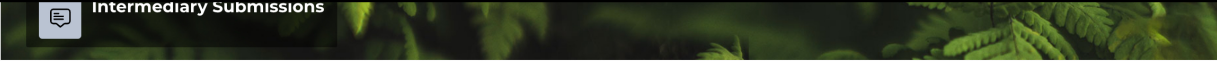


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- Advanced Data Analysis and Machine Learning
- Announcements
- Tuesday Lectures [passcode: BM20A6100]
- Introduction
- Course Description in SISU (2024)
- General Instructions (start here)
- Recordings
- Pre-test
- Pre-test: part I
- Pre-test part II
- Getting started with Matlab
- Data analysis (Period 1)
- SVD
- SVD lectures and theory
- SVD: Practical Activities
- Quiz 1: SVD
- PCA
- Theory and supplementary materials
- PCA: Practical Activities
- Quiz 2: PCA
- Data Pretreatment and Diagnostics
- Data Pretreatment and Diagnostics: Practical Examples
- [Workshop 1] Attendance
- Why you will not participate the Workshop 1 in LUT campus?
- [Workshop 1] In-person attendance: Group selection
- [Workshop 1] Replacement Activity: Literature Review
- Workshop 1: Datasets and Fill-in-Documents
- [Workshop 1] In-Person Attendance Submission
- [Workshop 1] Replacement Submission Portal: Literature Review
- Regression: PCR, PLS
- PCR Theory
- PLS Theory and Interpretation
- Advanced: Extension to PLS and other regression methods: non-linear, multiblock, multi-dimensional, ridge, lasso, etc
- PCR & PLS: Practical Activities
- Quiz 3: PCR & PLS
- Project Work




Week 4 - Modelling Plan (Deadline: 30-Sept-24)

Week 3 – Data pretreatment (Deadline: 23-Sept-2024)

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**Week 4 - Modelling Plan (Deadline: 30-Sept-24)**
by [Zina-Sabrina Duma](#) - Wednesday, 25 September 2024, 11:51 AM

Make a modelling plan for your modelling goal. Create a flowchart of the operations needed to accomplish the task, and assign roles to the team members for each step. The start of each flow chart should be the cleaned data, and the end of it should be the modelling goal achieved. If there is more than one modelling goal, the flowchart can take multiple paths. There will be a max. 2 pages addition to your project PDF.

- **0.5p** - modelling goal (What is the purpose of your data analysis?);
- **0.5p** - model calibration strategy: tools used, methodology, data used;
- **0.5p** - model validation strategy: scope of validation, methodology;
- **0.5p** - model testing strategy: metrics and data used;
- **0.5p** - description of the mathematical methods used in modelling;
- **0.5p** - model diagram/ operations flowchart;
- **0.5p** - role of group members in modelling;
- **0.5p** - document appearance: readability, figures and captures, clarity and completeness.

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Group Work Data Sets
and Requirements

Group Work - Choosing a
Group

Intermediary
Submissions

Group Work Period 1:
Final Submission

▼ **Resources**

▼ **Exam and grades**