

प्रगत संगणन विकास केंद्र
CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

ONLINE DIPLOMA
ADMISSION BOOKLET

May 2021 Batch

**Process of Admission to
Online Diploma Courses of C-DAC**

- **Diploma in IT Infrastructure, Systems & Security (e-DITISS)**

C-DAC's Online Diploma Courses and Eligibility Criteria

C-DAC's Online Diploma courses are fulltime courses of 600 hours (20 weeks duration) with minimum 6 hours online classes (theory and/or practical) daily (excluding announced holidays). The list of Online Diploma courses along with their eligibility criteria and fees is given in Table 1.

The Online Diploma courses shall be delivered in ONLINE mode. Students are required to have laptops/PCs with high-speed uninterrupted internet connection, webcam and microphone to effectively participate in the course from their homes or personal places.

Table 1: C-DAC's Online Diploma courses and their eligibility criteria.

COURSE CODE	COURSE NAME	ELIGIBILITY
e-DITISS	Diploma in IT Infrastructure, Systems & Security	<ul style="list-style-type: none">• Graduate in Engineering in IT, Computer Science, Electronics, Telecommunications, Electrical, Instrumentation, OR• Post Graduate Degree in Computer Science, IT, Electronics, Mathematics, Statistics, OR• MCA

Detail of Online Diploma Courses

1 Diploma in IT Infrastructure, Systems & Security (e-DITISS)

e-DITISS is targeted towards grooming students in the arena of human-computer interaction and network security. The objective of this course is to enable the students to understand the concepts of network security and learn the techniques of detecting the attacks and securing a network from internal and external attacks. At the end of the course, the student will be able to recognize a variety of generic security threats and vulnerabilities, understand the principles and practices of cryptographic techniques, identify and analyze particular security problems for a given application and apply appropriate security techniques to solve the security issues. The major modules covered in e-DITISS are:

- Fundamental of Computer Networks
- Concepts of Operating Systems and Administration
 - Linux OS and Security
 - Window OS Administration
- Security Concepts
 - MySQL
 - Web Application Security
 - Mobile Security
 - Python

- Ethical Hacking
- Public Key Infrastructure
- Network Defence and Countermeasures
- IT Infrastructure Management
- Aptitude and Communication
- Project

Laptop/Desktop Configuration & Software Requirements

1 Diploma in IT Infrastructure, Systems & Security (e-DITISS)

Client Machine (Desktop/Laptop)		
Processor: Intel Core i7 (Preferred)		
Memory: 16 GB (Preferred)		
Hard Disk: 500 GB or above (400 GB to 500 GB free space in Single Drive)		
Network: Ethernet / WiFi with 25 Mbps Speed Connection (UL/DL)		
Module Name	Software	Hardware
All Modules	Windows 8 or above, Professional Virtual Box Mozilla/Chrome latest version Open Office	Web Camera, Headphone with Mic
Concepts of Operating Systems and Administration <ul style="list-style-type: none"> ○ Linux OS and Security ○ Window OS Administration 	<ul style="list-style-type: none"> ○ Linux Cent OS-7 or Above/ Fedora latest version Kali Linux ○ Windows Server 2016 or above, VMWare Workstation 15.0 or above 	--
Fundamentals of Computer Networks	GNS	--
Security Concepts <ul style="list-style-type: none"> ○ MySQL ○ Web Application Security ○ Mobile Security ○ Python ○ Ethical Hacking 	<ul style="list-style-type: none"> ○ MySQL ○ Netcat, USB Pratirodh and App Samvid tools for System security, Metasploit, Nessus, JS guard ○ OWASP, Android Simulator ○ Python 3.x IDE ○ Whois, Burp suit, ZAP 	--
Public Key Infrastructure	Openca, Debian 10	--
Network Defence and Countermeasures	Wireshark, Putty, WinSCP, Nmap, Debian 10	--
IT Infrastructure Management	SNMP enumeration tool	--

Note: The tools mentioned above for the given modules are to be installed as per the instructions from the respective faculty members from time to time.