

Description of Intended Learning Outcomes (ILO) Master Program of Forestry (MPF) Regular Program

Knowledge and Understanding

ILO-1 : Applying scientific ethics, norms, and values of professionalism

Engineering Analysis

ILO-2 : Mastering specialized knowledge, skills and techniques in the field of forestry and tropical environment and being able to develop innovative theories, models and methods in their field.

Investigation

ILO-3 : Able to analyze current problems and issues, and assess the ecological, social, and economic impacts of implementing programs in the forestry and tropical environmental sectors.

Engineering Design and Practice

ILO-4 : Develop research schemes based on inter or multidisciplinary approaches to tropical forestry and the environment, and communicate the results to the public.

Social Competences

ILO-5 : Lead, work in a team, and be responsible for achieving group work results.

Relationship between Intended Learning Outcomes (ILO) and Courses at the Master Program of Forestry (MPF) Regular Program

Code of Course	Course Name	Intended Learning Outcomes (ILO)				
		ILO1	ILO2	ILO3	ILO4	ILO5
COMPULSORY COURSES						
190401802W005	Philosophy of Science	3	-	3	2	2
190401802W006	Research Methodology and Scientific Publication	3	2	1	3	-
190401802W009	Forest Resource Economics and Finance	2	2	3	-	2
190401802W008	Silviculture of Tropical Forest	2	2	3	-	2
190401802W010	Trends in Forest and Nature Conservation	2	3	3	-	-
190401802W007	Advance on Processing of Forest Product	2	3	3	-	-
Studi interest in Forest Management						
190401802P030	Measurement and Improvement Forest Stand Quality	-	3	2	2	2
190401802P031	On-site Forest Planning and Inventory	-	3	2	2	3
190401802P032	Low Emission Harvesting	-	3	3	2	-
Study interest in Tropical Silviculture						
190401802P020	Forest Protection in Tropical Rainforest	-	3	3	2	-
190401802P021	Formulation of Silvicultural System	-	3	3	2	2
190401802P022	Evaluation of Land Productivity and Suitability	-	3	3	2	3
Study interest in Forest Resources Conservation and Ecotourism						
190401802P011	Conservation, Environment and Forestry	-	2	3	-	3
190401802P012	Ecology of Specific Ecosystems	-	3	2	3	-
190401802P013	Wild Animals Management	-	3	3	2	2
Study interest in Forest Product Technology						
190401802P040	Improvement of Wood Quality	-	3	2	2	2
190401802P041	Fiber Processing and Renewable Energy	-	3	2	3	-
190401802P042	Technology of Extractive	-	3	2	3	-
190401801W050	Research Proposal Qualification	3	2	2	3	-
190401801W051	Research Proposal Seminar	2	2	2	3	-
250401801W002	National Seminar	1	2	2	2	2

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190401801W052	Research Result Seminar	2	3	3	2	-
190401801W053	Scientific Publication [Indexed National Publication (Sinta 1-4)/Indexed International proceeding (Q3-Q4)]	3	2	2	3	2
250401801W003	Thesis Exam and Comprehensive	-	2	3	-	-
190401801W054	Thesis/Reputable International Publication (Q1-Q2)/Student Project	3	3	3	-	-
ELECTIVE COURSES						
Studi interest in Forest Management						
190401802P033	Forest Spatial Analysis	-	3	3	3	-
190401802P034	Landscape Analysis	-	3	3	2	-
190401802P035	Forest Sociology	-	2	3	3	2
190401802P036	Forest and Environmental Economics	2	2	3	2	-
190401802P037	Forest Policy	2	2	3	2	-
190401802P038	Social Forestry	2	2	3	-	3
190401802P039	Timber Legality and Verification Systems	3	2	3	-	-
Study interest in Tropical Silviculture						
190401802P023	Silviculture of Urban Forest	2	2	3	-	2
190401802P024	Advance on Agroforestry	2	3	3	-	2
190401802P025	Silvofishery	2	3	3	-	2
190401802P026	Insect Biodiversity and The Utilization	-	3	2	3	-
190401802P027	Fertilization and Soil Fertility	-	3	2	3	-
190401802P028	Advanced on Climate Change	-	2	3	3	-
190401802P029	Advance on Biochar	-	3	2	3	-
Study interest in Forest Resources Conservation and Ecotourism						
190401802P014	Integrated Watershed Management	2	3	3	-	2
190401802P015	Environmental Microclimatology	-	2	3	3	-
190401802P016	Computing and Programming Environment Databases	-	3	2	3	-
190401802P017	Conservation Engineering and Land Capability Evaluation	1	3	3	2	-
190401802P018	Tourism Target-area Plan and Management	-	3	3	2	3
190401802P019	Weather Modification Technology	-	3	2	3	-
Study interest in Forest Product Technology						

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190401802P043	Technology of Wood-Based Panel	1	3	3	2	-
190401802P044	Eco-efficiency in Wood Industry	2	3	3	-	2
190401802P045	Biodeterioration of Wood	-	2	3	3	-
190401802P046	Tree Care and Maintenance	1	3	-	2	2
190401802P047	Wood Drying and Preservation	-	2	3	3	-
190401802P048	Chemical Biomass Conversion	-	3	3	3	-
190401802P049	Technology of Exudate Utilization	-	3	2	3	-

1 = Low; 2 = Medium; 3 = High