

Advanced Topics in Wireless

A Live, Virtual Course Series from the IEEE Communications Society

Designed for engineers and technical professionals who want to deepen their knowledge, Advanced Topics in Wireless provides a more in-depth training and convenient way to stay current and become a subject matter expert on the latest technologies and topics in wireless communications.

This live, virtual training includes 24 hours on the following topics:

- 5G RAN and Core Network: Architecture, Technology enablers and Implementation aspects
- O-RAN: Disrupting the Radio Access Network through Openness and Innovation
- Machine Type Communications in 5G and Beyond

Through this highly interactive training, learners connect with industry expert instructors for real-time answers to live questions.

Participants in this course series will develop a comprehensive view on the 5G/NR technology, a profound understanding of the implementation aspects of all the ITU-specified use case categories, i.e. enhanced Mobile Broadband (eMBB), mMTC and URLLC, and a robust foundation on the network architecture evolution technology enablers towards fully open radio access networks.

Learners at your organization can choose to take all or any of the three courses in this series. Upon completion of these courses, learners will earn Continuing Education Units (CEU) and a digital certificate of participation. In addition, participants who complete all four courses in the series term qualify for a digital badge.

Who Should Attend:

The courses are intended for radio network engineers holding technical positions up to principal engineer or mid-level technical manager, as well as for academic staff involved in research and teaching in course-related areas. This series will be of interest to mobile network operators, mobile network infrastructure vendors, companies involved in the design and implementation of IoT-based solutions and universities.

Learn more about this program and other IEEE Continuing Education Resources

Visit: <https://forms1.ieee.org/ComSoc-Courses-for-org.html>



Quick Facts

Develop the skills and knowledge your team needs to succeed in wireless communications

A three-course program developed by experts in their field

Printable individual CEU certificates upon the successful completion of the program

Train multiple users at your organization in a consistent way—tiered pricing is available.

2024 Virtual Course Dates:

April/May 2024 Session

5G RAN and Core Network: Architecture, Technology enablers and Implementation aspects: 24-25 April

O-RAN: Disrupting the Radio Access Network through Openness and Innovation: 8-9 May

Machine Type Communications in 5G and Beyond: 22-23 May

October/November 2024 Session

5G RAN and Core Network: Architecture, Technology enablers and Implementation aspects: 16-17 October

O-RAN: Disrupting the Radio Access Network through Openness and Innovation: 30-31 October

Machine Type Communications in 5G and Beyond: 13-14 November

2024 Corporate Pricing (minimum requirement 3 learners):

3 learners: \$998 per learner

5-10 learners: \$799 per learner

10-25 learners: \$499.50 per learner

25+ learners please contact iwc-mktg@ieee.org for a customized quotation & additional savings.

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Topics Include:

5G RAN and Core Network: Architecture, Technology enablers and Implementation aspects

24-25 April (10:30-3:30pm ET); 16-17 October (10:30-3:30pm ET)

The goal of this course is to provide participants with a thorough understanding of the fundamental aspects of the 5G RAN and Core Network, covering both the Non-Standalone (NSA) and Standalone (SA) deployment options and including the concept of Network Slicing.

The course is intended for radio network engineers holding technical positions up to principal engineer or mid-level technical manager, as well as for academic staff involved in research and teaching in course-related areas. The course should be of interest to mobile network operators, mobile network infrastructure vendors and universities. Overview level knowledge of LTE and 5G/NR radio access technologies is required.

Machine Type Communications in 5G and Beyond

8-9 May (10:30-3:30pm ET); 30-31 October (10:30-3:30pm ET)

This course provides a thorough understanding of MTC over 3GPP radio access, with focus on 5G/NR, also covering the evolution of MTC towards 6G.

The course is intended for radio network engineers holding technical positions up to principal engineer or mid-level technical manager, as well as for academic staff involved in research and teaching in course-related areas. The course should be of interest to mobile network operators, mobile network infrastructure vendors, companies involved in the design and implementation of IoT-based solutions and universities.

O-RAN: Disrupting the Radio Access Network through Openness and Innovation

22-23 May (10:30-3:30pm ET); 13-14 November (10:30-3:30pm ET)

This course provides first an overview of the current 3GPP-based RAN architecture, covering different deployment options such as D-RAN, C-RAN, and V-RAN. In this context, RAN splitting options are discussed, focusing on the higher and lower layer split (HLS and LLS, respectively). Following that, the limitations and overheads resulting from the proprietary aspects of the 3GPP-based non-open RAN solutions are analyzed, setting the ground for the presentation of the O-RAN framework.

This course is intended for those who want to understand how O-RAN influences current developments in the industry, how it is expected to unleash innovation and what opportunities it offers. The course is designed to help develop a robust understanding of the subject matter in a very short period. An overview level knowledge of the 5G/NR Radio Access Technology is required.

Learn more about this program and other IEEE Continuing Education Resources.

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