

COURSE CATALOG

Software Engineering

Big Data and Data Science

IT Infrastructure

Software Engineering

System analysis and design

Course code	Course name	Duration (days)
BA/PRCT	Business analysis in practice	5
J/OOP	Programming and object-oriented programming – the example of Java language	3

Internet applications

Web applications – design and implementation

Course code	Course name	Duration (days)
CQ	Adobe CQ for a Java programmer	5
JSF2	Advanced mechanisms of user interface development in the Java Server Faces technology	3
ANGULAR	AngularJS Framework	4
HTML5/BB	Development of Web applications on the basis of HTML5, JavaScript, jQuery and Backbone	5
LARAVEL	Development of Web applications using the Laravel framework	3
HTML5/ANG	Effective development of Web applications using AngularJS, HTML5 and JavaScript	5
EXTJS	ExtJS 4 – Effective development of Web applications	3
EEMI	Legacy Java Enterprise applications to JEE7 migration – best practices	3
SPRING/JSF	Modern Web applications based on Spring Framework, JSF, JPA and AJAX	5
SPRING/WKT	Modern Web applications based on Spring, Hibernate, Apache Wicket and Jetty	5
JEE7/JSF	Modern web applications built with JEE7 (JSF2.2, EJB3.2, JPA2.1, CDI1.1, AJAX)	5
JEE7/ANG	Modern web applications built with JEE7, AngularJS and HTML5	5
SF2	Web Development with Symphony2	3
WICKET	Wicket	2

GIS and Web mapping

Course code	Course name	Duration (days)
OLAYERS	Development of dynamic maps on Web pages using OpenLayers	2
WEBGIS	Development of WebGIS applications on the basis of PostGIS, Geoserver, OpenLayers and QGIS	3
GEOEXT	GeoExt – creating interactive maps on Web pages	2
QGIS	Introduction to GIS – the QGIS platform example	2
LEAFLET	Leaflet – creating interactive maps on Web pages	2
SPATIAL	Management of spatial data in Oracle Spatial	3
OL3	OpenLayers 3 – creating interactive maps on Web pages	2
POSTGIS	PostGIS as a platform for spatial data storage, processing and analysis	3
GEOSEV	Presentation and sharing of spatial data using GeoServer	3

Programming languages

C/C++

Course code	Course name	Duration (days)
C/OOBP	Best practices of object-oriented programming in C++ language	3

Java

Course code	Course name	Duration (days)
J/BP8	Best practices of object-oriented programming in Java 8	3
J/KRYPT	Java platform-based cryptography in practice	3
J/MT	Programming of multithreaded applications in Java	5
SPRING	Spring Framework	2

.NET

Course code	Course name	Duration (days)
NET/DBG	Advanced debugging in .NET	3

PHP

Course code	Course name	Duration (days)
LARAVEL	Development of Web applications using the Laravel framework	3
SF2	Web Development with Symfony2	3

R

Course code	Course name	Duration (days)
R/F	Basic programming in R	2
R/ANA	Introduction to data analysis in R	1

Scala

Course code	Course name	Duration (days)
SCALA/J	Object-functional programming in Scala language for Java programmers	3

System programming and embedded systems

Course code	Course name	Duration (days)
PS/LINUX	System programming in Linux	5
PS/WIN	System programming in Windows	5

SOA/EAI

Courses in Service Oriented Architecture and related areas

Course code	Course name	Duration (days)
AWS	Architecture of cloud-based systems illustrated by Amazon Web Services	2
ESB/M	Enterprise Service Bus – example of Mule ESB	3
ESB/OSB	Enterprise Service Bus – the example of Oracle Service Bus	3
ESB/F	Enterprise Service Bus illustrated by JBoss Fuse and Fabric8	3
ESB/SMIX	Enterprise Service Bus: Apache ServiceMix or JBoss ESB	3
SPRSEC	Implementation of security mechanisms in Web applications using Spring Security, Apache Shiro, JBoss Picketlink	3
GUVNOR	Modeling and management of business rules on the basis of Drools Guvnor for analysts	3
BPEL	Practical aspects of WS-BPEL	2
J/REST	RESTful web services in Java	2

Mobile technologies

Course code	Course name	Duration (days)
PHGAP	Development of inter-platform mobile applications using PhoneGap and Angular JS	3
IOS	iOS platform programming	5
IOS/START	iOS programming – a quick start	3
IOS/SWIFT	Programming in Swift language on the iOS platform	5
WP/START	Windows Phone programming – a quick start	3

Software testing

Course code	Course name	Duration (days)
AGILETEST	Agile Testing	3

ISTQB

Course code	Course name	Duration (days)
ISTQB/AT	ISTQB Agile Tester	2

Software testing - tools

Course code	Course name	Duration (days)
SOAPUI/F	Automated network service tests using SoapUI	2
SELENIUM	Automation of functional tests of Web applications using Selenium and Robot Framework	3
JMETER	Performance tests for Web applications using Apache JMeter	3
SEC/WEB	Security testing of modern Web applications	5
SOAPUI/ADV	SoapUI – advanced issues	1

Best practices in programming

Course code	Course name	Duration (days)
PROD	A product-based approach to software development	3
AGILE/DEV	Agile Software Development	2
CHEF	Continuous Delivery using Chef	2
CI/JENKINS	Continuous Integration using a Jenkins server	2
CDDD	Designing of complex domain models using the Domain Driven Design	3
DEVOPS	DevOps – Agile Application Delivery	3
J/DDD	Domain Driven Design (DDD) in the process of application development illustrated by the example of JEE solutions	3

IMPMAP	Effective product development with Impact Mapping	2
J/TOOLS	Essential development tools	3
GRADLE/START	Gradle – quick start	2
J/KRYPT	Java platform-based cryptography in practice	3
SBE	Specification by Example	2
J/TEST	Testing of Java and Java Enterprise technology based applications	2
GIT	Version control with Git	2
LEGACY	Working with Legacy Code	3
REFAKT	Writing better code by using refactoring techniques and design patterns	3

Providing high efficiency

Course code	Course name	Duration (days)
DB-OPT	Development of effective database applications based on JEE and selected database system (PostgreSQL, MySQL, Oracle, DB/2, MSSQL)	3
DIST	Ensuring high availability of Web applications on the basis of Spring, Terracotta, HA-JDBC and open database systems	2

Big Data and Data Science

Course code	Course name	Duration (days)
HADOOP/ANA	Big Data for analysts	2
HADOOP/P	Big Data for developers	3
SPARK	Big Data processing with Apache Spark	2
BIGDATA/ARCH	Big Data system design for architects	2
PYTHON/BP	Data analysis in Python - best practices	2
WEKA	Data Mining with Weka (Pentaho Data Mining)	4
DL	Deep Learning	5
HADOOP	Designing Big Data solutions using Apache Hadoop & Family	5
PENTAHO/DW	DWH solutions design using Pentaho Business Intelligence	5
PENTAHO/ETL	ETL solutions design using the Pentaho Data Integration (PDI)	3
PYTHON/ML	Foundations of Machine Learning in Python	3
ANA/TXT	Foundations of Text Mining and Natural Language Processing	3
HADOOP/ADM	Hadoop Administration	3
BIGDATA/F	Introduction to Big Data technology	1
PYTHON/ANA	Introduction to data analysis in Python	3
BIGDATA/STR	Stream Data Processing	2

IT Infrastructure

Databases

Course code	Course name	Duration (days)
ALFRESCO	Enterprise Content Management Systems on the example of Alfresco	4
CASSANDRA	NoSQL databases - Cassandra	3
HBASE	NoSQL databases - HBase	2
REDIS	NoSQL databases - Redis	3

Application servers

Course code	Course name	Duration (days)
JBoss/ADM	JBoss application server administration	3
TOMCAT/ADM	Tomcat server administration	2

Networks and security

Course code	Course name	Duration (days)
J/CERT	Secure Java code in practice - on the basis of CERT and Oracle guidelines	3
PKI	The Public Key Infrastructure (PKI)	3