

| Module description: Software Project 2 | | | |
|---|---|---------------------|-------------------|
| Module Code | t.BA.IT.PM2.19HS | | |
| ECTS Credits | 4 | | |
| Language of Instruction/Examination | German | | |
| Organizational Unit | InIT | | |
| Module Coordinator | Christof Marti | | |
| 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 | In this module, the knowledge from other modules is practically applied and improved in several small projects and the experience of working in software projects is enhanced. This module includes software analysis and refactoring, project planning and progress tracking, use of development tools in teams, brainstorming and evaluation, reflection on project progress and project results. | | |
| Module Content | <ul style="list-style-type: none"> • The students will develop and analyse simple applications in teams, and will apply the knowledge from other modules (especially Programming 1 & 2) consistently. • In addition to these competences, the interdisciplinary competences in self-organisation, teamwork, project management as well as oral and written communication of technical contents are promoted. • In addition, students consistently use proven best-practice methods such as test-driven development and clean code. The code is managed using a version control system and a predefined workflow. They plan and document the requirements, errors and progress over the entire course of the project (issue tracking). • Learning content includes the methodology and application of development tools in a team, brainstorming and evaluation of ideas, target group-oriented communication (investor/customer level), reflection on project progress and results. | | |
| Prerequisite Knowledge | | | |
| Learning Objectives (Competences) | Students... | Competencies | Taxonomies |
| | Students are able to develop and evaluate your own project ideas and to communicate them in a target group oriented way (investor/customer level). | M, F | K3, K5 |
| | Students will work actively and effectively in a team and take responsibility for the development of the joint project as well as for the learning progress of all team members. | SO | K3 |
| | Students communicate project results professionally and linguistically correct as well as in a function-related and address-oriented manner. | M, F | K3 |
| | Students will be able to implement a software project with a given specification in the team in a technically and methodologically correct manner, adhere to the processes, and use tools consistently. | M, F | K3 |
| | Students can analyze, document and optimize an existing program structurally and functionally. | M, F | K3, K4 |
| | Students reflect on your experiences and document key findings for later projects. | SE | K3 |

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| Performance Assessment | End-of-module exam | Assessment | Length (min.) | Weighting | Form |
|---|---|---------------|---------------|--------------------------|------|
| | | other | | | 0 |
| Performance assessment during the semester | Assessment | Length (min.) | Weighting | Form | |
| Project 1 <i>Team project</i> | Grade | | 30 | acc. to module agreement | |
| Project 2 <i>Team project</i> | Grade | | 45 | acc. to module agreement | |
| Project outline <i>Written teamwork</i> | Grade | | 15 | acc. to module agreement | |
| Investor pitch <i>Oral Teamwork</i> | Grade | | 10 | acc. to module agreement | |
| Measures / Reflection <i>Certificate</i> | predicate | | | acc. to module agreement | |
| Classroom Attendance Requirement | None | | | | |
| Learning material | | | | | |
| Comments | Individual performance within the team can influence marks, i.e. not every group member may always have the same grade. | | | | |