshake Protocol
- d) Encapsulating Security Payload
- e) Pretty Good Privacy

(10 Marks)

Question 2: Explain the difference between :-

- i) Text and Ciphertext
- ii) RSA and DSA
- iii) Safeword and Watchword
- iv) Electronic signatures and Digital Signatures
- v) Public Watermark and Private Watermark

(10 Marks)

Course Code : **MSEI-023**
Course Title : **Cyber Security**
Maximum Marks : **20**
Last date of Submission : **30th March, 2018**

There are two 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: Distributed databases is defined as databases located at different machines at the same or different locations that looks like one centralized database to the end user. What is the use of such distributed databases? Explain in detail.

(10 Marks)

Course Code : **MSE-024**
Course Title : **Policy, Standards and Laws**
Maximum Marks : **30**
Last date of Submission : **30th March, 2018**

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: ISO has established a policy committee DEVCO specifically to address the needs of developing countries. Explain the objectives and role of this committee.

(10 Marks)

Question 3: The IT Act amendments do not address jurisdictional issues. At a time when the Internet has made geography history, it was expected that the new amendments would throw far more clarity on complicated issues pertaining to jurisdiction. Explain your view on this.

(10 Marks)

Course Code : **MSEI-025**
Course Title : **Application and Business Security Developments**
Maximum Marks : **20**
Last date of Submission : **30th March, 2018**

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: Error handling is an important part of any real-world application. This provides a number of mechanisms that can be used to handle errors, both during the development process and once your application is in a production environment. Explain in detail.
(10 Marks)

Course Code : **MSEI-026**
Course Title : **BCP, DR Planning and Audit**
Maximum Marks : **20**
Last date of Submission : **30th March, 2018**

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

Question 1: Conventional security measures such as firewalls and SSL provide defense to some attacks but you should thoroughly validate your input and use parameterized stored procedures as a minimum defense. Suggest the various actions that must be taken to provide basic information security for the digital information, computers, and networks.

(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 : **30th March, 2018**

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

Question 1: Write short notes on :-

- a) Spoofing
- b) Paedophaely
- c) Cyber Stalking
- d) Phishing
- e) Cyber warfare

(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)