



Overview of courses material, reviewing process, quality of material (WP4)- where are we

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1. Movie or manual procedure in lab
2. Remote access - Live connection (in real time) between lab and classroom
3. Remote access with remote control of instrument



Partner	BSc	MSc	PhD	Review of materials	Type 1	Type 2	Type 3
University of Niš	1	10	8	18 materials ready for review 9 not ready 2 not clear 1 reviewed	15	9	6
University of Belgrade	-	4	2	3 materials ready 2 not ready 2 reviewed	1	1	4
University of Kragujevac	-	4	2	3 reviewed and approved 3 not reviewed	1	3	3
University of Novi Sad	-	6	4	5 ready for review 3 reviewed 2 not ready	7	10	2
University of Tirana	-	10	2	8 courses ready for review	6	9	1
Agricultural university of Tirana	-	5	-	Will be ready until 28 th September	4	1	-



Reviews -state of the art

- Communication is on-going, first round of reviews performed
- Coordinators get detailed and general comments, should have provided to all participating personnel
- First revised materials uploaded, and for them communication on-going at the moment for Novi Sad, and material received from University of Tirana
- **COORDINATORS TO CHECK WITH PARTICIPATING STAFF IF MATERIALS ARE FINAL AND GIVE SIGNALS TO IVANA IVANČEV-TUMBAS FOR ALL WHAT IS NOT REVIEWED AND WHAT HAS BEEN REVISED TO REMIND REVIEWERS TO START PROCESS.**
- **Do not forget your institutional approval**

Reviewers assigned for each course- coordinators should take care!

P1 – Univ. of Niš	P6 – Univ. of Belgrade	P7 – Univ. of Novi Sad	P8 – Univ. of Kragujevac	P9 – Agric. Univ. of Tirana	P10 – Univ. of Tirana
1. Eric Ezan CEA					
P1-2-Green Chemistry	P6-4-Remediation	P7-10-Green Chemistry and ionic liquids			P10-6-Biosensors
P1-14-Water treatment technologies and water disinfection (selected chapters)		P7-13-Monitoring and management of systems			
2. Francois Fenaille CEA					
P1-12-Kinetics and Catalysis		P7-1- Quality assurance in environmental laboratories		P9-1-Modern electrochemical and optical methods in analytical chemistry	P10-2-Atomic Spectroscopy
		P7-5-Forensic Chemistry			
3. Anna Warnet AQ					
P1-3- Chemodynamics of pollutants	P6-3-Human Health and Environment Risk Assessment	P7-9- Selected Topics in Environmental Analysis	P8-3-Kinetics and mechanism of the substitution reactions	P9-4-Sensory analysis of food	P10-5-Food preservations and conservations technology
P1-7- Remediation Technologies					
4. Jean-Claude TABET AQ					
P1-4- Chemistry of Water And Wastewaters		P7-3- Chromatographic Analysis of Food and Supplements	P8-4-Modern electrochemical and optical methods in analytical chemistry		P10-1-Electrochemical sensors and biosensors
P1-18- Selected chapters of environmental chemistry		P7-6- Methodology of instrumental analysis of water and air			
5. Natali Stojilković AQ					
P1-6- Chemistry of surface processes	P6-2-Environmental Monitoring	P7-11- Modern Instrumental Methods of Pollutants Analysis in the Environment		P9-5-Food toxicology	P10-4-Industry of Plant materials
P1-17- Surface active agents					
6. Annie Brossas UPMC					
P1-8- Humic substances in the environment		P7-4- Analysis of environmental protection systems	P8-2-Modern experimental methods in biochemistry	P9-3-Instrumental Analyses for Food Quality	P10-9-Wastewater treatment
P1-11-Molecular spectroscopy					
7. Milan Antonijević UoG					
P1-13-Vegetation of the World	P6-5-Fuels	P7-7-Environmental Quality Control (Advanced Course)	P8-1-Hazardous materials and hazardous waste management		P10-7-Quality assurance of analytical results
P1-16-Chemistry of textile materials and industrial colors.					
8. Andrew Mendham UoG					
P1-5- Water and wastewater treatment technologies	P6-6-Non-destructive Chemical Analysis - Selected Chapters	P7-8- Isolation and Characterization of Natural Products		P9-2- Food chemical analyses	P10-3-Toxicological chemistry
9. Josef Caslavsky BUT					
P1-1-Environmental Chemistry	P6-1-Organic Geochemistry and Petroleum Pollutants	P7-2- Analytics of Organic Pollutants			P10-8-Automatic methods of analyses
P1-9-Monitoring in environment		P7-12- High Education Didactics			



Reviews -formal letters are needed!

- Free form of writing
- Document should have clearly indicated title of material, type of material, author
- Comments: an indication whether it could be used as such or with major/minor modifications or without any modification.
- Is the repeated review necessary or it can be used with minor modifications?
- Reviewer's signature, date, place.
- This reviewer's document will be available at the NETCHEM web-site in pdf format, to be visible for EACEA.



Obtained reviews

Partner	Total number of courses	First review done for
University of Niš	19	3
University of Belgrade	6	2
University of Kragujevac	6	2
University of Novi Sad	10	2
University of Tirana	12	1
Agricultural university of Tirana	5	-

Is check list for reviewers developed? **We do not have reviews assigned for P10-12 and P10-10!**



Reviewers comments- detailed for each course

- Anna /Jean-Claude- almost done
- Josef - in work phase
- Andrew – in work phase

- Eric- communication started
- Fransoa-communication started
- Milan- communication started

- Annie- no reply for sent material
- Natali- still no communciation flow



Reviewers comments- feedback (M. Antonijević)

- General
 - Each presentation, educational element should have clear aims and outcomes attached to it so that students/learners know what the intention of the lecture/tutorial is as well as knowledge/skills that they should gain by the end of the lecture/tutorial
 - Clearly acknowledge any image, table, text that you borrowed from already published resources (respect copyrights)
 - Use presentations to their full power
 - Do not overload slides with text (MSc and PhD students need about 6 bullet points per page rather than full text)
 - Use the same font and size throughout the document
 - Make good use of images, movies and tables to explain phenomena
 - Avoid colourful presentations and please make sure that the background colour and the colour of the text make the presentations easily readable
 - Make sure that the presentations are interactive (MSc and PhD students should have basic knowledge so make sure that you lead them to think about advanced topics that you are presenting to them and engage them as much as it is needed/possible – adopt learning by doing and problem-based approach)
 - Provide information about valuable further reading/resources



- Scientific feedback

- Labs

- Provide clear/comprehensive/detailed guidance to what students need to do
 - Health and safety information to be included for chemicals and instruments used in labs
 - Respect the fundamental technical bases of the good practices of laboratory (GPL):
 - Lab coat, gloves, glasses, hair ties, no rings, no watch or nail varnish..closed shoes...
 - Use Hood if necessary (see the safety data sheet)
 - Including chemical pictograms in the protocol, if necessary read the safety data sheet that is always delivered with the chemical product and notify the risk and danger sentences



- Provided in that sheet
 - In the preparation of standards and assays,
 - do not take directly from the stock vial, always transfer an aliquot to a small test tube
 - use correctly the appropriate containers (volumetric flask,
 - Adjust volumetric flask to the pear after wiping the neck of the vial
 - mix without returning the vial over before adjusting...
 - Never pipet directly in a volumetric flask transfer the content
 - Use items correctly (automatic pipettes: vertically and not oblique (If not bubbles appear in the cone
 - Respect the GLP in
 - Titrimetric method: one assay rough, and 2 accurate
 - Spectrometric method: One blank, 2 assays
 - In AAS wipe the capillary between each suction



- Lectures

- Respect scientific language and scientific writing (use of correct units, number of decimal places etc.)
- Pay attention to the use of SI system of units in presentations
- Use current literature
- Latest research should be presented (use recent peer reviewed articles and with less emphasis on older books)



To discuss

- Copyrights- Contracts of each university to check, authorship is transferred to university!
- Access- students, authors to decide based on clear form- letter from University of Niš where clearly will be written what is the obligation of author and does he/she wants to open it just for consortium members or for you tube
- Questionnaire at the end of course should be developed
- What will end up in ICT catalogue?- Educational elements differ a little bit from final situation in courses. Do we need to correct them?? Or, just to include only courses that we develop



To do list for coordinators

- To check each material if it is reviewed and if it is needed to be reviewed again and react-send an e-mail to Ivana
- To check each material if it is complete with defined goals and outcomes for course, for each material/lectures
- To check if material exists in English and native (Serbian or Albanian) language
- To provide that IP info is transferred to each author immediately when it is developed by University of Niš and to ask and get answer on the level of openness of material from each author/University



Thank you for the cooperation