

<b>Georg-August-Universität Göttingen</b> <b>Module M.Inf.1155: Seminar: Advanced Topics in Software Engineering</b>	5 C 2 WLH
<b>Learning outcome, core skills:</b> The students <ul style="list-style-type: none"> <li>• learn to become acquainted with an advanced topic in software engineering by studying up-to-date research papers.</li> <li>• gain knowledge about advanced topics in software engineering. The advanced topic may be related to areas such as software development processes, software quality assurance, and software evolution.</li> <li>• learn to present and discuss up-to-date research on advanced topics in software engineering.</li> <li>• learn to assess up-to-date research on advanced topics in software engineering.</li> </ul>	<b>Workload:</b> Attendance time: 28 h Self-study time: 122 h
<b>Course: M.Inf.1155.Sem Seminar on Advanced Topics in Software-Engineering (Seminar)</b> <i>Contents:</i> Topics which will be covered by this seminar can include <ul style="list-style-type: none"> <li>• Usability and Usability-Engineering</li> <li>• User-oriented Usability Testing</li> <li>• Expert-oriented Usability Evaluation</li> <li>• Web-analytics</li> <li>• Information Architecture</li> <li>• SOA – Service-oriented Architecture</li> <li>• UML-Tools and Code Generation</li> <li>• Details of Specific Process Models</li> <li>• Model-driven Architecture</li> <li>• Usage-based Testing</li> <li>• Defect Prediction</li> <li>• Design Patterns</li> <li>• Agent-based Simulation</li> <li>• Reliability-Engineering for Cloud Systems</li> </ul>	2 WLH
<b>Examination: Presentation (approx. 45 minutes) and written report (max. 20 pages)</b> M.Inf.1155.Mp: Seminar: Ausgewählte Aspekte der Softwaretechnik <b>Examination prerequisites:</b> Attendance in 80% of the seminar presentations <b>Examination requirements:</b> The students shall show that <ul style="list-style-type: none"> <li>• they are able to become acquainted with an advanced topic in software engineering by investigating up-to-date research publications.</li> <li>• they are able to present up-to-date research on an advanced topic in software engineering.</li> </ul>	5 C

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