Project: Transformation of a process step to continuous operation

Candidates	:	
Duration	:	16 weeks – one semester
Report	:	xx.yy.zzzz, 11.59pm
Advisor	:	Matthias Rüdt
Co-Advisors	:	Charles Chappuis, Michal Dabros
Abbreviation	:	
Key Words	:	

1. Description

Continuous operation promises to improve productivity, reduce process variability and be overall more economic compared to discontinuous (batch) production. To achieve a robust steady-state, it is essential to implement robust process analytical technology (PAT) and define an adequate control strategy. The goal of this group work is to construct a project proposal on how a part of a process may be converted from discontinuous mode to continuous mode. A special focus should be put on the process development and the control strategy.

The maximal project budget is 250 kCHF and a project duration of 18 months.

2. Objectives

1. The candidate should perform a perform a literature review on the topic of:
2. .
3. The candidate should develop a concept and timeline…….

3. Remarks

Templates for the report and additional information can be found on the MLS pages on Cyberlearn.

On the due date of the report, the following documents have to be provided by the candidates:

- Report in electronic form (Word and PDF) to the advisor and co-advisors
- The report can be written in English, French or German and should be limited to 20 pages in length (excluding appendices).

A defense and an individual interview with the advisor and co-advisors are part of the evaluation.

Plagiarism in any form is not accepted. Any case of plagiarism or professional misconduct will be prosecuted following the rules of the HES-SO.

20.06.2024, Sion

Matthias Rüdt
Advisor

Dr. Urban Frey
Head of Master HES-SO MLS

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