



ADMISSION TO DOCTORAL STUDIES

Session September 2023

Field of doctoral studies: FORESTRY

Doctoral supervisor: Bogdan Popa, PhD, Eng.

TOPICS FOR THE ADMISSION TO DOCTORAL STUDIES

TOPIC 1: Ecosystem services – evaluation, applicability, economic and environmental benefits

Content / Main aspects to be considered:

- *Functions of the forest ecosystems*
- *Forest ecosystem services identification*
- *The concept of total economic value*
- *Monetary evaluation of ecosystem services*
- *Payments for ecosystem services*

Recommended bibliography:

1. TEEB - The Economics of Ecosystems and Biodiversity 2010: *Mainstreaming the Economics of Nature: A synthesis of the approach, conclusions and recommendations of TEEB*. Progress Press, Malta, 36 p.
2. Popa B., Borz S.A., 2013: *Mecanisme de plăți pentru serviciile ecosistemice în România*, Ed. Lux Libris, Braşov, 117 p.
3. MA, 2005: *Ecosystems and human well-being. Synthesis. Millenium Ecosystem Assessment* Island Press, Washington. DC.
4. Machedon, I., 1996: *Funcțiile de protecție ale pădurilor – evaluare economică*. Editura Ceres, Bucureşti, pp. 7-11.
5. Dragoi M., Cîrnu M., 2016: *Plata serviciilor ecosistemice: context legal și metode consacrate de evaluare, cu aplicații la păduri*. Bucovina Forestieră, 16 (1): 95-106.
6. Costanza R., d'Arge R., de Groot R., Farber S., Grasso M., Hannon B., Limburg K., Naeem S., O'Neill R.V., Paruelo J., Raskin R.G., Sutton P., van den Belt M., 1997: *The value of the world's ecosystem services and natural capital*. Nature, 38: 253–260.
7. Bann C., Popa B., 2012: *An assessment of the contribution of ecosystems in protected areas to sector growth and human wellbeing in Romania*, United Nations Development Programme, Bucharest, 122 p.

8. Popa and Pache, 2016. Conceptul serviciilor ecosistemice – soluție pentru sprijinirea efortului de reglementare a sectorului silvic din România. *Revista pădurilor*, 3-4: 41-53

Prerequisites / Remarks: *N/A*

TOPIC 2: Prices and competition in timber markets. Case studies

Content / Main aspects to be considered:

- *Demand and supply along the supply chain for wood products*
- *Competition types on wood products markets, along the supply and value added chain*
- *Factors influencing wood products markets*

Recommended bibliography:

1. Giurăscu, CC., 1975. *Istoria Pădurii Românești*, Editura Ceres, București
2. Drăgoi, M., 2000. *Economie Forestieră*, Editura Economică, București
3. Antonoaie, N., 2015. *Managementul forestier în România. În Contribuții la conturarea unui model românesc de management*, Ed. Ion Petrescu, Editura Expert, București
4. Robinson Gregory, G., 1987. *Resource Economics for Foresters*. Yohn Willwy & Sons, New York
5. Milesu, I., 2002. *Economie forestieră*. Ed. Crai Nou, Suceava
6. Chandrasekharan Behr D., Popa B., Mitchell A. (2014) *Romania - Forest Sector Rapid Assessment*, The World Bank, Washington DC, 59p
7. Talpă, N., Lozan, A., Hălălișan, A.F., **Popa, B.** (2022). Forest Dependence of Rural Communities in the Republic of Moldova. *Forests*. 13, 6. 10.3390/f13060954.

Prerequisites / Remarks: *N/A*

TOPIC 3: Forest sector legislation: elaboration, evolution, perceptions, enforcement

Content / Main aspects to be considered:

- *Stakeholders' perception regarding the sectoral regulatory framework*
- *Effectiveness of sectoral regulations enforcement*
- *Institutional framework for forest sector*

Recommended bibliography:

1. Rădulescu, D.M., Duță, O., 2013. *Introducere în studiul dreptului și statului*, Curs universitar, Ed. Universitară, București.
2. Humă, I., 1993. *Teoria generală a dreptului*. Ed. Chemarea, Iași.
3. Acharya, K.; Talpă, N.; Hălălișan, A.F.; **Popa, B.** (2022) The Way Forward for Community Forestry in Nepal: Analysis of Performance against National Forestry Goals. *Forests*, 13, 726. doi: [10.3390/f13050726](https://doi.org/10.3390/f13050726)
4. Talpă, N., Hălălișan, A.F., **Popa, B.** (2021) Analysis of State Forest Institutions in the Republic of Moldova, Using a Causative Model. *Forests* 12 -105.

5. Negru, C., Gaibor, I.D., Hălălișan, A.-F., **Popa, B.** (2020). Management Effectiveness Assessment for Ecuador's National Parks. *Diversity* 12 -487.
6. **Popa, B.**, Niță, M.D., Hălălișan, A.F., 2019. Intentions to engage in forest law enforcement in Romania: An application of the theory of planned behavior. *Forest Policy and Economics*, 100, pp.33-43.

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Coordinator of the doctoral field

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