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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* |
| 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* |
| Study and examination  requirements 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* |