

Program “Non-Seismic Data Acquisition and Processing”

Month 1

Topic	Dates	hrs	Dates due
Skype introduction conference	1		
Literature	1-30	8.5	30
Chapter 1: The principles and limitations of geophysical exploration methods Q&A Chapter 1		0.5	3
Videos: 1.1			
Chapter 6: Gravity surveying Q&A Chapter 6		4.0	10
Videos: 1.2, 1.3			
Chapter 7a: Magnetic surveying Q&A Chapter 7a		4.0	17
Videos: 1.4, 1.5			
Exercises: Gravity & Magnetics	1-30	4.5	30
Ex_Swing		0.5	9
Ex_Contour map anomaly		0.5	11
Ex_Depth estimation: Half width method		0.5	13
Ex_Depth estimation: Gradient-amplitude method		0.5	15
Ex_4D Gravity		0.5	17
Ex_Gravity response		0.5	19
Ex_Gravity resolution		0.5	22
Ex_Depth estimation Sphere		0.5	25
Ex_Depth estimation anticline		0.5	30
Skype progress conference	29		
Total		13.0	

Ref . An Introduction to Geophysical Exploration, Kearey, Brooks, Hill, ISBNB0-632-04929

Month 2

Topic	Dates	hrs	Dates due
Literature	1-30	8.0	30
Chapter 7b: Magnetic surveying Q&A Chapter 7b		4.0	7
Videos: 1.6, 1.7, 1.8			
Chapter 8: Electrical surveying Q&A Chapter 8		4.0	15
Videos:			
Exercises: Magnetic Methods	1-20	6.0	20
Ex_Finding your local magnetic field		0.5	1
Ex_Resolution Basement		0.5	2
Ex_Magnetic anomaly		0.5	3
Ex_Gravity & Magnetics		0.5	5
Ex_Magnetic Latitude		0.5	7
Ex_Magnetics		0.5	9
Ex_Poisson's relationship		0.5	10
Ex_Magnetic modelling		0.5	12
Ex_Vulcanic sheet		0.5	14
Ex_Generation Synthetic Field and Model data		0.5	18
Ex_Inversion of Synthetic Field data		0.5	20
Exercises: Electrical Methods	20-31	2.0	31
Ex_Effective resistivity		0.5	22
Ex_Electrical surveying		0.5	24
Ex_Electrical Law of refraction		0.5	27
Ex_Resistivity profiles		0.5	31
Videos: 1.9			
Skype progress conference			
Total		16.0	

Ref . An Introduction to Geophysical Exploration, Kearey, Brooks, Hill, ISBNB0-632-04929

Month 3

Topic	Dates	hrs	Dates due
Literature	1-31	8.0	31
Chapter 9 : EM surveying Q&A Chapter 9		4.0	
Videos: 1.10, 1.11			
Special Topics: EM, VOI Q&A Special Topics		4.0	
Exercises: EM	1-26	6.5	26
Ex_EM		0.5	3
Ex_EM Refraction		0.5	6
Ex_CSEM		0.5	9
Ex_To use or not to use		0.5	11
Ex_TEM		0.5	14
Ex_CSEM: Scripps modelling I		2.0	23
Ex_CSEM: Scripps modelling II		2.0	26
Exercises: VOI	26-31	2.0	31
Ex_VOI		2.0	31
Videos: 1.15			
Final quizt			
Skype final conference	31		
Total		16.5	
Grand Total		45.5	

Ref . An Introduction to Geophysical Exploration, Kearey, Brooks, Hill, ISBNB0-632-04929

For information on the fee and registration please contact info@epts.org .