



**PHENIKAA UNIVERSITY**  
**Faculty of Computer Science**

CSE702036 – Computer Networks  
*(CSE702036 – Mạng máy tính)*

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# Content



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## Giới thiệu về học phần

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## Hướng dẫn phương pháp học sử dụng nền tảng Coursera

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# Giới thiệu về học phần

# Course Details



❖ **Number of Credits:** 2 (2-0) (Computing topics)

❖ **Course Code:** CSE702036

❖ **Study time allocation**

- 6 lecture hours offline (on campus)
- 6 lecture hours mentor online (on MS Teams)
- 60 hours for self-study

❖ **Textbook**

❖ Computer Networking: A Top-Down Approach (8th ed) by J. F. Kurose and K. W. Ross, Pearson (2020)

*All resource available at: [https://gaia.cs.umass.edu/kurose\\_ross/index.php](https://gaia.cs.umass.edu/kurose_ross/index.php)*

❖ Computer Networking: Principles, Protocols and Practice (3rd ed), open-source ebook available at <https://www.computer-networking.info>

# Courses in Coursera



Khoa học	Tên khoá học	Link
Khoa 1	The Bits and Bytes of Computer Networking (By Google)	<a href="https://www.coursera.org/learn/computer-networking">https://www.coursera.org/learn/computer-networking</a>
Khoa 2	TCP/IP and Advanced Topics (By University of Colorado)	<a href="https://www.coursera.org/learn/tcp-ip-advanced/">https://www.coursera.org/learn/tcp-ip-advanced/</a>

# Description of the content of the course



## Course Overview:

**Principles & Practices:** Introduction to introducing fundamental concepts, protocols, and architecture of computer networks

**Keywords:** Basic TCP/IP protocols and standards, applications of networking such as HTTP, DNS, Email; IP addressing, congestion control; WAN and local networks, Security aspects in computer networking.

## Course Learning Outcomes (LO)

At the end of the course, students will be able to

**LO.01** – Describe and explain the fundamental concepts, models, protocols and security issues of computer networks

Student Outcome No.

1

**LO.02** – Apply networking principles to solve basic computer networking and data communication problems.

1

## Student Outcomes (SO)

No. Information Technology graduates must have...

1 Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.

# List of Topics



- Introduction to Networking
- The Network Layer (IP)
- The Transport Layer (UDP, TCP)
- Application Layers
- Networking Services (DNS, DHCP)
- Connecting to the Internet (LAN, WAN, WLAN...)
- Advanced topics: Security, OpenFlow...

# Study Plan



<https://canvas.phenikaa-uni.edu.vn/courses/12209/modules>

# Study Plan



[coursera](#)

Online Degrees Find your New Career English ▾ [S](#) ▾

Home > Browse > Information Technology > Networking

# Google

## The Bits and Bytes of Computer Networking

This course is part of [Google IT Support Professional Certificate](#)

Instructor: [Google Career Certificates](#)  
[Top Instructor](#)

[Go To Course](#) [Assign this course](#)

798,322 already enrolled

[About](#) [Outcomes](#) [Modules](#) [Recommendations](#) [Testimonials](#) [Reviews](#)

### Skills you'll gain

Domain Name System (DNS) Ipv4 Network Model Troubleshooting

# Study Plan



Home > Browse > Computer Science > Computer Security and Networks



## TCP/IP and Advanced Topics

This course is part of [Computer Communications Specialization](#)



Instructor: [Xiaobo Zhou](#)

[Go To Course](#)

[Assign this course](#)

49,529 already enrolled

### Course

Gain insight into a topic and learn the fundamentals

4.7 ★ (701 reviews) | Like 93%

16 hours (approximately)

### Flexible schedule

Learn at your own pace

[View course modules](#)

About

Outcomes

Modules

Recommendations

Testimonials

Reviews

### Details to know



[Earn a career certificate](#)

Add to your LinkedIn profile



[Assessments](#)

8 quizzes



[Taught in English](#)

[22 languages available](#)



## 4.2. Tiêu chí đánh giá điểm học phần.

- **Chuyên cần:**
  - Phân trực tuyến (online): Hoàn thành khoá học Online trên Coursera (Điểm trung bình hoàn thành **Khoá 1** trên Coursera  $\geq 80\%$ ).
  - Phân trực tiếp (offline): Tham dự đầy đủ 100% các buổi học trực tiếp trên lớp và thực hiện đầy đủ các yêu cầu của giảng viên.
- **Kiểm tra giữa kỳ:** Làm bài thi trắc nghiệm trực tiếp tại trường.
- **Thi kết thúc học phần:** Làm bài thi trắc nghiệm trực tiếp tại trường.
- **Quy định về thi cử, học vụ:**
  - Điều kiện để được tham gia thi kết thúc học phần:
    - ✓ Điểm trung bình hoàn thành **Khoá 1**  $\geq 80\%$
    - ✓ Hoàn thành 100 (2/2 buổi học) Offline
    - ✓ Không có loại điểm thành phần nào (điểm chuyên cần, điểm giữa kỳ) bị điểm 0;
  - Điều kiện để hoàn thành học phần: Điểm học phần  $\geq 4,0$  (theo thang điểm 10), không có loại điểm thành phần nào (điểm chuyên cần, điểm giữa kỳ, điểm thi kết thúc học phần) bị điểm 0.



## Cách tính điểm

❖ **Điểm chuyên cần (10% điểm học phần):**  $CC = CC1 \times 0.5 + CC2 \times 0.5$

$CC1$  = Điểm danh lớp online và điểm danh lớp offline (Không đủ điều kiện thi: 0; Đủ điều kiện thi: 10)

$$CC2 = \frac{KT_1 + KT_2 + \dots + KT_n}{n}$$

○  $KT$ : Điểm hoàn thành từng khóa học tương ứng trên Coursera

○  $n$ : Số khóa học trên Coursera

❖ **Điểm giữa kỳ (30% điểm học phần):**  $GK$  = Điểm bài kiểm tra giữa kỳ (B1)

❖ **Điểm thi kết thúc học phần (60% điểm học phần):**  $KTHP$  = Điểm bài thi kết thúc học phần

❖ **Điểm học phần :**  $Điểm HP = CC \times 0.1 + GK \times 0.3 + KTHP \times 0.6$

# Hướng dẫn phương pháp học sử dụng nền tảng Coursera



## Effective Learning Strategies

### Setting Goals:

- Define clear objectives for each course.
- Schedule regular study times, aiming for 30 minutes to 1 hour daily.

### Utilizing Resources:

- Watch lecture videos, read accompanying materials.
- Engage in quizzes, assignments, and group projects if available.



## Engaging with the Community

### Discussion Forums:

- Participate in forums to ask questions and discuss with peers.

### Networking:

- Connect with fellow learners to form study groups and share knowledge.



## Tracking Your Progress

### Progress Tracking:

- Use Coursera's tools to monitor your learning progress.

### Self-Assessment:

- Regularly evaluate your goals and adjust your study plan as needed.



## Completing the Course

### Final Assessments:

- Complete all required quizzes, assignments, and projects.

### Receiving Certificates:

- Download and share your certificate upon successful completion.



## Applying Your Knowledge

### Practical Application:

- Implement what you've learned in your professional or personal projects.

### Continued Learning:

- Enroll in advanced courses or explore new subjects to keep learning.



## Benefits of Earning a Certificate on Coursera

### Professional Recognition

- **Global Recognition:** Coursera certificates are recognized by top companies and organizations worldwide, adding significant value to your resume.
- **LinkedIn Integration:** Easily add your certificates to your LinkedIn profile, showcasing your skills and dedication to continuous learning to potential employers.



## Benefits of Earning a Certificate on Coursera

### Career Advancement

- **Job Opportunities:** Earning a certificate can open up new job opportunities and make you a more competitive candidate in the job market.
- **Promotions and Raises:** Demonstrating new skills and knowledge can help you earn promotions and salary increases within your current job.



## Benefits of Earning a Certificate on Coursera

### Skill Development

- **In-Depth Knowledge:** Coursera courses are designed by experts, providing in-depth knowledge and practical skills in various fields.
- **Updated Content:** Courses are regularly updated to include the latest industry trends and technologies, ensuring you stay current in your field.



## Benefits of Earning a Certificate on Coursera

### Academic Credit and Further Education

- **University Partnerships:** Many Coursera courses are offered in collaboration with prestigious universities, and some certificates can be used as credit towards a degree program.
- **Pathway to Degrees:** Certain specializations and professional certificates can serve as a pathway to further education, including master's degrees and other advanced qualifications.



## Benefits of Earning a Certificate on Coursera

### Personal Growth and Satisfaction

- **Lifelong Learning:** Earning certificates encourages a habit of lifelong learning, which can be personally rewarding and intellectually stimulating.
- **Confidence Boost:** Gaining new skills and knowledge can boost your confidence in both personal and professional settings.

# Courses in Coursera



**coursera** | **PHENIKAA UNIVERSITY** Reaching your potential 

Search in course 

 English   



**Foundations of Project Management**  
Google

 **Course Material**

-  Module 1
-  Module 2
-  Module 3
-  Module 4

**Grades**

**Notes**

**Discussion Forums**

**Messages** 

**Resources**

 **Getting started with the program**  **Complete**

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-  Welcome to the Google Project Management Certificate  
Video • 7 min
-  Program and course overview  
Reading • 10 min
-  Introduction to Course 1  
Video • 1 min
-  Commit to completing the program  
Ungraded Plugin • 10 min
-  Helpful resources to get started  
Reading • 20 min
-  Program surveys  
Reading • 10 min
-  Google Project Management Participant Entry Survey  
Ungraded Plugin • 10 min
-  Meet and greet  
Discussion Prompt • 10 min

 **Understanding the basics of project management**  **Complete**

# Courses in Coursera



The screenshot shows a Coursera course page for 'Foundations of Project Management' by Google. The top navigation bar includes the Coursera logo, Phenikaa University logo, a search bar, and user account icons. A prominent orange banner at the top right reads 'Check đảm bảo tài khoản có liên kết với Coursera' (Check if the account is linked to Coursera). The course page displays a list of modules under 'Getting started with the program', all of which are marked as 'Complete'. The sidebar on the left lists other course sections like 'Course Material', 'Grades', 'Notes', 'Discussion Forums', 'Messages' (with 1 notification), and 'Resources'.

Foundations of Project Management

Google

Course Material

- Module 1
- Module 2
- Module 3
- Module 4

Grades

Notes

Discussion Forums

Messages 1

Resources

Getting started with the program

- Welcome to the Google Project Management Certificate
- Program and course overview
- Introduction to Course 1
- Commit to completing the program
- Helpful resources to get started
- Program surveys
- Google Project Management Participant Entry Survey
- Meet and greet

Understanding the basics of project management

# Courses in Coursera



The screenshot shows a Coursera course page for 'Foundations of Project Management' by Google. The page is structured with a sidebar on the left and a main content area on the right.

**Left Sidebar:**

- Course Image:** Google logo.
- Course Title:** Foundations of Project Management
- Offered By:** Google
- Course Material:** A section containing four modules: Module 1, Module 2, Module 3, and Module 4, each marked as completed (green checkmark).
- Grades**
- Notes**
- Discussion Forums**
- Messages:** 1 unread message
- Resources**

**Main Content Area:**

- Section:** Getting started with the program (Completed)
- Title:** Tên khoá học
- Content:** Program and course overview (Reading • 10 min), Introduction to Course 1 (Video • 1 min)
- Section:** Các Module (Ungraded Plugin • 10 min)
- Content:** Helpful resources to get started (Reading • 20 min), Program surveys (Reading • 10 min), Google Project Management Participant Entry Survey (Ungraded Plugin • 10 min), Meet and greet (Discussion Prompt • 10 min)
- Section:** Understanding the basics of project management (Completed)

# Courses in Coursera



The screenshot shows the Coursera platform interface for a course titled "Foundations of Project Management" by Google. The course structure is outlined on the left, and the main content area displays the "Getting started with the program" module, which is highlighted with a red border. This module contains several items, each with a green checkmark indicating completion. A large orange callout box on the right lists the components of a module: Video, Bài đọc, Trao đổi, Bài thực hành (Quiz), Tổng kết, and Bài thi (Graded quiz).

Course Material

- Module 1
- Module 2
- Module 3
- Module 4

Getting started with the program

- Welcome to the Google Project Management Certificate
- Program and course overview
- Introduction to Course 1
- Commit to completing the program
- Helpful resources to get started
- Program surveys
- Google Project Management Participant Entry Survey
- Meet and greet

Understanding the basics of project management

Nội dung của mỗi Module

- Video
- Bài đọc
- Trao đổi
- Bài thực hành (Quiz)
- Tổng kết
- Bài thi (Graded quiz)

# Courses in Coursera



The screenshot shows a Coursera course page for "Foundations of Project Management" by Google. On the left sidebar, under "Course Material", the first four modules (Module 1, 2, 3, 4) are circled in red, indicating they have been completed. A large orange banner at the bottom left reads "Dấu tích xanh: Đã hoàn thành". The main content area shows a list of program components, all of which are marked as completed (green checkmarks). A red vertical oval highlights the first few items in the list.

Foundations of Project Management

Google

Course Material

- Module 1
- Module 2
- Module 3
- Module 4

Grades

Discussion Forums

Messages 1

Resources

Getting started with the program

- Welcome to the Google Project Management Certificate
- Program and course overview
- Introduction to Course 1
- Commit to completing the program
- Helpful resources to get started
- Program surveys
- Google Project Management Participant Entry Survey
- Meet and greet

Understanding the basics of project management

Complete

# Courses in Coursera



# Courses in Coursera



coursera | PHENIKAA UNIVERSITY Realizing your potential

Search in course

English

## Grades

You have completed all of the assessments that are currently due.

You passed this course! Your grade is 100%.

**Phân tích điểm**

	Status	Due	Weight	Grade
Module 1 Challenge Quiz	Locked	Aug 2 11:59 PM PDT	25%	100%
Module 2 Challenge Quiz	Locked	Aug 9 11:59 PM PDT	25%	100%
Module 3 Challenge Quiz	Locked	Aug 12 11:59 PM PDT	25%	100%
Module 4 Challenge Quiz	Locked	Aug 16 11:59 PM PDT	25%	100%

Course Material

- Module 1
- Module 2
- Module 3
- Module 4

Grades

Notes

Discussion Forums

Messages 1

Resources

8/21/24

Faculty of Computer Science

30

# Courses in Coursera



## Practice

✓ Congratulations! You passed!

Grade received 100% To pass 75% or higher

[Go to next item](#)

1. Fill in the blank: \_\_\_\_\_ is how a project manager makes use of productivity tools and creates processes. The project manager may need to use certain tools and processes to do tasks like create a schedule and share information.

1 / 1 point

- Removing unforeseen barriers
- Managing tasks
- Planning and organizing
- Budgeting and controlling costs

✓ Correct

As a project manager, you will be in charge of how your team shares information and communicates progress.

2. Fill in the blank: \_\_\_\_\_ is how a project manager keeps track of the team's workload, ensures that things are getting done within a set period of time, and demonstrates progress to people outside the immediate team, like stakeholders.

1 / 1 point



## Quiz

### Question 1

**What is a key strategy for effective learning on Coursera?**

- a) Watching all the videos at 2x speed
- b) Setting clear learning goals
- c) Skipping quizzes and assignments



## Quiz

### Question 1

**What is a key strategy for effective learning on Coursera?**

- a) Watching all the videos at 2x speed
- b) Setting clear learning goals
- c) Skipping quizzes and assignments

**Correct Answer:** b) Setting clear learning goals

**Explanation:** Setting clear learning goals helps you stay focused and motivated, ensuring that you know what you aim to achieve and can measure your progress effectively.



## Quiz

### Question 2

**How can Coursera certificates enhance your professional profile?**

- a) By adding them to your LinkedIn profile
- b) By hiding them from potential employers
- c) By only mentioning them in casual conversations



## Quiz

### Question 2

**How can Coursera certificates enhance your professional profile?**

- a) By adding them to your LinkedIn profile
- b) By hiding them from potential employers
- c) By only mentioning them in casual conversations

**Correct Answer:** a) By adding them to your LinkedIn profile

**Explanation:** Adding Coursera certificates to your LinkedIn profile showcases your commitment to continuous learning and professional development to potential employers, increasing your visibility and credibility.



## Quiz

### Question 3

**What is one of the benefits of engaging with the community on Coursera?**

- a) Learning in isolation
- b) Gaining insights from peers
- c) Ignoring discussion forums



## Quiz

### Question 3

**What is one of the benefits of engaging with the community on Coursera?**

- a) Learning in isolation
- b) Gaining insights from peers
- c) Ignoring discussion forums

**Correct Answer:** b) Gaining insights from peers

**Explanation:** Engaging with the community through discussion forums and study groups allows you to gain different perspectives, ask questions, and deepen your understanding of the course material.



## Quiz

### Question 4

**Which of the following is an advantage of Coursera's flexible learning model?**

- a) You must study at a fixed time every day
- b) You can learn at your own pace
- c) You are required to attend live classes daily



## Quiz

### Question 4

**Which of the following is an advantage of Coursera's flexible learning model?**

- a) You must study at a fixed time every day
- b) You can learn at your own pace
- c) You are required to attend live classes daily

**Correct Answer:** b) You can learn at your own pace

**Explanation:** Coursera's flexible learning model allows you to study when it suits you best, accommodating your personal and professional commitments, and enabling you to learn at a pace that matches your learning style.



## Quiz

### Question 5

**What is a potential career benefit of earning a Coursera certificate?**

- a) Increased chances of being overlooked for promotions
- b) Enhanced job opportunities and promotions
- c) Being restricted to only entry-level positions



## Quiz

### Question 5

**What is a potential career benefit of earning a Coursera certificate?**

- a) Increased chances of being overlooked for promotions
- b) Enhanced job opportunities and promotions
- c) Being restricted to only entry-level positions

**Correct Answer:** b) Enhanced job opportunities and promotions

**Explanation:** Earning a Coursera certificate demonstrates your dedication to improving your skills and knowledge, making you a more attractive candidate for job opportunities and promotions, and potentially leading to salary increases.



# PHENIKAA UNIVERSITY

## Faculty of Computer Science

# Q & A