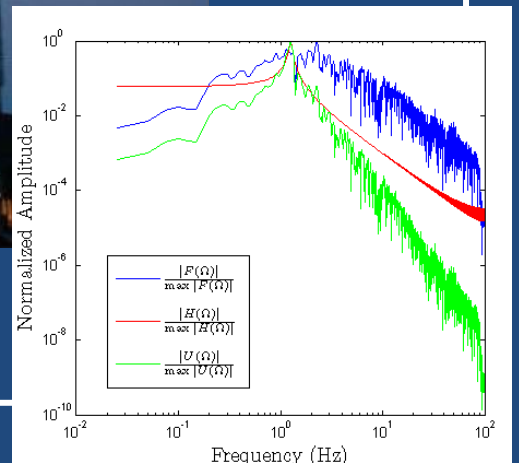
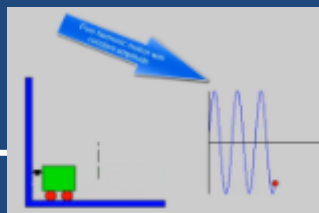
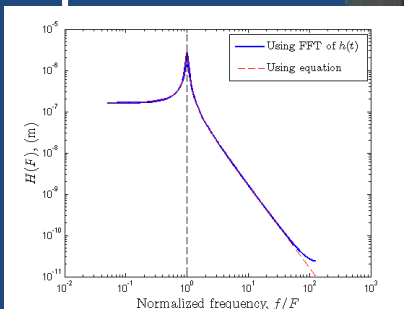
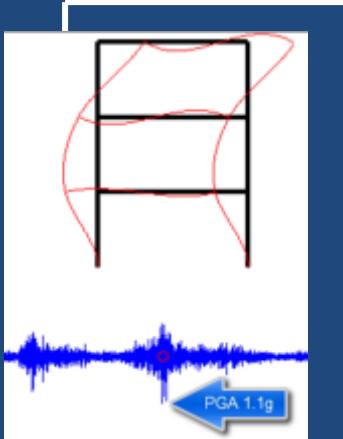


STRUctural Dynamics principles in Earthquake Engineering (STRUDEE)

5 – 27 June 2014, Iceland



– A new International Graduate Summer Course in Iceland –

- The main objective of the course is to educate and train the participants in understanding, modeling, and simulating structural vibrations due to earthquake-induced ground motion.
- Basic understanding of the dynamic response of structures and advanced numerical and analytical skills in modeling and simulating seismic demands on structures is essential in formulating a safe and economical seismic design philosophy. Furthermore, the knowledge and skills in dynamic modeling and simulation of earthquake-induced structural vibrations is essential in correctly and consistently applying standard seismic design codes in practice.
- This course (7.5 ECTS) introduces the theory of dynamic response of structures with emphasis on physical insight into the analytical procedures and with particular application to earthquake engineering. Forced and free vibration of structures at different levels of idealization such as, continuum formulation, single degree of freedom approximation, and finite degree of freedom approximation, is covered. Stochastic modeling of earthquake ground motion and structural response is introduced.
- This course is designed for engineers, researchers, and architects.