

Okruženje za učenje, suradnja
s obitelji i zajednicom u
nastavi tehničke kulture u
izvanrednim okolnostima

Oracle Academy resursi – primjeri korištenja

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- Uvod
- OA Member Hub
- OA računalni oblak
- Stručno usavršavanje nastavnika
- Greenfoot, Finch Robot 2.0 i MicroBit
- Pitanja



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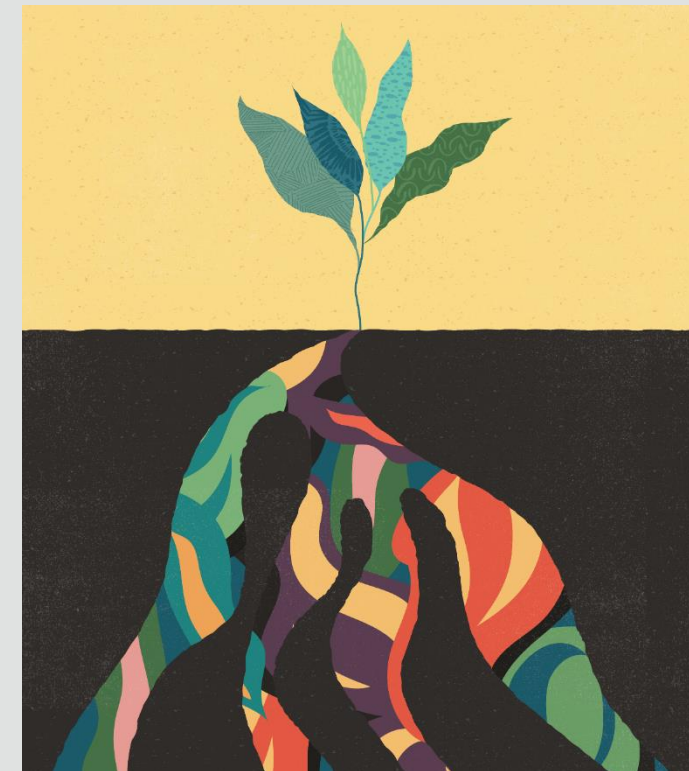
ORACLE
Academy

Veleučilište u Šibeniku – prodekan za poslovanje,
Erasmus+ koordinator, profesor ...

<https://www.linkedin.com/in/frane-urem-09765926/>

Oracle – Oracle Academy trener

<https://academy.oracle.com/en/newsletters/april-2018-full.html#spotlight1>



Uvod

Moderna nastava

- Analiza i usvajanje primjera dobre prakse
- Stručno osposobljavanje nastavnika
- Potpore (projektno financiranje) za razvoj nastave
- Osiguranje interaktivnog nastavnog okruženja
- Dobivanje povratnih informacija o održanoj nastavi od strane učenika
- Osiguranje kvalitete (redovite revizije i unaprjeđenja nastavnih programa)

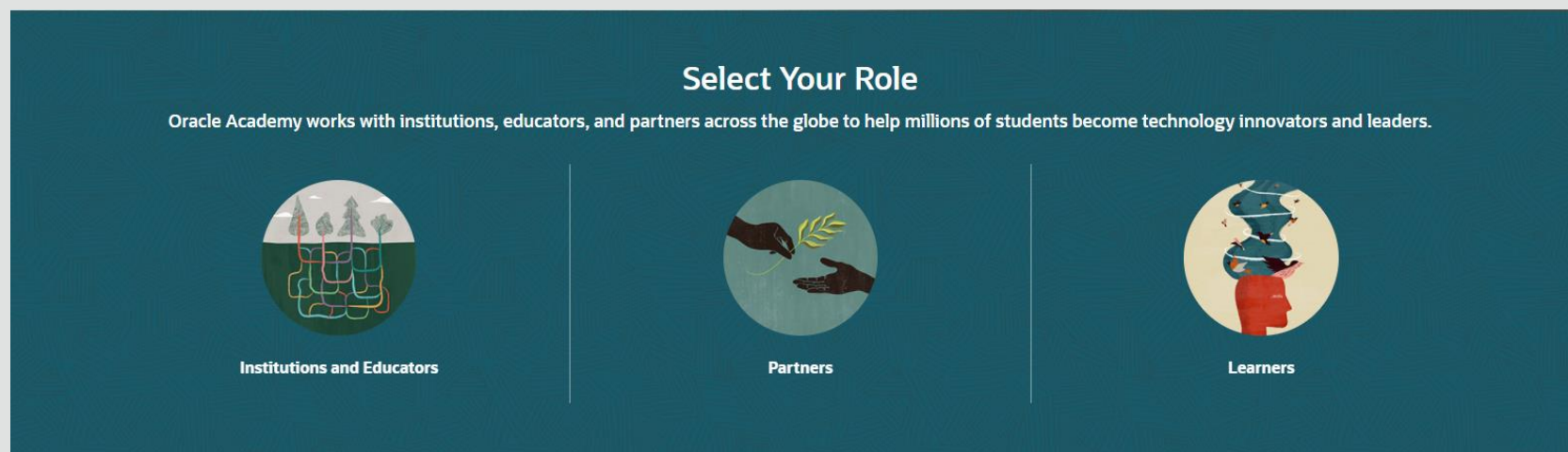
Oracle Academy

- Globalni program potpore tvrtke Oracle u području nastave iz područja IKT
- U kontekstu nastave iz tehničke kulture moguće je pronaći poveznice s međupredmetnom temom uporabe IKT (sve Oracle programske licence i tehnička podrška su besplatne za članove programa)
- Dodatno je osiguran besplatan pristup Oracle računalnom oblaku
- Dostupan je niz zanimljivih kurikuluma za izvannastavne aktivnosti i radionice
- Projektne potpore (npr. pridružena partnerstva kod prijave EU projekata)
- Stručno osposobljavanje nastavnika

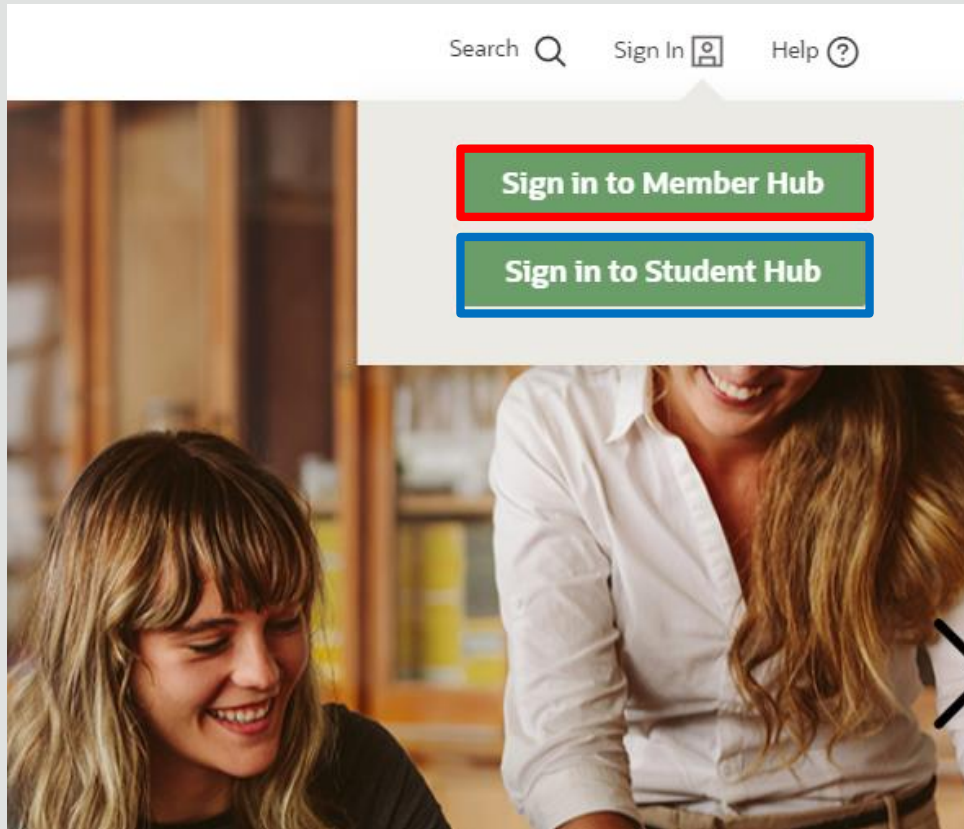
OA Member Hub

OA Member Hub

- <https://academy.oracle.com>
- Preduvjeti za pristup:
 - članstvo ustanove (škole) u programu
 - otvoren Oracle SSO korisnički račun

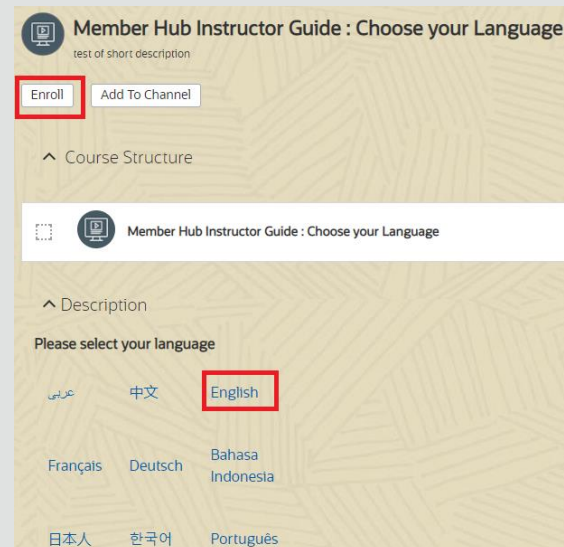
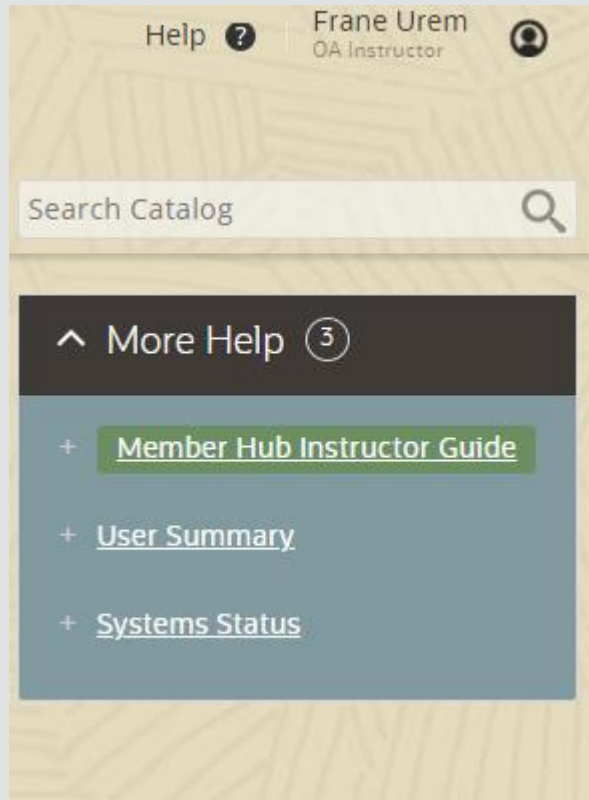


OA Member Hub



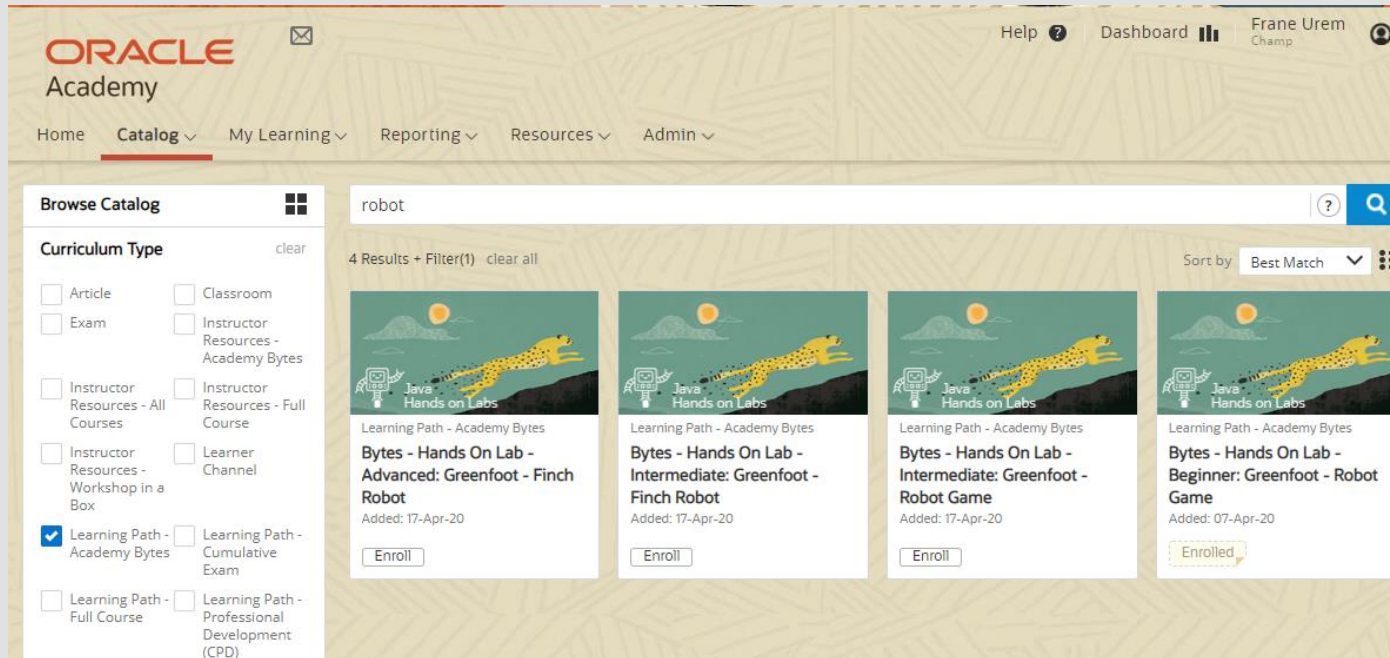
- Potpuno novi nastavni resurs aktiviran u sklopu programa početkom Covid 19 krize (uz Oracle Academy Cloud)
- Dva načina prijave :
 - **nastavnici**
 - **učenici**
- Nastavnici izrađuju korisničke račune za učenike

OA Member Hub – detaljne upute




- Nakon uspješne prijave odabrati poveznicu Member Hub Instructor Guide
- Aktivirati poveznicu Enroll
- U slijedećem koraku odabrati jezik (English)

Kako pronaći nastavne materijale ?




- Odabrati izbornik Catalog / Browse
- Pretraživanje s ključnim riječima
- Filtiranje po kategorijama

Pristup nastavnim materijalima

 **Resource: HUB - Instructor Guide - English**
Date Enrolled: 27-May-20 Next Due Date: 05-Oct-21

[Unenroll](#) [Add To Channel](#)

^ Getting Started - Guide
All Mandatory (1)

 **Resource: HUB - Instructor Guide - Getting Started**
Not Attempted Due: 05-Oct-21 Added: 05-Oct-20 [View](#)

^ Getting Started - Videos
All Mandatory (3)

Progress indicators: 21%, 0%, 67%

- Pregledati nastavne cjeline aktiviranjem poveznice View
- Nastavni materijali se otvaraju aktiviranjem poveznice Play, moguće je i preuzimanje u PDF formatu

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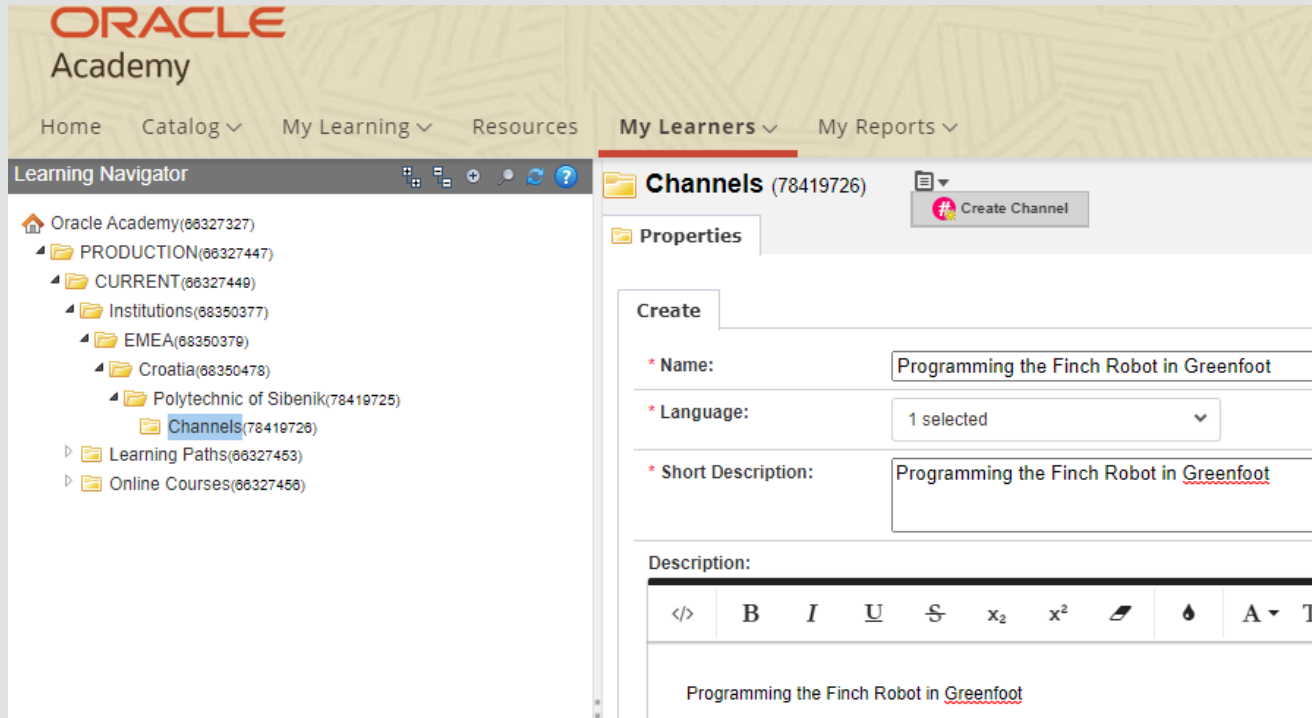
1 / 17 | 100% + |  

ORACLE
Academy academy.oracle.com

Getting Started in the Member Hub - Oracle Academy Member Hub Instructor Guide

Contents	Page
1. Introduction	2
2. How to Find Curriculum (Learning Paths)	3
3. How to Create Channels	6
4. Add Learning Path (Curriculum) to a Channel.....	7
5. Create and Enroll New Learners in a Channel	13

Kako stvoriti predmet (Channel)?



- Odabrati izbornik My Learners / Learning navigator
- Odabrati Create Channel

Izrada korisničkih računa za učenike

The screenshot shows the 'My Learners' interface with the 'Enrollments' tab selected. The interface includes a navigation bar with 'My Learners' and 'My Reports' dropdowns. Below this is a tabbed menu with 'View', 'Edit', 'Targeting', 'Widgets', 'Enrollments', 'Recommendations', and 'Reference Materials'. The 'Enrollments' tab is active, displaying the following information: Identifier: 141374532, Enrolled / Waitlist / Pending: 5 / - / 0, Learning Track Only: No, and Language: English. There are two buttons: '+ Add Enrollments' and '+ Create Users And Enroll'. Below these are search filters: a 'User' text input, an 'Enrollment Type' dropdown set to 'Enrolled', an 'Include Expired Users' checkbox, and 'Search' and 'Clear' buttons. At the bottom, there are 'Enrollment Status' (dropdown set to 'All'), 'Organization' (text input with a search icon), and 'User Group' (text input with a search icon).

- Odabrati izbornik My Learners / Learning navigator
- Odabrati predmet (Channel)
- Odabrati Enrollments
- Odabrati Create Users And Enroll

Dodavanje vlastitih nastavnih materijala


Import Content To Channel

1

Choose Upload Type


2

Details



Upload File

- To import a course package, it needs to be zipped up (.zip) and needs to be either an MP4, SCORM, AICC or xAPI course package.
- A SCORM package needs to have a imsmanifest.xml file in the root folder which describes the course and its content.
- An xAPI package needs to have a tincan.xml file in the root folder.
- An AICC package needs to be zipped up with the AICC descriptor files (AU, CRS, CST, & DES).
- A cmi5 package must include a 'cmi5.xml' file which includes a list of assignable units (AU).
- A video file should be MP4 and unzipped. MP4s will use a progressive download player.

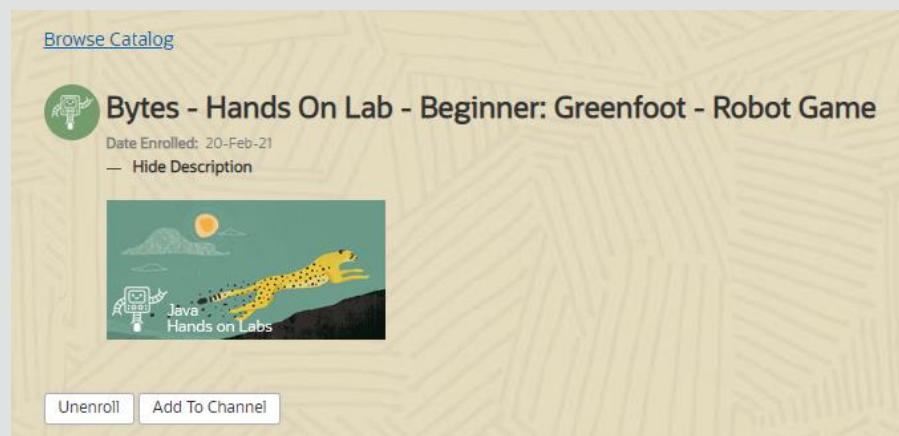


Add External URL

An External URL is a link to any web page or third party content.

- Odabrati izbornik My Learners / Learning navigator
- Odabrati predmet (Channel)
- Odabrati Import Content To Channel

Dodavanje OA nastavnih materijala (Learning Path)



- Odabrati izbornik Catalog / Browse
- Pronaći nastavni materijal
- Add to Channel
- Odabrati predmet (Channel) i potvrditi sa Submit

Praćenje napretka učenika

[Reports](#)

Learner Channel Status Report (65280)

Lists all channel learners within your institution and their status in the objects in that channel.

1. Locate your Channel from Channel Name list-of-values.
2. Select Run button.

Report Format:

* Channel Name:

* Mandatory fields

- Odabrati izbornik My Reports / naredba My Reports
- Odabrati Learner Channel Status Report
- Zadati brojčanu oznaku predmeta
- Otvoriti izvješće sa naredbom Run

Ispitni materijali (kvizevi, testovi ...)

y?in_sessionid=15J0295591889129&classroom_id=72445410&rco_id=72445409

Test: PL/SQL Section 1 Quiz

Answer the question(s) on this page, and click Next to go to the next test page. Click Summary to see which questions you need to answer before submitting the test. Click Finish Test if you are ready to submit your test.

Section 1

(Answer all questions in this section)

1. Which of the following is NOT a PL/SQL programming environment?

☐ Mark for Review

(1) Points

- ☐ Oracle jDeveloper
- ☐ SQL Workshop in Application Express
- ☐ gSQL*Plus
- ☐ SQL*Plus

2. In which part of the PL/SQL block are declarations of variables defined?

☐ Mark for Review

(1) Points

- ☐ Executable
- ☐ Exception
- ☐ Declarative
- ☐ Definition

- OA kurikulumi uključuju kvizeve i ispite znanja
- Očekuje se implementacija navedene funkcionalnosti i za kurikulare koje samostalno osmišljavaju nastavnici

OA računalni oblak (OA Cloud)

Izazovi poučavanja u učionici

- Ulaganja u opremu i softver
- Održavanje
- Sigurnost
- Udaljeni pristup
- Pandemija, potres ...

OA Cloud Program

Primjeri korištenja besplatnih
servisa

Oracle autonomna baza podataka i
Oracle APEX
Linux poslužitelji

+

USD\$300 godišnji kredit
za korištenje servisa koji se plaćaju

academy.oracle.com/cloud

OA Cloud Program trajno besplatni servisi



Autonomne baze podataka

*2 x baza
podataka
(20 GB)*



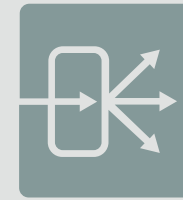
Poslužitelji

*2 x VMs
(1 GB RAM)*



Pohrana podataka

*100 GB Block
10 GB Object
10 GB Archive*



Mrežno sučelje

*10 Mbps LB
10 TB Outbound
Data Transfer*



Nadzor/ Obavješćavanje

*500 Metrics Ingestion
1B Metrics Retrieval
1M Notifications
1K Emails*

Oracle autonomna baza podataka



- **Upute za brzu instalaciju**

Autonomous Database:



- **Primjeri tehnologija**

- APEX web razvojni alat - brzi razvoj web i mobilnih aplikacija
- SQL Developer - razvoj baza podataka, učenje SQL jezika
- SQL Notebooks – strojno učenje
- Automatic REST – baze podataka, Internet stvari

Oracle Compute Virtual Machine



- **Upute za brzu instalaciju**

Oracle Cloud Infrastructure Compute VM:



- **Dostupne detaljne upute za:**

- Instalacija Linux virtualnih strojeva (Oracle Linux, Ubuntu or CentOS)
- Povezivanje s virtualnim strojem uporabom Putty i GitBash klijenata
- Instalacija aplikacijskih servisa (Node.JS, APACHE) i razvojnih okolina (Java, Python, Ruby)

Oracle Cloud Object Storage



- Pohrana podataka u oblaku
- **Detaljnije o Object Storage platformi:**
 - <https://docs.cloud.oracle.com/en-us/iaas/Content/Object/Concepts/objectstorageoverview.htm>

Dodatne tehnologije koje možete isprobati

- **Microsoft Windows Server 2016 Standard**
- **Microsoft SQL 2016 Standard with Windows Server 2016 Standard**
- **Content and Experience Cloud**
- **Digital Assistant** - platforma za implementaciju digitalnog pomoćnika
- **Data Science** – strojno učenje na postojećim podacima
- **Analytics Cloud** – analiza podataka, poslovno izvještavanje ...
- **Oracle Visual Builder Studio** – razvojna okolina za brzi razvoj aplikacija



Završno o OA oblaku

- Institucijsko članstvo u Oracle Academy programu je preduvjet za korištenje prethodno opisanih usluga u računalnom oblaku
- Ne možete sve isprobati odjednom - razmislite što Vam je potrebno, isprobajte za početak trajno besplatne usluge
- Istražite sve što Vas zanima na: <https://docs.oracle.com/en/cloud>
- Pripremite siguran „šalabahter“ za lozinke, čuvajte ključeve za pristup na sigurnom mjestu



Stručno usavršavanje nastavnika



Samoučenje s potporom instruktora (Supported Self Study)

- U provedbi od ožujka 2021. godine
- Mijenja postojeći model nastavničkih treninga
- Nastavnik putem Member Hub sustava prijavljuje stručno usavršavanje, ali uči i polaže ispite sukladno drugim obvezama
- U svakom trenutku može zatražiti pomoć ili savjet instruktora (Zoom ili e-mail konzultacije)
- Razlog 1: U sklopu postojećeg modela treninga zabilježeno je značajno odustajanje (prosječno 60%) jer nastavnici nisu mogli uskladiti svoje obveze s rasporedom predavanja i polaganja ispita
- Razlog 2: OA instruktori ističu problem nedostatka interakcije sa sudionicima u postojećoj online nastavi

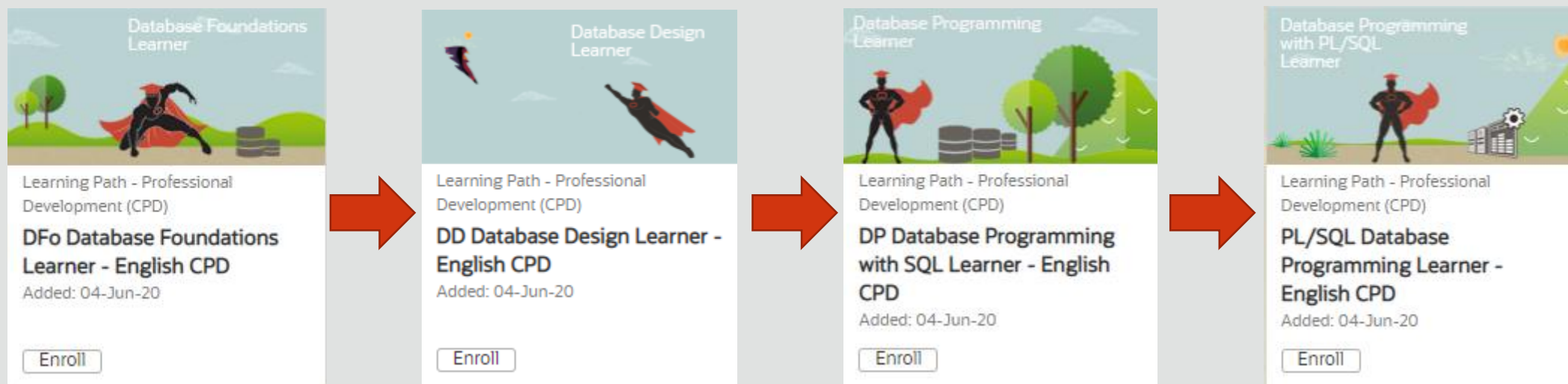
Samoučenje s potporom instruktora (Supported Self Study)

- Programi nastavničkog usavršavanja tzv. Learning Path - Professional Development (CPD)
- Java



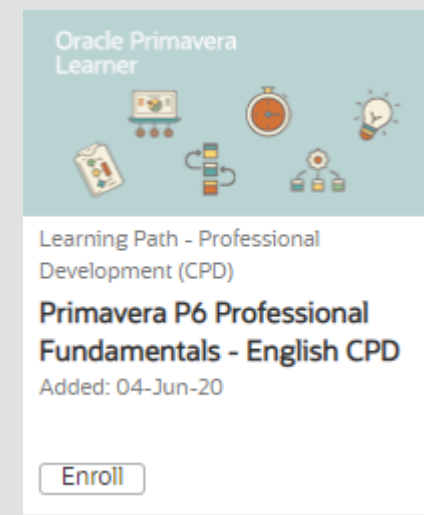
Samoučenje s potporom instruktora (Supported Self Study)

- Programi nastavničkog usavršavanja tzv. Learning Path - Professional Development (CPD)
- Baze podataka



Samoučenje s potporom instruktora (Supported Self Study)

- Programi nastavničkog usavršavanja tzv. Learning Path - Professional Development (CPD)
- Razvoj web i mobilnih aplikacija (APEX), strojno učenje (engl. machine learning), vođenje projekata (Primavera)



Samoučenje s potporom instruktora (Supported Self Study)

- Programi nastavničkog usavršavanja tzv. Learning Path - Professional Development (CPD)
- Projektne radionice (izvanškolske aktivnosti učenika)



Workshops in a Box - Finch Greenfoot

Learning Path - Professional Development (CPD)

WIB Workshop - Programming the Finch Robot in Greenfoot - English CPD

Added: 08-Jun-20

Enroll



Workshops in a Box - Solve it with SQL

Learning Path - Professional Development (CPD)

WIB Workshop - Solve It with SQL - English CPD

Added: 04-Jun-20

Enroll



Workshops in a Box - Finch Java

Learning Path - Professional Development (CPD)

WIB Workshop - Programming the Finch Robot in Java - English CPD

Added: 08-Jun-20

Enroll



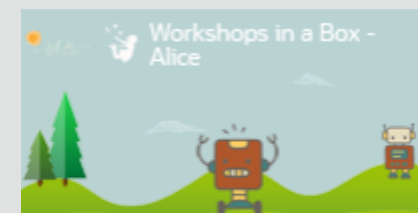
Workshops in a Box - Greenfoot

Learning Path - Professional Development (CPD)

WIB Workshop - Creating Java Programs with Greenfoot - English CPD

Added: 04-Jun-20

Enroll



Workshops in a Box - Alice

Learning Path - Professional Development (CPD)

WIB Workshop - Getting Started with Java Using Alice - English CPD

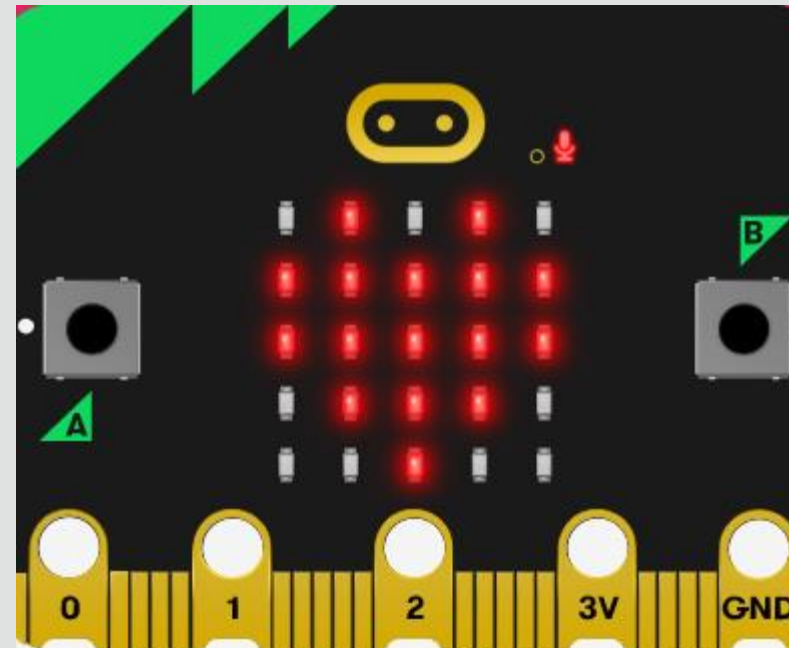
Added: 04-Jun-20

Enroll

Greenfoot, Finch Robot 2.0 i MicroBit

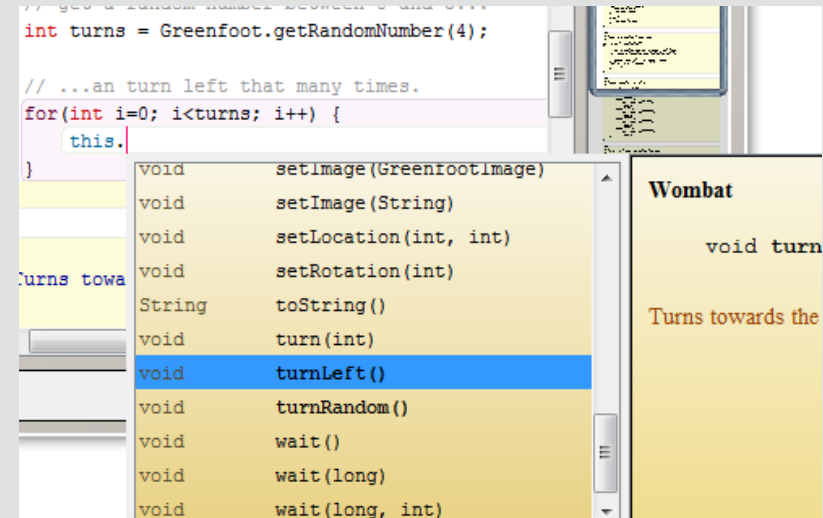
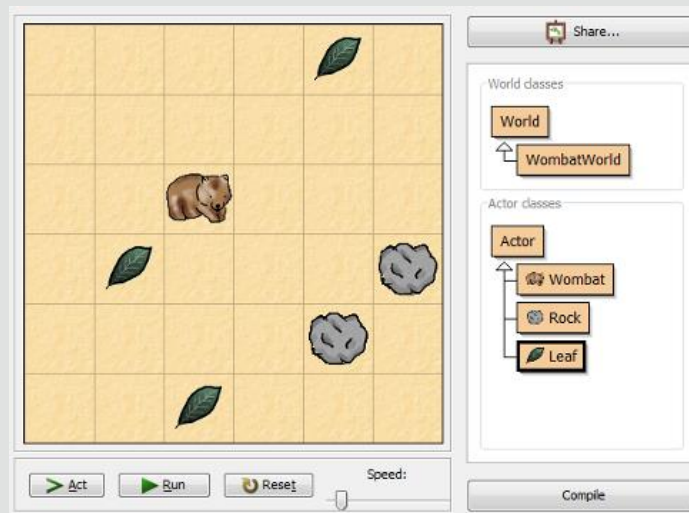
MicroBit

- Microbit – poznata platforma, malo računalo posebno dizajnirano za učenje programiranja
- (c) Micro:bit Educational Foundation
- dostupno na: <https://microbit.org>



Greenfoot

- GreenFoot – platforma namijenjena za početno učenje Java programskog jezika (posebno popularna u Ujedinjenom Kraljevstvu)
- (c) University of Kent



Finch Robot 2.0

- Finch Robot 2.0. - robotska platforma kompatibilna s Microbit i GreenFoot platformom
- (c) BirdBrain Technologies



Greenfoot, Finch Robot 2.0 i MicroBit

- U sklopu OA programa raspoloživa su tri radionice



Workshops in a Box -
Finch Greenfoot

Learning Path - Professional
Development (CPD)

**WIB Workshop -
Programming the Finch Robot
in Greenfoot - English CPD**

Added: 08-Jun-20

Enroll



Workshops in a Box -
Finch Java

Learning Path - Professional
Development (CPD)

**WIB Workshop -
Programming the Finch Robot
in Java - English CPD**

Added: 08-Jun-20

Enroll



Workshops in a Box -
Greenfoot

Learning Path - Professional
Development (CPD)

**WIB Workshop - Creating Java
Programs with Greenfoot -
English CPD**

Added: 04-Jun-20

Enroll

- Moguće su donacije Finch robota članovima OA programa (ovisno o interesu škola)

Pitanja ?

Pitanja

- Q: Kako se učlaniti u OA program ?
- A: Putem poveznice academy.oracle.com, odaberite Join now
- Q: Dodatna pitanja ?
- A: Slobodno pošaljite upit na darko.jurekovic@oracle.com ili frane.urem@oracle.com

Hvala na pažnji !

academy.oracle.com

