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| Module designation |  *Agroclimatology* |
| Module level, if applicable |  *Bachelor* |
| Code, if applicable |  *PNT20192105* |
| Subtitle, if applicable |  |
| Courses, if applicable | 1. *Introduction Of The Atmosphere*
2. *Hydrometeorology*
3. *Air & Wind Pressure*
4. *Weather And Climate Measurement*
5. *Global Warming And Climate Variability*
6. *Weather And Climate Data Analysis*
7. *Climate As Agricultural Resources*
8. *Agricultural Climate And Productivity*
9. *Climate, Soil & Water Availability*
10. *Climate & Plant Pests*
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| Semester(s) in which the module is taught |  *Uneven* |
| Person responsible for the module | *Dr. Ir. Rachmad Gunadi, M.Si.* |
| Lecturer | *Dr. Ir. Rachmad Gunadi, M.Si.**Dr. Ir. Mulyono NItisapto, M.Si.**Dr. Makruf Nurudin, S.P., M.P.**Nur Ainun Harlin Jenie Pulungan, S.Si., M.Sc., Ph.D.**Andi Syahid Muttaqin, S.Si., M.Si.**Imas Masithoh Devangsari, S.P., M.Sc.**Patria Novita Kusumawardani, S.P., M.Sc.**Fathi Alfinurizqi, S.T.P., M.Sc.**Dr. Bayu Dwi Apri Nugroho, S. T. P., M. Sc.**Prof. Junun Sartohadi, M. Sc.* |
| Language |  *Bahasa/Indonesian language* |
| Relation to curriculum |  *Compulsory* |
| Type of teaching, contact hours | *Lecture, practical, presentation* |
| Workload | *2/1 SKS or 3,02/1,51 ECTS* |
| Credit points |   |
| Requirements according to the examination regulations | *Presence must be 70% of all meetings**Has to accomplished all the assignments* |
| Recommended prerequisites | *-* |
| Module objectives/intended learning outcomes | *Students can know and understand climate as a system and know the elements and factors of climate and weather control**Students understand the relationship between the elements in the formation of climate types and classifications, and the relationship between climate, plants and disturbing organisms and their impact on plants.**Students understand the importance of conserving climate and various climate disorders and anomalies as well as methods for dealing with climate abnormalities and anomalies**Students have the skills and abilities to analyze the presence of climate or weather anomalies in the field as well as methods to manage and anticipate them.**Students have additional skills in information technology such as searching for and presenting the latest information on climate and weather.* |
| Content | 1. *Introduction*
2. *The atmosphere*
3. *Hydrometeorology*
4. *Air & Wind Pressure*
5. *Measurement of Weather and Climate*
6. *Global Warming and Climate Variability*
7. *Analysis of Weather and Climate Data*
8. *Climate as an Agricultural Resource*
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| Study and examinationrequirements and forms of examination |  *Assesment Presentasi/UTS/UAS* |
| Media employed |  *Text, Presentation, Visual & Audio Web.* |
| Reading list | *1. Bruce, J.P. and R. H. Clark. 1966. Introduction to Hydrometeorology**2. Champeney, D.C, 1985, Fourier Transforms In Physic**3. Critchfield, H.J. 2011. General Climatology.**4. Grifiths, J.F. 1976. Aplied Climatology.**5. Jen–Hu Chang. 2017. Climate & Agriculture.**6. Kaimal, J.C. 1994 and J.J. Finnigan, Boundary Layer Flows: Their Structure and Measurement.**7. Luis Garcia-Carreras, L., and M.S. Boori, 2019. Hydrometeorology**8. Harrison, G.2015, Meteorological Measurements and Instrumentation (Advancing Weather and Climate Science)* *9. Monteith, J.L. and M.H. Unsworth. 2007. Principal of environmental physics.**10. Oldeman, L.R. 1975 An Agro-Climatic map of Java**11. Rose, D.A. and D.A. Charles-Edwards, 1981. Mathematics and Plant Physiology.**12. Schmidt, F.H. & J.H.A. Ferguson. 1951. Rainfall types Based on wet a dry period ratios for Indonesia with western new Guinee.**13. Soekardi W. dkk. 1981. Asas-asas Meteorologi Pertanian.**14. Ter Braak, C.J.F, and I.C. Prentince, 2004. A Theory of Gradient Analysis**15. Trewartha, G.T. 1980. An Introduction to Climate**16. Woodward, F.I., 1987. Climate and Plant Distribution* |