

Name of Course/Activities : **Course Training for Public Health Hasanuddin University**
Faculty : Public Health Hasanuddin University
: The program aims to enhance participants' understanding of public health challenges, develop practical skills in epidemiology and laboratory techniques, and foster cross-cultural collaboration between Indonesian and Vrije Amsterdam public health professionals.

Course/Activities Outcomes
Participant Qualification : Bachelor, Master, and Doctoral Course
Course description : This Erasmus program offers a comprehensive curriculum covering public health challenges, epidemiological studies, laboratory training, and field visits, designed to provide participants with both theoretical knowledge and hands-on experience in public health practices.

Date/Day	Time	Activities	Time duration (hour)	Place	Remark
Day 1	All Day	1 Departure from Netherlands	17	Airport in Netherland	Person in Charge/committee
Day 2	All Day	1 Arrival in Makassar		Airport in Sultan Hasanuddin, Makassar	Person in Charge/committee
	19.30-20.30	2 Welcome Dinner and Orientation Session	2	Unhas Hotel	Person in Charge/committee
Day 3	08.30-09.00	1 Opening Ceremony by Dean of Public Health Hasanuddin University	1.5	Noor Nasry Noer Room (K225)	Person in Charge/committee
	09.00-11.00	2 Overview of Public Health Challenges in Indonesia by local experts (lecturer of Public Health)	2	Noor Nasry Noer Room (K225)	Person in Charge/committee
	11.00-12.00	3 Discussion: "Comparative Public Health Systems: Netherlands vs. Indonesia."	1	Noor Nasry Noer Room (K225)	Person in Charge/committee
	12.00-13.00	4 Break/Lunch	1	Room of Dean of Public Health Hasanuddin University	Person in Charge/committee
	13.00-15.30	5 Field visit : Local health clinic or community health center. Group activity : Identifying key public health issues in the community.	2.5	Community/Society	Person in Charge/committee
	15.30-17.30	6 Campus Tour	2	Hasanuddin University	Person in Charge/committee
	19.00-21.30	7 Dinner and Networking session with Indonesian public health professionals.	2.5	Mauki Café	Person in Charge/committee
Day 4	08.30-10.00	1 Interactive Lectures with Student in Public Health, Hasanuddin University : Fundamentals of Epidemiology and Designing Epidemiological Studies	1.5	Room in Public Health	Person in Charge/committee
	10.00-10.30	2 Break Session	0.5	Room in Public Health	Person in Charge/committee
	10.30 – 12.30	3 Interactive Lectures with Student in Public Health, Hasanuddin University : Case Study Analysis: Outbreak Investigation	2	Room in Public Health	Person in Charge/committee
	12.30 – 13.30	4 Lunch/Break	1	Room of Dean of Public Health Hasanuddin University	Person in Charge/committee
	13.30 – 15.30	5 Making Group Discussion about Developing a research proposal	2	Room in Public Health	Person in Charge/committee
	15.30	6 Back to Hotel	0.5	Unhas Hotel	Person in Charge/committee
	19.00-23.00	7 Free time for exploration or rest	4	Makassar	Person in Charge/committee
Day 5	08.30-10.00	1 Laboratory Training Part I with Student in Public Health, Hasanuddin University : Introduction to public health laboratory techniques; Safety protocols and equipment orientation	1.5	Laboratory Biochemistry in Public Health	Person in Charge/committee
	10.00-10.30	2 Break Session	0.5		Person in Charge/committee
	10.30-12.00	3 Hands-on session: Sample collection and processing. Demonstration: Diagnostic techniques for infectious diseases.	1.5	Laboratory Biochemistry in Public Health	Person in Charge/committee
	12.30-13.30	4 Lunch/Break	1	Room of Dean of Public Health Hasanuddin University	Person in Charge/committee
	13.30-16.00	5 Discussion: Ethical considerations in laboratory research.	2.5	Laboratory Biochemistry in Public Health	Person in Charge/committee
	16.00-20.00	6 Sunset Sailing	4	Kapal Phinisi, Losari Beach	Person in Charge/committee

	20.00	7	Free time for exploration or rest		Makassar	Person in Charge/committee
Day 6	08.30-10.00	1	Course of Interactive Lecture with Student in Public Health, Hasanuddin University: Environmental Determinants of Health; Case Study: Air pollution and respiratory disease	1.5	Room in Public Health	Person in Charge/committee
	10.00-10.30	2	Break Session	0.5	Room in Public Health	Person in Charge/committee
	10.30-14.30	3	Field Trip in Industrial Site or Agricultural Area; Data Collection including Environmental Health Indicators and make it group discussion and presentation in which findings from the field visit.	4	Industrial Site (KIMA)	Person in Charge/committee
	14.30-16.00	4	Visit to Hospital of Hasanuddin University	1.5	Hospital of Hasanuddin University	Person in Charge/committee
Day 7	08.30-09.00	1	Registration of prepare for Guest Lecture	1.5	Noor Nasry Noer Room (K225)	Person in Charge/committee
	09.00-11.30	2	Guest lecture: "Global Health Security" by an international expert.	2.5	Noor Nasry Noer Room (K225)	Person in Charge/committee
	11.30-12.00	3	Discussion	1.5	Noor Nasry Noer Room (K225)	Person in Charge/committee
	12.00-13.00	4	Break/Lunch	1	Noor Nasry Noer Room (K225)	Person in Charge/committee
	13.00-16.00	5	City Tour: Fort Rotterdam, Losari Beach, 99 Domes Mosque, Central Point of Indonesia, Souvenir Shopping	3	Makassar	Person in Charge/committee
	16.00	6	Free time for exploration or rest		Makassar	Person in Charge/committee
Day 8	08.30-10.00	1	Laboratory Course Part II with Student in Public Health, Hasanuddin University: Integrated Topics in Public Health Session 1 - Bionomics (Study of Disease Vectors and Reservoirs) : a. Demonstration of vector identification (e.g., Aedes aegypti mosquitoes, ticks) under a microscope. b. Observation of the mosquito life cycle (eggs, larvae, pupae, adults). c. Discussion on vector control methods (e.g., insecticides, bed nets).	1.5	Biochemistry Laboratory, Public Health Hasanuddin University	Person in Charge/committee
	10.00-10.15	2	Coffee Break	0.15	Room of Dean of Public Health Hasanuddin University	Person in Charge/committee
	10.15-11.45	3	Session 2 - Biomarkers (Early Disease Detection) a. Demonstration of ELISA (Enzyme-Linked Immunosorbent Assay) for detecting inflammatory biomarkers (e.g., CRP or IL-6). b. Hands-on: Analysis of serum samples to identify specific biomarkers. c. Discussion on the application of biomarkers in epidemiological research.	1.5	Biochemistry Laboratory, Public Health Hasanuddin University	Person in Charge/committee
	11.45-12.45	4	Lunch/Break	1	Room of Dean of Public Health Hasanuddin University	Person in Charge/committee
	12.45-14.15	5	Session 3 - Biochemistry (Metabolism and Toxicology Analysis): a. Demonstration of spectrophotometry to measure glucose or cholesterol levels in blood samples. b. Hands-on: Enzymatic assay to measure enzyme activity (e.g., ALT or AST) as an indicator of liver damage. c. Discussion on the relationship between chemical exposure and metabolic disorders.	1.5	Biochemistry Laboratory, Public Health Hasanuddin University	Person in Charge/committee
	14.15-14.30	6	Coffee Break	0.15		Person in Charge/committee

	14.30-16.00	7	Session 4 - Microbiology (Pathogen Identification): a. Demonstration of Gram staining to differentiate Gram-positive and Gram-negative bacteria. b. Hands-on: Bacterial culture from environmental samples (e.g., water or soil) and colony identification. c. Discussion on antibiotic resistance and its implications for public health.	1.5	Laboratory of Revitalizing Informal Settlements and Their Environment, Public Health Hasanuddin University	Person in Charge/committee
	16.00-17.30	8	Session 5 - Environmental Exposure (Analysis of Environmental Hazards) a. Demonstration of air quality monitoring tools (e.g., PM2.5 or CO2 detectors). b. Hands-on: Analysis of water samples for heavy metals (e.g., lead or mercury) using Atomic Absorption Spectroscopy (AAS). c. Discussion on the health impacts of environmental exposure and mitigation strategies.	1.5	Laboratory of Revitalizing Informal Settlements and Their Environment, Public Health Hasanuddin University	Person in Charge/committee
	17.30-18.00	9	Closing and Evaluation/Feedback	1	Laboratory of Revitalizing Informal Settlements and Their Environment, Public Health Hasanuddin University	Person in Charge/committee
	18.00	10	Free Time		Makassar	Person in Charge/committee
Day 9	08.00-09.45	1	Course of Interactive Lecture with Student in Public Health, Hasanuddin University: Risk Factor Analysis for Non-Communicable Disease in Low- and Middle-Income Countries."	1.5	Noor Nasry Noer Room (K225)	Person in Charge/committee
	09.45-10.00	2	Coffee Break	0.15	Noor Nasry Noer Room (K225)	Person in Charge/committee
	10.00-12.30	3	Laboratory Training Part III with Student in Public Health, Hasanuddin University : a. Advanced laboratory techniques: Molecular diagnostics. b. Hands-on session: PCR and sequencing. c. Data analysis: Interpreting laboratory results.	1.5	Laboratory of Revitalizing Informal Settlements and Their Environment, Public Health Hasanuddin University	Person in Charge/committee
	12.30-13.30	4	Lunch/Break	1	Room of Dean of Public Health Hasanuddin University	Person in Charge/committee
	13.30-16.30	5	Field Exploration in Maros Regency : a. Exploration of cultural sites: Leang-Leang Prehistoric Park, Rammang-Rammang Karst, and Bantimurung Waterfall b. Experience local food traditions and culinary practices in Maros	3	Maros Regency	Person in Charge/committee
	16.30	6	Free Time for cultural activities.		Makassar	Person in Charge/committee
Day 10	08.00-09.30	1	Course of Interactive Lecture with Student in Public Health, Hasanuddin University: a. Topic: Maternal and Child Health in Resource-Limited Settings." b. Case study: Reducing maternal mortality.	1.5	Room in Public Health	Person in Charge/committee
	09.30-09.45	2	Coffee Break	0.15	Room of Dean of Public Health Hasanuddin University	Person in Charge/committee
	09.45-11.45	3	Food Innovation Lab (Culinary Lab)	2	Culinary Lab, Public Health Hasanuddin University	Person in Charge/committee
	11.45-12.45	4	Lunch/Break	0.5	Room of Dean of Public Health Hasanuddin University	Person in Charge/committee

	12.45-14.45	5	Course of Interactive Lecture with Student in Public Health, Hasanuddin University Data Analysis and Interpretation: a. Quantitative and Qualitative Data Analysis in Public Health b. Using statistical software (e.g., SPSS, R) c. Hands-on session: Analyzing field and lab data	2	Room of Dean of Public Health Hasanuddin University	Person in Charge/committee
	14.45-15.00	6	Coffee Break	0.15	Room of Dean of Public Health Hasanuddin University	Person in Charge/committee
	15.00	7	Free time for relaxation		Makassar	Person in Charge/committee
Day 11	08.30-10.00	1	Course of Interactive Lecture with Student in Public Health, Hasanuddin University: a. One Health: Integrating Human, Animal, and Environmental Health. b. Case Study: Zoonotic disease outbreaks. b. Case study: Reducing maternal mortality.	1.5	Room in Public Health	Person in Charge/committee
	10.00-12.00	2	Field Trip in Veterinary clinic or wildlife conservation center.	2	Hasanuddin University	Person in Charge/committee
	12.00-13.00	3	Lunch/Break	1	Room of Dean of Public Health Hasanuddin University	Person in Charge/committee
	13.00-15.00	4	Group of Discussion; Data Collection; One Health Indicators; One Health Interventions	2	Room in Public Health	Person in Charge/committee
	15.00-15.30	5	Coffee Break	0.5	Room of Dean of Public Health Hasanuddin University	Person in Charge/committee
	15.30	6	Free Time		Makassar	Person in Charge/committee
Day 12	08.30-10.00	1	Course of Interactive Lecture with Student in Public Health, Hasanuddin University: a. Writing and publishing public health research. b. Research Finding and Recommendations	1.5	Noor Nasry Noer Room (K225)	Person in Charge/committee
	10.00-12.00	2	Field Trip in Veterinary clinic or wildlife conservation center.	2	Hasanuddin University	Person in Charge/committee
	12.00-13.00	3	Lunch/Break	1	Room of Dean of Public Health Hasanuddin University	Person in Charge/committee
	13.00-15.00	4	Group of Discussion; Data Collection; One Health Indicators; One Health Interventions	2	Room in Public Health	Person in Charge/committee
	15.00-15.30	5	Coffee Break	0.5	Room of Dean of Public Health Hasanuddin University	Person in Charge/committee
	15.30	6	Free Time			Person in Charge/committee
Day 13	07.00-18.00	1	Travel to Gowa and cultural orientation with Student in Public Health, Hasanuddin University: a. Morning travel from Makassar to Gowa b. Introduction to Gowa's cultural and historical heritage c. Visit to Balla Lompoa Museum and Benteng Somba Opu d. Exploration of traditional culinary practices and local food production Visit to local plantations and agro-tourism sites e. Trip to Malino for a highland cultural and nature experience, including tea plantations and scenic mountain views	11	Gowa Regency	Person in Charge/committee
	19.00-22.00	2	Farewell Dinner and cultural performance	5	Unhas Hotel	Person in Charge/committee
Day 14	08.00-10.00	1	Free time for last-minute shopping or sightseeing.	2	Makassar	Person in Charge/committee
	10.00	2	a. Go to airport in Sultan Hasanuddin University b. Flight back to the Netherlands	17	Sultan Hasanuddin Airport	Person in Charge/committee
Day 15	All Day	1	Arrival at Amsterdam Airport		Amsterdam Airport	Person in Charge/committee