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Teaching software development in MSc. courses: Cooperation of FMFI UK with IT industry

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ACM and IEEE Curricula for Computing science defines seven disciplines of computing. One of the disciplines is Software engineering which deals with development of complex software systems. Software engineering is the important discipline as, according to U.S. Bureau of Labor Statistics, 42% of 'computer and Information technology jobs' are software developers and testers. The issue, however, is how to teach Software engineering at universities. ACM and IEEE curricula specifies main knowledge areas of Software engineering but does not go into details. Moreover, software development has changed significantly since the era Software engineering was coined. Last but not least, universities lack experts on Software engineering as most of them work in industry due to high salaries. This paper describes a successful project in FMFI UK in teaching Software engineering in cooperation of FMFI UK with IT industry. The project includes six courses which join university knowledge on how to organize university education with practices of modern software development in IT industry.

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