

Here's the detailed course lesson plan for "**Introduction to Cyber Security**" formatted for easy reference:

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## **Introduction to Cyber Security**

### **Course Lesson Plan**

#### **Week 1: Introduction to Cyber Space**

- **History of the Internet** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Cyber Crime** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Information Security** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Computer Ethics and Security Policies** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Quiz**

#### **Week 2: Choosing the Best Browser & Email Security**

- **Guidelines for Choosing Web Browsers** – [Mr. Arun Kumar- CISSP]
- **Securing Web Browsers** – [Mr. Arun Kumar- CISSP]
- **Antivirus Basics & Importance** – [Mr. Arun Kumar- CISSP]
- **Email Security Best Practices** – [Dr. Ajay Prasad, UPES, Dehradun]
- **Quiz**

#### **Week 3: Secure Passwords & Wi-Fi Security**

- **Guidelines for Secure Passwords** – [Mr. Arun Kumar- CISSP]
- **Two-Step Authentication & MFA** – [Mr. Arun Kumar- CISSP]
- **Password Manager Usage** – [Mr. Arun Kumar- CISSP]
- **Wi-Fi Security Measures** – [Dr. Jeetendra Pande]
- **Quiz**

#### **Week 4: Social Media & Windows Security**

- **Social Media Security Guidelines** – [Dr. V.V. Rao, Scientist- CERT-In]
- **Best Practices for Safer Social Networking** – [Dr. V.V. Rao, Scientist- CERT-In]
- **Basic Security for Windows** – [Dr. Jeetendra Pande, Uttarakhand Open University]

- **User Account Password Protection** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Quiz**

#### **Week 5: Smartphone Security Guidelines**

- **Introduction to Mobile Security** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Smartphone Security Best Practices** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Android Security Essentials** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **iOS Security Fundamentals** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Quiz**

#### **Week 6: Cyber Security Initiatives in India**

- **Counter Cyber Security Initiatives in India** – [Mr. Ashutosh Bahuguna, Scientist- CERT-In]
- **Cyber Security Exercises** – [Mr. Ashutosh Bahuguna, Scientist- CERT-In]
- **Cyber Security Incident Handling** – [Mr. Ashutosh Bahuguna, Scientist- CERT-In]
- **Cyber Security Assurance & Regulations** – [Mr. Ashutosh Bahuguna, Scientist- CERT-In]
- **Quiz**

#### **Week 7: Online Banking, Credit Card & UPI Security**

- **Online Banking Security Measures** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Mobile Banking Security Essentials** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Security of Debit & Credit Cards** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **UPI Security Best Practices** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Quiz**

#### **Week 8: Micro ATM, e-Wallet & POS Security**

- **Security of Micro ATMs** – [Dr. Jeetendra Pande, Uttarakhand Open University]

- **e-Wallet Security Guidelines** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Security Guidelines for Point of Sales (POS)** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Quiz**

#### **Week 9: Social Engineering Threats**

- **Understanding Social Engineering** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Types of Social Engineering Attacks** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **How Cyber Criminals Operate** – [Er. Jayash Sharma, Anand Engineering College]
- **How to Avoid Becoming a Victim** – [Er. Jayash Sharma, Anand Engineering College]
- **Quiz**

#### **Week 10: Cyber Security Threat Landscape & Techniques**

- **Cyber Security Threat Landscape** – [Dr. A Murli Rao, IGNOU]
- **Emerging Cyber Security Threats** – [Dr. A Murli Rao, IGNOU]
- **Cyber Security Techniques & Best Practices** – [Ms. Tripti Misra & Ms. Shahina Anwaru, Assistant Professors, UPES, Dehradun]
- **Firewall Implementation & Importance** – [Dr. Ajay Prasad, UPES, Dehradun]
- **Quiz**

#### **Week 11: IT Security Act & Miscellaneous Topics**

- **Understanding the IT Act in India** – [Dr. Darpan Anand, Associate Professor, Chandigarh University]
- **Hackers, Attackers & Countermeasures** – [Dr. A Murli Rao, Head- Computer Division, IGNOU]
- **Web Application Security Essentials** – [Dr. A Murli Rao, Head- Computer Division, IGNOU]
- **Digital Infrastructure Security** – [Dr. A Murli Rao, Head- Computer Division, IGNOU]
- **Defensive Programming for Cyber Security** – [Dr. A Murli Rao, Head- Computer Division, IGNOU]
- **Quiz**

## Week 12: Information Destruction & Recovery Tools

- **Recovering from Information Loss** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Securely Destroying Sensitive Information** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Using CCleaner for Windows Security** – [Dr. Jeetendra Pande, Uttarakhand Open University]
- **Quiz**

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This structured lesson plan ensures a **comprehensive** and **systematic** approach to learning **Cyber Security Fundamentals** in an easy-to-follow **self-paced** format. Let me know if you need modifications or additions! 🚀