Topics and References

for the position No. 2 from Staff Establishment of the Department of Animal Husbandry and Agrotourism for the year 2023 - 2024

Biophysics and Agrometeorology - course

- 1. Fluid statics. Water in horticultural organisms.
- 2. The interaction of ionizing radiation with horticultural systems.
- 3. Atmospheric precipitation. Risk aspects. The role of rainfall in horticulture
- 4. Plant growth and development in correlation with meteorological phenomena
- 5. Climate change; Vulnerability of horticultural systems to climate change.

References

- 1. P.T. Frangopol, Biophysics-Current Issues, Edimpex-Speranta Publishing House, Bucharest, 1992.
- 2. A.I. Popescu, Fundamentals of Medical Biophysics, All Publishing House, Bucharest, 2001.
- 3. D.G.Mărgineanu, M.I. Isac, C. Tarba, Biophysics, Ed. Didactică Pedagogică, Bucharest 1980.
- 4. Anca Dumitrescu Communication of the risk for health generated by the environment, Ed. Of the Institute of Public Health Bucharest, 2000
- 5. G. Cristea, Biophysics with medical orientation, vol.I., ISBN: 973-664-111-2, Univ. Vasile Goldiş, Arad, 2005.
- 6. Daniela Ciorba, Environmental Biophysics, Cluj-Napoca, EFES, 2008.
- 7. H. Criveanu, Physics Practical works, Rizoprint Publishing House, Cluj-Napoca, 2001
- 8. Georgeta Țarălungă, Biophysics and meteorology-Course, Ed. Todesco, Cluj-Napoca, 2003
- 9. H.Criveanu, Classical and modern agrometeorology, Digital Data Publishing House, Cluj-Napoca, 2004
- 10. H.Criveanu, Georgeta Taralunga, Elements of physics and meteorology applied to biosystems, Ed. Digital Data, 2004

Biophysics and Agrometeorology - practical works

- 1. The interaction of ionizing radiation with horticultural systems. Determination of half-thickness.
- 2. Measurement of solar radiation. Radiative balance.
- 3. Determining the relative humidity of the air. Horizontal and vertical angle measurement
- 4. Hygrometric sizes. Evaporation and evapotranspiration
- 5. Electricity of the atmosphere.

References

- 1. H., Criveanu Agrometeorology, Practical works Ed. Todesco, Cluj-Napoca, 2001
- 2. H.,Criveanu Georgeta Taralunga, Elements of physics and meteorology applied to biosystems, Ed. Digital Data, 2004
- 3. A., Teusdea Practical works of biophysics, University of Oradea Publishing House, 2011
- 4. L., Enache "Agrometeorology", USAMV Publishing House, Bucharest, 2009.
- 5. H., Criveanu "Agricultural Biophysics", Ed. Digital Data, 2006.
- 6. Oancea Servilia "Practical works of physics and biophysics", Ed. PIM, Iași, 2009

Biophysics and Agrometeorology - course

- 1. Fluid statics. Water in agricultural bodies.
- 2. The interaction of ionizing radiation with agricultural systems.
- 3. Atmospheric precipitation. Risk aspects. The role of rainfall in agriculture
- 4. Plant growth and development in correlation with meteorological phenomena
- 5. Climate change; Vulnerability of agricultural systems to climate change.

References

- 1. P.T. Frangopol, Biophysics-Current Issues, Edimpex-Speranta Publishing House, Bucharest, 1992.
- 2. A.I. Popescu, Fundamentals of Medical Biophysics, All Publishing House, Bucharest, 2001.
- 3. D.G.Mărgineanu, M.I. Isac, C. Tarba, Biophysics, Ed. Didactică Pedagogică, Bucharest 1980.
- 4. Anca Dumitrescu Communication of the risk for health generated by the environment, Ed. Of the Institute of Public Health Bucharest, 2000
- 5. G. Cristea, Biophysics with medical orientation, vol.I., ISBN: 973-664-111-2, Univ. Vasile Goldiş, Arad, 2005.
- 6. Daniela Ciorba, Environmental Biophysics, Cluj-Napoca, EFES, 2008.
- 7. H. Criveanu, Physics Practical works, Rizoprint Publishing House, Cluj-Napoca, 2001
- 8. Georgeta Țarălungă, Biophysics and meteorology-Course, Ed. Todesco, Cluj-Napoca, 2003
- 9. H.Criveanu, Classical and modern agrometeorology, Digital Data Publishing House, Cluj-Napoca, 2004
- 10. H.Criveanu, Georgeta Taralunga, Elements of physics and meteorology applied to biosystems, Ed. Digital Data, 2004

Biophysics and Agrometeorology - practical works

- 1. The interaction of ionizing radiation with horticultural systems. Determination of half-thickness.
- 2. Measurement of solar radiation. Radiative balance.
- 3. Determining the relative humidity of the air. Horizontal and vertical angle measurement
- 4. Hygrometric sizes. Evaporation and evapotranspiration
- 5. Electricity of the atmosphere.

References

- 1. H., Criveanu Agrometeorology, Practical works Ed. Todesco, Cluj-Napoca, 2001
- 2. H.,Criveanu Georgeta Taralunga, Elements of physics and meteorology applied to biosystems, Ed. Digital Data, 2004
- 3. A., Teusdea Practical works of biophysics, University of Oradea Publishing House, 2011
- 4. L., Enache "Agrometeorology", USAMV Publishing House, Bucharest, 2009.
- 5. H., Criveanu "Agricultural Biophysics", Ed. Digital Data, 2006.
- 6. Oancea Servilia "Practical works of physics and biophysics", Ed. PIM, Iași, 2009

Ecology and Environmental Protection - course

- 1. The structure and structural indices of the biocenosis
- 2. The living environment of the population Physical factors
- 3. The relationship between the environment and production activities
- 4. Local effects of environmental pollution generated by zootechnical activities
- 5. The global effects of environmental pollution generated by animal husbandry; Vulnerability and adaptability of animal husbandry to climate change

References

- 1. Anca Dumitrescu Communication of the risk for health generated by the environment, Ed. Of the Institute of Public Health Bucharest, 2000
- 2. Băbeanu Narcisa, 2008 Ecology and Environmental Protection Dominor Publishing House, Bucharest

- 3. Barnea, M. and Papadapol, C. 1975. Pollution and environmental protection. Scientific and Encyclopedic Publishing House. Bucharest.
- 4. Berca, M. 2000. General ecology and environmental protection. Ceres Publishing House. Bucharest.
- 5. Botnariuc, N. and Vădineanu, V. 1982. Ecology. Didactic and Pedagogical Ed. Bucharest.
- 6. Ciolac, A. 2004. Fundamental elements of ecology and environmental protection. Didactic and Pedagogical Ed. Bucharest.
- 7. Criveanu H., Georgeta Taralunga, Elements of physics and meteorology applied to biosystems, Ed. Digital Data, 2004
- 8. Georgescu Bogdan Ecology and environmental protection, RISOPRINT Cluj-Napoca Publishing House, 2006
- 9. Holton J.R., Introduction to Dynamic Meteorology, Technical Publishing House, Bucharest, 1996
- 10. Ionescu, Al. 1973. The biological effects of environmental pollution. Ed. Of the Academy of the Socialist Republic of Romania. Bucharest.
- 11. Iozon, Doina. 1996. Course in Ecology and Environmental Protection. Typography Agronomy. Cluj-Napoca.
- 12. Mintaș Olimpia The atmosphere is unknown ?, Agora University Publishing House, 2010
- 13. Mohan, Gh., Ardelean, A. 1993. Ecology and Environmental Protection.Ed. Scaiul. Bucharest.
- 14. Muntean, L.S., Ştirban, M.S. 1995. Ecology, Agrosystems and Environmental Protection. Ed. Dacia. Cluj-Napoca.
- 15. Neacşu, P., 1984. General ecology. Multiplication Center of the University of Bucharest.
- 16. Resmeriță, I. 1983. Dynamic conservation of nature. Scientific and encyclopedic ed. Bucharest.
- 17. Red, Al. 1987. Earth the geosystem of life. Scientific and Encyclopedic Publishing House. Bucharest.
- 18. Şchiopu D., Vîntu V., 2002 Ecology and environmental protection, Ed. I.I. from Brad, Iasi.
- 19. Vîntu V., 2000 Ecology and environmental protection. Ed. "Ion Ionescu de la Brad" Iasi
- 20. Non-paper Guidelines for Project Managers: Making vulnerable investments climate resilient

Ecology and Environmental Protection - practical works

- 1. Methods of monitoring fish
- 2. Animal nutrition in the ecological breeding system
- 3. Environmental assessment for agro-zootechnical plans and programs
- 4. Assessment of the impact of zootechnical activities on the environment
- 5. Integrated environmental monitoring in animal husbandry

References

- 1. H.Criveanu, Georgeta Taralunga, Elements of physics and meteorology applied to biosystems, Ed. Digital Data, 2004
- 2.Olimpia Mintas, Biofizica, Indrumar de laborator, Oradea, 2010
- 3.A.Teusdea Lucrari practice de biofizica, Ed. Universitatii din Oradea, 2011
- 4.Olimpia Mintas Agrometeorologie, Indrumar de laborator, Oradea, 2010
- 5.Maria Zapartan,Olimpia Mintas-Lucrari practice in meteorologia Agricola si Silvica,Ed.Academic Press,2003

Head of Department, Lecturer eng. Dodu Monica Angelica, PhD