

ITU Centre of Excellence at FEEIT in Skopje, Macedonia

Meeting of the Steering Committee for the Centres of Excellence in Europe in 2019

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Brief introduction to FEEIT

- The Faculty of Electrical Engineering and Information Technologies (FEEIT) is founded in 1959 within the Ss. Cyril and Methodius University in Skopje, Macedonia.
 - at present time over 3000 students are studying in all three cycles (undergraduate, master and doctoral studies).
- Ss. Cyril and Methodius University in Skopje is the first state University in the Republic of Macedonia, founded in 1949.
 - the University represents a functional community of 24 faculties (including the FEEIT), and 9 research institutes.
 - □ around 50000 students study in all Faculties in all cycles of studies.
 - $\hfill\square$ the academic personnel is over 3000.





Studies at FEEIT

- The Faculty of Electrical Engineering and Information Technologies is organized in 10 Institutes and has 19 laboratories for education and research, that provide
 - undergraduate study programmes and master programmes in all areas of telecommunications, electronics, computer science, automation, power engineering, as well as PhD programmes in electrical engineering and information technologies.
- All studies are organized according to the Bologna agreement and the European Credit Transfer System (ECTS).
- Our academic work is focused on educating students with the best professional knowledge and with analytical and critical ability of thinking and reasoning.





Quality and mission

- We are continuously following the new developments and trends, and as a dynamic and active institution, we are adapting to the requests and needs of the global society.
 - The FEEIT is a symbol of quality and we are strongly devoted to it, and aim to continue its successful tradition of which we are very proud.

The FEEIT mission is:

To provide continuing education and professional individuals in electrical engineering entrepreneurship and new technologies that will work effectively and promote new work and new opportunities.





University's mission

- The Ss. Cyril and Methodius University's mission is to be:
 - an autonomous, scientific and higher educational university which provides teaching, scholar and applied activities in technical, natural sciences and mathematics, bio-technical, artistic, medical and social sciences;
 - a university open to all students on the basis of equality and their academic results regardless of their ideological, political, cultural and social origin;
 - a university that coordinates its academic offer to the needs of the social surrounding, and has continuously dynamic relation towards it;
 - a university that creates stimulative environment for its employees, providing them a progress of their abilities in order to accomplish its mission;
 - □ a university which develops long-life and continuing education;
 - a university determined to achieve the European norms and standards in all spheres of its activities.





Priority area of FEEIT for the 2019-2022 cycle of activities

- The priority area of FEEIT for 2019-2022 ITU CoE trainings in Europe is "Wireless and Fixed Broadband Access".
- Broadband access topics are the following:
 - Fixed broadband/ultra-broadband access,
 - Mobile broadband/ultra-broadband access,
 - Next Generation Networks (NGN) evolution and Next Generation Access (NGA),
 - Broadband Internet technologies,
 - □ Future networks,
 - □ Future Internet,
 - □ 4G/4.5G/5G mobile networks and services,
 - Business aspects of broadband access, regulation aspects of broadband access.



ITU Academy web portal http://academy.itu.int



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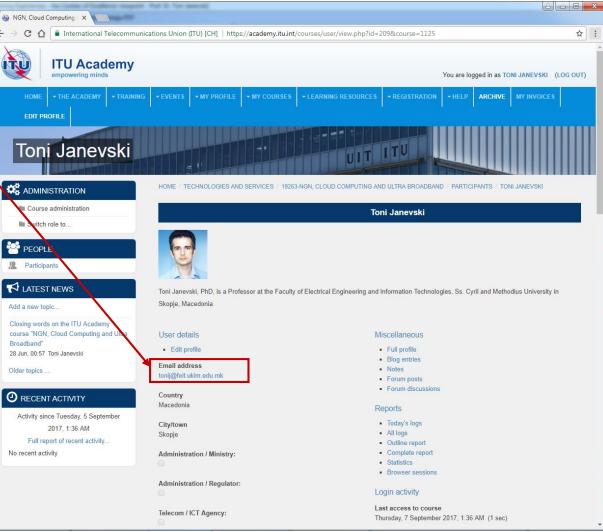
Email





User identification in the ITU Academy

ITU Academy user account is uniquely identified by the user's email address.







😻 ITU Academy course cover page

Inside view 2 - 0 second languages of the second state in the language 👰 Course: Giga Speed Wire 🗙 Q 🕁 C 🏠 🔒 International Telecommunications Union (ITU) [CH] https://academy.itu.int/courses/course/view.php?id=1118 ITU Academy You are logged in as TONI JANEVSKI (LOG OUT) Title of the EDIT PROFILE ARCHIVE HOME / TECHNOLOGIES AND SERVICES / 19264-GIGA SPEED WIRELESS AND MOBILE BROADBAND INTERNE ADMINISTRATION **ITU** Academy E Course administration Turn editing on C Edit settings Users ITU Centres of Excellence Network course. T Filters GIGA SPEED WIRELESS AND MOBILE BROADBAND INTERNET Reports I Grades adae Repositor Switch role to PEOPLE Tutor & Coordinator: Toni Janevski Participants 📢 LATEST NEWS Dates: 21 Nov - 18 Dec 2017 Add a new topic. Closing words on the ITU Academy course "Giga Speed Wireless and Mobile Broadband Internet ITU Centres of Excellence Network for Europe 20 Dec, 00:49 Toni Janevski **Tutors and** Giga Speed Wireless and Mobile Broadband Internet Older topics . O RECENT ACTIVITY coordinators. Activity since Friday, 23 February 2018, 4:02 AM ull report of recent activity No recent ac Tutor & Coordinator: Prof. Dr. Toni Janevski Tutor Assistants: Dr. Tomislav Shuminoski, Dr. Pero Latkoski

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Fraining Coordinator: Jaroslaw Por



ITU Academy courses: Experiences in 2009-2011

ITU Academy e-learning course	Year	Enrolled participants	Participants that completed the course	Number of countries globally
Next Generation Networks - NGN	2010	77	69	17
NGN services VoIP and IPTV	2011	66	59	20
Next Generation Mobile and Wireless Networks	2011	100	89	33





ITU Academy courses: Experiences in 2012-2014

ITU Academy e-learning course	Year	Enrolled participants	Participants that completed the course	Number of countries globally
Future Internet	2012	101	82	39
Mobile Broadband: LTE/LTE- Advanced, WiMAX and WLAN	2012	189	144	44
Broadband and Next Generation Networks	2013	150	124	45
4G Mobile and Future Internet	2013	149	97	40
NGN, Future Networks and Cloud Computing	2014	130	82	44
Wireless and Mobile Broadband Internet	2014	215	131	50



ITU Academy e-learning courses:



Experiences in period 2014-2018

ITU Academy e-learning course	Year	Enrolled participants	Participants with certificates	Number of countries
Next Generation Broadband Internet Access	2015	139	86	40
Mobile Broadband	2015	157	77	36
Broadband Internet and Future Networks	2016	123	116	40
4G and Next Generation Mobile Internet	2016	73	65	36
NGN, cloud computing and ultra-broadband	2017	106	86	26
Giga Speed Wireless and Mobile Broadband Internet	2017	64	54	26
Future Broadband Internet Access	2018	100	109	38
Next Generation Mobile Broadband	2018	78	70 EEIT in Skopie" Prof	29





ITU CoEs collaboration: E-learning based on face-to-face training

 ITU face-to-face training at NIT in Warsaw is video recorded and after the post-production it is used for ITU e-learning course on the ITU Academy.

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Key strategy for success of ITU CoE: Increase and maintain the appeal for trainings offered via the ITU Academy

- Main approach which brings success is:
 - □ To **continue the successful** programmes
 - □ To use **multiple delivery channels**: e-learning, face-to-face, blended
 - To use ITU Academy platform as a medium for capacity-building of managers and engineers, but also other with inter-disciplinary interests in telecommunications/ICT areas.
- To create and deliver well structured and well designed courses.
- To use already proven successful practices (where participants are satisfied) and to provide consistency in the courses delivery
 - Participants that are satisfied by a given course will join some of next ITU courses, and vice-versa.





Key strategy for success of ITU CoE: Creating excellent e-learning practices

- Best e-learning practices are created by evolution of courses and the e-learning process by:
 - □ Finding the most relevant **subject** areas/sub-areas
 - □ Preparing quality training **materials** in a timely manner
 - Structuring of courses and alignments to learning objectives
 - □ Providing **professional** and encouraging work
 - □ Improving the course **organization**
 - Setting a course scheme that fits participants needs and creates high user experience
 - □ **Focusing on students** (i.e., course participants) and what they need
 - □ Having efficient coordination before, during and after the course







Key strategy for success of ITU CoE: Marketing of the ITU CoE courses

- **Course marketing** can be based on several **methods**:
 - Official information sent from ITU to focal points in member states
 - This is good, but not enough to inform all interested parties
 - Email marketing is the fundamental mean, sending information to interested parties
 - Having in mind potential interest of the contacts
 - Web-based marketing for ITU elearning courses
 - Information on ITU Academy web site attracts students globally, since elearning courses are open (and should be open) to all interested parities
 - Information about the course on other web sites (e.g., web sites of the institution which holds the training)
 - Other types of marketing
 - Marketing can be also provided via brochures, social networks, etc.





Key strategy for success of ITU CoE: Operational business plan the ITU CoE courses

- The CoE courses are self-sustainable:
 - All revenues comes from the collected course fees.
- The **operational business plan** for CoE courses are based on:
 - □ 150 USD/participant for ITU CoE elearning course
 - □ 500 USD/participant for ITU CoE face-to-face course
 - The course fees are based on revenue split 20:80 between ITU and CoE (based on practices in previous ITU CoE cycle)
 - Revenues are collected by the ITU, because ITU is the globally trusted party for all course participants, and 80% of the collected fees are transferred to the CoE after the course.
 - □ ITU Academy platform has established tools for:
 - Online payments (with credit cards),
 - Offline payments (with automatic invoicing).







Who needs to do what for the ITU CoE course success?

- ITU and Academia (Professors/Instructors/Experts) need:
 - To provide excellence of the training (including organization, creation, coordination, delivery)
 - To provide diversity of ITU Academy trainings
 - For capacity building of all ages, with focus to ICT professionals
 - To deliver information about a given ITU course to different parties (that is the course marketing)
 - To complement university level education on long terms
 - This is crucial for the success.
- ITU Academy as a single web-based platform needs:
 - To maintain high reliability (e.g., administrators' work)
 - To continue with the online and offline (with invoices) payments for course enrolments
 - □ To continue all **different tools** for courses delivery.







Summary

- ITU CoE at FEEIT in Skopje aims to continue further its successful delivery of ITU training courses provided over past 10 years (2009-2018) in two consecutive cycles, 2009-2014 and 2015-2018.
- It has successfully delivered many e-learning courses in the broadband access priority area via the ITU's platform ITU Academy.
 - The ITU Academy is an online self-learning e-learning platform, to be used for all ITU trainings.
- In 2019-2022 cycle of ITU CoE activities FEEIT has been selected for the priority area of "Wireless and Fixed Broadband Access".
- The distance learning courses held by the ITU CoE at FEEIT have proven to be self-sustainable and very interesting for the targeted audience worldwide, hence ITU CoE at FEEIT believes that it is able to continue such practice in 2019-2022 cycle of CoE activities.





Thank you!