



## 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, Brașov, 117 p.
3. MA, 2005: *Ecosystems and human well-being. Synthesis. Millennium Ecosystem Assessment* Island Press, Washington. DC.
4. Machedon, I., 1996: *Funcțiile de protecție ale pădurilor – evaluare economică*. Editura Ceres, București, 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. John Wiley & 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*

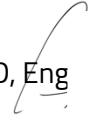
### **Recommended bibliography:**

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.**, Nită, 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.

**PhD supervisor:**

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**Coordinator of the doctoral field**

Ovidiu Ionescu, PhD, Eng.

