

# **PG DIPLOMA IN INFORMATION SECURITY (PGDIS)**

***PGDIS/ASSIGN/2016***

**ASSIGNMENTS**  
**January 2016**



**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 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 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:

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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 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 in your city/region, 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%; margin-top: 10px;"> <tr> <td style="text-align: center; padding: 2px;">For Office Use Only</td> </tr> <tr> <td>S.No. _____</td> </tr> <tr> <td>Date of Receipt: _____</td> </tr> <tr> <td>Name of Evaluator: _____</td> </tr> <tr> <td style="padding: 2px;">Date of despatch to the Evaluator: _____</td> </tr> <tr> <td style="padding: 2px;">Date of receipt from the Evaluator: _____</td> </tr> </table>	For Office Use Only	S.No. _____	Date of Receipt: _____	Name of Evaluator: _____	Date of despatch to the Evaluator: _____	Date of receipt from the Evaluator: _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center; padding: 5px;"> <b>INDIRA GANDHI NATIONAL OPEN UNIVERSITY</b>  <b>ASSIGNMENTS REMITTANCE -CUM-ACKNOWLEDGEMENT CARD</b> </td> </tr> <tr> <td style="width: 50%; padding: 5px;">                 Enrol. No. _____                  Name : _____                  Course Code: _____             </td> <td style="width: 50%; padding: 5px;">                 Programme Title: _____                  Medium : _____             </td> </tr> <tr> <td style="padding: 5px;">                 Signature of the Student                  Name : _____                  Address of the Student : _____                  Date : _____                  (Please write your complete address and affix adequate postal stamp on reverse)             </td> <td style="padding: 5px;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 2px;">For Office Use Only</td> </tr> <tr> <td>S.No. _____</td> </tr> <tr> <td>Signature of the receiver _____</td> </tr> <tr> <td>Date : _____</td> </tr> <tr> <td style="text-align: right; padding: 5px;">Seal</td> </tr> </table> </td> </tr> </table>	<b>INDIRA GANDHI NATIONAL OPEN UNIVERSITY</b> <b>ASSIGNMENTS REMITTANCE -CUM-ACKNOWLEDGEMENT CARD</b>		Enrol. No. _____ Name : _____ Course Code: _____	Programme Title: _____ Medium : _____	Signature of the Student Name : _____ Address of the Student : _____ Date : _____ (Please write your complete address and affix adequate postal stamp on reverse)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 2px;">For Office Use Only</td> </tr> <tr> <td>S.No. _____</td> </tr> <tr> <td>Signature of the receiver _____</td> </tr> <tr> <td>Date : _____</td> </tr> <tr> <td style="text-align: right; padding: 5px;">Seal</td> </tr> </table>	For Office Use Only	S.No. _____	Signature of the receiver _____	Date : _____	Seal
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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** : **30<sup>th</sup> March, 2016**

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

**Question 1:** Managing a network is a definite necessity for any organizational network. Explain the activities required for network management.

**(10 Marks)**

**Question 2:** The OSI model is not a single definition of how data communications actually takes place in the real world. It is functionally layered and numerous protocols exist at each layer. Explain these layers in detail.

**(10 Marks)**

**Course Code** : **MSEI-022**  
**Course Title** : **Network Security**  
**Maximum Marks** : **20**  
**Last date of Submission** : **30<sup>th</sup> March, 2016**

**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 process for transmitting the secure data using cryptography.  
**(10 Marks)**

**Question 2:** Biometric security offers a different method of authentication by using something that is far more unique than a password. Do you agree? Explain in detail the process of biometric.  
**(10 Marks)**

**Course Code** : **MSEI-023**  
**Course Title** : **Cyber Security**  
**Maximum Marks** : **20**  
**Last date of Submission** : **30<sup>th</sup> March, 2016**

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

**Question 1:** Explain how client server model relates to the Internet.

**(10 Marks)**

**Question 2:** The Internet is not just a vast array of computers connected to each other. There are a host of networking devices like the router, which control the data traffic between and within networks. Explain Internet routing in detail?

**(10 Marks)**



**Course Code** : **MSE-024**  
**Course Title** : **Policy, Standards and Laws**  
**Maximum Marks** : **30**  
**Last date of Submission** : **30<sup>th</sup> March, 2016**

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

**Question 1:** Explain the brief evolution of the Information Technology Act, 2000. Please indicate the loopholes present in this Act and suggest the ways to improve.

**(10 Marks)**

**Question 2:** Because of its facilitation of privacy, and the diminution of privacy attendant on its prohibition, cryptography is also of considerable interest to civil rights supporters. But there have been a lot of controversial legal issues surrounding cryptography. Please throw light on such legal issues.

**(10 Marks)**

**Question 3:** 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)**

**Course Code** : **MSEI-025**  
**Course Title** : **Application and Business Security Developments**  
**Maximum Marks** : **20**  
**Last date of Submission** : **30<sup>th</sup> March, 2016**

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

**Question 1:** Design process is a step-by-step and repetitive procedure where software is simulated according to the requirements. Do you think that design process is required for better quality software. Please explain in detail.

**(10 Marks)**

**Question 2:** A coding standards document tells developers how they must write their code. Instead of each developer coding in their own preferred style, they will write all code to the standards outlined in the document. Explain this in detail.

**(10 Marks)**

**Course Code** : **MSEI-026**  
**Course Title** : **BCP, DR Planning and Audit**  
**Maximum Marks** : **20**  
**Last date of Submission** : **30<sup>th</sup> March, 2016**

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

**Question 1:** Regardless of the prevention techniques employed, possible threats that could arise inside or outside the organization need to be assessed. Although the exact nature of potential disasters or their resulting consequences are difficult to determine, it is beneficial to perform a comprehensive risk assessment of all threats that can realistically occur to the organization. Explain in detail.

**(10 Marks)**

**Question 2:** What is risk mitigation and explain its type?

**(10 Marks)**

**Course Code** : **MSEI-027**  
**Course Title** : **Digital Forensics**  
**Maximum Marks** : **20**  
**Last date of Submission** : **30<sup>th</sup> March, 2016**

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

**Question 1:** The white-collar crime has always presented enormous problems to the investigators in all the aspects of the investigation and a brief reference to these problems would be in order. Elaborate and describe different types of the white collar crime.

**(10 Marks)**

**Question 2:** Where is the data stored in the mobile. Explain the techniques for protecting such data.

**(10 Marks)**