

Information and communication technologies (ICT)

## **Balkan-Mediterranean Centre** for Entrepreneurship and innovation

Basic business skills for the digital era

**IT Fundamentals** 

Frontend web development

Backend web development

Mobile Application

Development

Business Intelligence and Big Data



basic skills, like giving effective presentations using PowerPoint and gathering and processing business data using Excel. Moreover, it explores marketing decisions that can be supported with digital aims, including social media outlets. Finally, key concepts of cloud computing and virtualization are presented, and core skills are acquired about hosting business services on public clouds like Amazon AWS and Microsoft Azure.

skills that allow advanced usage of usage of the Unix Shell, distributed version control with Git and bash programming. By acquiring these skills, the learner will be able to automate tasks and keep full history of important files and documents. Furthermore, this module introduces the popular programming language Python. Finally, core topics of database technologies and issuing SQL commands to define and manipulate data.

building the frontend of modern web applications. Basic skills acquired will be HTML, CSS and JavaScript. Moreover, specific libraries framework (e.g. Bootstrap, Materialize CSS. ¡Query, AngularJS) will be presented with the focus being on building sample applications from scratch. Finally, static site generators for the quick and easy generation of simple sites will be presented.

The module covers the backend side of building modern web applications including topics like Restful APIs.

Introduction to Web backend development

PHP programming Language

PHP and Relational DBs

NoSQL DB and DB caching

PHP Frameworks and CMS

programming and app series, partly based on introductory programming languages course. Whether you're interested to learn making apps for fun, would like to start app development as a sidejob, or even want to pick up software development as a career, this course will give you the background and practice you need to get started and take off on your own.

Business Intelligence and handling of big volumes of data that modern access to. It introduces the two basic categories of machine learning algorithm, libraries that learning algorithms (e.g. scikit-learn, TensorFlow) and recent advancements in machine learning like deep learning. It introduces recent technologies for Big Data like Apache Hadoop, and NoSQL databases by providing concrete examples of using mapreduce processing, and business intelligence over big data.











