



BUSINESS GAME *COMPANY*

Appendix 11

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Wrocław, 23.02.2020

Appendix 11: Requirements concerning system DSS_G supporting decisions (Bachelor studies)

Computer form of the system: EXCEL Workbook. The template of this Workbook is on my Website. It consists of several worksheets, each containing tables with data (numbers without formulas) and describing an exemplary economic and financial situation of the COMPANY in month number 1. This situation is the consequence of decisions taken by the COMPANY in months zero and one. All these decisions are given in Appendix 4. The participants are obliged to work out one of the following two versions of the DSS_G system.

I. MINIMUM version

1. All cells in the template which contain numbers, and their colour is **neither green nor gray** must contain proper formulas.
2. The formulas must be developed which allow the user to calculate the necessary number of production machines and production workers (machine operators and assembly workers) for a given production in the Production Stage 1 and in the Production Stage 2. Details concerning these calculations are explained in the Appendix 5. The formulas should be included either in one of the existing worksheets or in a newly created one.

Comments to the template of the Workbook DSS_G:

- 1) In order to develop formulas calculating the following three cost items (Worksheet PRICE): “*direct labour: machine operators (standard)*”; “*direct labour: assembly workers (standard)*” and “*direct labour over standard (Production Stages: 1 and 2)*”, additional data - not included in the template - are necessary. These data should be included either in one of the existing worksheets or in a newly created one. Details concerning calculations of the above mentioned cost items are explained in the Appendix 6.
- 2) To most of the template cells, the comments are attached, with guidelines suggesting how to develop the necessary EXCEL formulas. Obeying these guidelines is not obligatory, but very useful: it enables the “developer” to avoid many errors, and particularly to avoid *circular references*.
- 3) If in the comment attached to a given template cell, a certain worksheet name is used **and such a worksheet does not exist in the template, it is suggested to develop it** (with adequate data and formulas) and to insert it in the template DSS_G.

II. EXTENDED version

This version meets all the requirements valid for the MINIMUM version and moreover:

1. Formulas are developed in all or in some of the gray cells.
2. Additional worksheets are included in the Workbook DSS_G, which are regarded to be useful in decision making during the game. Their content as well as their names are decided by their authors.

The development of the Workbook (over the MINIMUM version) can be continued during the whole semester.

When deciding which version to develop (MINIMUM or EXTENDED), it is to be remembered, that the authors of this tool will be its users and will have to use it readily and proficiently in a limited time prescribed for decision taking.