Valid from 2024.HS

Module description: Case Studies Stock and Flow - Systems 2

Module Code	t.BA.WI.PM2.19HS
ECTS Credits	4
Language of Instruction/Examination	German
Organizational Unit	IAMP
Module Coordinator	Elisabeth Dumont
Legal Framework	The module description is part of the legal basis in addition to the general academic regulations. It is binding. During the first week of the semester a written and communicated supplement can specify the module description in more detail.
Module Characteristic	Type 4* 4 lab lessons per semester week and half-class
Module Description	Students learn to describe, experimentally investigate, analyse and model natural, technical and business dynamic systems. They deepen their knowledge of physical, chemical and business processes, build their process thinking and analogy thinking and learn to use key computer-aided tools.
Module Content	• project writing and oral presentation
Prerequisite Knowledge	https://gpmpublic.zhaw.ch/GPMDocProdDPublic/2_Studium/2_02_Grundlagen_Studium/T_CL_Modulauspraegungen_SM2025.pdf

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Learning Objectives (Competences)

Students...	Competencies	Taxonomies
can apply scientific knowledge to recognize questions, to acquire new knowledge, to describe scientific / technical phenomena and to draw conclusions from evidence.	F, M	K6
can define the responsibilities and tasks associated with your role and meet them quantitatively, qualitatively and on time.	F, M	K3
can make a fair and transparent distribution of roles in the team.	SO	K5
can critically reflect the goal achievement of your project.	SE, SO	K6
keep the deadlines of the project plan and deliver the agreed results.	SO, SE	K3
can create a project plan that realistically depicts the project flow, taking into account all temporal boundary conditions (e.g., study, job, private environment).	M, F	K3
can create a task / disposition with task analysis, objectives, procedures and corresponding sub-goals / milestones.	F, M	K3
can describe the basics of time management.	F	K1
can implement criticism (for example by improving the criticized points in your project work).	SE, SO	K3
can receive criticism and analyze its relevance (for example, by critically reflecting on and answering the assessment of fellow students and lecturers in their project work).	SE, SO	K3
can specify the rules for how constructive feedback is given and received.	SO, SE	K3
contribute actively and constructively to project discussions. In particular, you are able to identify problems within the team or project and address them constructively.	SE, SO	K3
design oral and written communications in an appropriate and professional way.	SE, SO	K3
can set up computer-aided system dynamic models and perform simulations.	F, M	K3
can analyze and transform data sets.	M, F	K3
are able to plan and carry out their own experiments.	M, F	K3
can reflect on your own behavior and actions regarding the responsibilities of your role.	SE	K6
react appropriately and proactively to the unforeseen.	SE, SO	K6

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Performance Assessment

End-of-module exam	Assessment	Length (min.)	Weighting	Form
written + oral	Grade	0	100	acc. to module agreement

Performance assessment during the semester	Assessment	Length (min.)	Weighting	Form
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Classroom Attendance Requirement	None
Learning material	
Comments	