

COURSE

COMPUTER NETWORKS

Chapter
00

COURSE INTRODUCTION

Lecturer: Nguyen Viet Ha, Ph.D.

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Lecture

❖ **Lecturer:** Nguyen Viet Ha, Ph.D.



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- Chapter 1: Overview of Network
- Chapter 2: Ethernet
- Chapter 3: Packet
- Chapter 4: IPv4
- Chapter 5: IPv6
- Chapter 6: UDP Transport
- Chapter 7: TCP Transport
- Chapter 8: TCP Reno and Congestion Management

❖ **Reference:**

- Peter L Dordal, *An Introduction to Computer Networks*, available at: <http://intronetworks.cs.luc.edu/>.

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Schedule

- ❖ Three (3) credits / 30 periods.
- ❖ Four (4) periods / week.
 - (First week is 2 periods only)
- ❖ 8 weeks.
 - Plan: January 04, 2022 → February 22, 2022

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Schedule

- ❖ **Week 1** (2 periods): Course introduction
- ❖ **Week 2** (4 periods): Chapter 1
- ❖ **Week 3** (4 periods): Chapter 2 + Chapter 3
- ❖ **Week 4** (4 periods): Chapter 4
- ❖ **Week 5** (4 periods): Chapter 5
- ❖ **Week 6** (4 periods): Chapter 6 + Chapter 7
- ❖ **Week 7** (4 periods): Chapter 8 + Seminar presentation
- ❖ **Week 8** (4 periods): Seminar presentation + Course Review

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Evaluation

- ❖ Class assignments: 15 points
- ❖ Teamwork/discussion: 15 point
- ❖ Questions and answer: 10 points
- ❖ Seminar: 20 points
- ❖ Final examination: 40 points
- ❖ Total = 100 points.

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Final examination

- ❖ Quiz:
 - Single choice.
 - 25 questions.
 - 30 minutes.
 - Online or Offline?
 - Open.
 - Can use the support documents

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Studying topic

- ❖ Group 1 + Group 2: TCP Westwood (Plus)
- ❖ Group 3 + Group 4: TCP Tail Loss Probe
- ❖ Group 5 + Group 6: TCP Veno
- ❖ Group 7 + Group 8: QUIC
- ❖ One group will make a presentation (in 20 minutes).
- ❖ One group will review the study and ask the questions (in 30 minutes).

➤ Self negotiate → Fail → Draw

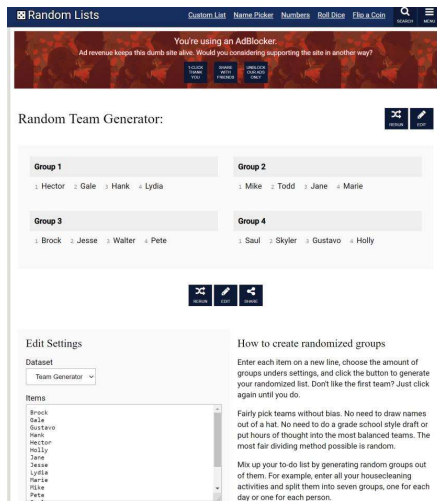


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Dividing group

❖ <https://www.randomlists.com/team-generator>



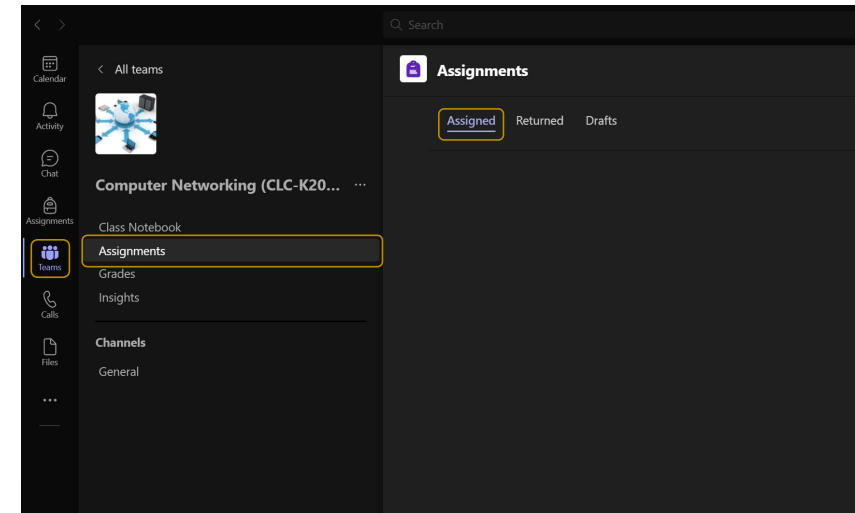
❑ Please choose your group leader.

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[Demo 1] Doing assignment

❖ Do the assignment of "Do you know about computer networks?" **in 10 minutes.**

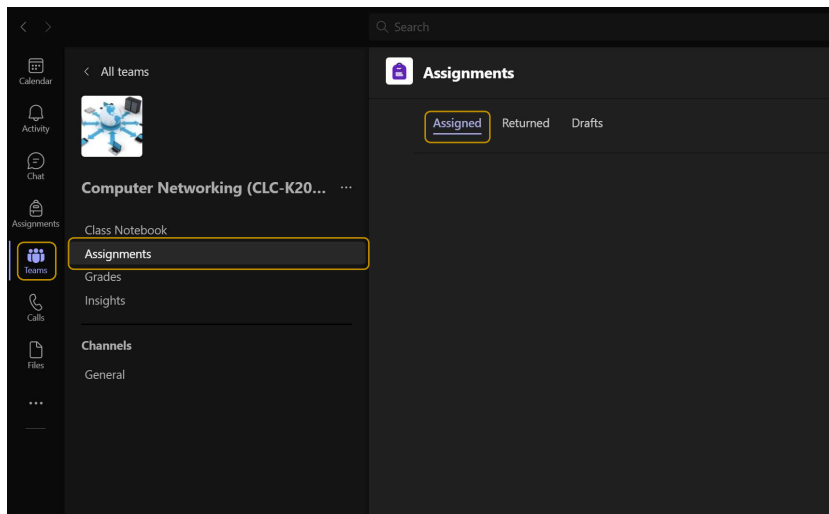


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[Demo 2] Doing group discussion

❖ Do the assignment of "How does your device (e.g., smartphone) communicate with Facebook?" **in 30 minutes.**



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QA



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