Course Manual PLET

Project management

Version: 1 | Last Change: 20.10.2019 16:08 | Draft: 0 | Status: vom verantwortlichen Dozent freigegeben

- General information

Approving CModulePLET MaET PLET MaTINResponsibleProf. Dr. Michael Gartz Professor Fakultat IMEValid fromwinter semester 2020/21LevelMasterSemester in the yearvinter semesterDurationSemesterBurst in self-study60ECTS5ProfessorsProf. Dr. Michael Gartz Professor Fakultat IMERequirementsbasic knowledge of project management basic experience as a member of project teamsLanguageGerman	Long name	Project management
ResponsibleProfessor Fakultät IMEValid fromwinter semester 2020/21LevelMasterSemester in the yearwinter semesterDurationSemesterHours in self-study60ECTS5ProfessorsProf. Dr. Michael Gartz Professor Fakultät IMEProfessorsProf. Dr. Michael Gartz Professor Fakultät IMERequirementsbasic knowledge of project management basic experience as a member of project teams	Approving CModule	
LevelMasterSemester in the yearwinter semesterDurationSemesterHours in self-study60ECTS5ProfessorsProf. Dr. Michael Gartz Professor Fakultät IME Professor Fakultät IMERequirementsbasic knowledge of project management basic experience as a member of project teams	Responsible	Prof. Dr. Michael Gartz Professor Fakultät IME
Semester in the yearwinter semesterDurationSemesterHours in self-study60ECTS5ProfessorsProf. Dr. Michael Gartz Professor Fakultät IMERequirementsbasic knowledge of project management basic experience as a 	Valid from	
DurationSemesterHours in self-study60ECTS5ProfessorsProf. Dr. Michael Gartz Professor Fakultät IMEProf. Dr. Dr. Uwe Oberheide Professor Fakultät IMERequirementsbasic knowledge of project management basic experience as a member of project teams	Level	Master
Hours in self-study 60 ECTS 5 Professors Prof. Dr. Michael Gartz Professor Fakultät IME Prof. Dr. Michael Gartz Prof. Dr. Michael Gartz Professor Fakultät IME Poberheide Professor Fakultät IME Requirements basic knowledge of project management basic experience as a member of project teams	Semester in the year	winter semester
ECTS 5 Professors Prof. Dr. Michael Gartz Professor Fakultät IME Prof. Dr. Dr. Uwe Oberheide Professor Fakultät IME Requirements basic knowledge of project management basic experience as a member of project teams	Duration	Semester
Professors Prof. Dr. Michael Gartz Professor Fakultät IME Prof. Dr. Uwe Oberheide Professor Fakultät IME Professor Fakultät IME Requirements basic knowledge of project management basic experience as a member of project teams	Hours in self-study	60
Professors Professor Fakultät IME Prof. Dr, Uwe Oberheide Professor Fakultät IME Requirements basic knowledge of project management basic experience as a member of project teams	ECTS	5
project management basic experience as a member of project teams	Professors	Professor Fakultät IME Prof. Dr, Uwe Oberheide
Language German	Requirements	project management basic experience as a member of project
	Language	German
Separate final exam Yes	Separate final exam	Yes

Literature

Hans-D. Litke, "Projektmanagement, Methoden, Techniken, Verhaltensweisen, Evolutionäres Projektmanagement", Hanser

Ken Schwaber: Agiles Projektmanagement mit Scrum (Microsoft Press)

Litke, Kunow, Schulz-Wimmer, "Projekt-Management", Taschenguide , Haufe

Stefan Kreiser, Skripte der Vorlesung Software Engineering f.d. Automatisierungstechnik: "Projektmanagement, Vorgehensmodelle", ILIAS

Stanley E.Portny, "Projektmanagement für Dummies", Wiley

Marcus Heidbrink, "Das Projektteam", Haufe

Video Tutorial für SCRUM: http://www.video2brain.com/de/videotraining/agilesoftwareentwicklung-mit-scrum

Final exam

- Lecture / Exercises

Goal type	Description
Knowledge	Classifying and delimiting terms explain characteristic properties of development projects
	Goal orientation and innovation Risk of failure
	Special organisational form (teamwork)
	Limited resources
	Limited realization time
	abstractly define technical and
	economic goals in development projects
	abstractly define, explain and
	justify project management
	tasks
	identify and explain basic success
	and failure factors in project
	management
	unexpected technical problems
	insufficient staff qualification unclear or conflicting requirement
	poor project management
	Insufficient support from senior
	management
	identify extended challenges
	arising from a division of
	labour in project processing
Knowledge	explain selected process models
	linear models for business project
	management
	phase model V-model
	agile process models for technical
	project management
	SCRUM
	timebox model
	classify and compare process
	models with regard to
	development duration,
	organizational aspects, quality and
	cost aspects professional quality control
	Cost and schedule control in
	business management
	Legal requirements for
	documentation and traceability
	of project decisions

Special requirements

the seminar must be completed in good time before the start of the project

No
project planning tools
documents, electronic
electronic seminar

Knowledge	characterize basic tasks and expected results in development projects Planning and control of product quality Planning and controlling the quality of the development process overarching legal requirements industry-specific specifications company-internal specifications project risk management resource management Documentation of the development process Specification of the requirements for the product to be developed Specification of the product design Product development and manufacturing product documentation Verification and validation of the developed product Product release and product monitoring
Knowledge	Characterize instruments for controlling team processes
Skills	plan essential management tasks, milestones and project documents with regard to the course element "Project
Skills	carry out essential management tasks mentally and identify project risks with foresight
Skills	handle essential project management tools in a target- oriented manner for project (time) planning for requirement specifications
Skills	Planning team building procedures, deriving expected challenges and meaningful measures
Skills	identify potential conflict situations in the team and discuss alternative actions

Expenditure classroor	n teaching
Туре	Attendance (h/Wk.)

Tutorial (voluntary) 0

- Lecture / Exercises

Goal type	Description	, <u> </u>	nber of available project
Skills	Lead team explain to the team members the basic procedure in the project Capturing and classifying the competencies of team members	lead at least one team at BaET. The first seme	er of project teams, students of the first semester project ster projects usually start in ember as a block event over
	agree on goals in terms of content and deadlines	Accompanying	electronic project
Skills	Project management derive requirements specification in the team from the project order and prioritize requirements Create and maintain project plan Identify project risks and plan	material	description, electronic description of the competition scenario, electronic project planning tools, electronic developmen tools for team member
	meaningful mitigation measures, e.g. early feasibility studies Create and maintain project schedule	Separate exam	Yes
	Rough planning of tasks Plan process Planning effort, appointments,	Separate exam	
	rooms Plan Project Reviews apply agile process model in conjunction with Timebox model	Exam Type	EN Projektaufgabe im Team bearbeiten (z.B. im Praktikum)
	to ensure a minimal project success Define a minimum goal that can be achieved by the team. define extended goals for fast teams	Details	Leading and documenting development projects (no own project work with regards to content
	Drafting a final project report Document and evaluate results Document and evaluate the project process	Minimum standard	Execution of agile project management over 2 weeks and preparation of the
Skills	Lead team Monitoring and controlling goal achievement Coordinate collaboration between team members Recognizing and resolving conflict situations within the team		documentation

Planning and managing project sectionsplan tasks for the next phase of the project in detail and assign them meaningfully to the team membersPlan and moderate content reviews with team membersEvaluate project results in the team Modify the project section plan and, if necessary, the project plan according to the project procedure. evaluate the approach of the current project phase retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
plan tasks for the next phase of the project in detail and assign them meaningfully to the team members Plan and moderate content reviews with team members Evaluate project results in the team Modify the project section plan and, if necessary, the project plan according to the project plan according to the project procedure. evaluate the approach of the current project phase retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
project in detail and assign them meaningfully to the team members Plan and moderate content reviews with team members Evaluate project results in the team Modify the project section plan and, if necessary, the project plan according to the project procedure. evaluate the approach of the current project phase retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
and assign them meaningfully to the team members Plan and moderate content reviews with team members Evaluate project results in the team Modify the project section plan and, if necessary, the project plan according to the project plan according to the project procedure. evaluate the approach of the current project phase retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
the team members Plan and moderate content reviews with team members Evaluate project results in the team Modify the project section plan and, if necessary, the project plan according to the project procedure. evaluate the approach of the current project phase retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
Plan and moderate content reviews with team members Evaluate project results in the team Modify the project section plan and, if necessary, the project plan according to the project procedure. evaluate the approach of the current project phase retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
with team members Evaluate project results in the team Modify the project section plan and, if necessary, the project plan according to the project procedure. evaluate the approach of the current project phase retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
members Evaluate project results in the team Modify the project section plan and, if necessary, the project plan according to the project procedure. evaluate the approach of the current project phase retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
Evaluate project results in the team Modify the project section plan and, if necessary, the project plan according to the project procedure. evaluate the approach of the current project phase retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
Modify the project section plan and, if necessary, the project plan according to the project procedure. evaluate the approach of the current project phase retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
and, if necessary, the project plan according to the project procedure. evaluate the approach of the current project phase retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
project plan according to the project procedure. evaluate the approach of the current project phase retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
project procedure. evaluate the approach of the current project phase retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
evaluate the approach of the current project phase retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
retrospectively and, if necessary, modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
modify it for the next project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
project phase. Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
Document project sections plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
plan access to shared laboratory resources computer tools special workstations and measuring stations special test environments
resources computer tools special workstations and measuring stations special test environments
computer tools special workstations and measuring stations special test environments
tools special workstations and measuring stations special test environments
special workstations and measuring stations special test environments
measuring stations special test environments
special test environments
Prepare project decisions in the team
com
enditure classroom teaching
pe Attendance (h/Wk.)
oject 3
torial (voluntary) 0

© 2022 Technische Hochschule Köln