

## *Postgraduate Program Structure „Constraints Management”*

semester I

- *March 2009: 6/7, 20/21*
- *April 2009: 3/4, 17/18*
- *May 2009: 8/9, 22/23*
- *June 2009: 5/6, 19/20 (reserve)*

semester II

- *October 2009: 9/10, 23/24*
- *November 2009: 6/7, 20/21*
- *December 2009: 4/5 (reserve), 12 (consulting final projects)*
- *January 2010: 9 (consulting final projects), 29/30(exam),*

<i>Subject</i>	<i>Nr of hours</i>	<i>Run by</i>
<b><i>1. Introduction to managing constraints + Basic principles of TOC (8h)</i></b>		
Basics and changing managing paradigms. Introduction to TOC methodology.	<b>4</b>	PW - Prof. Krzysztof Santarek
An overview of the TOC methodology and its applications to managing all functions within an (manufacturing) organizations Introduce U shape	<b>4</b>	TOC
<b><i>2. Operations Management (implications and application of TOC) (28h)</i></b>		
Establishing the basis characteristic of production flow	<b>4</b>	PW - dr inż. Anna Kosieradzka

Pinpointing the core problem responsible for many difficulties	12	PW – dr inż. Anna Kosieradzka
Develop the planning solution for production through Drum Buffer Rope (master schedule, material relies, lead-times)		
Establish execution control through the use of Buffer Management		
Analysing the 4 basic production flows V, A, T, I	12	PW - dr inż. Anna Kosieradzka
Learn the typical problems and the derived solutions for the different production flows		
<b>3. Fianacial and economical measurements . (12h)</b>		
Basis of finance management and cost accounting.	3	PW - prof. Krzysztof Santarek
The global financial and operational measurements the TOC way.	9	PW - prof. Krzysztof Santarek, Ilona Obłuska
<b>4. TOC Basic Thinking Tools (16h)</b>	16	TOC
<b>5. Distribution and Supply Chain (24h)</b>		
Introduction to supply chain management.	4	PW – dr inż. Stanisław Strzelczak
Beer game	4	PW
Understanding Supply Chains and their characteristic. analysing the core problem. Dynamic Buffer Management.	16	TOC
<b>6. Project Management (16h)</b>		
Introduction to Project Management.	2	PW – dr inż. Ryszard Rafalski
Upgrading Critical Path to Critical Chain	6	TOC

Managing project the TOC way. Buffer Management	8	
<i>Reserve date</i>		
<i>7. Consolidation of the logistical solutions + its vision (4h). Viable Vision (4h)</i>	8	TOC
<i>8. Software presentations (4h)</i>	4	TOC
<i>9. Students Project (4h)</i>	4	PW
<i>10. Case studies from Polish companies (16h)</i>	16	PW
<i>11. TOC Methodology ETP2 (Problem-Solution- Implementation) (16h)</i>	16	TOC – Oded Cohen
<i>12. Managing People – Communicating MSW – Conflicts, HBS (16h)</i>		
Introduction to organization behavior	4	PW
Handling conflicts. Dealing with Half Baked Solutions (uncompleted solutions)	12	TOC
<i>Reserve date</i>		
<i>13. Students project consultations</i>	4	PW
	4	TOC
<i>Students project consultations</i>	4	PW
	4	TOC
<i>14. Exam</i>	16	PW TOC with Oded Cohen
<i>Reserve date</i>		

*Student's Project – 30h*