

Georg-August-Universität Göttingen Module M.Inf.1251: Seminar: Software Evolution	5 C 2 WLH
Learning outcome, core skills: The students <ul style="list-style-type: none"> • learn to become acquainted with an advanced topic in software evolution by studying up-to-date research papers • gain knowledge about advanced topics in software evolution. The advanced topic may be related to areas such as comparison of software projects, defect analysis and prediction, version control and infrastructure, changes and clones, impact analysis, practical applications and experiments, patterns and models, as well as integration and collaboration (process-related and social aspects) • learn to present and discuss up-to-date research on advanced topics in software evolution • learn to assess up-to-date research on advanced topics in software evolution 	Workload: Attendance time: 28 h Self-study time: 122 h
Course: M.Inf.1251.Sem Mining Software Repositories (Seminar) Contents: The topics in this seminar on software evolution will include the following areas: <ul style="list-style-type: none"> • comparison of projects • defect analysis and prediction • version control and infrastructure • beyond source code - text analysis • search and recommendation • changes and clones • impact analysis • practical applications and experiments • available resources • visualization and presentation of results • patterns and models • integration and collaboration (process-related and social aspects) 	2 WLH
Examination: Presentation (approx.45 minutes) and written report (max. 20 pages) M.Inf.1251.Mp: Seminar: Software Evolution Examination prerequisites: Attendance in 80% of the seminar presentations Examination requirements: The students shall show that <ul style="list-style-type: none"> • they are able to become acquainted with an advanced topic in software evolution by investigating up-to-date research publications • they are able to present up-to-date research on an advanced topic in software evolution • they are able to assess up-to-date research on an advanced topic in software evolution 	5 C

<ul style="list-style-type: none"> • they are able to write a scientific report on an advanced topic in software evolution according to good scientific practice <p>Presentation of an advanced topic in software engineering (approx.45 minutes) and written seminar report (max. 20 pages)</p>	
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Admission requirements: none	Recommended previous knowledge: Foundations of software engineering.
Language: English	Person responsible for module: Prof. Dr. Jens Grabowski
Course frequency: unregelmäßig	Duration: 1 semester[s]
Number of repeat examinations permitted: twice	Recommended semester:
Maximum number of students: 30	