



ADMISSION TO DOCTORAL STUDIES Session September 2022

Field of doctoral studies: Silviculture

Doctoral supervisor: Prof.dr.M.Sc.Eng. Valeriu-Norocel Nicolescu

TOPICS FOR THE ADMISSION TO DOCTORAL STUDIES

TOPIC 1: *Regeneration of pedunculate oak (Quercus robur L.) in Oltenia Plain: Techniques, dynamics, challenges and opportunities*

Content

1. Introduction
2. State-of-the-art on pedunculate oak regeneration in Europe and in Romania
3. Location of research and research method
3. Research results:
 - 3.1. Tehniques applied for the regeneration of pedunculate oak in Oltenia Plain
 - 3.2. Dynamics of regeneration of pure and mixed pedunculate oak stands in Oltenia Plain
 - 3.3. Challenges and opportunities for the regeneration of pedunculate oak in Oltenia Plain
4. Conclusions
5. Recommendations and personal contributions to the background of pedunculate oak regeneration in the studied area
6. Bibliography

Recommended bibliography:

- Badea, M., 1974. Ajutorarea regenerării naturale a arboretelor. Editura Ceres, Bucureşti.
Constantinescu, N., 1973. Regenerarea arboretelor. Ediția a II-a. Editura Ceres, Bucureşti.
Florescu, I.I., 1991: Tratamente silviculturale. Editura Ceres, Bucureşti.
Nicolescu, V.N., 2016. Silvicultură. II Silvotehnică. Editura Aldus, Braşov.

Prerequisites / Remarks: It is not the case

TOPIC 2: *Early silviculture of sessile oak (Quercus petraea (Matt.) Liebl.) stands in Romania - traditional and new silvicultural approaches*

Content

1. Introduction
2. Silviculture of young sessile oak stands: state-of-the-art
3. Location of research and research method
4. Results of research on silvicultural models applied in young sessile oak stands
5. Discussions

6. Conclusions

7. Recommendations and personal contributions to the issue of silviculture of young sessile oak stands

8. Bibliography

Recommended bibliography:

Constantinescu, N., 1976. Conducerea arboretelor. Vol. I. Editura Ceres, București.

Nicolescu, N.V., 2001. The concept of crop (elite) trees and its use in the management of stands designated to the production of high-value timber. Bulletin of the Transilvania University of Brașov 8 (43):141-148.

Nicolescu, V.N., 2009. Silvicultură. I. Biologia pădurii. Editura Aldus, Brașov.

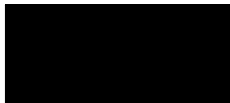
Nicolescu, V.N., 2016. Silvicultură. II Silvotehnică. Editura Aldus, Brașov.

Prerequisites / Remarks: It is not the case

Doctoral supervisor,

Prof.Dr.M.Sc.Eng. Valeriu-Norocel Nicolescu

Signature



Coordinator of the field of doctoral studies,

Prof.Dr.Eng. Ovidiu Ionescu

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