

The following are the details of Summer courses being offered during May – July 2019

Course1: Network Security

20th – 24th May 2019

Prospective external Experts- (i) Prof. Sukumar Nandi, IITG (ii) Prof M. S. Gaur, IIT Jammu (iii) Dr. Brijeswar Bezwada, IITH (iv) Lab- Net Sim Inc. Bengaluru

Experts from host institutes- (v) Dr. R. Padamavathy / Dr. Rashmi Ranjan Rout, NITW (vi) Prof. Vijay Laxmi, MNITJ (vii) Dr. Pilli Emmanuel Shubhakar, MNITJ (viii) Dr. R. B. Battula, MNITJ

Contents of modules of Network security

S.No.	Module Name	Topics
1.	Network Security – 1	Introduction to Network Layers; Why TCP / IP Model? Network Security: Physical and MAC Layer
2.	Network Security – 2	Routing and Transport Layer - IPSec, SBGP, ARP –TCP SYN Flood / Scan Attacks
3.	Network Security – 3	Introduction to Web Security: Application Layer Protocols - HTTP, HTTPS, SMTP, etc. Browser security. Web Application Security - SQL Injection, CSRF & XSS
4.	Wireless Security Next Gen Nets	Wireless Security Virtualization; Next Generation Security issues
5.	Blockchain and IoT Security	Blockchain Technology and its importance Permissioned / Permissionless Blockchain, Distributed / Centralized architecture, Consensus and consistency for IoT security Case Studies : Bitcoin and Ethereum

Principal Coordinator-Academy	Co- Principal Coordinator-Academy	Participating Academies and Local Coordinator Details
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