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## Google Cloud Computing Foundations

By Prof. Soumya Kanti Ghosh, Multifaculty | IIT Kharagpur, Google Cloud

Learners enrolled: 14256

### Course Introduction



#### Technical partner

The Google Cloud Computing Foundations course aims to provide a detailed overview of concepts covering cloud basics, big data, and machine learning and where and how the Google Cloud Platform fits in. The course involves understanding concepts and perform hands-on training (via Qwiklabs platform) to practice the learning. There are 26 labs on Qwiklabs that are part of the course.

Those enrolling for the course should ideally:

- Have basic IT knowledge and be interested in learning more about Cloud and ML.
- Have competency in at least one language (such as Python, Java).
- Be familiar with the basics of shell scripting, SQL.

#### Disclaimer:

- Google may contact you by email to provision benefits and send surveys and other communication related to the Google Cloud Computing Foundations Course. **To opt out, click here** (<http://bit.ly/37JKUWn>)

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- By joining, you agree to



tracking your grades and other activity in it's learning program.

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## Summary

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Course Status :	Completed
Course Type :	Elective
Duration :	8 weeks
Category :	<ul style="list-style-type: none"> <li>Computer Science and Engineering</li> </ul>
Credit Points :	2
Level :	Undergraduate
Start Date :	14 Sep 2020
End Date :	06 Nov 2020
Enrollment Ends :	25 Sep 2020
Exam Date :	19 Dec 2020 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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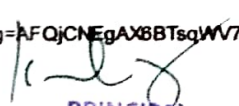
## Course layout

- Week 0 : Introduction to the course
- Week 1 : So, What's the Cloud anyway? Start with a Solid Platform
- Week 2 : Use GCP to build your Apps
- Week 3 : Where do I store this stuff?
- Week 4 : There's an API for that! You can't secure the Cloud right?
- Week 5 : It helps to network!
- Week 6 : It helps to network (continued)
- Week 7 : Let Google keep an eye on things. You have the data, but what are you doing with it?
- Week 8 : Let machines do the work

## Books and references

<https://cloud.google.com/docs/> ([https://www.google.com/url?q=https://cloud.google.com/docs/&sa=D&source=hangouts&ust=1577270183094000&usq=AFQjCNEgAX8BTsqWV7wjGs\\_zPmsoby7tlw](https://www.google.com/url?q=https://cloud.google.com/docs/&sa=D&source=hangouts&ust=1577270183094000&usq=AFQjCNEgAX8BTsqWV7wjGs_zPmsoby7tlw))

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https://www.qwiklabs.com/  
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Instructor bio

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Prof. Soumya Kantli Ghosh

IIT Kharagpur

Prof. Soumya K. Ghosh received the Ph.D. and M.Tech. degrees from Department of Computer Science and Engineering, Indian Institute of Technology (IIT), Kharagpur, India. Presently, he is a Professor with Department of Computer Science and Engineering, IIT Kharagpur. Before joining IIT Kharagpur, he worked for the Indian Space Research Organization in the area of satellite remote sensing and geographic information systems. He has more than 200 research papers in reputed journals and conference proceedings. His research interests include spatial data science, spatial web services and cloud computing.



Multifaculty

Google Cloud

**Jimmy Tran** is a Senior Program Manager within Google Cloud. He got his Bachelor's degree from UC-Berkeley. He has held various positions within Google working on both G Suite and GCP and was at Hewlett-Packard before joining Google.

**Sowmya Kannan** is the Global Lead for Google Cloud Learning in Higher Education. Sowmya Kannan has a broad range of experience in professional services, product engineering, technical writing, and technical curriculum development. She co-authored The Java Tutorial book at Oracle. As technical lead for application development curriculum at Google Cloud, Sowmya developed Coursera courses related Developing Applications with Google Cloud Platform.

**Priyanka Vergadia** is an engineer at Google Cloud. Previously she has worked at Akamai Technologies, Intel and Genesys Telecommunications. She creates online learning content on Cloud related topics, her series "Get Cooking in Cloud" and "Deconstructing Chatbots" are available on Google Cloud Youtube Channel. While she is not producing videos, writing blogs or speaking at conferences, she draws and paints.

**Seth Vargo** is an engineer at Google Cloud. Previously he worked at HashiCorp, Chef Software, CustomInk, and some Pittsburgh-based startups. He is the author of Learning Chef and is passionate about reducing inequality in technology. When he is not writing, working on open source, teaching, or speaking at conferences, Seth advises non-profits.

**Evan** is a self-proclaimed board game geek, triathlete, data junkie, and big data teacher. He lives in San Jose and once swam from near Alcatraz back to shore. He's a nerd for good data visualizations and enjoys debating how the word .gif is pronounced.

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**Department: Information Technology**

**2020-21**

**REPORT**

**NPTEL course on Google Cloud Computing Foundations**

Date of program: 14-06-2021 to 18-06-2021

Resource person: Prof. Soumya K. Ghosh, IIT Kharagpur

About the Program:

The Google Cloud Computing Foundations course gave a detailed overview of concepts covering cloud basics, big data, and machine learning and where and how the Google Cloud Platform fits in. The course involved understanding concepts and hands-on training. Over all course was very informative to upgrade our skill.

Signature of the Faculty member

P. N Ramya

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