

AGENDA

- 1 Master's Program Team Introduction
- 2 **Program Curriculum**
- 3 **Digital Platforms**
- 4 Customer Support
- **5 Project-based Training**
- 6 **Q&A**



Master's Program Team Introduction

MASTER'S PROGRAM TEAM

Head of the Program Natalia Ostashko



Project-based Training Manager Dmytro Shlepakov



Group Manager Krystyna Popkova



Support Specialist
Darya Ruban



Administrative Specialists
Tetiana Koshelenko Daryna Pihareva





^{*} if any questions: orgmastersprogramkz@epam.com

MASTER'S PROGRAM MISSION

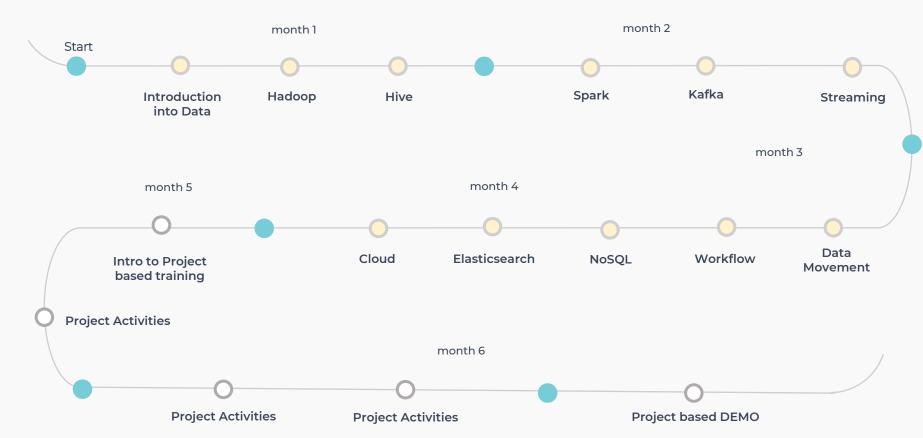
Our **mission** is to equip you with advanced knowledge combined with hands on skills taught by experts who have solved complex real-world problems for clients



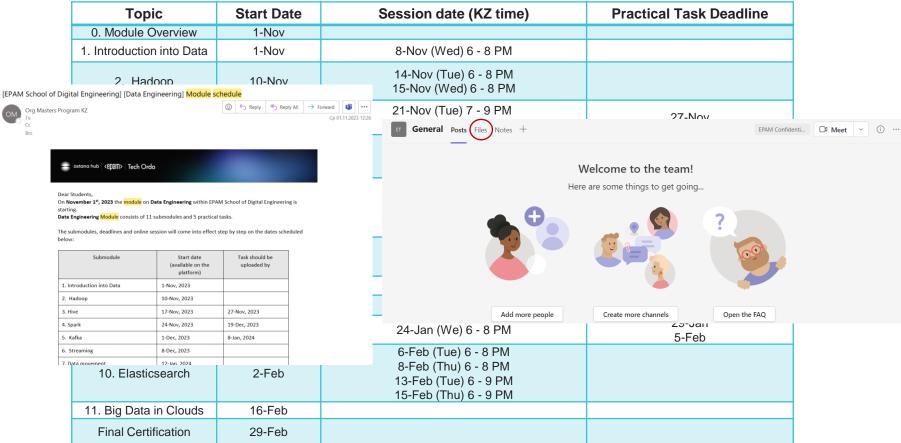
Program Curriculum

PROGRAM TIMELINE

Data Engineering (Big Data)



BIG DATA SCHEDULE





BIG DATA MODULE

The Big Data course includes 11 modules designed to provide robust information about data engineering, machine learning and cloud computing.



Introduction into Data

- You will be introduced to the world of big data
- Get acquainted with the data engineering workflow and data product stages.
- Overview of the latest trends in data engineering and key big data tools and applications.



Hadoop

- Will introduce you to the world of Hadoop
- You will overview its ecosystem, get acquainted with the main features, and figure out its possibilities.



Hive

- You will make a deep dive into Hive features
- Will introduce you to User Defined Functions
- You will get acquainted with Hive statistics
- You will have a detailed look at Hive optimization techniques



Spark

- You will familiarize with the basics of Spark, key components, architecture, and various applications
- You will get knowledge on Catalyst
- You will use Spark Streaming in real-time analysis



Kafka

- You will get all the information about Apache Kafka, its capabilities, advantages and drawbacks.
- Will also explore Kafka architecture, components and configuration
- You will get acquainted with Kafka Connect framework and learn how to optimize Kafka

EPAM Proprietary & Confidential.



BIG DATA MODULE



Streaming

- the data streaming stream processing concepts
- You will become familiar with more indepth aspects of streaming with Spark and Kafka



Data Movement



Workflow



NoSQL



Flasticsearch



Cloud

- You will understand You will become familiar with Flowapproaches, use-cases Based of streaming data and
 - You will explore about Apache NiFi framework
 - You will get acquainted with StreamSets Data Collector
- You will become familiar with Workflow tools to manage Big Data Workflows
- You will discover NoSQL databases, its advantages, disadvantages and types
- You will explore MongoDB, HBase, and Cassandra, and how to use them
- You will be introduced to Elasticsearch. specifically designed to solve a common problem in software development
- You will learn ways to extract data on a much larger scale with better methods to process and analyze this data.
- You will learn how to merge big data with cloud computing



LEARNING APPROACH AND TOOLS

BLENDED APPROACH



SELF-STUDY



PRACTICAL TASKS & QUIZZES

Platform



ONLINE **SESSIONS**



COMMUNICATION WITH TRAINERS

Platform

Teams

Teams



COMPLETION CRITERIA

What should be done to complete the program successfully?

- The course includes the following graded activities:
 - Practical tasks
 - Quizzes
- Each practical task can bring 100 points max.
 Each quiz question counts as 1 point.
- The points gained by a student for practical tasks and quizzes through the course sum up into the resulting score. The maximum possible score is equivalent to 100%.

The final grade for the course is calculated in percent as follows:

 $\frac{\text{total score gained by student through the course}}{\text{maximum possible score}} \times 100\%$

Success criteria for the program: final grade is no less than 70%

* The access to final Certification is granted under condition of attendance 70% of online sessions.



CERTIFICATE

After successful completion of the program students receive a certificate.

Certificates include:

- information about courses
- ECTS (hours)
- learning outcomes
- student's grade



eLearn Digital Platform

EPAM EMAIL

EPAM user account credentials





≪ Reply All

→ Forward

Thu 14/09/2023 09:20

We are glad to have you as part of EPAM! Your corporate user account has been created for you to provide access to EPAM resources. Please follow the steps below to complete the account setup.

IMPORTANT:

Before you start setting up your EPAM account, please make sure that your mobile device supports the installation
of the Microsoft Authenticator app.

Minimum system requirements:

- iOS version 12.0 and above.
- Android version 6.0 and above, with support of Google services (most of Huawei mobile devices are not supported).



ELEARN DIGITAL PLATFORM

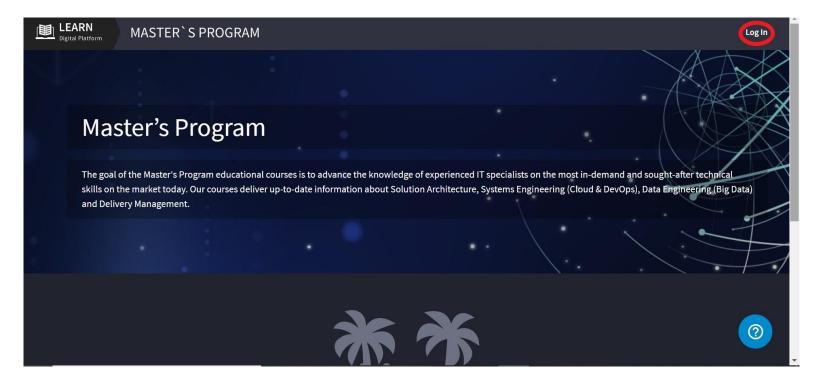
Please visit the page:

https://university.epam.com/



LOG IN TO THE LEARNING PLATFORM STEP 1

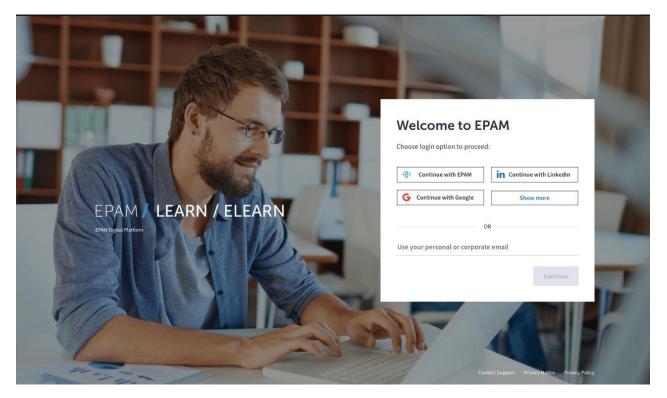
CLICK LOG IN ICON IN THE UPPER RIGHT CORNER





LOGIN TO THE LEARNING PLATFORM STEP 2

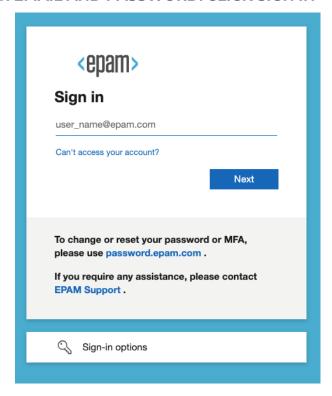
USE YOUR EPAM EMAIL

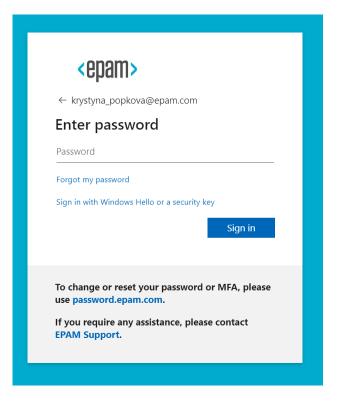




LOGIN TO THE LEARNING PLATFORM STEP 3

ENTER YOUR EMAIL AND PASSWORD. CLICK SIGN IN

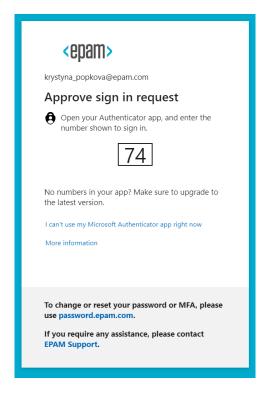






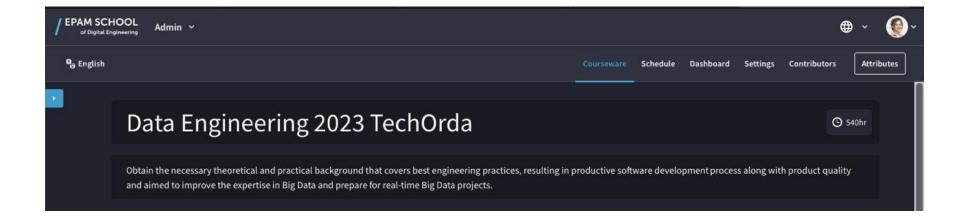
LOGIN TO THE LEARNING PLATFORM STEP 4

OPEN AUTHENTICATOR APP ON YOUR PHONE AND ENTER THE NUMBER.



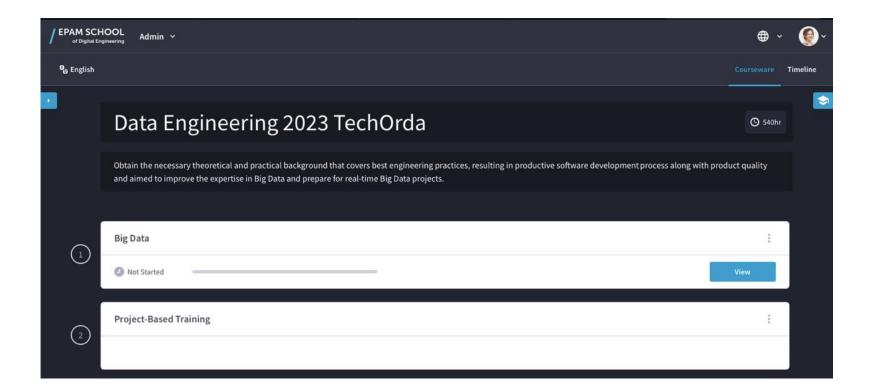


PLATFORM



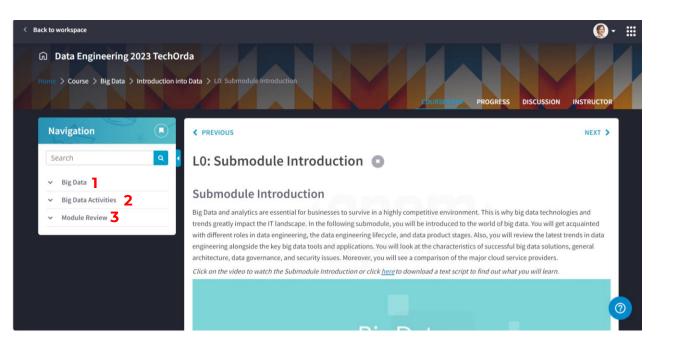


LEARNING PATH





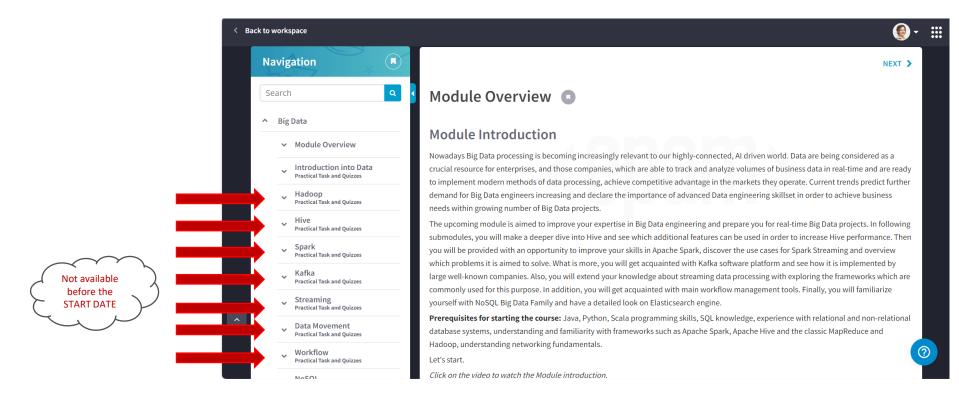
COURSE NAVIGATION



- 1. ALL THE EDUCATIONAL MATERIALS
- 2. THE PRESENTATIONS AND RECORDINGS OF THE SESSIONS
- 3. FINAL ASSESSMENT

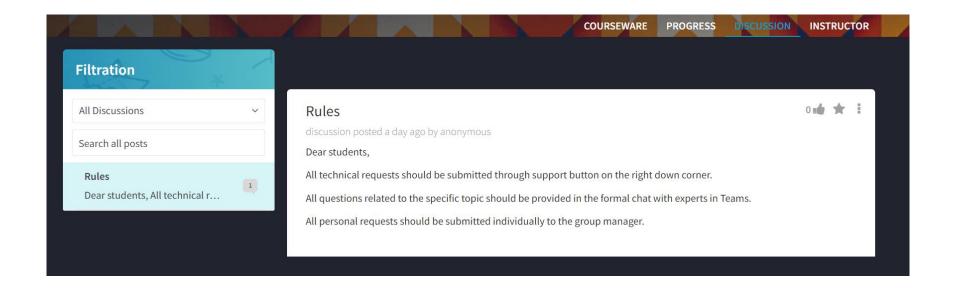


COURSE NAVIGATION



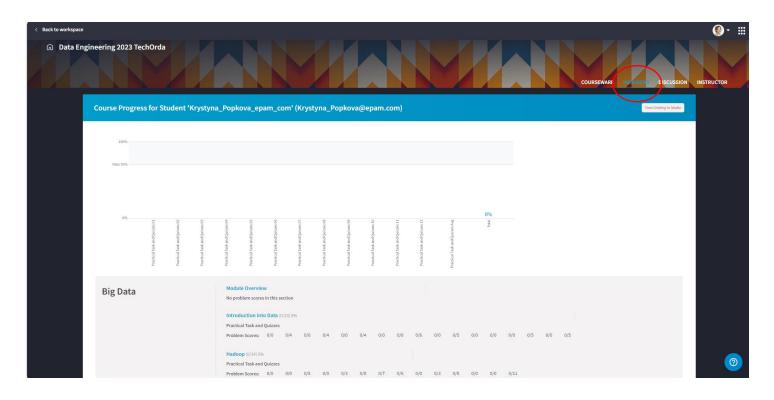


DISCUSSION FORUM





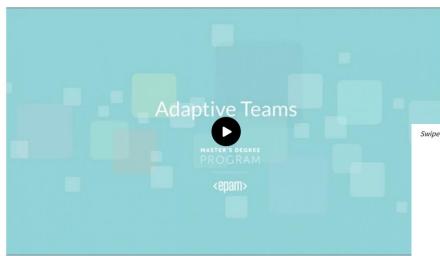
PROGRESS



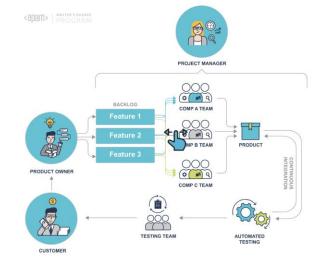


PLATFORM INTERACTIONS

Watch the video to learn about team-oriented adaptable organizations. Alternatively, you may click here to download a text.



Swipe the illustration to see differences between feature and component teams.

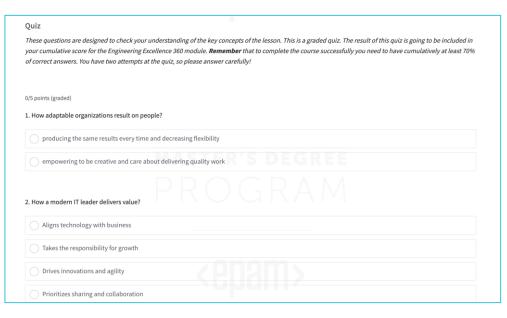




PLATFORM INTERACTIONS









Onboarding Digital Platform

ONBOARDING DIGITAL PLATFORM

Please visit the page:

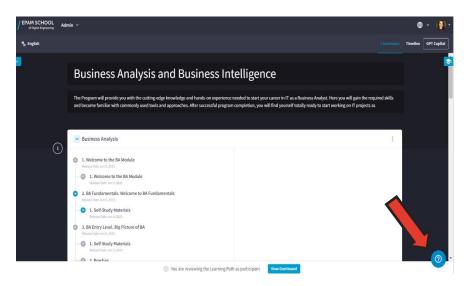
https://onboarding.epam.com/

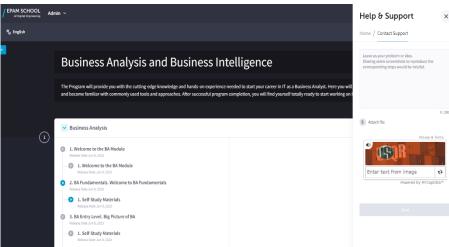
The modules within the **Onboarding** portal should be done until **November 5**th



Customer Support

CUSTOMER SUPPORT

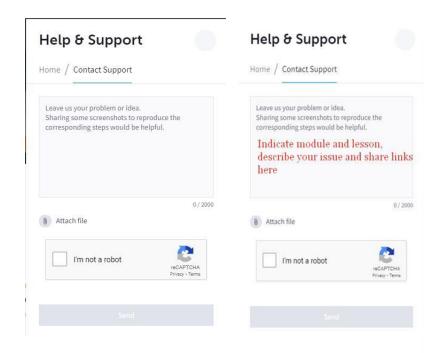




Important! Please keep the request number until it is resolved.



SUPPORT REQUEST



"Help & Support" pop-up Describe your issue or idea. opens. Share links.



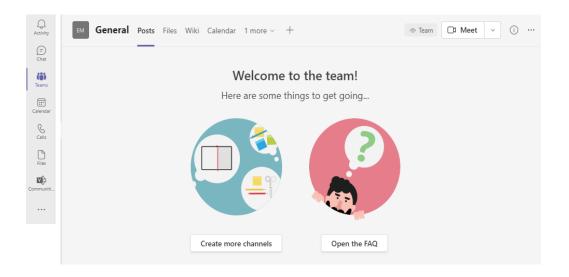
Attach screenshots to replay related steps



Click the "Send" button to submit your request.



COMMUNICATION WITHIN THE PROGRAM



1. Emails from

orgmastersprogramkz@epam.com:

- General info
- Invitations to the online sessions
- Certificate of transfer and acceptance of services

2. MS Teams Group:

EPAM Tech Orda Big Data 2023

- Posts
- Reminders
- · News on the program
- Communication with trainers
- Feedback requests
- Links to Recordings/ Presentations
- Informal chat
- Online sessions
- Files: Folder shared materials



PROJECT-BASED TRAINING

PROJECT-BASED TRAINING



GOAL

Familiarize participants with the real industry standards of IT projects in the software development enterprise, gain valuable practical experience and apply theoretical knowledge in real life.



COURSE MODEL

In the scope of the Project based training students will participate in the internal and educational EPAM projects as Data engineers.



DURATION

9 weeks



RESULT

As a result, students will be able to gain production experience and add it to their portfolio



PROJECT-BASED TRAINING

- Project work in EPAM for 9 weeks
- Working with quasi-Production data mimicking real EPAM Data Engineering projects
- Workload is spread between synchronous teamwork, mentoring sessions, and self-study



PROJECT-BASED TRAINING PHASES

Phase 1: Introduction (week 1)

Project teams' formation Project onboarding

Phase 2: Project work (weeks 2-8)

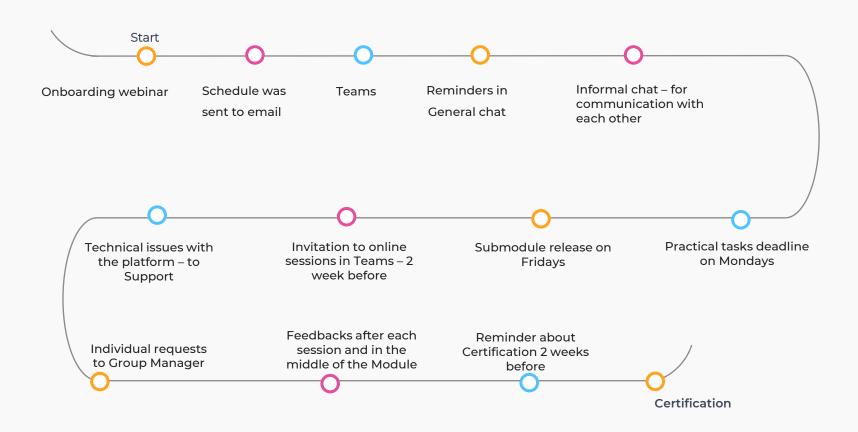
Team work on projects supporting by EPAM mentors

Phase 3: Assessment (week 9)

Presentation and Code assessment. Final interview mentors. Demo



STUDYING FLOW SUMMARY



Q & A

Thank you!



Let's get to know each other