

# Project Submission Guideline (Optional)

IT 413(AL) Advanced Networking  
Department of Mathematics and Information Technology  
Concordia University of Edmonton

## Project Format

### Submission File Requirements:

- **Project Packet Tracer File:** Submit as `project.pkt`.
- **Project Report:** Submit as `<studentID>.pdf`.

## Project Report Contents

### 1. Configuration Commands for Each Router

- Include all necessary commands used to configure each router in the network.
- Ensure each command is documented clearly, making it easy to replicate the configuration.

### 2. IP Address Table

- Structure your table with the following columns:
  - **Device** (e.g., Router1, PC1, etc.)
  - **Interface** (e.g., G0/0, F0/1)
  - **IPv4 Address**
  - **Subnet Mask**
  - **Default Gateway**
- **Note:** Assign IP addresses efficiently and avoid using addresses from the given topology diagram.

### 3. VLSM Table

- Structure your VLSM table with these columns:
  - **Network**
  - **Hosts**
  - **Required IPs**
  - **Given/Available IPs**
  - **Host Bits**
  - **Network Bits**
- Assume at least 100 hosts for each network, excluding router-to-router networks.
- Use the most efficient IP address allocation based on your VLSM planning.

## Network Requirements

- Configure the following devices:
  - **Servers:** DNS Server, Web Server, Email Server
  - **Network Devices:** Printer, PCs, Laptops
- Use **six routers** as indicated in the provided diagram. Retain the router names for consistency.
- **Design Flexibility:** You may design the network to your preference, using the topology diagram as a reference.

## Important Notes

- **Independent Work:** This is an individual project; each student is expected to complete the project independently.
- **Originality:** Incomplete projects or any form of copying will result in disqualification of the project.
- **Assumption of IP Addresses:** Select IP addresses that are not in the provided topology diagram.

## Deadline

Please refer to Moodle for the submission deadline and platform details.