



ADMISSION TO DOCTORAL STUDIES

Session September 2022

Field of doctoral studies: Silviculture

Doctoral supervisor: Prof.Dr.Eng. Ovidiu Ionescu

TOPICS FOR THE ADMISSION TO DOCTORAL STUDIES

TOPIC 1: *Assessing the mortality risk of wildlife species in vehicle collisions and the zonation of the important road sectors to mitigate the negative influence on wildlife and its management*

Content / Main aspects to be considered - *to be adapted/ completed/ deleted*

Accidents monitoring from the national road 1 (Predeal-Perşani area)

Wildlife monitoring involved in vehicle collisions

Mortality risk assessment of the wildlife following the collisions

Assessing the habitat fragmentation from the study area and the impact of the linear infrastructure on wildlife

Zonation of the dangerous road sectors

Wildlife management measures recommendations

Recommended bibliography:

1. Comşia, A.M. (1961). *Biologia și principiile culturii vânatului*, Editura Academiei Republicii Populare Române
2. Fedorca, A., Popa, M., Jurj, R., Ionescu, G., Ionescu, O. & Fedorca, M. (2020). Assessing the regional landscape connectivity for multispecies to coordinate on-the-ground needs for mitigating linear infrastructure impact in Brasov-Prahova region. *Journal for Nature Conservation*, 58, 1617-1381. <https://doi.org/10.1016/j.jnc.2020.125903>
3. Fedorca, A., Fedorca, M., Ionescu, O., Jurj, R., Ionescu, G. & Popa, M. (2021). Sustainable Landscape Planning to Mitigate Wildlife-Vehicle Collisions. *Land*, 10 (7), 737. <https://doi.org/10.3390/land10070737>
4. Micu, I., 1998, *Etologie*, Editura Transilvania Braşov
5. Porter, W.F., Parent, C. J., Stewart, R. A., Williams, D. M. (2021). *Wildlife Management and Landscapes. Principles and Applications*, Johns Hopkins University Press, Baltimore, Maryland
6. Taylor, P.D., Fahrig, L., Henein, K. & Merriam, G. (1993). Connectivity is a vital element of landscape structure, *OIKOS*, 68, 571-573

7. Zeller, K.A., McGarigal, K. & Whiteley, A.R. (2012). Estimating landscape resistance to movement: a review. *Landscape Ecology*, 27, 777–797. <https://doi.org/10.1007/s10980-012-9737-0>
8. Zlatanova, D., Popova, E., Ahmed, A., Stepanov, I., Andreev R. & Genov, P. (2019). Red deer on the mover: home range size and mobility in Bulgaria. *Ecologica Montenegrina*, 23. <https://doi.org/10.37828/em.2019.23.7>

Prerequisites / Remarks: *to be adapted/ completed/ deleted*

TOPIC 2: *suggested title*

Content / Main aspects to be considered - *to be adapted/ completed/ deleted*

Recommended bibliography:

Prerequisites / Remarks: *to be adapted/ completed/ deleted*

Doctoral supervisor,

Prof. Dr. Eng. Ovidiu Ionescu

Signature



Coordinator of the field of doctoral studies,

Prof. Dr. Eng. Ovidiu Ionescu

Signature

