

UNIVERSITY OF ORADEA
FACULTY OF ENVIRONMENTAL PROTECTION
DEPARTMENT OF AGRICULTURE AND HORTICULTURE

TOPICS AND BIBLIOGRAPHY FOR THE COMPETITION

For Position No. 8 in the Staffing Chart of the Department of Agriculture, Horticulture for the Academic Year 2024–2025

GRASSLAND AND FORAGE CROPS I – Lectures

1. Grassland as an ecosystem. General characteristics of grassland ecosystems
2. Vegetation of permanent grasslands. Morphology and biology of grasses in grasslands
3. Morphology and biology of perennial legumes in grasslands
4. Morphology and biology of species from other botanical families present in the grassland sward
5. Typology of grasslands in Romania

BIBLIOGRAPHY

1. Samuil, C., Vintu V., Stavarache M., 2019, *Forage Production and Conservation*, Ion Ionescu de la Brad Publishing House, Iași, ISBN 978-973-147-317-8
2. Dumitrescu N., Vintu V., Samuil C., Iacob T., 2014, *Improvement of Degraded Grasslands in the Silvesteppe Zone*, Ion Ionescu de la Brad Publishing House, Iași, ISBN 978-973-147-148-8
3. Iacob T., Dumitrescu N., Vintu V., Samuil C., 2014, *Halophilous Grasslands – Characterization and Improvement*, Ion Ionescu de la Brad Publishing House, Iași, ISBN 978-973-147-146-4
4. Iacob T., Vintu V., Samuil C., Dumitrescu N., 2015, *Grasslands – Characterization, Improvement, Use*, Ion Ionescu de la Brad Publishing House, Iași, ISBN 978-973-147-163-1
5. Iacob T., Vintu V., Samuil C., 2015, *Forage Plants – Cultivation Technologies*, Ion Ionescu de la Brad Publishing House, Iași, ISBN 978-973-147-189-1, 166 pages
Barbulescu C., Gh. Motca, I. Puia, Al. Moisuc, 1991, *Grassland and Forage Plant Cultivation*, Didactic and Pedagogical Publishing House, Bucharest
6. Frame, J., Laidlaw, A.S., 2011, *Improved Grassland Management*, New edition, The Crowood Press, Great Britain
7. Cojocariu, L.; Copacean, L.; Popescu, C., 2019, *Conservation of Grassland Habitat Biodiversity in the Context of Sustainable Development in Romania's Mountain Areas*, Applied Ecology and Environmental Research, Vol. 17, pp. 8877–8894, [PDF link](#)
8. Cojocariu Luminita, Loredana Copacean, Cosmin Popescu, Despina-Maria Bordean, 2017, *Normalized Difference Vegetation Index in “Vertical” Analysis of Grasslands*, SGEM 2017,

9. Cojocariu Luminița, 2005, *Forage Production*, Solness Publishing House
10. Păcurar Florin, 2020, *Indicator Species – For Evaluation and Management of High Nature Value Systems*, Casa Cărții de Știință, ISBN 978-606-17-1621-0
11. Păcurar Florin, I. Rotar, 2014, *Methods for Studying and Interpreting Grassland Vegetation*, Risoprint, Cluj-Napoca, ISBN 978-973-53-1452-1
12. Vârban R., Florin Păcurar, 2011, *Dictionary of Botany, Grassland Science, and Agroecology*, Risoprint, Cluj-Napoca, ISBN 978-973-53-0666-3
13. Păcurar F. & Rotar I., 2015, *Ecopratology – Course*, AcademicPres, Cluj-Napoca, ISBN 978-973-744-416-5
14. Motca Gh., I. Oancea, Lidia-Ivona Geamanu, 1994, *Romania's Grasslands*, Technical Agricultural Publishing House, Bucharest
15. Marușca T., et al., 2010, *Guide for Organic Forage Production on Mountain Grasslands*, Transilvania University Publishing House, Brașov
16. Rotar I., L. Carlier, 2005, *Grassland Cultivation*, Risoprint, Cluj-Napoca
17. Vantu V., A. Moisuc, Gh. Motca, I. Rotar, 2004, *Grassland and Forage Plant Cultivation*, Ion Ionescu de la Brad Publishing House

GRASSLAND AND FORAGE CROPS I – Practical Works

1. Recognition characteristics of species from the Poaceae (Gramineae) family
2. Recognition characteristics of species from the Fabaceae (Leguminosae) family
3. Identification of forage plants from other botanical families
4. Identification of annual forage plants from other botanical families

BIBLIOGRAPHY

1. Păcurar F. & Rotar I., 2015, *Ecopratology – Practical Work Guide*, Risoprint, Cluj-Napoca, ISBN 978-973-53-1705-8
2. Păcurar Florin, Ioan Rotar, 2021, *Environmental Factors Investigation*, Cluj-Napoca, ISBN 978-973-744-904-7
3. Păcurar Florin, Ioana Vaida, 2020, *Practical Work Guide – Environmental Factors Investigation*, AcademicPress, ISBN 978-973-744-814-9
4. Păcurar Florin, Ioan Rotar, 2015, *Ecopratology*, AcademicPres, Cluj-Napoca, ISBN 978-973-744-416-5
5. Păcurar Florin, Ioan Rotar, 2015, *Practical Work Guide – Ecopratology*, Risoprint, ISBN 978-973-53-1705-8

6. Erdelyi St., I. Rotar, Alina-Ştefania Suteu, 1994, *Practical Work Guide in Forage Production and Conservation Technology*, Tipo Agronomia, Cluj-Napoca
7. Rotaru, Eugenia Chirca, 1995, *Grassland and Forage Plant Cultivation – Practical Work Guide*, Tipo Agronomia, Cluj-Napoca
8. Păcurar F. & Rotar I., 2015, *Ecopratology – Practical Work Guide*, Risoprint, ISBN 978-973-53-1705-8

GRASSLAND AND FORAGE CROPS II – Lectures

1. Maintenance of permanent grasslands. Improving the nutritional regime of grasslands
2. Regeneration of the grass sward in permanent grasslands
3. Sown grasslands established on degraded permanent grasslands
4. Establishment of sown grasslands on arable land
5. Grassland exploitation methods

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1. Samuil, C., Vintu V., Stavarache M., 2019, *Forage Production and Conservation*, Ion Ionescu de la Brad Publishing House, Iaşi, ISBN 978-973-147-317-8
2. Dumitrescu N., Vintu V., Samuil C., Iacob T., 2014, *Improvement of Degraded Grasslands in the Silvesteppe Zone*, Ion Ionescu de la Brad Publishing House, Iaşi, ISBN 978-973-147-148-8
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8. Cojocariu Luminita, Loredana Copacean, Cosmin Popescu, Despina-Maria Bordean, 2017, *Normalized Difference Vegetation Index in “Vertical” Analysis of Grasslands*, SGEM 2017, Cartography and GIS Section, ISBN 978-619-7408-03-4, ISSN 1314-2704, DOI:10.5593/sgem2017/23/S11.078

9. Cojocariu Luminița, 2005, *Forage Production*, Solness Publishing House
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16. Rotar I., L. Carlier, 2005, *Grassland Cultivation*, Risoprint, Cluj-Napoca
17. Vantu V., A. Moisuc, Gh. Motca, I. Rotar, 2004, *Grassland and Forage Plant Cultivation*, Ion Ionescu de la Brad Publishing House

GRASSLAND AND FORAGE CROPS II – Practical Works

1. Methods for qualitative analysis of grassland vegetation
2. Methods for quantitative analysis of grassland vegetation
3. Designing grass seed mixtures for temporary grassland establishment
4. Determining grassland production and grazing capacity

BIBLIOGRAPHY

1. Păcurar F. & Rotar I., 2015, *Ecopratology – Practical Work Guide*, Risoprint, Cluj-Napoca, ISBN 978-973-53-1705-8
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