



DEEN DAYAL UPADHYAY KAUSHAL KENDRA (DDU-KK)

DEVI AHILYA VISHWAVIDYALAYA, INDORE

(Under UGC Scheme for Skill Development)

2nd Floor Vigyan Bhawan, Takshashila Campus, Khandwa Road, Indore

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Date: 20 January 2023

DDU-KK offers a course only for UTD students

on

CYBER SECURITY

(4 Credit course at undergraduate level as per UGC guidelines)

Course duration: 27th January 2023 to 29th April 2023

The classes will be scheduled on **Friday & Saturday from 10:00 am to 12:00 noon** at DDU-KK, DAVV, Indore

Registration Procedure

- The students who wish to opt this course, are required to upload letter from HoD for verification of UTD student.
- The registration form is available on the link: <https://forms.gle/yTzk5aefQh61HkJ1A> and the letter should be uploaded in it.
- The link of registration will be closed on **25th January 2023 at 2:00 pm.**

***** SYLLABUS IS INCLOSED IN CONTINUATION.**

Syllabus

Module	Module Name	Module Content	Learning Outcome
Module- I	Introduction to Cyber Security	Defining Cyberspace and Overview of Computer and Web- technology, Architecture of cyberspace, Communication and web technology, Internet, World wide web, Advent of internet, Internet infrastructure for data transfer and governance, Internet society. Regulation cyberspace, Concept of Cyber Security, Issues and challenge of Cyber Security.	After completion of this module, students would be able to understand the concept of Cyber Security and issues and challenges associated with it.
Module- II	Cybercrime and Cyber law	Classification of cybercrime, Common cybercrimes- cybercrime targeting computers and mobiles, cybercrime against woman and children, financial frauds, social engineering attacks, malware and ransomware attacks, zero day and zero click attacks. Cybercriminals modus-operandi Reporting of cybercrimes, Remedial and mitigation measures, Legal perspective of cybercrime, IT Act, 2000 and its amendments, Cybercrime and offences, Organizations dealing with Cybercrime and Cyber Security in India, Case studies.	Students at the end of this module, should be able to understand the cybercrimes, their nature, legal remedies and as to how report the crimes through available platforms and procedures.
Practical	<ol style="list-style-type: none"> 1. Checklist for reporting cybercrime at Cybercrime Police Station. 2. Checklist for reporting cybercrime online. 3. Reporting phishing emails. 4. Demonstration of email phishing attack and preventive measures. 		
Module- III	Social Media Overview and Security	Introduction to Social networks. Types of social media, social media platforms, social media monitoring, Hashtag, Viral content, social media marketing, social media privacy, Challenges, opportunities and pitfalls in online social network, Security issues related to social media, Flagging and reporting of inappropriate content, Laws regarding posting of inappropriate content. Best practices for the use of social media, Case studies	On completion of this module, students appreciate various privacy and security concerns on online social media and understand the reporting procedure of inappropriate content, underlying legal aspects and best practices for the use of social media platform.
Practical	<ol style="list-style-type: none"> 1. Facebook privacy security settings. 2. Basic checklist, privacy and security settings for popular social media platforms. 3. Reporting and redressal mechanism for violations and misuse of social media platforms 		

Module- IV	E-Commerce and Digital Payments	Electronic Commerce definition, Main components of E- Commerce, Elements of E- Commerce security, E-Commerce threats, E-Commerce security best practices, Introduction to digital payments, Components of digital payments, and stake holders, Modes of digital payments-Banking Cards, Unified Payment Interface (UPI), e- Wallets, Unstructured Supplementary Service Data (USSD), Aadhar enabled payments, Digital payment related common frauds and preventive measures. RBI guidelines on digital payment and customer protection in unauthorized banking transactions. Relevant provisions of Payment settlement Act, 2007	After the completion of this module, students would be able to understand the basic concepts related to E-Commerce and digital payment. They will become familiar to various digital payment modes and related Cyber Security aspects, RBI guidelines and preventive measures against digital payment frauds.
Practical	<ol style="list-style-type: none"> 1. Configuring security settings in Mobile Wallets and UPIs. 2. Checklist for secure net banking. 		
Module- V	Digital Devices Security, Tools and Technologies for Cyber Security	End Point device and Mobile phone security, Password policy, Security patch management, Data backup, Downloading and management of third party software, Device security policy, Cyber Security best practices, Significance of host firewall and Anti-virus, Management of host firewall and Anti-virus, Wi-Fi security, Configuration of basic security policy and permissions	Students, after completion of this module will be able to understand the basic security aspects related to Computer and Mobiles. They will be able to use basic tools and technologies to protect their devices.
Practical	<ol style="list-style-type: none"> 1. Setting, configuring and managing three password policy in the computer (BIOS, Administrator and Standard User). 2. Setting and configuring two factor authentication in the Mobile phone. 3. Security patch management and updates in Computer and Mobiles. 4. Managing Application permissions in Mobile phone. 5. Installation and configuration of computer Anti-virus. 6. Installation and configuration of Computer Host Firewall. 7. WiFi security management in computer and mobile. 		
References	<ol style="list-style-type: none"> 1. Cyber Crime Impact in the New Millennium, by Marine R. C, Armer Press. 2. Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives by Sumit Belapure and Nina Godbole, Wiley India Pvt. Ltd. 3. Security in the Digital Age: Social Media Security Threats and Vulnerabilities by Henry A. Oliver, Create Space Independent Publishing Platform. 4. Electronic Commerce by Elias M. Awad, Prentice Hall of India Pvt Ltd. 5. Cyber Laws: Intellectual Property & E-Commerce Security by Kumar K, Dominant Publishers. 6. Network Security Bible, Eric Cole, Ronald Krutz, James W. Conley, 2nd Edition, Wiley India Pvt. Ltd. 7. Fundamentals of Network Security by E. Maiwald, McGraw Hill. 		
