



## ADMISSION TO DOCTORAL STUDIES Session September 2022

**Field of doctoral studies: Silviculture**

**Doctoral supervisor: Prof.Dr. Eng. Bogdan POPA**

### TOPICS FOR THE ADMISSION TO DOCTORAL STUDIES

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

#### **Content**

- 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:** NA

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

**Content**

- 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. Milescu, 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

**Prerequisites / Remarks:** NA

Doctoral supervisor,

Prof. Dr. Eng. Bogdan Popa

Signature 

Coordinator of the field of doctoral studies,

Prof. Dr. Eng. Ovidiu Ionescu

Signature 