

## Registration

Name of the Applicant (first, last):

.....

Gender:.....

Designation: .....

Highest Qualification: .....

Name and Address of the Organization/Institute:.....

Category : (GEN/OBC/SC/ST/Others).....

City/town:.....

Email:.....

Phone Number:.....

Mobile Number:.....

Do you need accommodation?

(Yes/No):.....

Transaction ID (Applicable for Online

Transaction):.....

Signature of the Applicant:.....

Signature and Seal of the Forwarding Authority

Name .....

Designation .....

Affix passport  
size  
photograph

### Workshop Duration

**24 Hrs (Theory, Hands-on & Tutorial)**

## Regional Institute of Science and Technology (RIST)

Techno City, Killing Road,

9th Mile, Ri-Bhoi, Meghalaya-793101

Ph. 0361-2895071,097060-91836,

website : [www.rist.ac.in](http://www.rist.ac.in)

## Course Coordinators from Academy

- **Prof. Ratnajit Bhattacharjee**  
*Principal Investigator, E&ICT Academy, IIT Guwahati.*
- **Prof. Rohit Sinha**  
*Co-Principal Investigator, E&ICT Academy, IIT Guwahati.*
- **Dr. Gaurav Trivedi**  
*Co-Principal Investigator, E&ICT Academy, IIT Guwahati.*

## Expert from Academia and Industry

- **Mr. Samba Murthy C V**  
Consultant Trainer, Techvictus , New Delhi / Bangalore

## How to Reach RIST

RIST is located very strategically in the border of Assam in the state of Meghalaya in close proximity to the city of Guwahati. (Gate way of North east)

### BY ROAD:

**From Guwahati:** From ISBT to RIST 12 kms ; From Dispur to RIST- 6 Kms

Regular City Bus service is available to the CRPF Group Centre, 9th Mile from there share Auto is available to the College.

### From Shillong:

Shillong, the capital of Meghalaya, is only 85 km to the RIST Campus. SUMO services and bus is available at regular interval for Shillong till CRPF Group Centre, 9th Mile. From there share Auto is available to the College.

### AIRPORT:

The nearest Airport is LGB Airport, Guwahati which is only 40km from the Campus

Airport Transfer: Taxi & Autorikshaw services are available at Guwahati Airport.

### RAIL HEAD:

Guwahati is the nearest railway station, which is about 15 km from the campus. Regular Auto and Bus services are available from the Rly. Station.



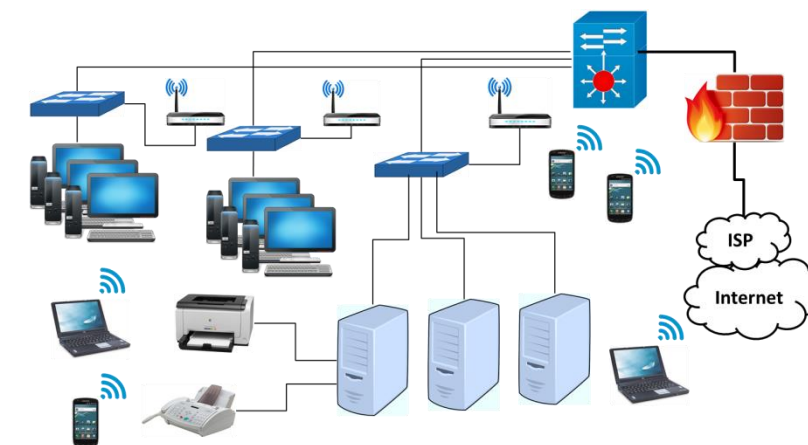
An Initiative of  
**Ministry of Electronics & Information Technology  
(MeitY), Government of India**



**Electronics & ICT Academy  
IIT Guwahati, Assam**



## Building Small office Networks - Workshop



Organized with support from  
**RIST and**

**Techvictus Consultancy Services**



Applications are invited from Faculty Members/ Research Scholars/PG & UG Students/Lab Technicians/Project Staffs from Universities/Colleges/Schools & Industry Personnel working in the concerned discipline to attend the workshop  
on

**“Building Small office Networks”**

**Course Date: 14th – 15th October, 2017**

**Last Date of Registration: 11.10.2017**

**(Online Registration Link will be open from 3.10.2017)**

**Venue: RIST**

## Objective of the Course

Workshop Objective is to impart training and hands on practice to a level where students can build small office networks.

On completion the students will be capable of expanding their knowledge in networking and seek career opportunities in the Networking world

The workshop will also focus on practical aspects and include examples which are relevant to the current industry requirements.

## Course Programme

Workshop is split into three parts:

- Lectures to cover the concepts, domain and product knowledge
- Labs/Hands-on sessions in configuring, operating and troubleshooting various Network Elements
- Lab exercises
- Project.

## Who Can Attend

Programme is open to Faculty Members, Research Scholars, PG & UG Students, Lab Technicians and Project Staffs from Universities, Colleges & Schools. Industry Personnel working in the concerned/allied discipline may also apply.

## Contact Details

**For more details or any queries please contact  
Project Manager,**

**E&ICT Academy, IIT Guwahati**

**Email: [eictacad@iitg.ernet.in](mailto:eictacad@iitg.ernet.in), [eictacad@gmail.com](mailto:eictacad@gmail.com)**

**Phone No: +91- 7086502139, +91-3612586442**

**(Working Hours 9:30 am to 5:30 pm)**

## Course Outcome

The participants will be given a thorough understanding of the following topics:

- Networking Concepts, Networking Essentials
- Networking Protocols :
  - Ethernet (Physical layer and Datalink layer)
  - IPv4 / IPv6 as Ratable protocol
  - Connected, Static Routes
  - Routing protocols (OSPF)
  - ARP, ICMP
  - TCP / UDP as Transport layer protocol
  - DHCP, DNS, HTTP as application Protocols
- Configuring, operating Cisco Routers and Switches
- Network Security
- Design, Plan, Prepare and Implement small office networks

## Lab Exercises and Project

1. Lab exercises will be of the following type:
  - Configure Cisco switches, Routers
  - Configure Servers for DHCP, DNS, web services
  - IP address planning
2. Project will be to build a small office network based on :
  - No. of network devices / users
  - Type users and bandwidth requirement
  - Building seating capacity
  - Individual floor plan
  - Security requirement
  - Redundancy (back up) requirements

**For details of the programme and course contents etc., please log on to Electronics and ICT Academy website: <http://eict.iitg.ernet.in/>**

## Theoretical and Practical Sessions

1. Networking Essentials
  - Packet Switching
  - Network Identities
  - TCP/IP Model
2. Networking Protocols
  - Ethernet
  - IPv4, IPv6, OSPF
  - TCP, UDP
  - ARP, DHCP, DNS
3. Network Services
  - NAT/PAT, ACLs
4. Switches, Switching Principles
5. Routers, Routing Principles
6. Building Small office networks
  - Requirement Analysis
  - Planning
  - Implementation
  - Operation and Verification

## About E&ICT Academy

Electronics and ICT Academy is an initiative of Ministry of Electronics & Information Technology (MeitY) Ministry of Communications and IT, Govt. of India for Faculty/ Research Scholar Development Programme.

Academy has planned short term training programmes on fundamental and advanced topics in IT, Electronics & Communication, Product Design, Manufacturing with hands on training and project work using latest software tools and systems.

In addition, the Academy will conduct specialized/customized training programmes and research promotion workshops for corporate sector & educational institutions.