CABLING & FIBRE OPTICS · FIBRE OPTICS, SPLICING & TESTING

Optical Network Simulation with OptiSystem

محاكاة الشبكات الضوئية باستخدام OptiSystem

3 days | Intermediate | In person · Live online | Arabic & English

Design and test optical links on screen before building them. You will model transmitters, fibre, amplifiers and receivers in a simulation tool, study dispersion and nonlinear effects, simulate WDM systems and read eye diagrams and bit-error rates.

WHO IT'S FOR

Optical and transmission engineers, researchers and engineering students.

BEFORE YOU START

Fibre Optic Fundamentals or equivalent knowledge

WHAT YOU'LL LEARN

- Build optical link models in a simulation tool.
- Analyse dispersion, attenuation and nonlinear effects.
- Simulate amplified and WDM systems.
- Interpret eye diagrams, Q-factor and bit-error rate.

Training a team?
We run this course privately for organizations, on your dates, at your site or ours, and adapt the examples to your network and equipment.

COURSE OUTLINE

5 modules, 3 days

MODULE 01
Simulation basics
- The tool and its components
- Building a first link

MODULE 02
Fibre impairments
- Attenuation and dispersion
- Nonlinear effects

MODULE 03
Amplification
- EDFA and Raman
- Noise

MODULE 04
WDM systems
- Channel plans
- Crosstalk

MODULE 05
Performance analysis
- Eye diagrams
- Q-factor and BER
- Mini project

ALSO IN FIBRE OPTICS, SPLICING & TESTING

Fibre Optic Fundamentals, **Fibre Optic Fusion Splicing**, **Fibre Testing & OTDR Analysis**, **Optical Fibre Transmission Engineering: End to End**

Enrol or ask a question

In person in Damascus · Live online · Private training for teams. Tell us your goals and we will send the dates, the fees and the right level for you.

+963 991 099 555
info@alalamia-sy.com
alalamia-sy.com