

# NMSA407 – Linear Regression

## Exercise class

Academic year 2017/2018

### Requirements to get the course credit

- Receiving at least **21 points** for assigned homeworks worked out in a reasonable quality and all delivered within the specified deadline.
- Getting at least **60% of points** in the final test.

### Homeworks

- There will be **three homework assignments** during the term. For each homework there will be an assignment specific delivery deadline (usually 2 weeks after the homework assignment).
- The homework assignments will be worked out in a group of 1–3 students (different groups can be formed for different homework assignments).
- For each homework a report prepared in L<sup>A</sup>T<sub>E</sub>X must be delivered in a requested form (either a paper copy or a PDF file sent by email depending on the preferences of the lecturer). Only one document per group is required but the names of the group members and their enrollment into the exercise classes must be clearly stated on top of the title page.
- The language of the homework reports might be either English or Czech/Slovak. Nevertheless, only one language must be used inside a single document (this includes also labels in tables or plots). However, for purpose of this rule, Czech and Slovak are considered as one language (i.e., it is allowed to mix them in a reasonable way within one document).
- Each homework will be evaluated using the following classification:

(A) **10 points**

*A reasonably well formatted document with a negligible number of typos and grammatical errors showing a seriously meant attempt to solve all assigned problems with the solution being without any major errors. Minor errors, certain awkwardness, etc., will be tolerated.*

(B) **Resubmission**

*A document which is not reasonably well formatted or contains an excessive number of typos or grammatical errors, or with some questions being solved with more serious or major errors (or not solved at all) will be returned for a resubmission. However, it must be still clear from the delivered document that a serious attempt was taken to solve all assigned problems.*

*Students from the group get a secondary chance to deliver an improved version of their report (usually within one week). If the resubmitted report is evaluated as “well worked out”, **7 points** will be granted. Otherwise, **0 points** will be given.*

(C) **0 points**

*A not sufficiently well worked out homework report will be immediately granted with zero points with no opportunity to improve it and resubmit it. In the following there are some (not necessarily all) cases which will most likely lead to the evaluation with zero points:*

- late or no delivery of the report;
- solution to some problems is considered as „not being seriously meant“;
- plagiarism which means that two or more versions of the same document will be delivered to any of the lecturers (it is not excluded that all reports of one homework will be graded by a single lecturer). In this case

authors of **all** multiple reports will be evaluated by (C). The following actions (among others) usually lead to the documents being considered as identical: translation from one language to another, word order changes (and otherwise practically identical sentences structure), font or other formatting changes. Due to a richness of any human language, probability of delivering a unique report is practically one if before delivery the report is seen only by authors.

## Final test

- The final test will take place in December.
- There will be no computer analysis involved in the final test.
- Students will be required to interpret the given results and to derive conclusions out of the provided computer outputs. They should show an ability to specify a model suitable to solve the given problem. Other practically oriented problems solvable using the skills developed during the exercise classes or homeworks can be also used.
- Analytic derivations (for instance, finding the maximum likelihood estimator, deriving its asymptotic distribution, and constructing a confidence interval or tests based on the asymptotic distribution).
- There will be **exactly two** additional terms for the final test provided also in January, i.e., allowing for a total of three chances to pass the final test. These terms will be available for those who will not pass at the primary test date **or** will not attend the primary test (for whatever reason – no apology is required). One of them will take place at the end of the term (first or second week in January) and the second will take place during the exam period.

## Cases worthy of consideration.

Exceptions out of the previously specified rules are only possible in cases worthy of consideration where there is an eminent domain of the lecturer to decide what a „case worthy of consideration“ means. It is also the right of each lecturer to ask for appropriate proofs. Student who thinks that he/she should be treated as a „case worthy of consideration“ must contact the lecturer (personally or via e-mail) not later than **7 days** after the reasons for such treatment come into play (exception out of this rule are conditions which objectively do not allow to contact the lecturer, e.g., a ship wreck, unconsciousness, detention, ...). When notifying the lecturer, the lecturer will inform the student which parts of the above requirements can be avoided or how they can be compensated.

The following events will **usually** be considered as „cases worthy of consideration“:

- a long-lasting or chronic disease or injury requiring a permanent or long-lasting therapy (at least 21 days) not allowing to attend the lectures;
- detention or imprisonment.

The following events will **never** be considered as „cases worthy of consideration“:

- not being able to pass the course for the second time;
- long-lasting study stay at other institutions (Erasmus, ...);
- out-of-school activities (including jobs);
- transport irregularities, sudden qualm, common short-lasting diseases (flu, ...).