**e-ITEC PROPOSAL (2021-2022)**

**Specialized Training Programme in Cyber Attacks and Prevention Techniques**

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| **Heading** | **Details** |
| Name of the Institute | Centre for Development of Advanced Computing, Mohali |
| Name of the Course | Technology Innovation and Entrepreneurship |
| Proposed Dates and Duration of the Course in week | September 20-24, 2021 (One Week) |
| Start date | September 20, 2021 |
| End date | September 24, 2021 |
| Eligibility Criteria for Participants:Educational QualificationWork ExperienceAge LimitTarget group (Level of participants and target ministry/department etc. may be identified) | Technical Graduate (Electronics/ Computer Science/ Telecommunications/ or equivalent) with working knowledge of computers.As per MEA guidelines As per MEA guidelines* Working Professional with knowledge of computers, Network Engineers, Security Analyst, Incident Responders, Programmers, Information Security Analyst, Cyber Security Experts
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| Aims & Objectives of the Course | At the end of the course, participants will be able:* To understand cyber security concepts & terminology.
* To understand different types of cyber-attacks and their impacts.
* To prevent attacks and other threats in a network or Internetwork.
* To understand about IDS & IPS
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| Course Content | The content of this course are focused on Cyber Attacks and Prevention Techniques. During training following topics will be covered: * Cyber security overview
* Security Threats and Breaches
* Top Cyber Security Threats of 2020
* Cyber-attacks and impacts
* Malwares
* Password Attacks
* DDoS Attacks (Distributed Denial of Service Attacks)
* Phishing Attacks
* Network security methods
* IPtables
* Antivirus and Firewalls
* Honeypots/Honeynets
* Vulnerability Assessment
* Introduction to IDS and IPS
* Function of an IDS & IP
* The analyst's role in detection
* Flow process for Snort
* Case study of latest attacks
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| Course Timings | **4 Hours per day starting at** 14:00 HRS (IST), 5 days |
| Mode of Evaluation of Performance of the ITEC Participant | Theory/Quiz/Assignment/ presentations |