**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 Qualification  Work Experience  Age Limit  Target 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 |
| 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 |
| 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 |
| 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 |