



Schedule

Calendar	nº Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
Oct						1 Presentation Introduction E. Carro / R Rdguez / J. Navarro	2	3	
		Module 1. PETROLEUM GEOLOGY							
	1	4 PG1.1 J Eugenio	5 PG1.1 J Eugenio	6 PG1.1 P. Camara	7 PG1.2 P. Camara	8 PG1.2 J Eugenio	9 J Eugenio	10	
		Module 1. PETROLEUM GEOLOGY						1 day field trip Minas	
	2	11 PG1.2 P. Camara	12	13 PG1.2 J Eugenio	14 PG1.2 P. Camara	15 PG1.3 J. Navarro	16	17	
		Module 1. PETROLEUM GEOLOGY							
	3	18 PG1.3 J. Navarro	19 PG1.3 J. Navarro	20 PG1.4 MJ Garcia / Y Sanchez-P	21 PG1.4 MJ Garcia / Y Sanchez-P	22 PG1.4 MJ Garcia / Y Sanchez-P	23	24	
		Module 2. GEOPHYSICS							
	4	25 PG1.4 MJ Garcia / Y Sanchez-P	26 Int PGP2 PGPH2.1 MdGiulio&AHourcade	27 PGP2.1 A. Maldonado	28 PGP2.1 MdGiulio&AHourcade	29 PGP2.1 MdGiulio&AHourcade	30	31	

COURSES

1. PETROLEUM GEOLOGY (PG)

- PG1.1 SEDIMENTARY ROCKS AND SEDIMENTARY BASINS
- PG1.2 STRUCTURAL GEOLOGY
- PG1.3 BASIN ANALYSIS AND PETROLEUM SYSTEMS
- PG1.4 PETROLEUM GENERATION AND MIGRATION. ROCK EVAL
- TRIP TO SIERRA DE MADRID

Calendar	nº Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
Nov		Module 13. Field Trip							
	5	1	2 Eval MOD 1 PGPH2.2 J. Klimowitz	3 PGP2.2 J. Klimowitz	4 PGP2.2 J. Klimowitz	5 Geophys FP Exerc PGP2.2 Lab Klimowitz/Escala	6	7 FT13	
		Module 2. GEOPHYSICS							
	6	8 FT13 North Spain	9 FT13 Field Trip	10 FT13 North Spain	11 FT13 Field Trip	12 FT13	13	14	
		Module 2. GEOPHYSICS							
	7	15 PGP2.3 C. Barrere	16 PGP2.3 C. Barrere	17 PGP2.4 M. Gutierrez	18 PGP2.4 M. Gutierrez	19 PGP2.4 M. Gutierrez	20	21	
		Module 2. GEOPHYSICS							
	8	22 Eval MOD 2.1-2.3 PGPH2.4 M. Gutierrez	23 PGP2.4 Lab M. Gutierrez	24 PGP2.4 IP software Lab M. Gutierrez	25 PGP2.4 IP software Lab M. Gutierrez	26 PGP2.5 Lab S. Ledesma	27	28	

2. GEOPHYSICS (PGPH)

- PGPH2.1 ACQUISITION AND PROCESSING OF 2D/3D SEISMIC
- PGPH2.2 SEISMIC INTERPRETATION AND SUBSURFACE MAPPING
- PGPH2.3 GRAVITY AND MAGNETIC TECHNIQUES
- PGPH2.4 WELL LOGGING
- PGPH2.5 PROSPECT AND PLAY ASSESSMENT: RISK ANALYSIS

Calendar	nº Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
Dec		Module 2. GEOPHYSICS							
	9	29 PGP2.5 Lab S. Ledesma	30 PGP2.5 Lab S. Ledesma	1 PGP2.5 REP software Lab S. Ledesma	2 Int DE3 DE3.1 F. Steegmann	3	4	5	
		Module 3. DRILLING ENGINEERING							
	10	6	7	8	9 Eval MOD 2.4-2.5 DE3.1 J. Herrera	10 Int DE3 DE3.1 J. Herrera	11	12	
		Module 3. DRILLING ENGINEERING							
	11	13 DE3.2 J. Herrera	14 DE3.2 E. Rojas	15 DE3.3 J. Cáceres	16 DE3.3 J. Cáceres	17 DE3.4 J. Cáceres	18	19	
	Halliburton Course								
12	20 Trip Geophysics?? DE3.5 J.Moro/F.Steegmann	21 DE3.5 J.Moro/F.Steegmann	22 DE3.5 J.Moro/F.Steegmann	23	24	25	26		
13	27	28	29	30	31	1	2		
	CHRISTMAS HOLIDAYS								

3. DRILLING ENGINEERING (DE)

- DE3.1 BASIC DRILLING TECHNIQUES
- DE3.2 DRILLING FLUIDS AND HYDRAULICS
- DE3.3 CASING AND CEMENTING
- DE3.4 DIRECTIONAL, HORIZONTAL AND MULTILATERAL DRILLING
- DE3.5 WELL DESIGN, PLANNING AND ENGINEERING

Calendar	nº Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
Jan	14	3	4	5	6	7	8	9	
		CHRISTMAS HOLIDAYS							
		Module 4. RESERVOIR ENGINEERING							
	15	10 Eval MOD 3 RE4.1 Int RE4 J Eugenio	11 RE4.1 J Eugenio	12 RE4.1 Raul Rodriguez	13 Exerc RE4.1 J Eugenio	14 RE4.2 Lab Laura Valle	15	16	
	Module 4. RESERVOIR ENGINEERING								
16	17 RE4.2 Lab Laura Valle	18 RE4.2 Lab Ana Maria Gª	19 RE4.2 Lab Ana Maria Gª	20 Exerc RE4.2 RE4.2 E. Carro/L. Valle	21 RE4.2 E. Carro/L. Valle	22	23		
	Module 4. RESERVOIR ENGINEERING								
17	24 RE4.2 E. Carro/L. Valle	25 RE4.2 E. Carro/L. Valle	26 RE4.4 Lab Luis Gibbons	27 RE4.4 Lab Luis Gibbons	28	29	30		

4. RESERVOIR ENGINEERING (RE)

- RE4.1 RESERVOIR GEOLOGY
- RE4.2 BASIC RESERVOIR ENGINEERING
- RE4.3 WELL TESTING DESIGN AND ANALYSIS (DST)
- RE4.4 RESERVOIR DYNAMIC SIMULATION
- RE4.5 ENHANCED OIL RECOVERY TECHNIQUES

Calendar	nº Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
Feb		Module 4. RESERVOIR ENGINEERING							
	18	31 Eval 4.1-4.2 RE4.3 Lab Luis Gibbons	1 RE4.3 Lab Luis Gibbons	2 RE4.3 Lab C.I. & R.R.	3 RE4.3 Lab C.I. & R.R.	4 RE4.4 Lab C.I. & R.R.	5	6	
		Module 4. RESERVOIR ENGINEERING							
	19	7 RE4.4 Lab C.I. & R.R.	8 RE4.4 Lab C.I. & R.R.	9 RE4.4	10 Dynamic M FP Exerc RE4.4 Lab C.I. & R.R.	11 RE4.5 J del Moral	12	13	
		Module 5. PRODUCTION AND COMPLETION ENGINEERING							
20	14 RE4.5 J del Moral	15 Int P5 P5.1 Isidro S	16 P5.1 Isidro S	17 P5.2 Isidro S	18 CTCepsa RE4.5 Pres J del Moral (2h)	19	20		
	Module 5. PRODUCTION AND COMPLETION ENGINEERING								
21	21 Eval 4.3,4.4,4.5 P5.2 Isidro S	22 P5.3 Sergio J	23 P5.3 Sergio J	24 P5.4 Sergio J	25 Trip Geophysi Seminar Susana Gomez Alv	26	27		

5. PRODUCTION AND COMPLETION ENGINEERING (P)

- P5.1 PRODUCTION AND COMPLETION OPERATIONS
- P5.2 WELL DYNAMIC BEHAVIOUR
- P5.3 WORKOVER AND WELL STIMULATION
- P5.4 ARTIFICIAL LIFT METHODS



Preliminary Schedule

March	22.	28	1 Int SF6	2	2	4	5	6
		P5.4	SF6.1	SF6.1	SF6.1	Aspen		
		Sergio J	Isidro S	Isidro S	Isidro S	Lab Enrique Q		
		Module 6. SURFACE FACILITIES ENGINEERING						
			PF12	PF12	PF12	PF12		
		7	8	9	10	11		
	Eval MOD 5	SF6.2	SF6.2	SF6.3	SF6.3	Aspen		
	M. Moreu	M. Moreu	E. Arias	E. Arias	Lab Isidro S/Enrique Q			
	Module 6. SURFACE FACILITIES ENGINEERING							
		PF12	PF12	APP				
	14	15	16	17	18			
	SF6.3	SF6.3	SF6.3	SF6.3	Int SG7			
	Lab Luis Mazadiego	Lab Luis Mazadiego	Lab Luis Mazadiego	Lab Luis Mazadiego	Lab A Maldonado/MT Aguado			
	Module 7. SHALE OIL & GAS RESERVOIRS AND COMPLETIONS							
	21	22	23	24	25			
	Eval MOD 6	SG7.1	SG7.1	Int GS8	GS8.1			
	R. Rodríguez	E. Carro	Antonio/Sonsoles	JE Ortiz / Bernardo LL	Laura Valle / Rob Mart			
	Module 8. GAS & CO2 STORAGE / Module 9. LNG							
	28	29	30	31	1			
	GS8.2	GS8.2	GS8.3	Int LNG9	Yela			
	A.M. García	A.M. García	C de Dios-C Martínez	E. Dameno	IP			

6. SURFACE FACILITIES ENGINEERING (SF)

- SF6.1 OIL AND GAS PROCESSING
- SF6.2 OFFSHORE PLATFORMS
- SF6.3 PROJECT PLANNING

7. SHALE OIL AND GAS: RESERVOIRS AND COMPLETIONS (SG)

- SG7.1 RESERVOIR CHARACTERIZATION AND RESERVES
- SG7.2 FRACKING AND ENVIRONMENT ISSUES

8. GAS AND CO2 UNDERGROUND STORAGE (GS)

- GS8.1 GAS AND CO2 UNDERGROUND STORAGE
- GS8.2 GAS UNDERGROUND STORAGE FACILITIES
- GS8.3 CO2 UNDERGROUND STORAGE FACILITIES

YELA+SERRABLO

April	27.	4	5	6	7	8	9	10
		LNG9.1	LNG9.2	LNG9.2	LNG9.3	LNG9.3		
		E. Querol	P. Quiroga	J. Zickermann	R. Mosquera	V Tuñon-A. Vigre		
		EASTER WEEK						
		11	12	13	14	15		
	Module 9. LNG							
	18	19	20	21	22			
		Eval M 7 & 8	LNG9.4	LNG9.4	Int HSE 10	Aspen		
					Enrique			
		V Tuñon-A. Vigre	C. Humphrey-R Diaz	Liliana	Lab Isidro S/Enrique Q			
	Module 10. HEALTH, SAFETY AND ENVIRONMENT							
	25	26	27	28	29			
	Int HSE 10	HSE10.1	HSE10.2	HSE10.2	Seminar			
	Liliana	E. Arias	MJ Garcia / Y Sanchez-P	MJ Garcia / Y Sanchez-P				

9. LIQUEFIED NATURAL GAS (LNG)

- LNG9.1 NATURAL GAS LIQUEFACTION PLANTS
- LNG9.2 REGASIFICATION PLANTS AND LNG TANKERS
- LNG9.3 LNG INTERNATIONAL MARKETS
- LNG9.4 LNG ECONOMICS

10. HEALTH, SAFETY AND ENVIRONMENT (HSE)

- HSE10.1 SAFETY MANAGEMENT SYSTEM
- HSE10.2 ENVIRONMENTAL IMPACT ASSESSMENT FOR E&P

11. PETROLEUM ECONOMICS (PE)

- PE11. OPEN DAY
- PE11.1 BASIC PRINCIPLES OF ECONOMICS AND ACCOUNTING IN
- PE11.2 CONTRACT TYPES AND LICENSE APPLICATION
- PE11.3 ECONOMICS. VALUATION OF COMPLEX ASSETS
- PE11.4 BUSINESS STRUCTURE & STRATEGIC PLANNING

May	31.	2	3	4	5	6	7	8
			Seminar	Seminar	Petrel-IP	Petrel-IP		
					S. Escalante	S. Escalante		
		Module 11. PETROLEUM ECONOMICS						
		ENAGAS Course						
	9	10	11	12	13			
	PE11.1	PE11.1	PE11.1	PE11.1	PE11.2			
	O. Aguado (J. García	J.M. M-Val	JM. M-Val / F. Maldonado	A. Martín	M. Hernando / O. Aguado			
	Module 11. PETROLEUM ECONOMICS							
	16	17	18	19	20			
	PE11.3	PE11.3	PE11.4	PE11.3	PE11.3			
	F. Maldonado	L. Rodríguez	O. Aguado / MA Remon	F. Maldonado	F. Maldonado			
	U of Oklahoma Course							
	23	24	25	26	27			
	Eval MOD 11				Visit			
					Serrablo			

12. PETROPHYSICS (LAB)

Lab during March mornings. Groups of 7-8 students

13. FIELD TRIP (FT)

After the Module of Petroleum Geology (PG1)

June	35.	30	31	1	2	3	4	5
		Papers Presentation	Papers Presentation	CTR Repsol	FP14	FP14	FP14	
		E. Carro / I. Solorzano	E. Carro / I. Solorzano					
		Module 14. FINAL WORK						
		6	7	8	9	10		
	FP14	FP14	Eclipse	FP14	FP14			
	Module 14. FINAL WORK							
	13	14	15	16	17			
	FP14	FW14	FP14	FP14	FP14			
	Module 14. FINAL WORK							
	20	21	22	23	24			
	FW14	FW14	FW14	FW14	FW14			
	Module 14. FINAL WORK							
	27	28	29	30	1			
	FP14	FP14	FP14	Defense	FP14			

14. FINAL PROJECT (FP)

Presentations of the Final Master's Degree Work at the end of June and beginning of July

July	35.	4	5	6	7	8	9	10
		Defense	FP14	Defense	FP14	FP14	FP14	
	Module 14. FINAL WORK							
	36.	11	12	13	14	15	16	17
		Defense	FP14	Defense	FP14	FP14	FP14	