#### Computer Networks and Applications

COMP 3331/COMP 9331

Assignment Project Exam Help

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Course Outline & Logistics

# Today's Agenda

- Course (non-technical) details
- Logistics: How we will roll
- What is this course about? Exam Help
- Introduction t https://eduassistpro.gith@hapter 1)

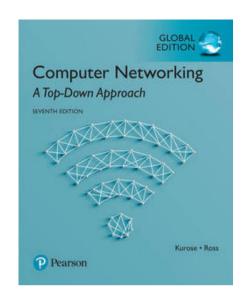
## WebCMS Portal

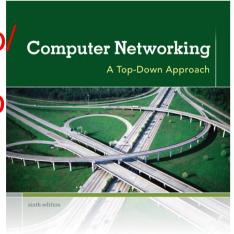
- https://webcms3.cse.unsw.edu.au/COMP3331/18s2/
- Everything is posted on the course website
  - Course Outline (PLEASE READ THIS THOROUGHLY)
  - Lecture Notessignment Project Exam Help
  - Video Recordings
  - Lab Schedules, Ahttps://eduassistpro.github.io/
  - Assignment and Lab Exercises
  - Homework Problemedd WeChat edu\_assist\_pro
  - Consultation hours
  - Announcement: Your responsibility to check the announcement forum on regular basis for important updates/changes to schedule, etc.
  - Nothing will be handed out in the class
  - Your active participation and interaction is crucial to ensure that all
    of us get the most out of this course



## Course Material

- Computer Networking: A Top Down Approach, Jim Kurose, Keith Ross, Addison-Wesley(Pearson), 7<sup>th</sup> Edition, 2016 (6<sup>th</sup> Edition will suffice for most of the part).
- Lecture Notes Applych Ment Project Exam Help
- Links/articles on ad
- Reference Books: https://eduassistpro.github.io/
  - Computer Networks: A Systems A
     Peterson and Brace da Wee Morga edu\_assist\_profourth Edition, 2007.
  - Unix Network Programming Volume 1 Networking APIs: Sockets and XTI, W. Richard Stevens, Prentice Hall, Second Edition, 1998 (Third edition also available)
  - Java Network Programming, E. R. Harold, O'Reilly, Third Edition, 2004.
- Links to programming help





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#### Course Aims

- To gain in-depth introduction to a wide range of topics in the field of computer networks, including the Internet
- To obtain han Assignment Project Exam Help f networking protocols https://eduassistpro.github.io/
- To gain skills in the tweethan edu\_assigned be signing and implementing network protocols, evaluating network performance and problem solving
- To build necessary foundational knowledge required in more advanced networking courses
  - You will gain problem solving skills

# Teaching/Learning Strategies

- Lectures (12 weeks, 3-hr per week)
- Labs (7 of them)
  - Hands-on learning Project Exam Help
- Assignments (https://eduassistpro.glthduteid/eek 12)
  - Basic network programming edu\_assist design
  - C or Java or Python
- Weekly Homework (Self-assessed)
  - Problem solving skills

#### Lectures

- Lectures (12 weeks, 3-hr per week)
- We will focus on most important concepts and supplement wignment Project Exam Help
  - Problem solvhttps://eduassistpro.github.io/
  - Discussions
    Add WeChat edu\_assist\_pro
  - Additional material
- Certain material will be left for self study
  - These will be indicated on the lecture notes

# Labs

- 2 hour lab sessions starting Week 2
- Hands-on experiments related to concepts that you learn in lectures
  - Wireshark packet sniffer, ns-2 network simulator, other network measurement tools
- 9 lab sessions: Assignment Project Exam Help
  - 7 Lab Exercise https://eduassistpro.github.io/s demonstration

    - 5 best performing Whose Other edu\_assist fopposessment
    - Lab Report to be submitted a the day of your lab
    - Highly encouraged to attempt lab tasks before attending labs
    - Demonstrate select labs to the tutors
  - 2 Tutorials (Week 5 & 12)
    - Help with problem solving
    - Prep for exams
- Strongly encouraged to work in pairs (but individual submissions only)

## Assessment

- Hands-on-40%
  - Labs 20%
  - Assignment 20%
    - Single assignment due in 12th Week
       Implement a networking software (C/Java/Python)
- Concepts and th https://eduassistpro.github.io/
  - Mid-session test (20%)
     In Week 6 (includes material f

    - Closed-book MCQ
    - Negative marking enforced to deter random attempts
  - Final Exam (40%)
    - Closed-book written exam, End of semester
    - Critical thinking and problem solving questions
    - Hurdle component must obtain at least 40% to clear

#### <u>Assessment</u>

**NOTE:** To pass the course, a student MUST receive at least 40% marks on the final exam

```
lab = marks for lab exercises (scaled to 20)

assign = mark for the programming assignment (scaled to 20)

midExam = mark for the mid-semester exam (scaled to 20 marks)

finalExam = mar

mark = lab + assi

mark = lab + assi

et lab = HD|DN|CR|PS if mark >= edu_assist_pro

et lab = FL if mark < 50 | final
```

**NOTE:** If you cannot clear the final exam hurdle, the maximum marks reported will be 40/100

# Getting help



- Use discussion forum for labs, assignment, and other matters at WebCMS
  - Fellow students benefit from your questions
  - Fellow students can answer your questions Help
  - Develop a community
- Please avoid em https://eduassistpro.ghtpappible; you may be directed

  Add WeChat edu\_assist\_pro
- Consultation hours
  - LiC for lecture-related help 2 hours each week
  - Lab consultation hours for lab and programming related help

## Accounts for accessing lab machines

- Use your zid/zpass to log into CSE computers
- New to UNSW https://it.unswseduran/students/znars/indexphyml
- You will be auto website. Log on https://eduassistpro.github.io/

# Be original!!

- Collaboration
  - You may discuss approaches, not solutions
  - · You mus Assismment Projecto Fixam Help
  - We strongly https://eduassistpro.github.io/

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- Plagiarism
  - Zero tolerance, don't do it

https://my.unsw.edu.au/student/academiclife/Plagiarism.pdf https://student.unsw.edu.au/plagiarism

## What is this course about?

- Introductory (first course) course in computer network
  - Learn principles and practice of computer networking
- We use the laments Project Examples and the core concepts of https://eduassistpro.github.io/

#### What is this course about?



- 1. To learn how the Internet works
  - Internet is a complex global infrastructure
  - What are the impartment of the Internet?
  - What really hhttps://eduassistpro.github.io/
  - What are TC VPNs, 802.11,... an way WeChat edu\_assist\_pro

## What is this course about?

- 1. To learn how the Internet works
  - Internet is a complex global infrastructure
  - What are the organising principles behind the Internet?
  - What realissignment Project Exam Help Web"?
  - What are TC https://eduassistpro.github.io/802.11,.... an

- 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?

## Why learn the fundamentals?

- Applicable to all computer networks
- Help you design new types of networks

#### Assignment Project Exam Help

- Change/reinventi
  - Today's Internet https://eduassistpro.github.io/av's

  - And tomorrow's Add Weight edu\_assist\_pro
  - But the fundamentals remain the same

# Nano-scale computer networks?

- $1 \text{ nm} = 10^{-9} \text{ m} = 1/25000 \text{ diameter of a human hair}$
- Network of nanorobots to sweep the coronary plaque

Assignment Project Exam Help

https://eduassistpro.github.io/

# Pre-requisites



- Good understanding of algorithms, data structures and basic probability
- Proficient in piengrant Project Exama Helpython

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## Where do I go from here?

- COMP 9332: Network Routing and Switching
- COMP 9333: Advanced Computer Networks
- COMP 9334: Assignment Project Planning elp
- COMP 3441/9441 https://eduassistpro.github.io/sor Networks
- COMP 4336/9336. Add We Shat edu\_assist\_pro
- COMP 4337/9337: Securing Wireless Networks
- COMP6733: Internet of Things
- Thesis Projects
- Research (Master's, PhD)