

Post Graduate Program in 5G Network Design and Development

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-----Start-----

Hi, thanks for showing interest in our Post Graduate Program in 5G Network Design and Development Program. It was great talking to you. Here are the details regarding the course.

Duration of the course

Full time : 9 months

Part time : 18 months

In this program, you will learn the below course

Basic Modules (Common for all tracks)

1. Introduction to Cellular Communications 2G-3G
2. 4G(LTE) - Architecture, Features and Call Flow and Evolution to 5G
3. Cloud Overview

Track 1 : 5G NR and Open RAN

1. Introduction to Cellular Communications 2G-3G
2. 4G(LTE) - Architecture, Features and Call Flow and Evolution to 5G
3. Cloud Overview
4. 5G NR
5. Open RAN

Track 2 : Telco Cloud and 5G Core

1. Introduction to Cellular Communications 2G-3G
2. 4G(LTE) - Architecture, Features and Call Flow and Evolution to 5G
3. Cloud Overview
4. Telco Cloud
5. 5G Core Networks

Track 3 : 5G Protocol Development and Testing

1. Introduction to Cellular Communications 2G-3G
2. 4G(LTE) - Architecture, Features and Call Flow and Evolution to 5G
3. Cloud Overview
4. 5G NR Protocol Stack
5. C Programming for Telecom Engineers and C++ Overview
6. Telecom Testing (4G) using Python and Robot Framework
7. Network Analysis and Trouble Shooting Using Wireshark
8. 5G Testing

Projects

Introduction to Cellular Communications 2G-3G

1. Analysis of Mobile or Wi-Fi Network using an Android Application

5G Core Networks

1. Deploy Cloud Native PaaS using Kubernetes

Telecom Testing (4G) using Python and Robot Framework

1. Bring-Up GTPv2 Stack with Python
2. Write a Testcase in ROBOT Framework to validate the IEs

Network Analysis and Troubleshooting Using Wireshark

1. Creating a Honey \Pot and Analyzing Traffic

C Programming for Telecom Engineers and C++ Overview

1. Basic Telecom Platform Operations
2. RLC PDU Decoder
3. MAC PDU Decoder
4. LTE Cell Manager and Scheduler Simulation

Tele Cloud

1. Build NFVi based on OpenStack

Software

1. Free5GC
2. UERANISM
3. OAI
4. srsRAN

Demo videos

<https://youtu.be/626yGq-YM4c>
<https://youtu.be/fX935vUkzss>
<https://youtu.be/--knTfSHZO8>
<https://youtu.be/Qnb0qjbAhpM>
<https://youtu.be/uDxVPbxyaMU>

Description of course content

<https://skill-lync.com/electronics-engineering-courses/post-graduate-program-5g-network-design-development>

Success stories

Check out the Placements of our customers at [Skill Lync Success Stories.pdf](#)

and also hear what they say about our courses at <http://bit.ly/skill-lync-google-reviews>. Visit the Project Portfolios of students placed in reputed companies after taking Skill-Lync courses-

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For more information, visit www.skill-lync.com

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