

# AMPELOGRAPHY AND VITICULTURAL GEOGRAPHY

(Technology and quality control of beverages, 1<sup>st</sup> Year of study, 2<sup>nd</sup> Semester)

**Credits (ECTS): 8**

**Course category: Core discipline**

**Course holder: Prof. Liliana ROTARU ,PhD**

## Objectives of the discipline:

- Acquisition, capitalization and deepening of the basic concepts in the field of ampelography and viticultural geography;
- Knowledge of wine regions and vineyards in Romania and worldwide;
- Existing interrelationships of the main components of the viticultural ecosystem, their use in the zoning of grapevine varieties;
- Evaluation of the agrobiological and technological potential of grapevine varieties, for table grapes and wine under the conditions of climate change, in order to complete the existing viticultural assortments with new grapevine varieties and clones.
- Knowledge of the main grape varieties grown in Romania and worldwide;
- Acquiring the principles underlying the choice and zoning of vine varieties;
- Application of the knowledge of ampelography and geography in the understanding of viticultural practices;
- Learning the ability to scientifically analyze the current problems of world viticulture.

## Contents (syllabus)

Course (chapters/subchapters)
1. Introduction to the notions of ampelography and elements of viticultural geography
2. The viticultural ecosystem, as an integral part of the biosphere
3. The main grape varieties for white wines
4. The main varieties for red wines
5. The elements used in the zoning of grapevine varieties
6. The wine-growing regions of Romania
7. The assortments of vineyards in Romania
8. Viticulture on the continent of Europe
9. Viticulture on the North American continent
10. Viticulture on the continent of South America
11. Viticulture on the continent of Australia
12. Viticulture on the continent of Asia
13. Viticulture on the continent of Africa

Practical activity
1. Recognition of the main grape varieties for white wines
2. Recognition of the main grape varieties for red wines
3. Practical applications regarding the calculation of the elements used in the zoning of vine varieties

4. Establishing the main ecopedoclimatic characteristics of the wine-growing regions in Romania
5. Analysis of the wine sector in Europe
6. Analysis of the wine sector in North America
7. Analysis of the wine sector in South America
8. Analysis of the Australian wine sector
9. Analysis of the wine sector in Asia
10. Analysis of the wine sector in Africa
11. Presentation of a report / essay on a given topic
12. Study visits to various vineyards

## Bibliography

- Alen Huetez de Lamps, 1993 - *Vignobles et vins d'Espagne*. Presses Universitaire, de Bordeaux
- Asper T., 2006 - *The wine atlas of Canada*. Edit. Random House, Toronto
- Bessis R., Desperrier M.J., Menant M.J., Sauvage D., 2005 - *Biodiversité de la vigne, localisation et accessibilité*. Bull., vol. 78/895-896, pp. 585-594, Paris
- Catarino S., Trancoso M. I., Madlira, M., Monteiro F., Bruno de Soursa R., Curvelo-Garcia S.A., 2011 - *Rare Earths Data for Geographical origin assignement of wine: A Portuguese case study*. Bull. O.I.V., vol. 84/965-967, pp. 233-244, Paris
- Colibaba Lucia Cintia, Bosoi Ionica, Pușcalău Mărioara, Luchian Camelia, Rotaru Liliana, Cotea V. Valeriu., 2023 - *Grape Technology vs. Climate Change: A Success Story or a Nightmare?* in *Grapes and Grape Products - Chemistry and Technology*, cordinateurs Prof. Fernanda Cosme, Prof. Fernando M. Nunes, Ph.D. Luís Filipe-Ribeiro, 24 pages, Intech Open Access Books, ISBN 978-0-85466-272-2,
- Colibaba Cintia, Luchian Camelia, Rotaru Liliana, 2024 - *Managementul sistemelor viticole ecologice* (ediție revizuită și adăugită), Editura PIM, Iași, ISBN 978-606-13-8100-5.
- Costa J. M., Vaz M., Escalona,J., Egipto R., Lopes,C., Medrano H. & Chaves M. M., 2016 - *Modern viticulture in southern Europe: Vulnerabilities and strategies for adaptation to water scarcity*. Agricultural Water Management, 164, pp. 5-18.
- Cotea D.V., Grigorescu C., Barbu N., Cotea V.V., 2000 - *Podgoriile și vinurile României*, Edit. Academiei, București
- Cotea V.V., Rotaru Liliana, Irimia L.M., Colibaba Cintia, Tudose Sandu-Ville S., 2008 - *The green house effect on the viticultural ecoclimat in northern Moldavia, Romania*. XXXI<sup>th</sup> – World Congres of Vine and Wine OIV, Verona, 15-20 june
- Dobrei A., Rotaru Liliana, Mustea M., 2005 - *Cultura viței de vie*. Editura “Solness”, Timișoara
- Galet P., 1988 - *Cepages et vignobles de France*, toml. I<sup>ere</sup>. Ed. Dehan, Montpellier, France
- Gregory V. Jones, Andrew-Duff A., Andrew Hall, Joseph-Myres W., 2010 - *Spatial analysis climate in winegrape growing regions in the Wester United States*, Am. Journal of Enol. And Vitic., no. 3, pp. 313-326
- Irimia L., Țârdea C., Rotaru Liliana, 2007 - *Research regarding the interdependence between the quantity and the quality of the yield, for the grapevine varieties grown in the Averești wine-growing centre - Huși vineyard*. Lucrări Științifice USAMV Iași, seria Horticultură, vol. 1 (50), p 509-514.
- Jones V. G., 2006 - *Climate change and wine: Observations, impacts and future implications*, Wine Industry Journal, vol. 21, no. 4
- Morlat René, 2010 - *Traité de viticulture de terroire*, Ed. Lavoiser, Tech./Doc., Paris
- Rochard J., 2005 - *Traité de viticulture et d'Oenologie durables*. Edit. Oenoplurimedia, France

- Rotaru Liliana, Jitareanu Carmenica Doina, Slabu Cristina, Cotea V. V., Mustea M., Marta Alina Elena, Colibaba Lucia Cintia, 2013 - *Adaptarea tehnologiilor viticole în contextul schimbărilor climatice*. Editura ”Ion Ionescu de la Brad”, Iasi
- Rotaru L., Colibaba C., 2022 – *Elemente de geografie viticolă*. Edit. ”Ion Ionescu de la Brad”, Iași.
- Teodorescu Șt., Popa A., Sandu Gh., 1987 - *Oenoclimatul României*, Ed. Științifică și Enciclopedică, București

### Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Final exam	Written / oral examination	80
Evaluation of the activity during the semester	Written and oral assessments during the semester	20

### Contact

Assoc. Prof. Lucia Cintia COLIBABA, PhD  
 Faculty of Horticulture, IULS  
 3 Mihail Sadoveanu Alley, Iasi, 700490, Romania  
 Tel: 0040232407440  
 E-mail: [cintia.colibaba@iuls.ro](mailto:cintia.colibaba@iuls.ro)