

# Digital Services Offered by University of Montenegro



UCG

University of Montenegro

Balša Femić,  
Center of Information System  
13. June 2024.



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- University of Montenegro is the oldest and the largest higher education institution in Montenegro, founded in 1974.
- The UoM is located in eight locations: Podgorica , Nikšić, Cetinje, Kotor, Herceg Novi, Bar, Berane, Bijelo Polje.
- The UoM offers several digital services to students, teaching staff and employees.



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>20.000 korisnika  
>3.000 računara



MIXP.me

# Centre of Information System

- The UoM academic network is one of the largest WAN networks in Montenegro that provides private and public services for over 20.000 beneficiaries. About 3.000 computers are permanently connected to the network and are used for teaching, scientific and administrative purposes. The activity of CIS includes all activities related to planning and management of the information system, its design and implementation, computer network and software services of common interest to the University and its members. The Academic Network of UoM is a full member of the European Association of Academic Networks (TERENA) under the name MREN (Montenegro Research and Education Network). In August 2015, the National Internet Exchange Point (Montenegro Internet Exchange Point - MIXP) started working in CIS. The UMNE Information System Center designed, implemented and configured the first IXP in Montenegro.



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# Digital services offered by the UNIVERSITY OF MONTENEGRO

- Connection to the Internet and to the academic network for all units of the University, employees, lecturers and students
- VPS (Virtual Private Server) hosting for UoM needs
- Hosting of websites for UoM needs
- Application for student records
- e-mail for students (@edu.ucg.ac.me & @live.ac.me)
- e-mail for employees (@ucg.ac.me)
- LDAP for students & LDAP for employees
- UoM portal ([ucg.ac.me](http://ucg.ac.me))
- Distance Learning platform ([dl.ucg.ac.me](http://dl.ucg.ac.me))
- E index platform ([eindex.ucg.ac.me](http://eindex.ucg.ac.me))
- System for downloading user data for students of the UoM
- Portal for student attendance records
- Document Management System
- Digital archive UoM / E-theses
- Portal publishing activity UoM
- Teaching and Personnel Records System (SNIKE)
- Portal for surveying students ([anketa.cis.ac.me](http://anketa.cis.ac.me))
- A system for generating surveys for the needs of the UoM
- Portals for the Senate, Councils and Management Board UoM
- Payroll and finance applications
- Application for personnel records
- Eduroam (for simple, easy, secure connectivity from thousands of hotspots across more than 100 countries)
- IPv6 trainings

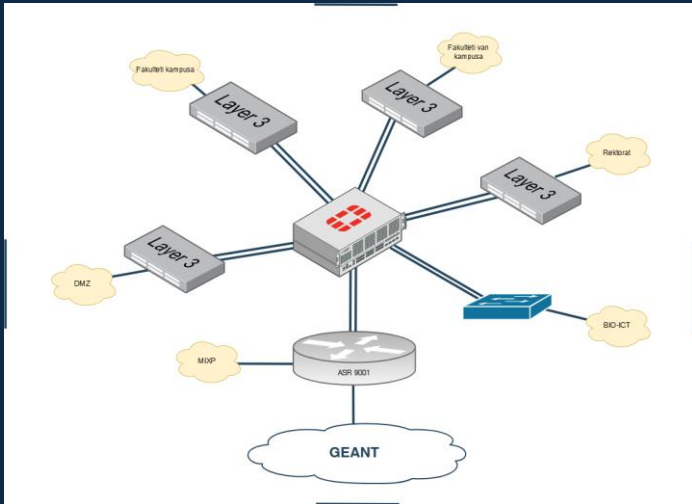


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# Centre of Information System

- Connection to the Internet and to the academic network for all units of the University, employees, lecturers and students
- VPS (Virtual Private Server) hosting for UoM needs
- Hosting of websites for UoM needs



Topology of connectivity in the Academic network frame

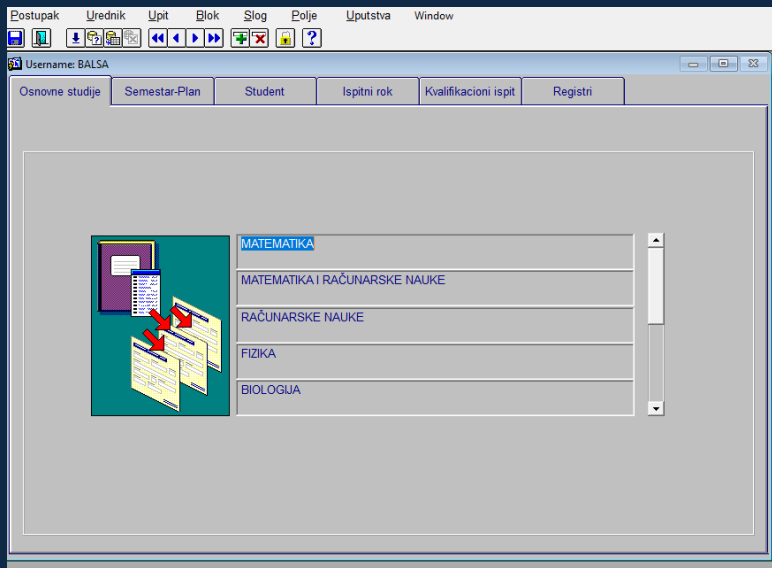


Data center in CIS UoM



University of Montenegro

# Application for student records



CIS UoM created a centralized database for keeping records on students in 1999. years.

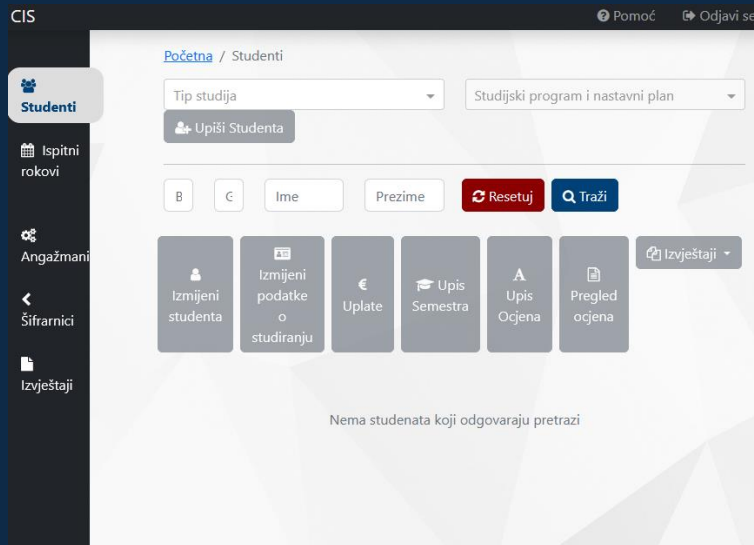
Data in the database are entered by employees in student services, while the database is administered by CIS UoM.

The old application was made in Oracle Forms technology and was in use for 25 years.



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# Application for student records



This year (2024) CIS UoM has developed a new application for student records.

The main modules of the application are: Students, Exam dates and Engagements.  
Technologies in which the app was developed: Backend is Spring Boot, Frontend is Angular.

The application uses LDAP login.

# Distance Learning platform

[dl.ucg.ac.me](https://dl.ucg.ac.me)

The UoM DL system uses the Moodle platform. That is a course management system that provides a virtual object-oriented dynamic learning environment.

Course management  
Student management

It supports both lectures and learning, as well as taking exams.

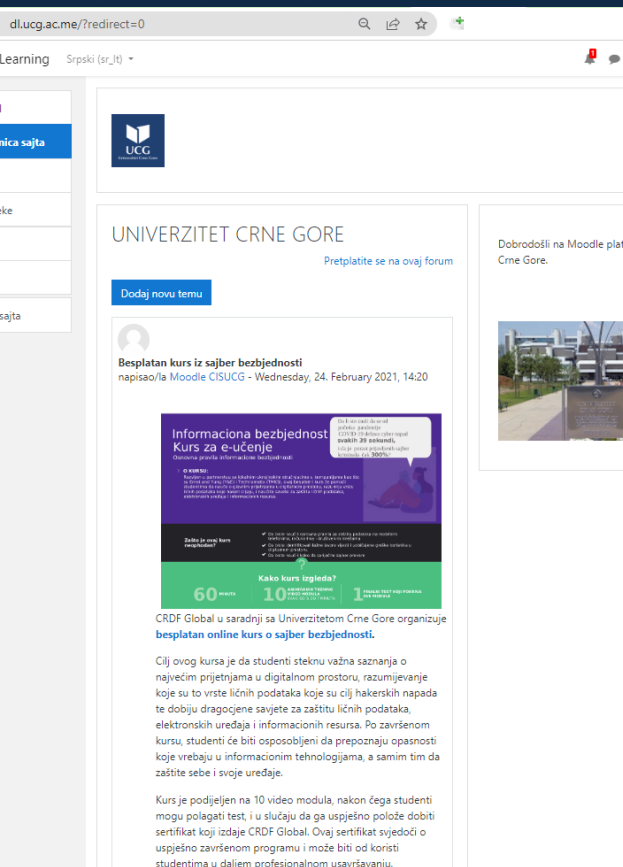
Teaching materials

Quizzes

Tests

Calendar

Grade log



dl.ucg.ac.me/?redirect=0

Learning Srpski (sr\_Lat)

UNIVERZITET CRNE GORE

Dobrodošli na Moodle platformu Crne Gore.

[Dodaj novu temu](#)

**Besplatan kurs iz sajber bezbjednosti**  
napisao/la Moodle CISCUG - Wednesday, 24. February 2021, 14:20

**Informaciona bezbjednost i kurs za e-učenje**

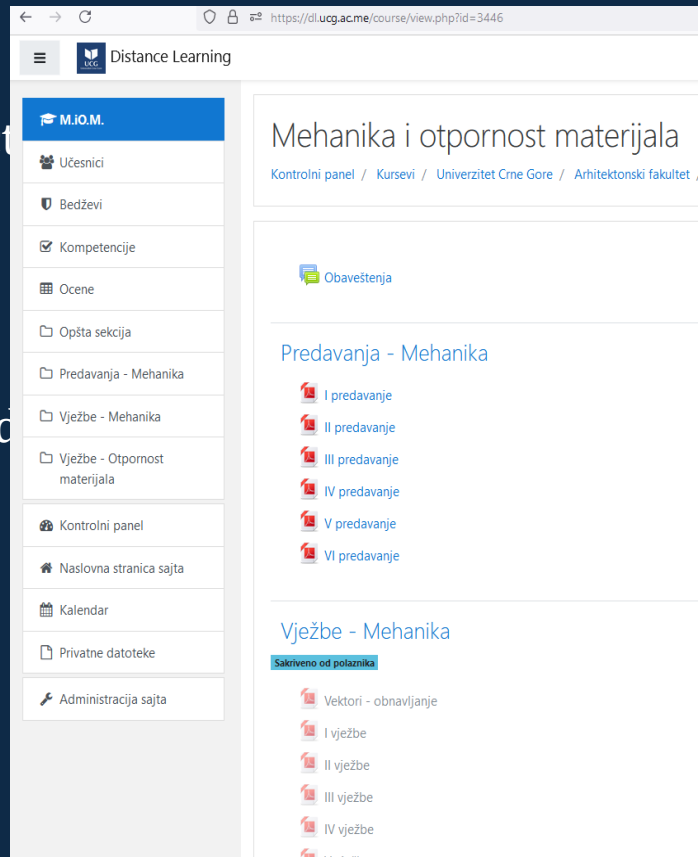
**Kako kurs izgleda?**

- 60 minuta
- 10 pitanja
- 1 test

CRDF Global u saradnji sa Univerzitetom Crne Gore organizuje besplatan online kurs o sajber bezbjednosti.

Cilj ovog kursa je da studenti steknu važna saznanja o najvećim prijetnjama u digitalnom prostoru, razumijevanje koje su to vrste ličnih podataka koje su cilj hakerskih napada te dobiju dragocjene savjete za zaštitu ličnih podataka, elektronskih uređaja i informacionih resursa. Po završenom kursu, studenti će biti osposobljeni da prepoznaju opasnosti koje vrebaju u informacionim tehnologijama, a samim tim da zaštite sebe i svoje uređaje.

Kurs je podijeljen na 10 video modula, nakon čega studenti mogu polagati test, i u slučaju da ga uspješno polože dobiti sertifikat koji izdaje CRDF Global. Ovaj sertifikat svjedoči o uspješno završenom programu i može biti od koristi studentima u daljem profesionalnom usavršavanju.



https://dl.ucg.ac.me/course/view.php?id=3446

Distance Learning

M.I.O.M.

- Učesnici
- Beđzevi
- Kompetencije
- Ocene
- Opšta sekcija
- Predavanja - Mehanika
- Vježbe - Mehanika
- Vježbe - Otpornost materijala
- Kontrolni panel
- Naslovna stranica sajta
- Kalendar
- Privatne datoteke
- Administracija sajta

Mehanika i otpornost materijala

[Kontrolni panel](#) / [Kursevi](#) / [Univerzitet Crne Gore](#) / [Arhitektonski fakultet](#)

Obaveštenja

Predavanja - Mehanika

- I predavanje
- II predavanje
- III predavanje
- IV predavanje
- V predavanje
- VI predavanje

Vježbe - Mehanika

**Sakriveno od polaznika**

- Vektori - obnavljanje
- I vježbe
- II vježbe
- III vježbe
- IV vježbe



# BigBlueButton video conferencing tool

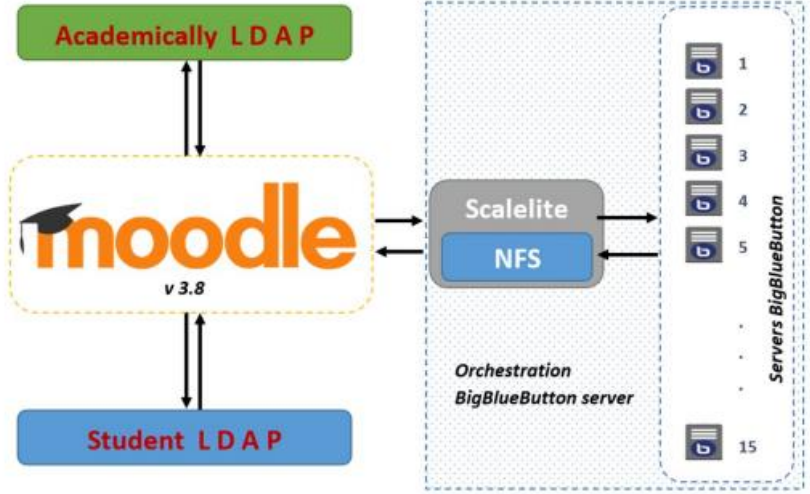
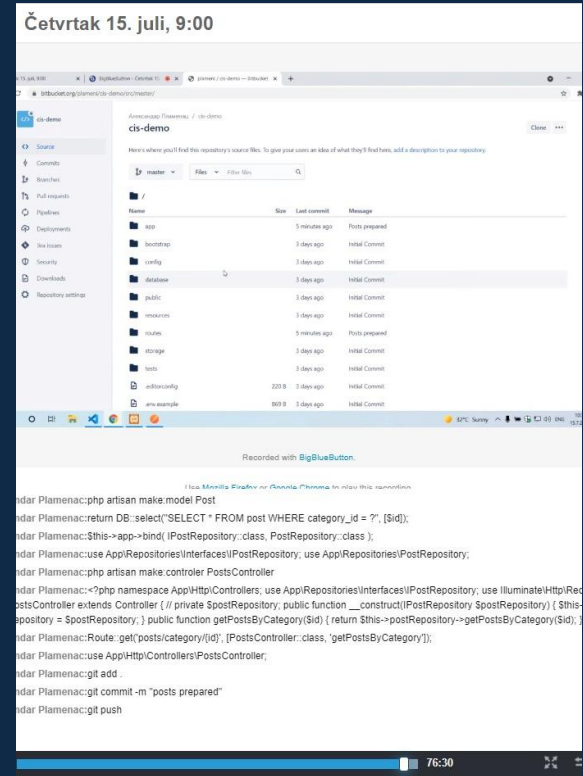


Fig.1 Schematic representation of the UoM Distance Learning platform



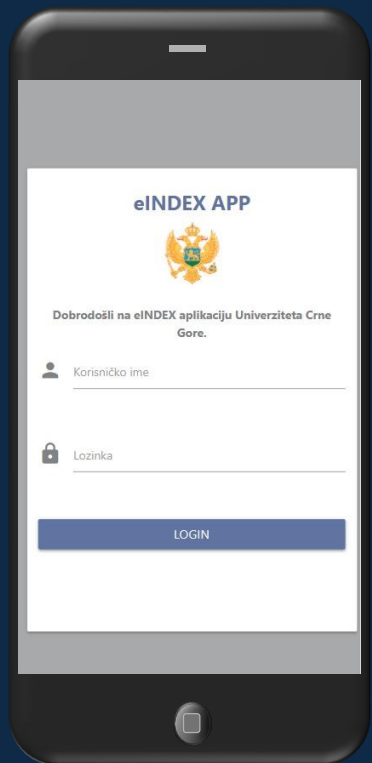
The video conference system significantly simplifies the organization of teaching activities and teachers and students have at their disposal a virtual classroom where it is possible to organize all activities from holding video lectures, uploading teaching materials, holding colloquiums and tests, surveys, as well as a number of other activities.



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# E index platform

[eindex.ucg.ac.me](http://eindex.ucg.ac.me)



Intended for both professors and students.  
All professors and associates can access it through their academic accounts.  
Students access through student accounts.



This service enables the electronic entry of colloquium, homework, and test results, from which grades are automatically generated.



Data security

Double authentication is done by sending an access code via SMS.



It is also possible to set various types of notifications and materials visible only to specific users, that is, students and professors who are related to a specific study program or course.

# E index platform

[eindex.ucg.ac.me](http://eindex.ucg.ac.me)

Users of the eIndex platform are students and employees of the University of Montenegro. Lecturers have the option of entering results and notifications for the course.

The vice-deans have the possibility to review forms with results, set the duration of the semester, and set notifications for the faculty.

IT administrator - Defining roles at the faculty level. The student has the possibility to review his personal data, results and notifications.

Technologies in which the app was developed: Backend is Laravel, Frontend is Angular.

Prodekan Logout

Studijski programi  
RAČUNARSKE NAUKE

Tip studija  
Osnovne

Filter po predmetu

| Predmet                    | Semestar | Plan | Od datuma  | Do datuma  | Status    |
|----------------------------|----------|------|------------|------------|-----------|
| ANALITIČKA GEOMETRIJA      | 1        | 2017 | 2023-09-26 | 2024-02-20 | Pozitivan |
| ANALIZA 1                  | 1        | 2017 | 2023-09-26 | 2024-02-20 | Pozitivan |
| ENGLJSKI JEZIK 1           | 1        | 2017 | 2023-09-26 | 2024-02-20 | Pozitivan |
| RAČUNARI I PROGRAMIRANJE   | 1        | 2017 | 2023-09-26 | 2024-02-20 | Pozitivan |
| UVOD U KOMPIJUTERSKE NAUKE | 1        | 2017 | 2023-09-26 | 2024-02-20 | Pozitivan |
| UVOD U MATEMATIČKU LOGIKU  | 1        | 2017 | 2023-09-26 | 2024-02-20 | Pozitivan |

IT administrator Logout

Uloge u sistemu nastavne evidencije  
PLAMENAC ALEKSANDAR  
Saradnik u nastavi-(mr)

NOVA ULOGA

uloga

|                  |                          |
|------------------|--------------------------|
| Nastavnik        | <input type="checkbox"/> |
| Referent         | <input type="checkbox"/> |
| Prodekan         | <input type="checkbox"/> |
| Rukovodilac SP   | <input type="checkbox"/> |
| IT administrator | <input type="checkbox"/> |

Studijski programi rukovodioca

ifra studijski program tip studija

DODAJTE STUDIJSKI PROGRAM

Kratak uputstvo za rukovodioca SP



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# System for downloading user data for students of the UoM

[aktivirajnalog.edu.ucg.ac.me](http://aktivirajnalog.edu.ucg.ac.me)

Support for students to gain access to electronic services

The Information System Center of the University of Montenegro has developed a system for delivering student credentials via SMS due to the impossibility of picking them up at the faculty's student services due to the COVID-19 virus. Credentials can be used for student mail and access to online lectures via the Moodle platform, the BigBlueButton system, as well as for access to the e-Index service.

A screenshot of a web browser displaying the 'Sistem za preuzimanje korisničkih podataka za studente Univerziteta Crne Gore'. The page includes a header with the UoM logo and 'Centar Informacionog sistema'. The main content area contains a title, a paragraph explaining the system's purpose (SMS-based credential delivery due to COVID-19), and a form with fields for 'Ime i prezime', 'Fakultet' (set to 'ARHITEKTONSKI FAKULTET'), 'Godina upisa' (set to '2022'), 'Matični broj (JMB)', and 'Broj telefona u formatu 382 6 \* \* \* \* \*'. A 'Pošalji' button is at the bottom right.

Univerzitet Crne Gore  
Centar Informacionog sistema

### Sistem za preuzimanje korisničkih podataka za studente Univerziteta Crne Gore

Centar informacionog sistema Univerziteta Crne Gore je razvio sistem za dostavljanje studenskih kredencijala putem SMS-a zbog nemogućnosti podizanja istih na studenskim službama fakulteta usled COVID-19 virusa. Kredencijali mogu biti korišteni za [studentski mail](#) i pristup [online predavanjima putem Moodle platforme](#).

Potrebno je da popunite formu u nastavku, a korisnički podaci će Vam biti poslani SMS-om na unijeti broj telefona.

Svaki zahtjev će biti trajno arhiviran, a moguće zloupotrebe će biti procesuirane u skladu sa propisima Republike Crne Gore.

Ime i prezime :

Fakultet : ARHITEKTONSKI FAKULTET

Godina upisa : 2022

Matični broj (JMB) :

Broj telefona u formatu 382 6 \* \* \* \* \* : 382 6

Pošalji



University of Montenegro

PHAIDRA is a system for long-term storage, indexing and use of digital objects at the University of Montenegro.

PHAIDRA allows teachers and associates of the University to enter their scientific papers, publications and other documents into the system themselves, where they will be permanently archived. Doctoral, master's, graduate and other unpublished and published works can be deposited in the system, with full respect for copyright.

# Digital archive UoM

[phaidra.ucg.ac.me](http://phaidra.ucg.ac.me)

The screenshot displays the PHAIDRA web interface. At the top, the PHAIDRA logo is visible on the left, and the UoM logo is on the right. The main header area shows the user's name 'Dobrodošli, Korisnik Jelena (jelena)!' and navigation links for 'Odjava', 'Pomoć', and 'Srpski'. Below the header, the page title 'PHAIDRA' is shown. The left sidebar contains navigation options: 'Kreiranje novog objekta', 'Moji objekti', 'Moje liste izabranih objekata', 'Prelistavanje', 'Osnovno pretraživanje' (with a dropdown menu set to 'Sva polja'), 'Kreni', 'Napredno pretraživanje', 'E-Teze', and 'Parametri'. The main content area displays 'Rezultati pretraživanja (23 pogodaka)'. A search bar contains the text 'Osnovno pretraživanje vlasnik odgovara "jelena"' and a link to 'Dodajte rezultat pretraživanja listi izabranih objekata'. Below the search bar, there are eight search results, each represented by a thumbnail image and a title: 1. 'Metakognitivne strategije u obradi l...' (pencil icon), 2. 'Funkcije i značenja intonacionih...' (pencil icon), 3. 'Metadiskursna analiza iskazivanja...' (pencil icon), 4. 'Zwinqer Museums' (building icon), 5. 'Informacijska pismenost' (network icon), 6. 'Materijali za projekat Informacijska...' (network icon), 7. 'Definisanje harmonizovanog...' (pencil icon), 8. 'Integracija Informacijske pismenosti u...' (pencil icon).



University of Montenegro

E-theses  
eteze.ucg.ac.me

## Catalog of doctoral theses

The "E-theses of the University of Montenegro" system is intended for searching and downloading doctoral dissertations defended at the University of Montenegro. It forms an integral part of the Digital Repository of the University of Montenegro - PHAIDRA, in which the scientific and professional works of teachers and associates of the University are indexed and archived.

E-TEZE UNIVERZITETA CRNE GORE

PHAIDRA

COBISS.CG

PRETRAŽIVANJE PO SVIM METAPODACIMA

PRETRAŽIVANJE

NAPREDNO PRETRAŽIVANJE

PRELISTAVANJE

INFORMACIJE

KONTAKTI

PHAIDRA

COBISS.CG

PRUJAVA

Sistem "E-teze Univerziteta Crne Gore" namijenjen je pretraživanju i preuzimanju doktorskih disertacija odbranih na Univerzitetu Crne Gore. On čini integralni dio Digitalnog repozitorijuma Univerziteta Crne Gore – PHAIDRA u kojem se indeksiraju i arhiviraju naučni i stručni radovi nastavnika i saradnika Univerziteta. U skladu sa politikom zaštite autorskih prava, repozitorijum sadrži samo disertacije koje imaju potpisane izjave kojima kandidat/doktorand ovlašćuje Univerzitetsku biblioteku da u svoj Digitalni repozitorijum unese disertaciju pod određenim licencnim uslovima. Disertacije je moguće pretraživati u sistemu "E-teze" ili u okviru čitavog repozitorijuma PHAIDRA.

NAJNOVIJE TEZE

BROJ SVIH TEZA: 309

POSLEDNJIH 25 TEZA

FILTER

ETD-MS Izvoz

| Izbor                    | Naslov  | Autor  | Fakultet                      | Datum izdanja | Full text |
|--------------------------|---|--|-------------------------------|---------------|-----------|
| <input type="checkbox"/> | Humanocentričan model jedinstvenog prozora u pomorstvu za potrebe luke u razvoju                          | Radulović, Ana   | Fakultet za pomorstvo         | 2023          |           |
| <input type="checkbox"/> | Klase Berovih i involutivnih Berovih prstenova  | Jokanović, Dušan S., 1970- (aut.code: 00307 - E-CRIS.CG) | Prirodno-matematički fakultet | 2009          |           |
| <input type="checkbox"/> | Metodologija smanjenja uticaja katalitičkih ostataka na trajnost prstenova sporohodnih brodskih motora    | Vukičević, Miroslav                                      | Fakultet za pomorstvo         | 2022          |           |
| <input type="checkbox"/> | Analiza isplativosti i model primjene Jedinstvenog nacionalnog pomorskog prozora u malim obalnim zemljama | Kapidani, Nexhat   | Fakultet za pomorstvo         | 2022          |           |
| <input type="checkbox"/> | Informaciona tehnologija u funkciji efikasnog upravljanja broderskom organizacijom                        | Klenak, Sonja, 1966- (aut. code: 01140 - E-CRIS.CG)      | Fakultet za pomorstvo         | 2000          |           |
| <input type="checkbox"/> | Marksov politički projekat novog društva  | Sekulović, Goran, 1958-                                  | Pravni fakultet               | 2006          |           |
| <input type="checkbox"/> | Recepcija stvaralaštva Leonida Leonova na području srpskohrvatskog jezika                                 | Koprivica, Dragan, 1953-                                 | Filozofski fakultet           | 1992          |           |



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# Eduroam

Eduroam - education roaming is a free service for accessing the Internet.

Eduroam provides simple, easy, secure connectivity from thousands of hotspots across more than 100 countries.

In 2023 eduroam authenticated over 7.5 billion national and international authentications

Eduroam is based on the most secure encryption and authentication standards available.



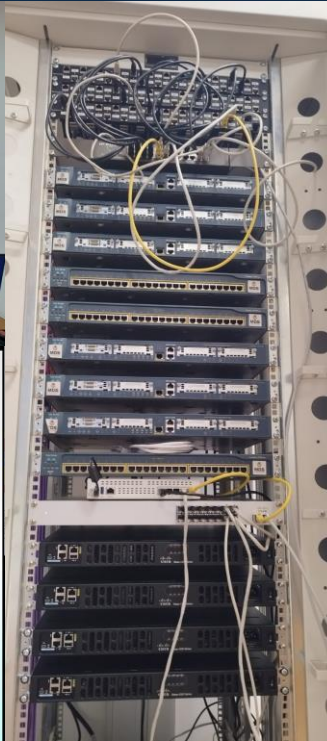
UoM provides access to Eduroam to users of the academic network.



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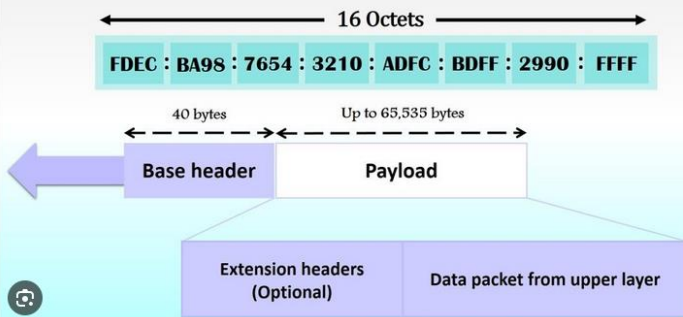
# IPv6 trainings



CIS UoM was the first in Montenegro to implement the IPv6 protocol for device identification on the Internet.

In the premises of CIS there is a modern equipped IPv6 laboratory with a classroom where trainings are conducted.

## IPv6 Explained







**UCG**

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We invite you to explore what UoM has to offer you through our website and social networks:

**Web site:** [www.ucg.ac.me](http://www.ucg.ac.me)

**Facebook:** Univerzitet Crne Gore

**Instagram:** univerzitet\_cg

**LinkedIn:** Univerzitet Crne Gore

**Twitter:** Univerzitet CG





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**THANK YOU FOR  
YOUR ATTENTION!**

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