

Advanced Seismic Data Acquisition and Processing

Blended Learning
Interactive

Quiz 0: Course Right for You?

The Seismic Reflection method by Jaap van der Toorn

Breakaway

Part	Options								hrs	
1	Day	Week	15	30	10	15	15	60		
	1	1	Skype Introduction	Lecture 1. Moodle	Video 2. Surveys	Break	Video 3. Marine Acquisition 4. Marine Survey Design	Exercise 3D Marine Survey Design		2,42
	1	1	45 Study 6. Seismic	10 Video 7. Shot rays	45 Exercise 8. Shot rays	45 Study 3.1-9	10 Video 9. Refraction 10. Wave propagation	60 Exercise 11. Refraction	10 Quiz Quiz 1	3,75
2	2	2	50 Study 1. Wave propagation	10 Video 2. Field record	45 Exercise 3. Field record	45 Study 3.10-17 4. Survey Design	10 Video 5. Acquisition Geometry	60 Exercise 6. Diagrams 7. Baywatch		3,67
	2	2	50 Study 8. Apparition 9. Continuous	10 Video 10. Wave Propagation	30 Exercise 11. Wave Propagation	30 Study 12. Sparse Geometries 13. SymSam	30 Exercise 14. Snellius	20 Video 15. Microseismicity 16. DAS		2,83
	2	2	45 Exercise 17. Symsam 3D	10 Video 18. Near-surface Statics	45 Exercise 19. Fresnel zone 20. Near-surface Statics	30 Study 21. Refl & Trans	10 Video 22. Refl & Trans	40 Exercise 23. Refl & Trans	15 Quiz Quiz 2	15 Q&A
3	3	3	45 Study 4.3-6	10 Video 1. Sampling & Aliasing	45 Exercise 2. Sampling & Aliasing	45 Study 3. Seismic Processing	10 Video 4. Velocity picking 5. Velocities	60 Exercise 6. Stacking Velocities 7. Velocities		3,58
	3	3	45 Study 5.1-5.5	10 Video 8. KF Transform	45 Exercise 9. KF Transform	45 Study 5.6-5.9	10 Video 10. Multiples	60 Exercise 11. Multiples Stacking 12. Multiples Aliasing		3,58
	3	3	45 Study 13. Fourier Transform	10 Video 14. Cor, Conv, Decon	60 Exercise 15. Corr, Conv, Decon 16. Excel Corr & Conv	45 Study 17. Time Migration	10 Video 18. LSQ Deconvolution	60 Exercise 19. LSQ Deconvolution	15 Quiz Quiz 3	15 Q&A
4	4	4	45 Study 1. Ghosts 2. Tuning 3. FFT	10 Video 4. Fourier Transform 5. Migration diff curves	60 Exercise 6. DFT 7. FFT	45 Study 8. Depth Migration	10 Video 9. Diffraction curves 10. Diffraction Imaging	60 Exercise 11. Diffraction curves		3,83
	4	4	45 Exercise 12. Migration diff curves	10 Video 13. Migration wavefront	45 Exercise 14. Migration wavefront	45 Study 15. RTM	10 Video 16. De-Re-Migration 17. Resolution	45 Exercise 18. De-Re-Migration	10 Quiz Quiz 4	3,50
5	5	5	45 Study 1. Anisotropy	10 Video 2. FWI I 3. FWI II	30 Exercise 4. TDC stretch	45 Study 5. Illumination & PSF	10 Video 6. TDC raytracing	60 Exercise 7. TDC raytracing		3,33
	5	5	45 Study 8. AVAz	10 Video 9. AVO	60 Study 10. PP+PS=SS	45 Study 11. Inv & FWI	30 Video 12. PGK ML	10 Quiz Quiz 5	20 valuation	3,67
									Total	39,58