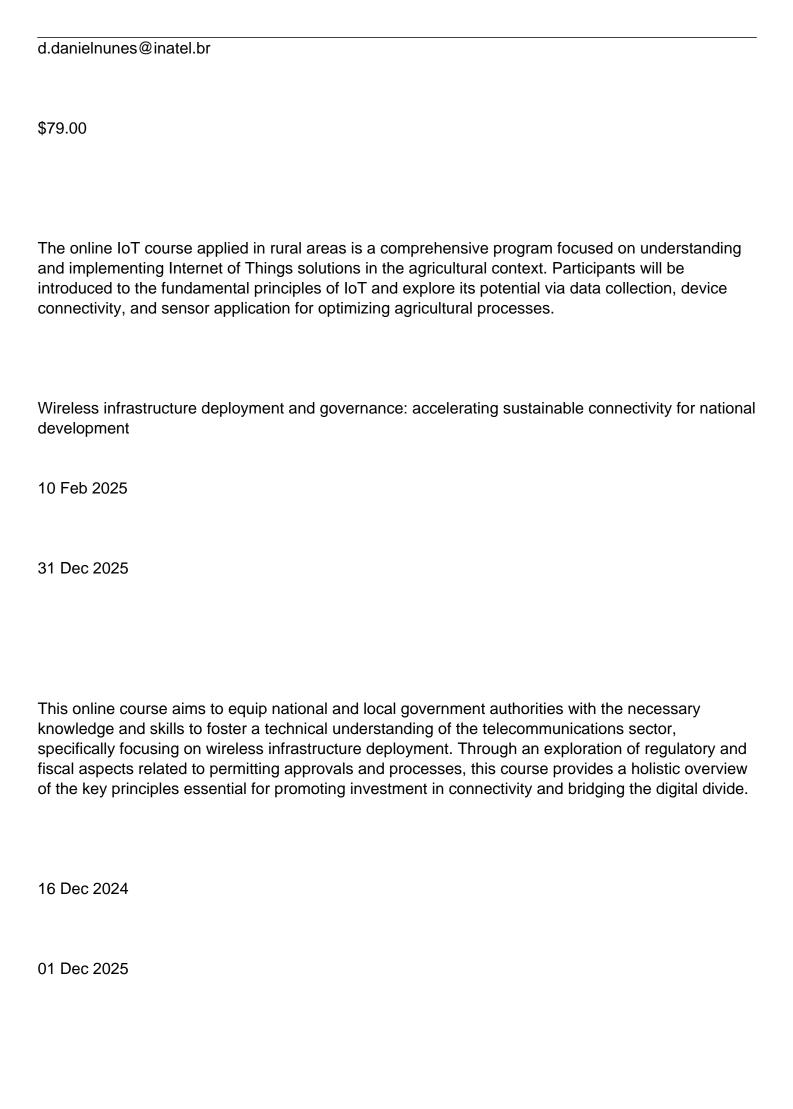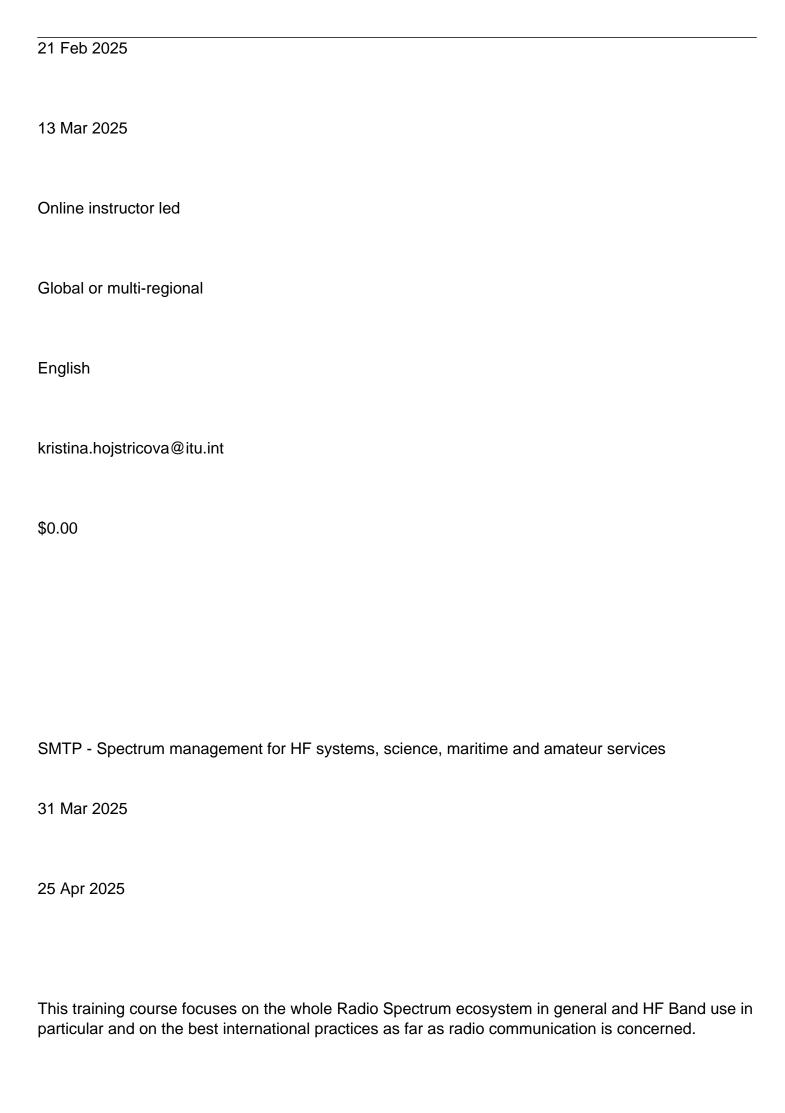Smart agriculture: leveraging IoT for agribusiness growth

10 Feb 2025

31 Dec 2025

The online IoT course applied in rural areas is a comprehensive program focused on understanding and implementing Internet of Things solutions in the agricultural context. Participants will be introduced to the fundamental principles of IoT and explore its potential via data collection, device connectivity, and sensor application for optimizing agricultural processes.

16 Dec 2024

01 Dec 2025

Online instructor led

Global or multi-regional

English

d.danielnunes@inatel.br

$79.00

The online IoT course applied in rural areas is a comprehensive program focused on understanding and implementing Internet of Things solutions in the agricultural context. Participants will be introduced to the fundamental principles of IoT and explore its potential via data collection, device connectivity, and sensor application for optimizing agricultural processes.

Wireless infrastructure deployment and governance: accelerating sustainable connectivity for national development

10 Feb 2025

31 Dec 2025

This online course aims to equip national and local government authorities with the necessary knowledge and skills to foster a technical understanding of the telecommunications sector, specifically focusing on wireless infrastructure deployment. Through an exploration of regulatory and fiscal aspects related to permitting approvals and processes, this course provides a holistic overview of the key principles essential for promoting investment in connectivity and bridging the digital divide.

16 Dec 2024

01 Dec 2025

Online self-paced

Global or multi-regional

English, Portuguese, Spanish

danielnunes@inatel.br

$0.00

This online course aims to equip national and local government authorities with the necessary knowledge and skills to foster a technical understanding of the telecommunications sector, specifically focusing on wireless infrastructure deployment. Through an exploration of regulatory and fiscal aspects related to permitting approvals and processes, this course provides a holistic overview of the key principles essential for promoting investment in connectivity and bridging the digital divide.

Cyber crisis management

17 Mar 2025

17 Mar 2025

21 Feb 2025

13 Mar 2025

Online instructor led

Global or multi-regional

English

kristina.hojstricova@itu.int

$0.00

SMTP - Spectrum management for HF systems, science, maritime and amateur services

31 Mar 2025

25 Apr 2025

This training course focuses on the whole Radio Spectrum ecosystem in general and HF Band use in particular and on the best international practices as far as radio communication is concerned.

04 Nov 2024

17 Mar 2025

Online instructor led

Global or multi-regional

English

Jmwakijele@afralti.org

$300.00

This training course focuses on the whole Radio Spectrum ecosystem in general and HF Band use in particular and on the best international practices as far as radio communication is concerned.

Spectrum monitoring techniques and methods (introductory)

06 Apr 2025

10 Apr 2025

This training course focuses on equipping participants with foundational knowledge and practical skills in Spectrum Monitoring. It emphasizes the critical role of spectrum monitoring in ensuring efficient use of radio frequencies, addressing interference issues, and supporting regulatory compliance.

09 Jan 2025

17 Mar 2025

Online instructor led

Global or multi-regional

English

EG-ATRC@tra.gov.eg

$0.00

This training course focuses on equipping participants with foundational knowledge and practical skills in Spectrum Monitoring. It emphasizes the critical role of spectrum monitoring in ensuring efficient use of radio frequencies, addressing interference issues, and supporting regulatory compliance.

Strategic aspects for Internet governance and innovations

07 Apr 2025

14 Apr 2025

This course covers strategic aspects of Internet governance and innovations, including technical, business and regulatory aspects. It covers the convergence of telecommunications to all-IP, including open Internet used for OTT services and NGN used by telecoms. Such convergence is driven by the development of fixed and mobile broadband (cable, optical, 5G), based on standards. In that way the course further covers broadband strategies and innovations as well as telecom standardization and policy.

15 Nov 2024

06 Apr 2025

Online instructor led

Global or multi-regional

English

S.Laskowski@il-pib.pl

$150.00

This course covers strategic aspects of Internet governance and innovations, including technical,

business and regulatory aspects. It covers the convergence of telecommunications to all-IP, including open Internet used for OTT services and NGN used by telecoms. Such convergence is driven by the development of fixed and mobile broadband (cable, optical, 5G), based on standards. In that way the course further covers broadband strategies and innovations as well as telecom standardization and policy.

Improving Cyber Threat Intelligence (CTI) analysis skills using MISP for least developed countries (LDCs) and Small Islands Developing States (SIDS)

07 Apr 2025

08 Apr 2025

This hands-on training program is designed to equip attendees participants from least developed countries (LDCs) and Small Islands Developing States (SIDS) with practical analysis skills using MISP, one of the most widely adopted Threat Intelligence Platforms (TIP) in the field. MISP is a robust, open-source platform that organizations can use to store, share, and receive information about malware, threats, and vulnerabilities in a structured manner. Training will be delivered under the Cyber for Good project.

17 Jan 2025

27 Mar 2025

Online instructor led

Global or multi-regional

English

rj@nrdcs.lt

$0.00

This hands-on training program is designed to equip attendees participants from least developed countries (LDCs) and Small Islands Developing States (SIDS) with practical analysis skills using MISP, one of the most widely adopted Threat Intelligence Platforms (TIP) in the field. MISP is a robust, open-source platform that organizations can use to store, share, and receive information about malware, threats, and vulnerabilities in a structured manner. Training will be delivered under the Cyber for Good project.

5G technology development and its application

14 Apr 2025

25 Apr 2025

This course will help the participants to know and understand about the general evolution of 5G technology, industry engagement and promotion, and testing Technology Innovation of 5G; the overall development of 5G applications, including policy and ecosystem, Industrial internet of things, devices and use cases; 5G applications, such as 5G+Energy, 5G+ Industry, 5G+Education, 5G+Healthcare, 5G+Cultural Tourism etc.

05 Dec 2024

07 Apr 2025

Online instructor led

Global or multi-regional

English

wangying@caict.ac.cn

$0.00

This course will help the participants to know and understand about the general evolution of 5G technology, industry engagement and promotion, and testing Technology Innovation of 5G; the overall development of 5G applications, including policy and ecosystem, Industrial internet of things, devices and use cases; 5G applications, such as 5G+Energy, 5G+ Industry, 5G+Education, 5G+Healthcare, 5G+Cultural Tourism etc.

e-Governance legal framework

15 Apr 2025

18 Apr 2025

The course explains the e-governance legal framework and its various components. The course introduces the e-governance general legal concept and the legal disciplines that form the basis of the

e-governance legal framework. The course covers the e-governance juridical aspects and challenges (including ethical concerns) from national and international (including European Union (EU)) perspectives. A walkthrough of the most relevant e-governance legal acts, cases, and principles will be provided during the course.

18 Jan 2025

01 Apr 2025

Online instructor led

Global or multi-regional

English

engelmari.molder@taltech.ee

$199.00

The course explains the e-governance legal framework and its various components. The course introduces the e-governance general legal concept and the legal disciplines that form the basis of the e-governance legal framework. The course covers the e-governance juridical aspects and challenges (including ethical concerns) from national and international (including European Union (EU)) perspectives. A walkthrough of the most relevant e-governance legal acts, cases, and principles will be provided during the course.

Spectrum monitoring techniques and methods (intermediate)

20 Apr 2025

24 Apr 2025

This training course designed to build both intermediate knowledge and practical skills related to spectrum monitoring, a cornerstone of modern telecommunications. The intermediate level is extending the information to include practical applications of the principles explained in detail in the introductory level. It emphasizes the critical role of spectrum monitoring in ensuring efficient use of radio frequencies, addressing interference issues, and supporting regulatory compliance.

09 Jan 2025

01 Apr 2025

Online instructor led

Global or multi-regional

English

EG-ATRC@tra.gov.eg

$0.00

This training course designed to build both intermediate knowledge and practical skills related to spectrum monitoring, a cornerstone of modern telecommunications. The intermediate level is

extending the information to include practical applications of the principles explained in detail in the introductory level. It emphasizes the critical role of spectrum monitoring in ensuring efficient use of radio frequencies, addressing interference issues, and supporting regulatory compliance.

Design and development of smart cities

28 Apr 2025

15 May 2025

Many countries have begun to develop smart villages/towns/cities with varying degrees of success. This course focuses on the design and implementation of smart sustainable cities (SSCs), and would be useful for policy makers, urban planners, and anyone interested in understanding basic aspects of smart city development.

05 Nov 2024

14 Apr 2025

Online instructor led

Global or multi-regional

English

mikaila.collymore@cavehill.uwi.edu

$130.00

Many countries have begun to develop smart villages/towns/cities with varying degrees of success. This course focuses on the design and implementation of smart sustainable cities (SSCs), and would be useful for policy makers, urban planners, and anyone interested in understanding basic aspects of smart city development.

Fiber optics planning, design, and deployment

28 Apr 2025

02 May 2025

This course is designed to encompass the theory, the technology and field engineering aspects of fiber optic planning design and deployment by adopting new developments in the industry. This course offers participants a thorough understanding of the basic physics associated with fiber systems alongside their respective applications - encompassing optical transmitters/receivers, multiplexing and transmission characteristics.

05 Nov 2024

14 Apr 2025

Online instructor led

Global or multi-regional

English

pougwoke@dbi.edu.ng

$150.00

This course is designed to encompass the theory, the technology and field engineering aspects of fiber optic planning design and deployment by adopting new developments in the industry. This course offers participants a thorough understanding of the basic physics associated with fiber systems alongside their respective applications - encompassing optical transmitters/receivers, multiplexing and transmission characteristics.

ESG (Environmental, Social and Governance) applied to the mobile network market

01 May 2025

31 Dec 2025

This online course offers a comprehensive examination of the intersection between Environmental, Social, and Governance factors within the realm of mobile networks. Participants will explore the pivotal role of ESG considerations in shaping the evolution and sustainability of mobile network infrastructures.

13 Dec 2024

01 Dec 2025

Online instructor led

Global or multi-regional

English

danielnunes@inatel.br

$79.00

This online course offers a comprehensive examination of the intersection between Environmental, Social, and Governance factors within the realm of mobile networks. Participants will explore the pivotal role of ESG considerations in shaping the evolution and sustainability of mobile network infrastructures.

Políticas y regulación en telecomunicaciones: adaptación a nuevas tendencias globales

05 May 2025

08 Jun 2025

El curso Políticas y regulación en telecomunicaciones: adaptación a nuevas tendencias globales está diseñado para ofrecer a los participantes una comprensión integral de las políticas y marcos regulatorios que rigen el sector de las telecomunicaciones en un contexto global dinámico. A lo largo del curso, se abordarán temas fundamentales como la gestión del espectro radioeléctrico, la protección de datos y la privacidad, la competencia en el mercado, así como el impacto de las tecnologías emergentes como el 5G, la inteligencia artificial y la Internet de las Cosas (IoT).

18 Dec 2024

20 Apr 2025

Online instructor led

Global or multi-regional

Spanish

ipretel@inictel-uni.edu.pe

$0.00

El curso Políticas y regulación en telecomunicaciones: adaptación a nuevas tendencias globales está diseñado para ofrecer a los participantes una comprensión integral de las políticas y marcos regulatorios que rigen el sector de las telecomunicaciones en un contexto global dinámico. A lo largo del curso, se abordarán temas fundamentales como la gestión del espectro radioeléctrico, la protección de datos y la privacidad, la competencia en el mercado, así como el impacto de las tecnologías emergentes como el 5G, la inteligencia artificial y la Internet de las Cosas (IoT).
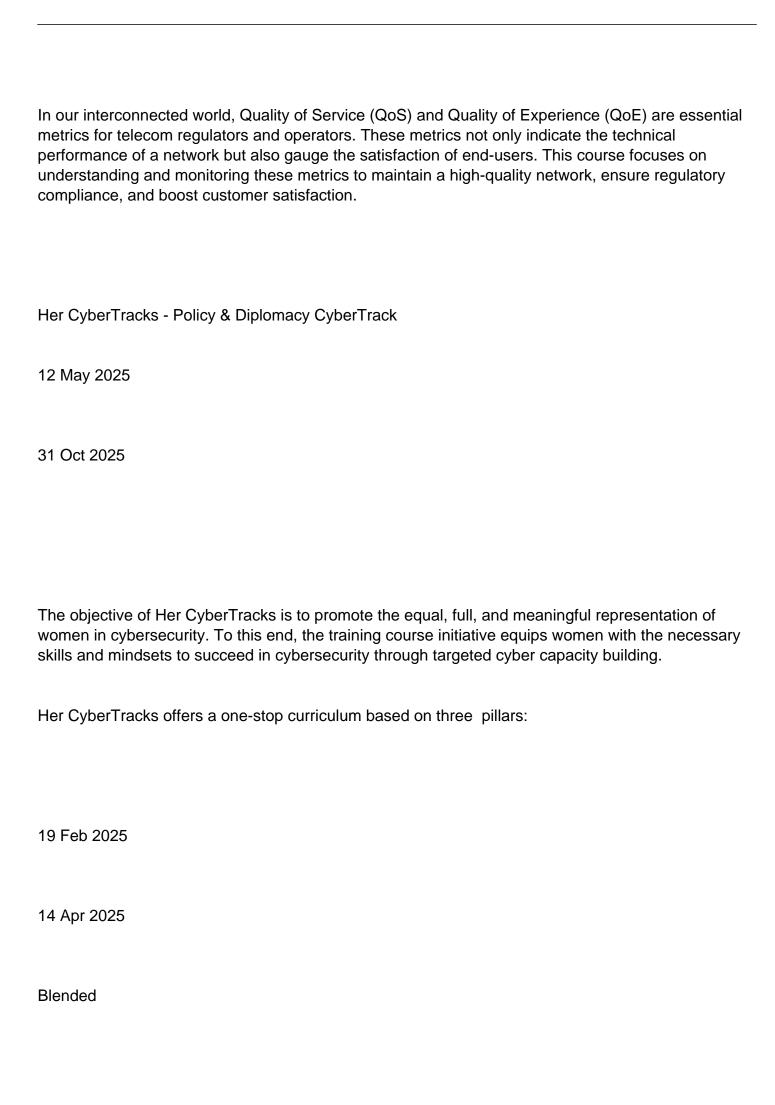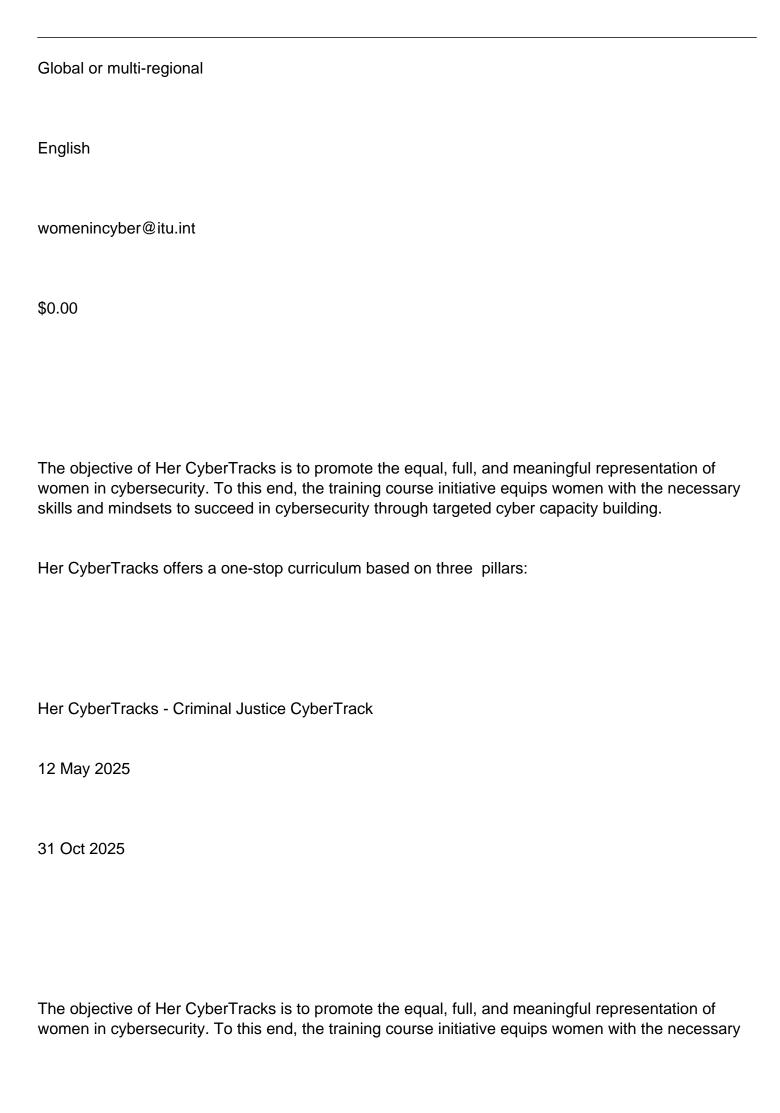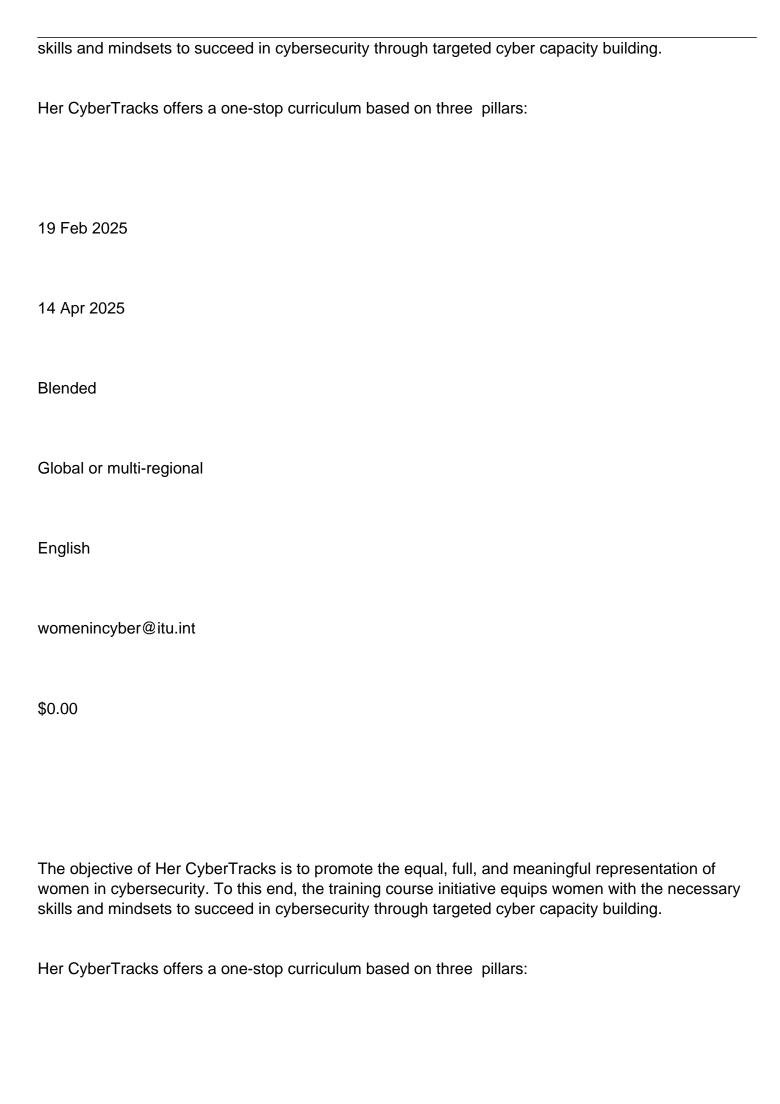
Disruptive technologies and governance in the digital era

05 May 2025

13 Jun 2025

This course provides a concise, non-technical overview of the technologies and infrastructures supporting telecommunications, broadcasting, and audio-visual services. It explores trends driving digital communications markets, emerging technologies, and their applications across sectors like agritech, fintech, and smart environments. Participants will gain a conceptual understanding of the digital technology landscape, market dynamics, and innovation, laying the groundwork for future-focused policy and regulation within a converging and competitive digital ecosystem.

15 Nov 2024

13 Apr 2025

Online instructor led

Global or multi-regional

English

nokhanyo.yolwa@wits.ac.za

$0.00

This course provides a concise, non-technical overview of the technologies and infrastructures supporting telecommunications, broadcasting, and audio-visual services. It explores trends driving digital communications markets, emerging technologies, and their applications across sectors like agritech, fintech, and smart environments. Participants will gain a conceptual understanding of the digital technology landscape, market dynamics, and innovation, laying the groundwork for future-focused policy and regulation within a converging and competitive digital ecosystem.

Introduction to telecom services customer experience management

05 May 2025

07 May 2025

In our interconnected world, Quality of Service (QoS) and Quality of Experience (QoE) are essential metrics for telecom regulators and operators. These metrics not only indicate the technical performance of a network but also gauge the satisfaction of end-users. This course focuses on understanding and monitoring these metrics to maintain a high-quality network, ensure regulatory compliance, and boost customer satisfaction.

09 Jan 2025

10 Apr 2025

Online instructor led

Global or multi-regional

English

EG-ATRC@tra.gov.eg

$0.00

In our interconnected world, Quality of Service (QoS) and Quality of Experience (QoE) are essential metrics for telecom regulators and operators. These metrics not only indicate the technical performance of a network but also gauge the satisfaction of end-users. This course focuses on understanding and monitoring these metrics to maintain a high-quality network, ensure regulatory compliance, and boost customer satisfaction.

Her CyberTracks - Policy & Diplomacy CyberTrack

12 May 2025

31 Oct 2025

The objective of Her CyberTracks is to promote the equal, full, and meaningful representation of women in cybersecurity. To this end, the training course initiative equips women with the necessary skills and mindsets to succeed in cybersecurity through targeted cyber capacity building.

Her CyberTracks offers a one-stop curriculum based on three pillars:

19 Feb 2025

14 Apr 2025

Blended

Global or multi-regional

English

womenincyber@itu.int

$0.00

The objective of Her CyberTracks is to promote the equal, full, and meaningful representation of women in cybersecurity. To this end, the training course initiative equips women with the necessary skills and mindsets to succeed in cybersecurity through targeted cyber capacity building.

Her CyberTracks offers a one-stop curriculum based on three pillars:

Her CyberTracks - Criminal Justice CyberTrack

12 May 2025

31 Oct 2025

The objective of Her CyberTracks is to promote the equal, full, and meaningful representation of women in cybersecurity. To this end, the training course initiative equips women with the necessary

skills and mindsets to succeed in cybersecurity through targeted cyber capacity building.

Her CyberTracks offers a one-stop curriculum based on three pillars:

19 Feb 2025

14 Apr 2025

Blended

Global or multi-regional

English

womenincyber@itu.int

$0.00

The objective of Her CyberTracks is to promote the equal, full, and meaningful representation of women in cybersecurity. To this end, the training course initiative equips women with the necessary skills and mindsets to succeed in cybersecurity through targeted cyber capacity building.

Her CyberTracks offers a one-stop curriculum based on three pillars:
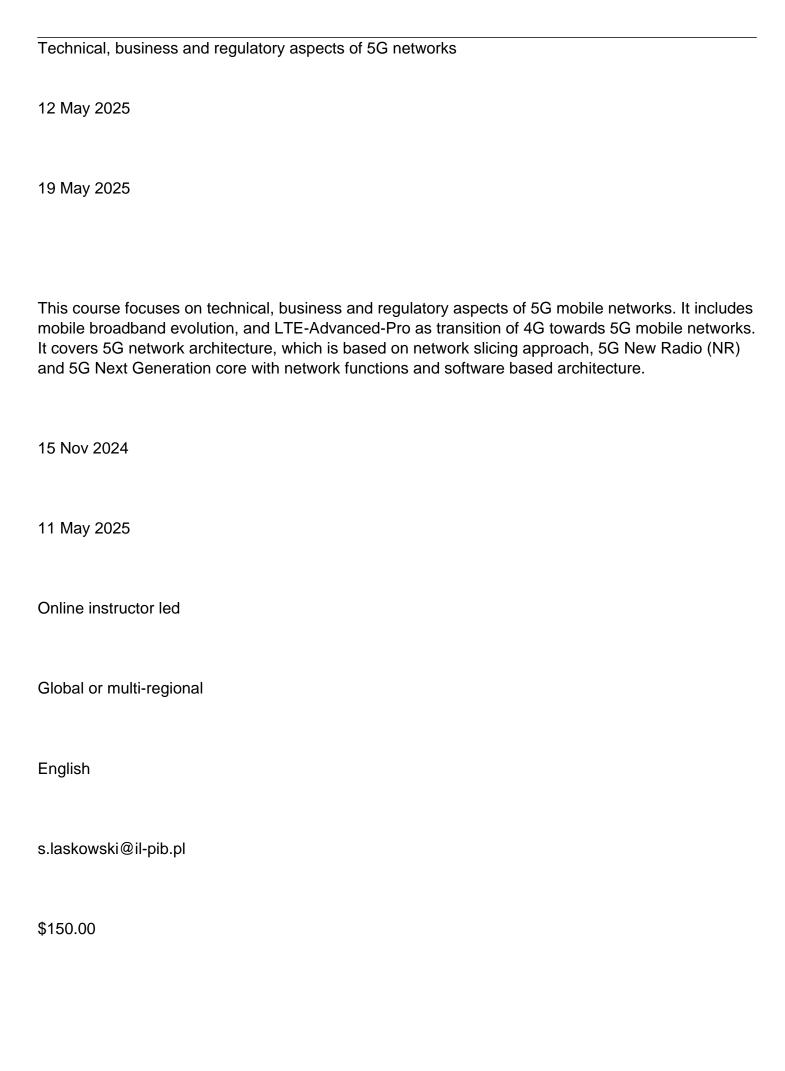
Ecosystem Initiative Development 201

12 May 2025

07 Jul 2025

This training course is by invitation only.

29 Oct 2024

02 May 2025

Online instructor led

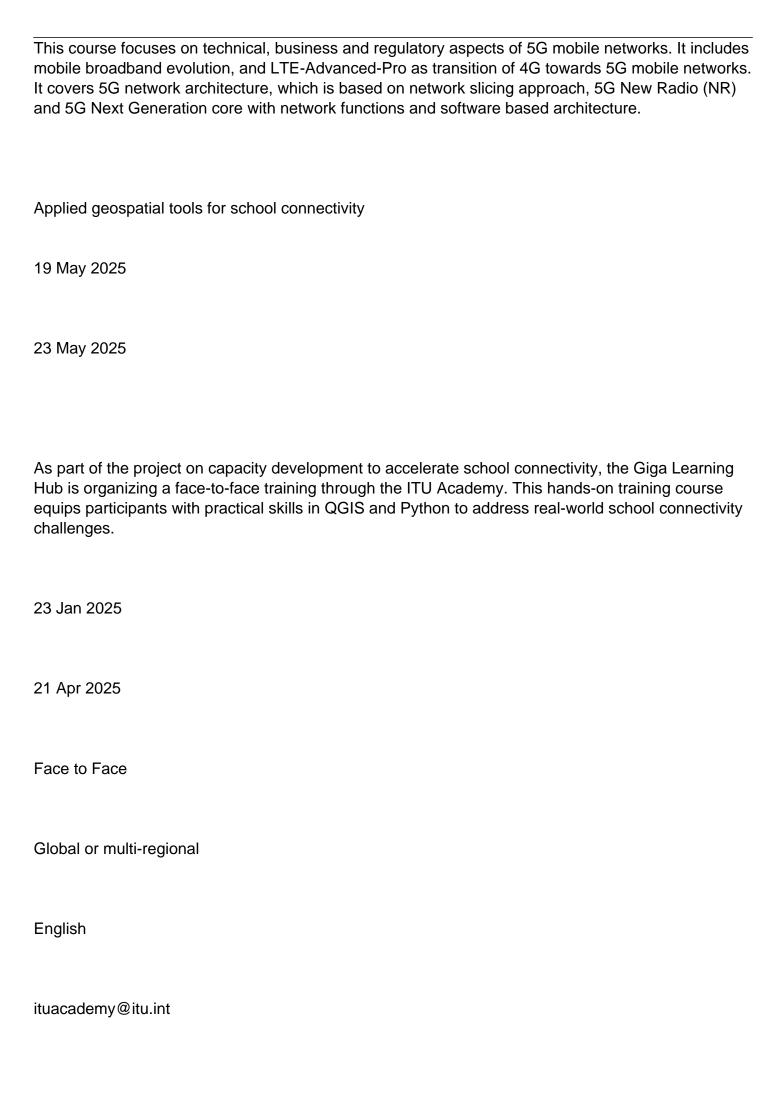Global or multi-regional

English

innovation@itu.int

$0.00

This training course is by invitation only.

SMTP - Spectrum engineering fundamentals

12 May 2025

06 Jun 2025

This course covers spectrum engineering foundations for students to be able to perform link budget calculations, interference analysis, and provide an understanding of 3D propagation modeling for radio communications services frequency planning. This is intended to support modern spectrum management. The aim of this course is to provide students with spectrum engineering foundations in order to be able to perform link budget calculations, interference analysis, and provide understanding of 3D propagation modelling for radio communications services frequency planning.

05 Nov 2024

28 Apr 2025

Online instructor led

Global or multi-regional

English

Jmwakijele@afralti.org

$300.00

This course covers spectrum engineering foundations for students to be able to perform link budget calculations, interference analysis, and provide an understanding of 3D propagation modeling for radio communications services frequency planning. This is intended to support modern spectrum management. The aim of this course is to provide students with spectrum engineering foundations in order to be able to perform link budget calculations, interference analysis, and provide understanding of 3D propagation modelling for radio communications services frequency planning.

Her CyberTracks - Incident Response CyberTrack

12 May 2025

31 Oct 2025

The objective of Her CyberTracks is to promote the equal, full, and meaningful representation of women in cybersecurity. To this end, the training course initiative equips women with the necessary skills and mindsets to succeed in cybersecurity through targeted cyber capacity building.

Her CyberTracks offers a one-stop curriculum based on three pillars:

19 Feb 2025

14 Apr 2025

Blended

Global or multi-regional

English

womenincyber@itu.int

$0.00

The objective of Her CyberTracks is to promote the equal, full, and meaningful representation of women in cybersecurity. To this end, the training course initiative equips women with the necessary skills and mindsets to succeed in cybersecurity through targeted cyber capacity building.

Her CyberTracks offers a one-stop curriculum based on three pillars:

SMTP - Spectrum management for aeronautical and radio determination services and military systems
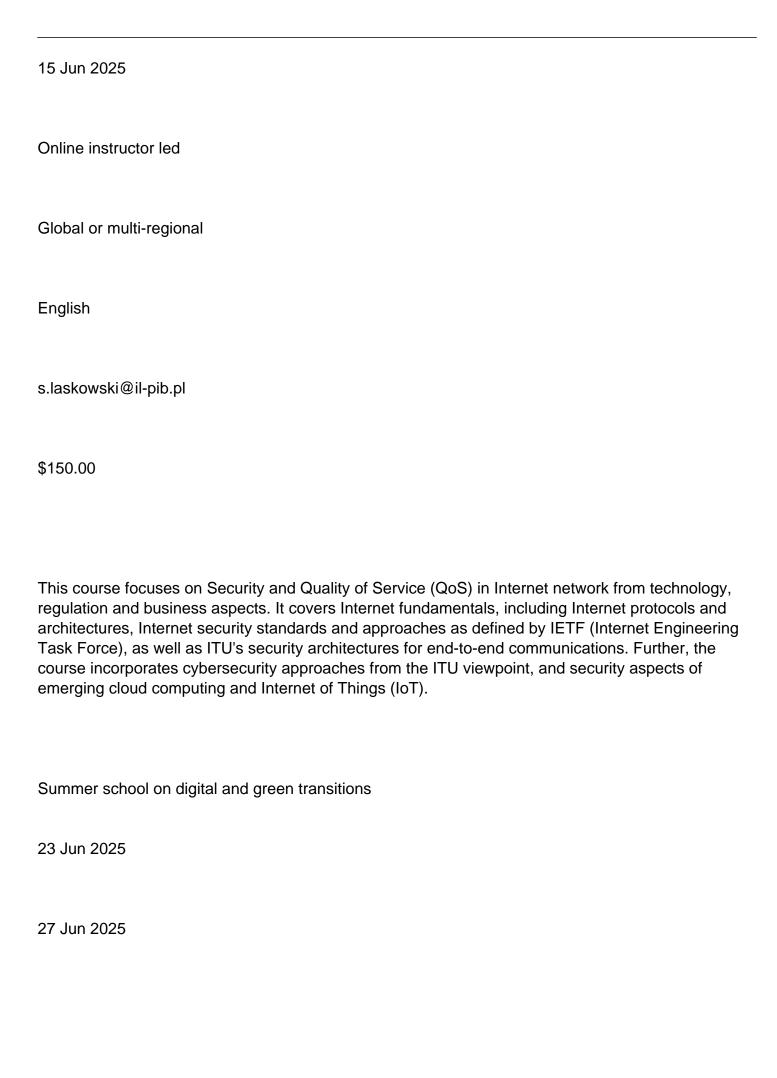
12 May 2025

06 Jun 2025

This course provides a comprehensive overview of spectrum management for aeronautical and radio determination services, including both commercial and military domains. Participants will gain a deep understanding of aeronautical systems, spectrum regulations, and practical spectrum management skills.

Through interactive lectures, practical exercises, and case studies, participants will develop the expertise to address complex challenges in aeronautical spectrum management.

05 Nov 2024

28 Apr 2025

Online instructor led

Global or multi-regional

English

Jmwakijele@afralti.org

$300.00

Technical, business and regulatory aspects of 5G networks

12 May 2025

19 May 2025

This course focuses on technical, business and regulatory aspects of 5G mobile networks. It includes mobile broadband evolution, and LTE-Advanced-Pro as transition of 4G towards 5G mobile networks. It covers 5G network architecture, which is based on network slicing approach, 5G New Radio (NR) and 5G Next Generation core with network functions and software based architecture.

15 Nov 2024

11 May 2025

Online instructor led

Global or multi-regional

English

s.laskowski@il-pib.pl

$150.00

This course focuses on technical, business and regulatory aspects of 5G mobile networks. It includes mobile broadband evolution, and LTE-Advanced-Pro as transition of 4G towards 5G mobile networks. It covers 5G network architecture, which is based on network slicing approach, 5G New Radio (NR) and 5G Next Generation core with network functions and software based architecture.

Applied geospatial tools for school connectivity

19 May 2025

23 May 2025

As part of the project on capacity development to accelerate school connectivity, the Giga Learning Hub is organizing a face-to-face training through the ITU Academy. This hands-on training course equips participants with practical skills in QGIS and Python to address real-world school connectivity challenges.

23 Jan 2025

21 Apr 2025

Face to Face

Global or multi-regional

English

ituacademy@itu.int

$0.00

As part of the project on capacity development to accelerate school connectivity, the Giga Learning Hub is organizing a face-to-face training through the ITU Academy. This hands-on training course equips participants with practical skills in QGIS and Python to address real-world school connectivity challenges.

Summer school on evidence-based digital policies for universal and meaningful connectivity

02 Jun 2025

06 Jun 2025

This summer school focuses on enhancing skills for creating evidence-based digital policies to achieve Universal and Meaningful Connectivity. Participants will learn to interpret and use ICT statistics to develop, implement, and evaluate such policies. Interactive sessions will address key ICT and development issues, helping participants generate and apply insights for effective policymaking.

13 Jan 2025

16 Mar 2025

Face to Face

Global or multi-regional

English

cdo@merit.unu.edu

$0.00

This summer school focuses on enhancing skills for creating evidence-based digital policies to achieve Universal and Meaningful Connectivity. Participants will learn to interpret and use ICT statistics to develop, implement, and evaluate such policies. Interactive sessions will address key ICT and development issues, helping participants generate and apply insights for effective policymaking.

Security and QoS in Internet network

16 Jun 2025

23 Jun 2025

This course focuses on Security and Quality of Service (QoS) in Internet network from technology, regulation and business aspects. It covers Internet fundamentals, including Internet protocols and architectures, Internet security standards and approaches as defined by IETF (Internet Engineering Task Force), as well as ITU's security architectures for end-to-end communications. Further, the course incorporates cybersecurity approaches from the ITU viewpoint, and security aspects of emerging cloud computing and Internet of Things (IoT).

15 Nov 2024

15 Jun 2025

Online instructor led

Global or multi-regional

English

s.laskowski@il-pib.pl

$150.00

This course focuses on Security and Quality of Service (QoS) in Internet network from technology, regulation and business aspects. It covers Internet fundamentals, including Internet protocols and architectures, Internet security standards and approaches as defined by IETF (Internet Engineering Task Force), as well as ITU's security architectures for end-to-end communications. Further, the course incorporates cybersecurity approaches from the ITU viewpoint, and security aspects of emerging cloud computing and Internet of Things (IoT).

Summer school on digital and green transitions

23 Jun 2025

27 Jun 2025

This summer school is designed to introduce participants to the concept of sustainable digital transformation through various subtopics, including emerging digital technologies, digital farming, and e-waste management.

19 Dec 2024

15 Mar 2025

Face to Face

Global or multi-regional

English

cdo@merit.unu.edu

$0.00

This summer school is designed to introduce participants to the concept of sustainable digital transformation through various subtopics, including emerging digital technologies, digital farming, and e-waste management.

SMTP - Wireless telecommunications technologies

23 Jun 2025

18 Jul 2025

This course covers a comprehensive view of some of the most dynamically developing business areas of radiocommunications. The course aims at describing the technologies and their lines of development which are present in the World in the given field.

The independent course provides high-level technical knowledge.

06 Nov 2024

09 Jun 2025

Online instructor led

Global or multi-regional

English

Jmwakijele@afralti.org

$300.00

This course covers a comprehensive view of some of the most dynamically developing business areas of radiocommunications. The course aims at describing the technologies and their lines of development which are present in the World in the given field.

The independent course provides high-level technical knowledge.

Digital inclusion in the workplace for persons with disabilities

24 Jun 2025

25 Jul 2025

While many individuals with disabilities are technologically savvy, persons with disabilities in general are faced with a digital gap. This is further compounded by digital gaps along lines of gender and socio-economic status, amongst others. These digital gaps need to be addressed, if we want to ensure that persons with disabilities do not miss out on the opportunities provided by the digital economy.

11 Nov 2024

10 Jun 2025

Online instructor led

Global or multi-regional

English

mikaila.collymore@cavehill.uwi.edu

$300.00

While many individuals with disabilities are technologically savvy, persons with disabilities in general are faced with a digital gap. This is further compounded by digital gaps along lines of gender and socio-economic status, amongst others. These digital gaps need to be addressed, if we want to ensure that persons with disabilities do not miss out on the opportunities provided by the digital economy.

Cyber threat intelligence

30 Jun 2025

04 Jul 2025

This course is designed to introduce the in-depth concept of cyber threat intelligence to participants and provide them with the practical experience to gain cyber threat intelligence skills required to make security teams better, threat hunting more accurate, incident response more effective, and organizations more aware of the evolving cyber threat landscape. Cyber threat intelligence is an area of cybersecurity that focuses on the collection and analysis of information about current and potential attacks that can threaten the safety of an organization or its assets.

10 Dec 2024

06 Apr 2025

Face to Face

Global or multi-regional

English

mlobin@cert.govmu.org

$0.00

This course is designed to introduce the in-depth concept of cyber threat intelligence to participants and provide them with the practical experience to gain cyber threat intelligence skills required to make security teams better, threat hunting more accurate, incident response more effective, and organizations more aware of the evolving cyber threat landscape. Cyber threat intelligence is an area of cybersecurity that focuses on the collection and analysis of information about current and potential attacks that can threaten the safety of an organization or its assets.

Implementation of spectrum monitoring systems according to ITU-R Recommendations

30 Jun 2025

04 Jul 2025

A practical and engaging course designed for professionals in telecommunications, this program offers a well-rounded introduction to key tasks, technical procedures, and essential tools used in modern spectrum monitoring.

10 Jan 2025

11 May 2025

Face to Face

Global or multi-regional

English

Kerstin.juettner@rohde-schwarz.com

$0.00

A practical and engaging course designed for professionals in telecommunications, this program offers a well-rounded introduction to key tasks, technical procedures, and essential tools used in modern spectrum monitoring.

Climate change and the mobile industry

01 Jul 2025

02 Jul 2025

This course aims to inform telecommunications policymakers and regulators, particularly those in emerging and developing markets, about the multifaceted relationship between mobile technologies and climate change. It also discusses how the mobile industry is reducing its own impacts on climate change while also enabling climate action in other sectors. Furthermore, it details how policymakers can facilitate climate action across the mobile ecosystem and beyond.

12 Mar 2025

24 Jun 2025

Online instructor led

Global or multi-regional

English

ituacademy@itu.int

$0.00

This course aims to inform telecommunications policymakers and regulators, particularly those in emerging and developing markets, about the multifaceted relationship between mobile technologies and climate change. It also discusses how the mobile industry is reducing its own impacts on climate change while also enabling climate action in other sectors. Furthermore, it details how policymakers can facilitate climate action across the mobile ecosystem and beyond.

Emerging technologies and digital innovation

07 Jul 2025

11 Jul 2025

This course explores the latest trends and innovations in digital technology and examines their implications for digital transformation. It covers topics such as artificial intelligence, blockchain, and the Internet of Things (IoT), highlighting their potential to drive innovation and disrupt traditional business models.

03 Dec 2024

27 Apr 2025

Face to Face

Global or multi-regional

English

training@afralti.org

$0.00

This course explores the latest trends and innovations in digital technology and examines their implications for digital transformation. It covers topics such as artificial intelligence, blockchain, and the Internet of Things (IoT), highlighting their potential to drive innovation and disrupt traditional business models.

Gestión del espectro: tecnologías inalámbricas en telecomunicaciones

10 Jul 2025

08 Aug 2025

El curso está diseñado para profesionales de las telecomunicaciones que quieren profundizar en las tecnologías inalámbricas y su gestión en redes modernas, explora los principios de las comunicaciones inalámbricas, las arquitecturas de redes, los mecanismos de acceso al espectro y los requisitos de ancho de banda.

18 Dec 2024

01 Jun 2025

Blended

Global or multi-regional

Spanish

ipretel@inictel-uni.edu.pe

$0.00

El curso está diseñado para profesionales de las telecomunicaciones que quieren profundizar en las tecnologías inalámbricas y su gestión en redes modernas, explora los principios de las comunicaciones inalámbricas, las arquitecturas de redes, los mecanismos de acceso al espectro y

los requisitos de ancho de banda.

Spectrum assignment policies for 5G & beyond, regulatory challenges & socio-economic impact

21 Jul 2025

25 Jul 2025

This course is structured to provide mid and senior level officers working in governments, a nuanced understanding of spectrum policies, regulatory frameworks and emerging trends shaping the telecommunication industry. The course will cover spectrum management and assignment tasks, roadmap and strategies in line with ITU Radio Regulations.

20 Feb 2025

30 Jun 2025

Online instructor led

Global or multi-regional

English

ddg.wa-nti@gov.in

$0.00

This course is structured to provide mid and senior level officers working in governments, a nuanced understanding of spectrum policies, regulatory frameworks and emerging trends shaping the telecommunication industry. The course will cover spectrum management and assignment tasks, roadmap and strategies in line with ITU Radio Regulations.

Low earth orbit communication satellites and applications in digital economy era

21 Jul 2025

31 Jul 2025

This comprehensive training program aims to equip participants with in-depth knowledge of Low Earth Orbit (LEO) communication satellites and their diverse applications in the rapidly evolving digital economy. The role of LEO communication satellites has become increasingly pivotal, ushering in a new era in the digital economy. These satellites, orbiting at lower altitudes than their geostationary counterparts, offer many advantages that are reshaping the way we connect, communicate, and conduct business.

05 Nov 2024

07 Jul 2025

Online instructor led

Global or multi-regional

English

pougwoke@dbi.edu.ng

$150.00

This comprehensive training program aims to equip participants with in-depth knowledge of Low Earth Orbit (LEO) communication satellites and their diverse applications in the rapidly evolving digital economy. The role of LEO communication satellites has become increasingly pivotal, ushering in a new era in the digital economy. These satellites, orbiting at lower altitudes than their geostationary counterparts, offer many advantages that are reshaping the way we connect, communicate, and conduct business.

Digital innovation ecosystems: building the future

04 Aug 2025

29 Aug 2025

This 4-week online, instructor-led course delves into the dynamic world of Digital Innovation Ecosystems. Participants will gain a comprehensive understanding of the key components, players, and trends shaping these environments. Drawing on insights from the accompanying book, Digital Innovation Ecosystems, the course equips participants with the knowledge and skills to foster innovation within their organizations and contribute to thriving digital ecosystems.

28 Nov 2024

13 Jul 2025

Online instructor led

Global or multi-regional

English

training@afralti.org

$0.00

This 4-week online, instructor-led course delves into the dynamic world of Digital Innovation Ecosystems. Participants will gain a comprehensive understanding of the key components, players, and trends shaping these environments. Drawing on insights from the accompanying book, Digital Innovation Ecosystems, the course equips participants with the knowledge and skills to foster innovation within their organizations and contribute to thriving digital ecosystems.

Circular economy through e-waste policy and producer action

04 Aug 2025

08 Aug 2025

This training course provides participants with an intermediary exposure to the world of policymaking and electronics producer responsibility in the area of e-waste management. It brings together key learning materials and resources based on the underpinning circular economy principles and the

legal, financial and administrative components of well-functioning e-waste management systems.

10 Jan 2025

10 May 2025

Face to Face

Global or multi-regional

English

ituacademy@itu.int

$0.00

This training course provides participants with an intermediary exposure to the world of policymaking and electronics producer responsibility in the area of e-waste management. It brings together key learning materials and resources based on the underpinning circular economy principles and the legal, financial and administrative components of well-functioning e-waste management systems.

SMTP - Spectrum monitoring

04 Aug 2025

29 Aug 2025

The course covers the role, functions and basic techniques of spectrum monitoring, and purpose and capabilities of different types of spectrum monitoring equipment.

11 Nov 2024

21 Jul 2025

Online instructor led

Global or multi-regional

English

Jmwakijele@afralti.org

$300.00

The course covers the role, functions and basic techniques of spectrum monitoring, and purpose and capabilities of different types of spectrum monitoring equipment.

Key aspects and governance of Internet of things, big data and artificial intelligence

18 Aug 2025

25 Aug 2025

This course focuses on technical, business and regulatory aspects of Internet of Things (IoT), Big Data and Artificial Intelligence (AI). It covers Internet technologies for IoT, then IoT standards, architectures and interoperability, as well as IoT policies and regulations, including IoT security and privacy issues. The course includes IoT services in 4G and 5G mobile systems, including massive IoT and critical IoT use cases. The IoT generates large amounts of data that cannot be processed by traditional techniques, and such data is referred to as Big Data.

15 Nov 2024

17 Aug 2025

Online instructor led

Global or multi-regional

English

s.laskowski@il-pib.pl

$150.00

This course focuses on technical, business and regulatory aspects of Internet of Things (IoT), Big

Data and Artificial Intelligence (AI). It covers Internet technologies for IoT, then IoT standards, architectures and interoperability, as well as IoT policies and regulations, including IoT security and privacy issues. The course includes IoT services in 4G and 5G mobile systems, including massive IoT and critical IoT use cases. The IoT generates large amounts of data that cannot be processed by traditional techniques, and such data is referred to as Big Data.

Excellence in digital government

18 Aug 2025

22 Aug 2025

This training is designed to help participants understand the key challenges and success factors involved in driving digital government initiatives. The programme focuses on three main areas to build knowledge and skills in a practical, engaging way.

16 Nov 2024

01 Jun 2025

Face to Face

Global or multi-regional

English

nokhanyo.yolwa@wits.ac.za

$0.00

This training is designed to help participants understand the key challenges and success factors involved in driving digital government initiatives. The programme focuses on three main areas to build knowledge and skills in a practical, engaging way.

SMTP - Spectrum management for satellite systems

18 Aug 2025

12 Sep 2025

This module will provide learners with an understanding of the management of radio spectrum related to satellite communications systems.

06 Nov 2024

04 Aug 2025

Online instructor led

Global or multi-regional

English

Jmwakijele@afralti.org

$300.00

This module will provide learners with an understanding of the management of radio spectrum related to satellite communications systems.

The role of CSIRTs in the implementation of UN technical norms and confidence-building measures (CBMs)

27 Aug 2025

29 Aug 2025

The implementation of the UN cyber norms requires adjusting or establishing policies, procedures, regulations or capabilities or ado pting other measures which support state and national adherence to the projected conditions of the recommendations for norms. By improving national cybersecurity, countries will be better able and willing to work with other countries to improve cybersecurity regional and globally.

29 Apr 2024

07 Aug 2025

Online instructor led

Global or multi-regional

English

kusmani@cert.ncb.mu

$0.00

The implementation of the UN cyber norms requires adjusting or establishing policies, procedures, regulations or capabilities or ado pting other measures which support state and national adherence to the projected conditions of the recommendations for norms. By improving national cybersecurity, countries will be better able and willing to work with other countries to improve cybersecurity regional and globally.

Bridging the mobile gender gap

01 Sep 2025

22 Sep 2025

This course helps policymakers understand the size and drivers of the mobile gender gap in low- and middle-income countries and provides insights and recommendations on how to improve digital inclusion for women.

12 Mar 2025

25 Aug 2025

Online instructor led

Global or multi-regional

English

ituacademy@itu.int

$0.00

This course helps policymakers understand the size and drivers of the mobile gender gap in low- and middle-income countries and provides insights and recommendations on how to improve digital inclusion for women.

Auditoria de centros de datos

01 Sep 2025

03 Oct 2025

Este curso de Auditoría de un Centro de Datos busca desarrollar las competencias necesarias para auditar centros de datos de nivel empresarial, conforme a los estándares y mejores prácticas internacionales.

En este curso intermedio, los participantes aprenderán a evaluar los requisitos para optimizar el rendimiento, asegurar la continuidad operativa, implementar soluciones de alta disponibilidad y garantizar la eficiencia energética de un centro de datos.

13 Dec 2024

10 Aug 2025

Online instructor led

Global or multi-regional

Spanish

ipretel@inictel-uni.edu.pe

$0.00

Este curso de Auditoría de un Centro de Datos busca desarrollar las competencias necesarias para auditar centros de datos de nivel empresarial, conforme a los estándares y mejores prácticas internacionales.

En este curso intermedio, los participantes aprenderán a evaluar los requisitos para optimizar el rendimiento, asegurar la continuidad operativa, implementar soluciones de alta disponibilidad y garantizar la eficiencia energética de un centro de datos.

CSIRT/SOC establishment and modernisation

02 Sep 2025

04 Sep 2025

The CSIRT/SOC Establishment and Modernisation course is training program specifically designed to help organisations to establish an effective CSIRT/SOC team. The course provides a detailed guidance on the CSIRT/SOC team mandate and covers all the key elements required for its successful establishment.

29 Oct 2024

26 Aug 2025

Online instructor led

Global or multi-regional

English

rj@nrdcs.lt

$500.00

The CSIRT/SOC Establishment and Modernisation course is training program specifically designed to help organisations to establish an effective CSIRT/SOC team. The course provides a detailed guidance on the CSIRT/SOC team mandate and covers all the key elements required for its
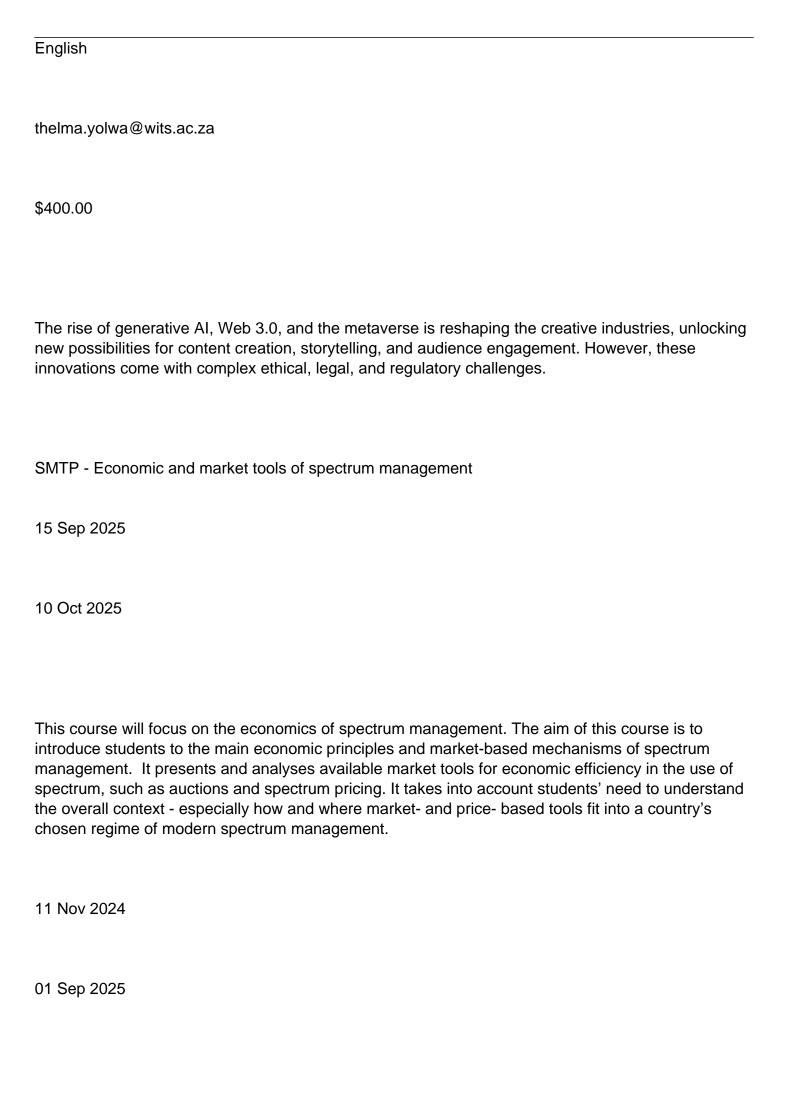
successful establishment.

Emerging technology developments and their applications

08 Sep 2025

19 Sep 2025

This course will dive in the overall progress of the current global Artificial Intelligence technology status and its the future possibilities; the Cloud Computing development and its trends; the Big Data industry, technology and development; the innovative development of new infrastructure in the digital economy, and the practices such as digital infrastructure, computing infrastructure, follow-up broadband network, IPv6 etc

05 Dec 2024

01 Sep 2025

Online instructor led

Global or multi-regional

English

wangying@caict.ac.cn

$0.00

This course will dive in the overall progress of the current global Artificial Intelligence technology status and its the future possibilities; the Cloud Computing development and its trends; the Big Data industry, technology and development; the innovative development of new infrastructure in the digital economy, and the practices such as digital infrastructure, computing infrastructure, follow-up broadband network, IPv6 etc

Governance of Generative AI and other emerging technologies in the creative sectors

15 Sep 2025

17 Oct 2025

The rise of generative AI, Web 3.0, and the metaverse is reshaping the creative industries, unlocking new possibilities for content creation, storytelling, and audience engagement. However, these innovations come with complex ethical, legal, and regulatory challenges.

22 Jan 2025

01 Sep 2025

Online instructor led

Global or multi-regional

English

thelma.yolwa@wits.ac.za

$400.00

The rise of generative AI, Web 3.0, and the metaverse is reshaping the creative industries, unlocking new possibilities for content creation, storytelling, and audience engagement. However, these innovations come with complex ethical, legal, and regulatory challenges.

SMTP - Economic and market tools of spectrum management

15 Sep 2025

10 Oct 2025

This course will focus on the economics of spectrum management. The aim of this course is to introduce students to the main economic principles and market-based mechanisms of spectrum management. It presents and analyses available market tools for economic efficiency in the use of spectrum, such as auctions and spectrum pricing. It takes into account students' need to understand the overall context - especially how and where market- and price- based tools fit into a country's chosen regime of modern spectrum management.

11 Nov 2024

01 Sep 2025

Online instructor led

Global or multi-regional

English

Jmwakijele@afralti.org

$300.00

This course will focus on the economics of spectrum management. The aim of this course is to introduce students to the main economic principles and market-based mechanisms of spectrum management. It presents and analyses available market tools for economic efficiency in the use of spectrum, such as auctions and spectrum pricing. It takes into account students' need to understand the overall context - especially how and where market- and price- based tools fit into a country's chosen regime of modern spectrum management.

5G-Advanced mobile broadband and future services

22 Sep 2025

29 Sep 2025

This course will focus on 5G-Advanced Mobile Broadband and Future Services, including technologies, regulation and business aspects. It will cover mobile broadband evolution, from IMT-Advanced (4G) to IMT-2020 (5G) and IMT-2030 (6G).

15 Nov 2024

21 Sep 2025

Online instructor led

Global or multi-regional

English

s.laskowski@il-pib.pl

$150.00

This course will focus on 5G-Advanced Mobile Broadband and Future Services, including technologies, regulation and business aspects. It will cover mobile broadband evolution, from IMT-Advanced (4G) to IMT-2020 (5G) and IMT-2030 (6G).

Smart city technologies - from theory to practice

22 Sep 2025

10 Oct 2025

This course is an advanced-level course in smart city design. It focuses on both theoretical and practical aspects of specific technologies that are required when developing smart city solutions.

05 Nov 2024

08 Sep 2025

Online instructor led

Global or multi-regional

English

mikaila.collymore@cavehill.uwi.edu

$275.00

This course is an advanced-level course in smart city design. It focuses on both theoretical and practical aspects of specific technologies that are required when developing smart city solutions.

Strengthening cybersecurity through effective CSIRT and SOC models

22 Sep 2025

This 4.5-day course provides a comprehensive approach to building, modernising, and optimising Cyber Security Incident Response Teams (CSIRTs) and Security Operations Centers (SOCs). Designed to address the increasing complexity of today's threat landscape, the course blends strategic frameworks with hands-on technical training to equip participants with the skills needed to design, implement, and sustain effective cybersecurity operations.

28 Jan 2025

22 Jun 2025

Face to Face

Global or multi-regional

English

training@afralti.org

$0.00

This 4.5-day course provides a comprehensive approach to building, modernising, and optimising Cyber Security Incident Response Teams (CSIRTs) and Security Operations Centers (SOCs). Designed to address the increasing complexity of today's threat landscape, the course blends strategic frameworks with hands-on technical training to equip participants with the skills needed to design, implement, and sustain effective cybersecurity operations.

Smart cities telecom infrastructure

22 Sep 2025

25 Sep 2025

This course introduces participants to the foundations of smart cities including their definition, reference architectures, governance, and strategic frameworks. It focuses on strategies, policies, and successful examples to inspire innovative city planning and organization. In particular, it: (i) describes the connectivity infrastructure required for smart cities including fiber optics and wireless technologies, (ii) introduces smart systems and solutions, and (iii) explores business and governance models ensuring sustainable implementation and operation.

09 Jan 2025

01 Sep 2025

Online instructor led

Global or multi-regional

English

EG-ATRC@tra.gov.eg

$0.00

This course introduces participants to the foundations of smart cities including their definition, reference architectures, governance, and strategic frameworks. It focuses on strategies, policies, and successful examples to inspire innovative city planning and organization. In particular, it: (i) describes the connectivity infrastructure required for smart cities including fiber optics and wireless technologies, (ii) introduces smart systems and solutions, and (iii) explores business and governance models ensuring sustainable implementation and operation.

Cyber resilience for critical information infrastructures

24 Sep 2025

27 Sep 2025

Critical Information Infrastructure is defined as those assets systems and functions that are vital to the nations that their incapacity or destruction would have a devastating impact on the economy, government capability to function, public health and safety as well as on national defense and security.

13 Nov 2024

03 Sep 2025

Online instructor led

Global or multi-regional

English

mlobin@cert.govmu.org

$0.00

Critical Information Infrastructure is defined as those assets systems and functions that are vital to the nations that their incapacity or destruction would have a devastating impact on the economy, government capability to function, public health and safety as well as on national defense and security.

GovStack essentials: transforming public services with modern digital infrastructure

29 Sep 2025

03 Oct 2025

This training course will equip participants with the knowledge and tools to design and implement scalable, interoperable, and citizen-focused digital public infrastructure. Through an in-depth exploration of GovStack's modular building blocks, frameworks like PAERA, and real-world case studies, this course offers practical insights into creating efficient e-governance systems.

08 Jan 2025

29 Jun 2025

Face to Face

Global or multi-regional

English

anastasiia.dudko@taltech.ee

$0.00

This training course will equip participants with the knowledge and tools to design and implement scalable, interoperable, and citizen-focused digital public infrastructure. Through an in-depth exploration of GovStack's modular building blocks, frameworks like PAERA, and real-world case studies, this course offers practical insights into creating efficient e-governance systems.

Fiber optics infrastructure and project management

06 Oct 2025

17 Oct 2025

This course is designed to develop IT professional's knowledge and skills to scope, initiate, deliver and close a fiber optic project, in time, on budget, and to the highest quality specifications. Some of the topics to be discussed include tools and techniques for planning, design and implementing. FTTH, Campus, Backbone and Submarine Systems and other systems. The skill set garnered in this training will no doubt provide an impetus for a robust and resilient fiber network performance and higher skills.

05 Nov 2024

22 Sep 2025

Online instructor led

Global or multi-regional

English

pougwoke@dbi.edu.ng

$150.00

This course is designed to develop IT professional's knowledge and skills to scope, initiate, deliver and close a fiber optic project, in time, on budget, and to the highest quality specifications. Some of the topics to be discussed include tools and techniques for planning, design and implementing. FTTH, Campus, Backbone and Submarine Systems and other systems. The skill set garnered in this training will no doubt provide an impetus for a robust and resilient fiber network performance and higher skills.

Zero trust: a progressive and comprehensive approach to CII protection

07 Oct 2025

16 Oct 2025

The Zero Trust Architecture (ZTA) approach is rapidly emerging as a pivotal trend in cybersecurity, particularly for the protection of Critical Information Infrastructure (CII). Unlike traditional security models relying on perimeter defense, ZTA operates on the principle of "never trust, always verify," ensuring that every access request is continuously authenticated and authorized.

15 Jan 2025

14 Sep 2025

Online instructor led

Global or multi-regional

English

rj@nrdcs.lt

$0.00

Trends in communications sector reform and regulation for the digital economy

20 Oct 2025

21 Nov 2025

This course explores the transformative trends shaping the transition to digital economies. It highlights the relevance of regulation in key sectors from telecoms, broadcasting to e-commerce, smart cities and digital government. Participants will examine emerging technologies, innovation ecosystems, and their regulatory implications, while developing practical skills such as regulatory impact assessment and strategic foresight.

10 Dec 2024

06 Oct 2025

Online instructor led

Global or multi-regional

English

nokhanyo.yolwa@wits.ac.za

$500.00

This course explores the transformative trends shaping the transition to digital economies. It

highlights the relevance of regulation in key sectors from telecoms, broadcasting to e-commerce, smart cities and digital government. Participants will examine emerging technologies, innovation ecosystems, and their regulatory implications, while developing practical skills such as regulatory impact assessment and strategic foresight.

Technical, business and regulatory aspects of Artificial Intelligence and Metaverse for future Internet and telecoms

23 Oct 2025

24 Oct 2025

This course focuses on technical, business and regulatory aspects of Artificial Intelligence (AI) and Metaverse for future Internet and telecoms. It covers fixed and mobile broadband Internet, QoS, and cybersecurity, AI fundamentals for telecom sector including ITU's Machine Learning (ML), Generative AI, federated learning, Explainable AI (XAI) and responsible AI use. The course includes future AI-based clouds and IoT, including AI as a Service (AIaaS), edge AI and edge clouds, and Industrial IoT.

18 Jan 2025

22 Oct 2025

Face to Face

Global or multi-regional

English

s.laskowski@il-pib.pl

$500.00

This course focuses on technical, business and regulatory aspects of Artificial Intelligence (AI) and Metaverse for future Internet and telecoms. It covers fixed and mobile broadband Internet, QoS, and cybersecurity, AI fundamentals for telecom sector including ITU's Machine Learning (ML), Generative AI, federated learning, Explainable AI (XAI) and responsible AI use. The course includes future AI-based clouds and IoT, including AI as a Service (AIaaS), edge AI and edge clouds, and Industrial IoT.

SMTP - Spectrum planning and policies for wireless innovation

27 Oct 2025

21 Nov 2025

This course will cover an in-depth understanding of theories, tools and practices involved in spectrum management strategic planning and policy developments that are aligned with forward-looking analytical spectrum management approaches enabling wireless innovation.
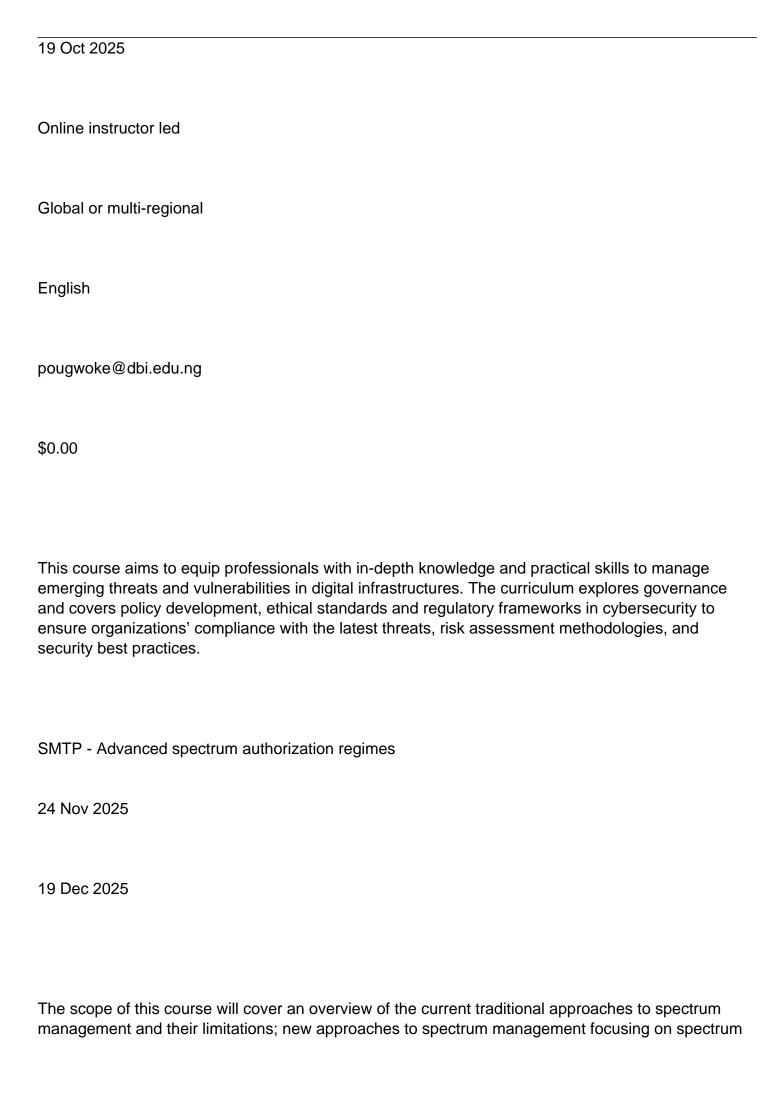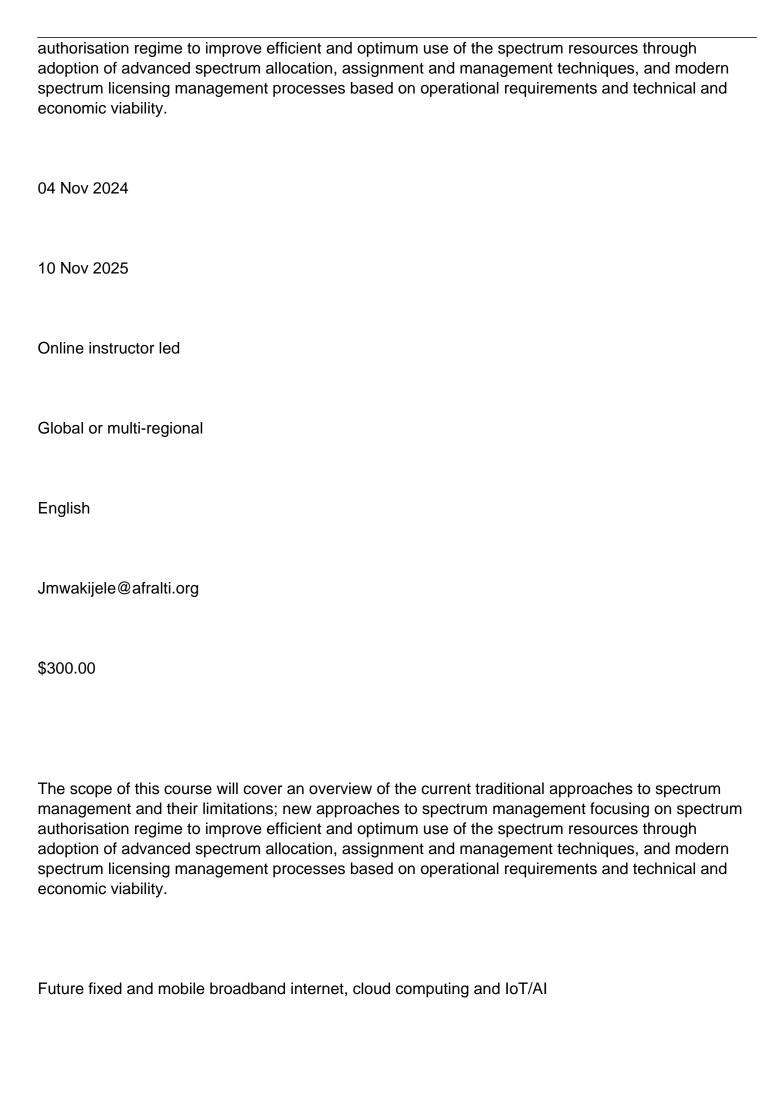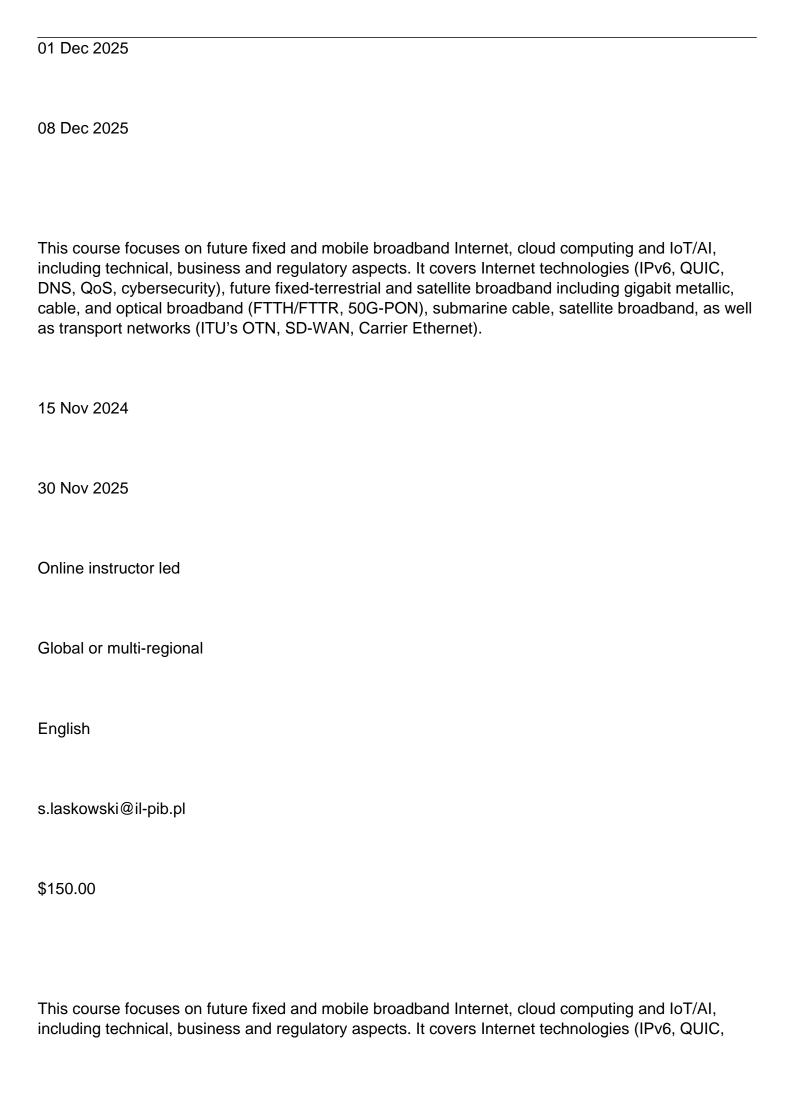
11 Nov 2024

13 Oct 2025

Online instructor led

Global or multi-regional

English

Jmwakijele@afralti.org

$300.00

This course will cover an in-depth understanding of theories, tools and practices involved in spectrum management strategic planning and policy developments that are aligned with forward-looking analytical spectrum management approaches enabling wireless innovation.

Emerging cybersecurity threats and vulnerabilities management on digital infrastructures

10 Nov 2025

21 Nov 2025

This course aims to equip professionals with in-depth knowledge and practical skills to manage emerging threats and vulnerabilities in digital infrastructures. The curriculum explores governance and covers policy development, ethical standards and regulatory frameworks in cybersecurity to ensure organizations' compliance with the latest threats, risk assessment methodologies, and security best practices.

20 Jan 2025

19 Oct 2025

Online instructor led

Global or multi-regional

English

pougwoke@dbi.edu.ng

$0.00

This course aims to equip professionals with in-depth knowledge and practical skills to manage emerging threats and vulnerabilities in digital infrastructures. The curriculum explores governance and covers policy development, ethical standards and regulatory frameworks in cybersecurity to ensure organizations' compliance with the latest threats, risk assessment methodologies, and security best practices.

SMTP - Advanced spectrum authorization regimes

24 Nov 2025

19 Dec 2025

The scope of this course will cover an overview of the current traditional approaches to spectrum management and their limitations; new approaches to spectrum management focusing on spectrum

authorisation regime to improve efficient and optimum use of the spectrum resources through adoption of advanced spectrum allocation, assignment and management techniques, and modern spectrum licensing management processes based on operational requirements and technical and economic viability.

04 Nov 2024

10 Nov 2025

Online instructor led

Global or multi-regional

English

Jmwakijele@afralti.org

$300.00

The scope of this course will cover an overview of the current traditional approaches to spectrum management and their limitations; new approaches to spectrum management focusing on spectrum authorisation regime to improve efficient and optimum use of the spectrum resources through adoption of advanced spectrum allocation, assignment and management techniques, and modern spectrum licensing management processes based on operational requirements and technical and economic viability.

Future fixed and mobile broadband internet, cloud computing and IoT/AI

01 Dec 2025

08 Dec 2025

This course focuses on future fixed and mobile broadband Internet, cloud computing and IoT/AI, including technical, business and regulatory aspects. It covers Internet technologies (IPv6, QUIC, DNS, QoS, cybersecurity), future fixed-terrestrial and satellite broadband including gigabit metallic, cable, and optical broadband (FTTH/FTTR, 50G-PON), submarine cable, satellite broadband, as well as transport networks (ITU's OTN, SD-WAN, Carrier Ethernet).

15 Nov 2024

30 Nov 2025

Online instructor led

Global or multi-regional

English

s.laskowski@il-pib.pl

$150.00

This course focuses on future fixed and mobile broadband Internet, cloud computing and IoT/AI, including technical, business and regulatory aspects. It covers Internet technologies (IPv6, QUIC,

DNS, QoS, cybersecurity), future fixed-terrestrial and satellite broadband including gigabit metallic, cable, and optical broadband (FTTH/FTTR, 50G-PON), submarine cable, satellite broadband, as well as transport networks (ITU's OTN, SD-WAN, Carrier Ethernet).