

DELIVERED TEACHING ADAPTATION

Applied Multivariate Data Analysis

Regression, ANOVA, repeated measures, factor analysis, and applied interpretation.

Designed for adult professionals and curious learners. Original AdriaMont Institute material, adapted from expert teaching, research, and professional practice.

A professional adaptation of delivered university statistics and methods teaching. The course emphasizes conceptual understanding, interpretation, and decision-oriented reporting rather than software ritual.

STATUS	Delivered university teaching, adaptation possible
FORMAT	Applied digital course, lab pack, or seminar series
AUDIENCE	Researchers, analysts, graduate students, evaluators, consultants
SOURCE BASE	Tilburg University teaching materials on applied multivariate analysis and methods
PRIVACY ACTION	Student submissions, raw data, answer keys, and course-admin files excluded

Source and privacy note: Old course books, student files, datasets, and third-party readings are not republished. Public materials use synthetic data examples.

Adapted module route

- 01 Model thinking: variables, assumptions, effect sizes, and interpretation.
- 02 Regression and hierarchical regression: contribution, confounding, and model fit.
- 03 ANOVA and mixed designs: main effects, interactions, contrasts, and follow-up logic.
- 04 Repeated measures: within-person designs, sensitivity, sphericity, and reporting.
- 05 Factor analysis: scale construction, structure, reliability, and validity evidence.
- 06 Reporting results: concise explanation, uncertainty, limitations, and decision relevance.

Reusable public materials

Analysis planning checklist.
 Interpretation templates for regression and ANOVA.
 Scale construction workflow.
 Synthetic datasets for exercises after rights review.

Request this course as a premium applied analysis route with privacy-safe synthetic exercises.