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- Created on** : 6.11.2019
- Deadline** : Your work **has to be presented** and argued before an audience (Your colleagues) in the seminars, which will be held in time assigned by the tutor.
The reason for the chosen **deadline** is a necessity to hand over related theories and time to write seminar work. The chosen deadline is **23.11.2019 (Friday)**, meaning that seminar work will be handed over **23.11.2019** at latest by e-mail to addresses miki@econ.muni.cz and 1730@mail.muni.cz. The sended file must have the following form:
Name_Surname_UČO_Name of the work_2019mmdd.
- Expected extent** : Minimum **12** pages
- Suggestions** : 30 % of the volume might be a description of the used theories, which will be used as a bridgehead for practical part of the work. You have to mention list of used resources at the end of your work. I expect links (relations) from seminar work body to list of resources, meaning to indicate which texts were taken from which literature (internet resources)
- Theory used** : It is expected, that student will mainly use Theory of Constraints and related Thinking tools, Critical Chain Methodology, Ishikawa Fishbone Diagram, and Pareto analysis
- Title Page** : **Name of the student, his e-mail, student number, and his/her photo as well as date indicating the handover date of your work!**
- Presentation** : You have to prepare a power-point presentation describing your work concisely. This power-point presentation will be used in your presentation to audience
It is expected that you will perform **max 9 minutes**. So try to present the core of your problem with the help of texts as well as with the help of diagrams and related pictures if any (trees, curves, flowcharts and so on).
- First three students will present their seminar work on 25.11.2019 during theoretical session in P312 and we will continue even during the practical part on 27.11.2019
It is valid only for course MPH_AOPR
- First three students will present their seminar work on 27.11.2019 during theoretical session in VT206 and we will continue even during the practical part on the same day. It is valid only for course MPH_AOMA
- Statement** : [Approved and presented seminar work represents passport to be accepted for the exam](#)

Name:

Operations Management: seminar work related to Utilization -*application* of the Theory of Constraints (TOC), Critical Chain Project Management (CCPM) as a Project Management Methodology based on TOC principles.

Questions which have to be firstly and concisely answered in the seminar work:

- 1.) How would you apply CCPM and TOC tools (e.g. CRT=Current Reality Tree) for the planning of Your dissertation (writing the dissertation is, in fact, a project)? Can you name the main project risks?
- 2.) Do you know how to diminish (to reduce) these risk factors (to avoid obstacles)? Name at least ten obstacles! **If dissertation work is not chosen by you, see my comment below.**

TOC and Thinking Tools theory- related to find a subject of your work, to prepare yourself for creation of dissertation, chasing resources, planning time schedule, finding the bottlenecks in some model company you are working with, decision related to use of chosen methodology to improve partial process, personal problems related to dissertation and so on.

Comment: To give you **greater flexibility**, you can instead of the project of your dissertation use any other type of project such as, e.g. project of formation of your brand new start-up company, renovation of the pub (café, confectionary) and so on (see other examples mentioned below). It will be fully upon you to determine what type of businesses and processes you will hypothetically use. Your predecessors have used project of formation of **software houses** to create web site pages, **company selling airline tickets**, or they tried to solve problems of already existing companies of their parents **exporting natural cosmetics** from Greece. Some of them tried to establish business in the Czech Republic such as **selling French wines, small travel agencies** and so on. As you can see, the core depends purely on your imagination. You will get some former works (see study material and related subdirectory) to help your inspiration.

When specifying your concrete project you can use as a helping tool such as Balanced Scorecard methodology (was mentioned already in the introduction of OM and was already presented. Necessary knowledge used to control basic and core processes of newly established companies, benefits for customers if processes will be correctly controlled, and so on. It could also be used in dissertation project, meaning what knowledge and skills you have to acquire, how to communicate with your mentor, how to write a dissertation (formal aspects), what type of methods will be applied to suggest some improvements, how to protect your data and so on.

UDE examples: *long project duration, projects overrun budget, projects deliver less than full scope, projects overrun schedule, projects have many changes, projects use resources ineffectively, too many conflicts among projects-capacity of used resources, bad interpersonal relationships, long reaction to requirements, improper evaluation of workers (employee), rigid legislation, competitors,...*

So as you see one part of the seminar work will be a list of UDE, which will be used to construct CRT signaling your root problem (bottleneck).

- 3.) What kind of effects do you expect by possible using buffers (time buffers) during the working out of your thesis (dissertation or other chosen project)? Can you explain what the time buffer is? What is project buffers its penetration? How you can measure reached results (used metrics such as time, resource capacity, costs, good-will and so on).
- 4.) Can you specify by use of Thinking Process Tools Your bottleneck as far as studying processes or writing work or working on assigned school tasks (by other tutors) is concerned? Create **CRT** (see full meaning above) and create a list of Undesirable Effects (named by You as it was mentioned already in clause 1)
- 5.) Create with use of already existing set of UDE's Ishikawa fishbone diagram and put some weights meaning numbers specifying the importance of assign reasons. It was clearly shown in Ishikawa FBD power-point presentation. Based on the set of assigned score, create Pareto Lorenz curve (use Excel please). The principle is also shown in just mentioned presentation. Specify most important reasons. Compare with root problem found by use of Current Reality Tree.
- 6.) State clearly Your suggestions on how to improve your dissertation writing (or any other chosen project) and related benefits.

