

**Submitted:** 2019-04-25 07:46:19

Dr. Ariola Devolli  
adevolli@ubt.edu.al

**Title:** Food chemical analyses

**Level:** Master

**Lecture:**

Water quality control through chemical analyses

**Dates:** 18.04.2019

**Number:** 22

**Link:**

<http://mdl.netchem.ac.rs/enrol/index.php?id=47>

**Comment:**

Students found very interesting uses of OER educational materials. Videos and laboratory guides were very helpful in understanding.

**Submitted:** 2019-04-22 17:54:33

Jelena Radonić, Maja Turk Sekulić  
jelenaradonic@uns.ac.rs, majaturk@uns.ac.rs

**Title:** Analysis of environmental protection systems

**Level:** MSc

**Lecture:**

Exercise „Decontamination and remediation of wastewater with low-cost & eco-friendly adsorbents“

**Dates:** 31/01/2019

**Number:** 4

**Link:**

<http://mdl.netchem.ac.rs>

**Comment:**

-

**Submitted:** 2019-04-06 21:06:36

Aleksandar Bojić  
bojica@pmf.ni.ac.rs

**Title:** Remediation technologies

**Level:** PhD studies

**Lecture:**

Determination of heavy metals in soil by atomic absorption spectrometry (AAS)

**Dates:** /

**Number:** 10

**Link:**

[mdl.netchem.ac.rs/course/view.php?id=9](http://mdl.netchem.ac.rs/course/view.php?id=9)

**Comment:**

**Submitted:** 2019-04-06 21:05:46

Aleksandar Bojić  
bojica@pmf.ni.ac.rs

**Title:** Chemistry of Water And Wastewaters

**Level:** Master academic studies

**Lecture:**

1. Determination of Chemical Oxygen Demand (COD) in natural waters\n2. Determination of heavy metals in wastewater by atomic absorption spectrometry (AAS)\n

**Dates:** /

**Number:** 10

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=6>

**Comment:**

**Submitted:** 2019-04-06 21:01:25

Miloš Kostić  
milos.kostic@pmf.edu.rs

**Title:** Remediation technologies

**Level:** PhD studies

**Lecture:**

Determination of heavy metals in soil by atomic absorption spectrometry (AAS)

**Dates:** /

**Number:** 10

**Link:**

[mdl.netchem.ac.rs/course/view.php?id=9](http://mdl.netchem.ac.rs/course/view.php?id=9)

**Comment:**

**Submitted:** 2019-04-06 20:58:27

Miloš Kostić  
milos.kostic@pmf.edu.rs

**Title:** Chemistry of Water And Wastewaters

**Level:** Master academic studies

**Lecture:**

1. Determination of Chemical Oxygen Demand (COD) in natural waters  
2. Determination of heavy metals in wastewater by atomic absorption spectrometry (AAS)

**Dates:** /

**Number:** 10

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=6>

**Comment:**

**Submitted:** 2019-04-05 15:05:05

Slobodan Najdanović

**Title:** Water and wastewater treatment technologies

**Level:** MSc

**Lecture:**

Removal of textile dye RB19 by the electrocoagulation process

**Dates:** /

**Number:** /

**Link:**

/

**Comment:**

**Submitted:** 2019-04-05 15:04:37

Slobodan Najdanović

**Title:** Water and wastewater treatment technologies

**Level:** MSc

**Lecture:**

Removal of textile dye RB19 by the electrocoagulation process

**Dates:** /

**Number:** /

**Link:**

/

**Comment:**



**Submitted:** 2019-04-05 10:00:37

Marjan Ranđelović  
hemija@gmail.com

**Title:** Colloid and surface chemistry

**Level:** Master academic studies

**Lecture:**

Colloid stability; Surfactants and self-assembly. Detergents and cleaning; Adsorption in Colloid and Surface Science; Emulsions; Foams.

**Dates:** 15th, 22th, 29th November\6th, 13th December

**Number:** 4

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=89>

**Comment:**

**Submitted:** 2019-04-04 08:16:04

Nena Velinov

**Title:** Water and wastewater treatment technologies

**Level:** MSc

**Lecture:**

-

**Dates:** -

**Number:** -

**Link:**

-

**Comment:**

**Submitted:** 2019-03-22 11:52:33

Aleksandra Tubić  
aleksandra.tubic@dh.uns.ac.rs

**Title:** Environmental Quality Control (Advanced course)

**Level:** PhD

**Lecture:**

TOC analysis of water samples\n

**Dates:** January 2019

**Number:** 1

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=19#section-5>

**Comment:**

**Submitted:** 2019-03-20 12:07:00

Dr. Ariola Morina  
alika@ubt.edu.al

**Title:** Sensory analysis of food

**Level:** Master

**Lecture:**

Sensory quality of olive oil.

**Dates:** 08.03.2019

**Number:** 22

**Link:**

<http://mdl.netchem.ac.rs/enrol/index.php?id=49>

**Comment:**

During this course the students were very satisfied for interaction between lecture and distant - demonstrator. Using video films give the opportunity to better understand the lesson and laboratory exercises.

**Submitted:** 2019-03-20 11:56:55

Dr. Artiona Laze  
alaze@ubt.edu.al

**Title:** Instrumental Analyses for Food Quality

**Level:** Master

**Lecture:**

Polyacrylamide Gel Electrophoresis (PAGE) of Proteins

**Dates:** 05.03.2019

**Number:** 22

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=48>

**Comment:**

During the course we have used video film. It was the first time for our students whom used OER/WARIAL. The students were satisfied for this cooperation because helped for better understanding the lecture topics. Video clips of laboratory procedure enhanc

**Submitted:** 2019-03-14 08:58:08

Ivana Ivancev-Tumbas  
ivana.ivancev-tumbas@dh.uns.ac.rs

**Title:** Environmental Quality Control

**Level:** BSc

**Lecture:**

this subject was not the part of the modernisation during project. However, video material that was produced within project was introduced to students as a supplementary material at the end of the course.

**Dates:** 12/01/219

**Number:** 40

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=25>

**Comment:**

just several films from GC related material were placed on local UNS MOODLE to assist in lectures at BSc level, not in context of method validation plan, but in context of learning about instrumentation

**Submitted:** 2019-03-14 08:53:09

Ivana Ivancev-Tumbas  
ivana.ivancev-tumbas@dh.uns.ac.rs

**Title:** Environmental Quality Control (Advanced Course)

**Level:** PhD

**Lecture:**

Matrix interferences in the flame atomic absorption spectrophotometry, Method optimisation for analysis of ions by ion chromatography and Invited lecture from course P7-1 related to TOC measurements

**Dates:** WARIAL remote session were held on 11/01/2019 and 17/01/2019- the dates of WARIAL sessions were shifted due to schedule of participants   **Number:** 2

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=25>, <http://mdl.netchem.ac.rs/course/view.php?id=19>

**Comment:**

these were first trials of WARIAL at the course and we found possibilities to make an advancement in projection, tone setting. Students were very satisfied to be able to see how one should work in accredited lab and it was more comfortable than staying in

**Submitted:** 2019-03-14 08:26:12

Ivana Ivancev-Tumbas  
ivana.ivancev-tumbas@dh.uns.ac.rs

**Title:** Environmental Quality Control (Advanced Course)

**Level:** PhD

**Lecture:**

GC Method validation plan; Matrix interferences in the flame atomic absorption spectrophotometry; method optimisation for analysis of ions by ion chromatography

**Dates:** During whole semester, PhD student T. Marjanovic worked freely alone with materials produced in the times that she wanted and had consultation with professor on several occasions in period November-January: 13/11/2019 ,10/01/2019, 15/01/2019, 23/01/2019 s **Number:** 1

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=25>

**Comment:**

student was very satisfied and our joint work and communication related to topics was much better than in previous years since PBL was used to higher extent, materials in the form of guidance for independent work of students was proved as good and WARIAL



**Submitted:** 2019-02-21 10:36:28

Biljana Abramovic

biljana.abramovic@dh.uns.ac.rs

**Title:** Selected Topics in Environmental Analysis

**Level:** PhD

**Lecture:**

Determination of limit of detection (LOD) and limit of quantification (LOQ) of HPLC-DAD for metoprolol analysis  
Sample preparation for photocatalytic degradation of alprazolam with ZnO and measurements of its photocatalytic activity

**Dates:** 14. 02. 2019.

**Number:** 1

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=27>

**Comment:**

**Submitted:** 2019-02-05 12:08:42

Sonila Vito  
sonila.vito@fshn.edu.al

**Title:** Wastewater treatment

**Level:** Master

**Lecture:**  
Chemical wastewater treatment processes

**Dates:** 31 January 2019

**Number:** 15

**Link:**  
<http://mdl.netchem.ac.rs/course/view.php?id=7>

**Comment:**

**Submitted:** 2019-02-04 09:52:13

Prof. Aleksandar Bojić  
bojica@gmail.com

**Title:** Chemistry of Water And Wastewaters

**Level:** MSc

**Lecture:**

Parameters of natural waters quality: physical, chemical and microbiological  
Determination of Chemical Oxygen Demand (COD) in natural waters

**Dates:** 07 February 2019.

**Number:** 4

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=6>

**Comment:**

**Submitted:** 2019-01-18 19:33:39

Bojan Zlatković  
bojanzlat@yahoo.com, bojanzlat@pmf.ni.ac.rs

**Title:** P1-13 Vegetation of the World

**Level:** Master

**Lecture:**

All modernised lectures

**Dates:** 22.01.2019.

**Number:** 10

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=68>

**Comment:**

Students attending Master course Biochemical plant systematics will be introduced to the contents, benefits and possibilities of using the materials of the modernised course P1-13 Vegetation of the World within the NetChem Project.

**Submitted:** 2019-01-18 19:31:29

Bojan Zlatković  
bojanzlat@yahoo.com, bojanzlat@pmf.ni.ac.rs

**Title:** P1-13 Vegetation of the World

**Level:** Master

**Lecture:**

All modernised lectures

**Dates:** 21.1.2019.

**Number:** 8

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=68>

**Comment:**

Students attending Master course P1-13 Vegetation of the World will be introduced to the benefits and further possibilities of using the content of the modernised course P1-13 Vegetation of the World within the NetChem Project.

**Submitted:** 2019-01-18 19:28:32

Bojan Zlatković  
bojanzlat@yahoo.com, bojanzlat@pmf.ni.ac.rs

**Title:** P1-13 Vegetation of the World

**Level:** Master

**Lecture:**

Zonobiome of deciduous forests at brown forest-soils in wet temperate climate (Aestilignosa or Aestisilvae)

**Dates:** 14.01.2019.

**Number:** 8

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=68>

**Comment:**

Students will learn about diversity, ecological adaptations, and seasonality of temperate forest flora (lecture, PPT). Additional information via one more PPT presentation and 12 videos. Laboratory guide is provided.

**Submitted:** 2019-01-18 19:22:38

Bojan Zlatković  
bojanzlat@yahoo.com, bojanzlat@pmf.ni.ac.rs

**Title:** P1-13 Vegetation of the World

**Level:** Master

**Lecture:**

Zonobiome of evergreen forests on podzol soils in moderately warm and wet ("maritime") temperate climate

**Dates:** 14.01.2019.

**Number:** 8

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=68>

**Comment:**

Demonstration of distribution, ecological adaptations and species diversity of Temperate rain forests of South America via PPT lecture presentation. Additional material via separate PTT file, one video from open internet sources. Supplying with laboratory

**Submitted:** 2019-01-18 17:46:48

Bojan Zlatković  
bojanzlat@yahoo.com, bojanzlat@pmf.ni.ac.rs

**Title:** P1-13 Vegetation of the World

**Level:** Master

**Lecture:**

Zonobiome of evergreen forest (Mediterranean) vegetation on red soils ("terra rossa") in periodically humid to arid subtropical climate (Durilignosa)

**Dates:** 31.12.2018.

**Number:** 8

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=68>

**Comment:**

Demonstration of different drought resistance mechanisms in Mediterranean shrub and tree species by using PPT lecture. Additional data served using one more PPT file. Observing specific leaf morphology and anatomy by using Laboratory guide, LM and Stere



**Submitted:** 2019-01-18 11:08:58

Zlatković

bojanzlat@yahoo.com, bojanzlat@pmf.ni.ac.rs

**Title:** Vegetation of the World

**Level:** Master Level

**Lecture:**

Zonobiome of desert vegetation on gray desert soils in dry subtropical climate

**Dates:** 24.12.2019.

**Number:** 8

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=68>

**Comment:**

Students are introduced to the content of the modernized lecture "Physiognomy and floristic composition of Monte desert vegetation, Argentina" (PPT.). Students received additional material (additional plant representatives describing interaction with the

**Submitted:** 2019-01-14 09:56:37

Maja Petrović  
majadjogo@uns.ac.rs

**Title:** Monitoring and management of systems

**Level:** Master

**Lecture:**

Storage, preparation and basic physico-chemical analysis of water samples

**Dates:** 28.12.2018.

**Number:** 4

**Link:**

<http://netchem.ac.rs/documents/send/205-remote-access-laboratory-giuides/1410-storage-preparation-and-basic-physico-chemical-analysis-of-water-samples-pdf>

**Comment:**

This lesson is performed after the courses Groundwater\nsampling and Leachate sampling. Students will be in the classroom while the performer will be in the lab, connected with them via skype. The performer will introduce students to the basic principles

**Submitted:** 2019-01-11 11:04:51

Nevila Broli  
nevila.broli@fshn.edu.al

**Title:** Biosensors

**Level:** Master

**Lecture:**  
BIOSENSOR (General principles and applications)

**Dates:** 15.10.2018 - 13.02.2019

**Number:** 20

**Link:**

[https://www.google.com/search?client=avast&biw=1366&bih=626&ei=qm04XOSTHuSJ1fAPiMqysAM&q=enzyme+based+biosensors+ppt&oq=enzyme+based+biosensors+ppt&gs\\_l=psy-ab.3..0.41515.45435..46819...0.0..0.267.1664.0j9j1.....0.....1..gws-wiz.....0i71j0i7i30.6kx74StF](https://www.google.com/search?client=avast&biw=1366&bih=626&ei=qm04XOSTHuSJ1fAPiMqysAM&q=enzyme+based+biosensors+ppt&oq=enzyme+based+biosensors+ppt&gs_l=psy-ab.3..0.41515.45435..46819...0.0..0.267.1664.0j9j1.....0.....1..gws-wiz.....0i71j0i7i30.6kx74StF)

**Comment:**

**Submitted:** 2019-01-11 10:47:15

Majlinda Vasjari  
majlinda.vasjari@fshn.edu.al

**Title:** Electrochemical sensors and biosensors

**Level:** MsC

**Lecture:**

Development of potentiometric sensors based on paper and graphite powder, \nDetermination of analytical performance of the sensors (sensitivity, selectivity, etc)\nDetermination of Chloride-ions using the home made sensors based on paper and graphite powde

**Dates:** second semester April-June 2019

**Number:** 10

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=35>

**Comment:**

**Submitted:** 2019-01-11 09:26:23

Daniela Šojić Merkulov  
daniela.sojic@dh.uns.ac.rs

**Title:** Analytics of Organic Pollutants

**Level:** Master

**Lecture:**

Heterogeneous photocatalysis: fundamentals and applications to the removal of herbicide mesotrione from water

**Dates:** 28.11.2018.

**Number:** 6

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=20>

**Comment:**

**Submitted:** 2019-01-07 11:11:21

Alma Shehu  
alma.shehu@fshn.edu.al

**Title:** Atomic Spectroscopy

**Level:** MSc

**Lecture:**  
Using an Atomic Absorption Spectrometer

**Dates:** 13/02/2019

**Number:** 15

**Link:**  
<http://mdl.netchem.ac.rs/course/view.php?id=90>

**Comment:**  
\n\n

**Submitted:** 2019-01-04 10:54:13

Emilija Pecev-Marinkovic  
emapecev@medianis.net

**Title:** Molecular spectroscopy

**Level:** Doctoral

**Lecture:**

Electron transfer of iodine in organic solvents\n

**Dates:** 25.12.2018.

**Number:** 2

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=45>

**Comment:**

Students used the education material to did the exercise Electron transfer of iodine in organic solvents. The exercise has been done at the Spectrophotometer.

**Submitted:** 2019-01-04 10:45:23

Emilija Pecev-Marinkovic  
emapecev@medianis.net

**Title:** Kinetics and catalysis

**Level:** Master's

**Lecture:**

Determination of Cu(II) ions based on its catalytic effect in indicatory reaction\n\n

**Dates:** 12.12.2018.

**Number:** 11

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=67>

**Comment:**

The education material was used and we showed to student effects of Cu(II) ions like catalyst in some indicatory reaction.



**Submitted:** 2019-01-04 10:41:06

Emilija Pecev-Marinkovic  
emapecev@medianis.net

**Title:** Kinetics and catalysis

**Level:** Master's

**Lecture:**

Determination of Co(II) ions in homogeneous-catalytic reaction\n

**Dates:** 28.11.2018.

**Number:** 11

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=67>

**Comment:**

We used the education material for exercise and showed to student example of homogenous catalysis.

**Submitted:** 2019-01-04 10:39:57

Emilija Pecev-Marinkovic  
emapecev@medianis.net

**Title:** Kinetics and catalysis

**Level:** Master's

**Lecture:**

Determination of Co(II) ions in homogeneous-catalytic reaction\n

**Dates:** 28.11.2018.

**Number:** 11

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=67>

**Comment:**

We used the education material for exercise and showed to student example of homogenous catalysis.

**Submitted:** 2018-12-26 13:45:27

Dejan Orčić  
dejan.orcic@dh.uns.ac.rs

**Title:** Isolation and characterization of natural products

**Level:** PhD

**Lecture:**

Identification and quantification of secondary biomolecules in plant material by LC-DAD-MS/MS

**Dates:** december 2018.

**Number:** 2

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=26>

**Comment:**

Materials EE08-EE11 were used.

**Submitted:** 2018-12-26 13:44:06

Dejan Orčić  
dejan.orcic@dh.uns.ac.rs

**Title:** Liquid chromatographic methods in biochemistry

**Level:** BSc studies

**Lecture:**  
Preparative LC

**Dates:** 26.11.2018.

**Number:** 10

**Link:**  
<http://mdl.netchem.ac.rs/course/view.php?id=26>

**Comment:**  
EE12 was used.

**Submitted:** 2018-12-26 13:42:36

Dejan Orčić  
dejan.orcic@dh.uns.ac.rs

**Title:** Liquid chromatographic methods in biochemistry

**Level:** BSc studies

**Lecture:**  
HPLC-MS/MS analysis

**Dates:** 26-30.11.2018.

**Number:** 10

**Link:**  
<http://mdl.netchem.ac.rs/course/view.php?id=26>

**Comment:**  
Materials EE01, EE02, EE07, EE08, EE09 and EE11 were used.

**Submitted:** 2018-12-26 13:38:33

Dejan Orčić  
dejan.orcic@dh.uns.ac.rs

**Title:** Isolation and characterization of natural products

**Level:** PhD

**Lecture:**  
Qualitative analysis using LC-DAD-MS/MS

**Dates:** december 2018

**Number:** 2

**Link:**  
<http://mdl.netchem.ac.rs/course/view.php?id=26>

**Comment:**  
All material provided at the webpage are used.

**Submitted:** 2018-12-21 06:23:58

Maja Petrović  
majadjogo@uns.ac.rs

**Title:** Monitoring and management of systems

**Level:** Master

**Lecture:**

Landfill gasses sampling and measuring techniques/ Sensors techniques in environmental monitoring programmes  
Groundwater sampling techniques and field measurements/ Groundwater monitoring: groundwater sampling technique, measuring of groundwater level

**Dates:** 21.12.2018.

**Number:** 4

**Link:**

<http://mdl.netchem.ac.rs/course/view.php?id=51>

**Comment:**