

Appendix 3.1.8 Integration of Research and Community Engagement Activities into the Teaching and Learning Process

No.	Title of Research/Community Engagement ¹	Names of Lecturers ²	Course	Form of Integration	Year (YYYY)
1	2	3	4	5	6
1	Price Monitoring Survey in Samarinda City, 2021	Dr. Sri Wahyuningsih, S.Si., M.Si.	Survey Analysis and Design I, Survey Analysis and Design II	Lecture material on the application of non-probability sampling methods: purposive sampling technique	2021
2	Survey of the National Strategic Food Price Information Center (PIHPS) in Kutai Kartanegara Regency, Samarinda City, and Bontang City, 2021	Dr. Darnah A.Nohe, S.Si., M.Si	Survey Analysis and Design I, Survey Analysis and Design II	Lecture material on the application of non-probability sampling methods: purposive sampling technique	2021
3	Training on Data Visualization Using GGLOT2 to Enhance Research Data Presentation Skills	Surya Prangga, S.Si., M.Si.	Introduction to Data Science	Lecture material on the application of data visualization using graphs	2021
4	An Easy, Fast, and Effective Solution to Tackling TIU Using Logic and Statistics	Ika Purnamasari, S.Si., M.Si	Basic Statistics, Introduction to Mathematical Statistics I	Examples of the Application of Descriptive Statistics, Logic, and Probability	2021
5	Development of a Nonparametric-Geographically Weighted Time Series Regression Model and a Computational Application System for Detecting the Spread of Covid-19 in a Spatio-Temporal Context	Dr. Sifriyani, M.Si.	Spatial Statistics	Producing Articles and Reference Books. The form of integration in education and teaching can serve as one of the references or instructional materials for the Spatial Statistics course.	2021
6	Modeling Poisson Inverse Gaussian Regression and Negative Binomial	Dr. M. Fathurahman, S.Si.	Introduction to Linear Models	An example of regression model development with a count response variable	2021

	Regression on the Number of Dengue Fever Cases in East Kalimantan				
7	Analysis of the Effects of Online Learning Media and Digital Literacy on Junior High School Students' Mathematics Learning Outcomes in Samarinda During the COVID-19 Pandemic Using Dummy Variable Regression	Dr. Darnah, M.Si.	Introduction to Linear Models, Biostatistics	Teaching material on dummy regression models	2021
8	Development of Geographically and Temporally Weighted Regression Using the Improved Spatial-Timeseries Distance Function and Its Application to COVID-19 Modeling in East Kalimantan	Dr. Sifriyani, M.Si.	Spatial Statistics	Integrated into the education and teaching process as one of the references in the Spatial Statistics course	2021
9	Modeling Public Acceptance Attitudes Toward COVID-19 Vaccination in Bontang City Using Binary Logistic Regression (BLR)	Memi Nor Hayati, S.Si., M.Si.	Categorical Data Analysis	Example of binary logistic regression analysis application	2021
10	Forecasting The Amount Of Palm Oil Production In East Kalimantan Province Using The Singular Spectrum Analysis Method With Tracking Signal Monitoring To Obtain Future Projections	Meiliyani Siringoringo, S.Si., M.Si.	Time Series Analysis I	Example of time series data and development of non-stationary time series	2021
11	Price Monitoring Survey of Samarinda City in 2022	Dr. Sri Wahyuningsih, S.Si., M.Si.	Survey Analysis and Design I, Survey Analysis and Design II	Lecture material on the application of non-probability sampling method: purposive sampling technique	2021
12	National Strategic Food Price Information Center (PIHPS) Survey in Kutai Kartanegara Regency, Samarinda City, and Bontang City in 2022	Dr. Suyitno, S.Pd., M.Sc.	Survey Analysis and Design I, Survey Analysis and Design II	Lecture material on the application of non-probability sampling method: purposive sampling technique	2022

13	National Strategic Food Price Information Center (PIHPS) Survey in East Kutai Regency, Berau Regency, West Kutai Regency, and Mahakam Ulu Regency in 2022	Dr. Darnah,S.Si,M.Si	Survey Analysis and Design I, Survey Analysis and Design II	Lecture material on the application of non-probability sampling method: purposive sampling technique	2022
14	Training on the Use of Q-GIS Software for Spatial Mapping and Introduction to Nonparametric Regression Programs at BAPPEDA and BPS of East Kalimantan	Dr. Sifriyani, M.Si.	Spatial Statistics, Statistics of Tropical Moist Forest Environments	Example of spatial data and application of spatial patterns using thematic maps	2022
15	Analysis of the Potential for Water Pollution in the Mahakam River within the Tropical Moist Forest Environment of East Kalimantan Using the Weibull Regression Model	Dr. Suyitno, S.Pd., M.Sc.	Survival Data Analysis	Weibull regression model material	2022
16	Development Of Nonparametric Regression With Truncated Spline And Epanechnikov Kernel Mixed Estimator And Application Based On Computational Program On Dengue Hemorrhagic Fever (DHF) Data	Dr. Sifriyani, M.Si.	Introduction to Nonparametric Regression	Integration in education and teaching, as one of the references in the course Introduction to Nonparametric Regression (material on nonparametric regression models using the truncated spline estimator)	2022
17	Public Satisfaction Survey Research on the Services of the Communication and Information Office in Samarinda City, Balikpapan City, and Kutai Kartanegara Regency in 2022	Memi Nor Hayati, S.Si., M.Si.	Survey Analysis and Design I, Survey Analysis and Design II, Research Methods	Example of designing a research study, developing a research instrument in the form of a questionnaire, determining the population and sample, applying the stratified random sampling technique, and processing and analyzing survey data	2022

18	Survey Research on the Digital Literacy Skills of Civil Servant Teachers at the Senior High School/Vocational School Level in Samarinda City, Balikpapan City, and Kutai Kartanegara Regency in 2022	Dr. Darnah,S.Si,M.Si	Survey Analysis and Design I, Survey Analysis and Design II, Research Methods	Example of designing a research study, developing a research instrument in the form of a questionnaire, determining the population and sample, applying the stratified random sampling technique, and processing and analyzing survey data	2022
19	Price Monitoring Survey of Samarinda City in 2023	Dr. Sri Wahyuningsih, S.Si., M.Si.	Survey Analysis and Design I, Survey Analysis and Design II	Lecture material on the application of non-probability sampling method: purposive sampling technique	2023
20	National Strategic Food Price Information Center (PIHPS) Survey in Kutai Kartanegara Regency, Samarinda City, and Bontang City in 2023	Dr. Suyitno, S.Pd., M.Sc.	Survey Analysis and Design I, Survey Analysis and Design II	Lecture material on the application of non-probability sampling method: purposive sampling technique	2023
21	National Strategic Food Price Information Center (PIHPS) Survey in East Kutai Regency, Berau Regency, West Kutai Regency, and Mahakam Ulu Regency in 2023	Dr. Darnah,S.Si,M.Si	Survey Analysis and Design I, Survey Analysis and Design II	Lecture material on the application of non-probability sampling method: purposive sampling technique	2023
22	Introduction to the Statistics Corner from an Early Age and Dissemination of Data Science Development for Students and Teachers at Public Senior High Schools in Samarinda City	Meirinda Fauziyah, S.Si., M.Stat	Introduction to Data Science	Definition and development of data science material	2023
23	Development of Spatio-Temporal Model in Nonparametric Regression Based on Machine Learning and Digitalization of Strategic National Food Commodity Price Prediction in Traditional Markets to Strengthen Indonesia's Food Security	Dr. Sifriyani, M.Si.	Spatial Statistics	Integration in education and teaching, which can serve as a reference or teaching material for the Spatial Statistics course	2023

24	Modeling Criminal Issues in Indonesia as an Effort to Reflect SDG 16 Target “Peace, Justice, and Strong Institutions” Using Longitudinal Truncated Spline Nonparametric Regression	Andrea Tri Rian Dani, S.Stat., M.Stat	Introduction to Nonparametric Regression	Lecture material on nonparametric regression models using truncated spline estimators for longitudinal data	2023
25	Classification of Traffic Accident Victim Status in Samarinda City Using the QUEST (Quick, Unbiased, Efficient, Statistical Tree) Algorithm	Surya Prangga, S.Si., M.Si.	Modern Prediction and Machine Learning, Multivariate Analysis	Example of a tree-based classification method	2023
26	Application of the Hybrid Model of Transfer Function – Neural Network and Fourier Series for Forecasting the Reference Coal Price	Dr. Sri Wahyuningsih, S.Si., M.Si.	Time Series Analysis II	Discussion material on transfer functions and development of forecasting methods	2023