Course Aims

- To gain in-depth introduction to a wide range of topics in the field of computer networks, including the Internet

- To obtain hands-on understanding of networking protocols

- To gain skills in network programming, designing and implementing network protocols, evaluating network performance and problem solving

- To build necessary foundational knowledge required

Labs

- 2 hour lab sesionstarting **Week 2**
- Hands

Assessment

- Hands-

Assessment

NOTE:

Accounts for accessing lab machines

Be original !!

- ## Collaboration

  - You may discuss approaches, not solutions
  - You must submit your own work
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- Introductory (first course) course in computer network
    - Learn

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1. To learn how the Internet works

   - Internet is a complex global infrastructure
   - What are the organising principles behind the Internet?
   - What really happens when you "browse the Web"?
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What isuthisucour about ?

1. To learn how the Internet works
   - Internet is a complex global infrastructure
   - What are the organising principles behind the Internet?
   - What really happens when you "browse the Web"?
   - What are TCP/IP, DNS, HTTP, NAT, VPNs, 802.11,…. anyway?

2. To learn the fundamentals of computer networks
   - What issue you need to take into consideration to make a computer network work well?
   - What design strategies have proven valuable?
   - How do we evaluate network performance?

Nano-scale computer networks?

Pre-requisites

- Good understanding of algorithms, data structures and basic probability
- Proficient in programming: C, Java or Python