

Appendix X

FINAL YEAR PROJECT (FYP) DETAILS BATCH 2019

S.NO	TOPIC	EXTERNAL SUPERVISOR NAME	COMPANY
1	Optimum development strategies for solution-gas drive and water drive oil reservoirs	Sir Muhtashim Ejaz / Sir Hasan Shahid	UEPL
2	Field Development and Optimization of naturally fractured reservoir	Sir Saad Bin Abrar	PPL
3	Multistage Hydraulic Frac design in horizontal well	Qaiseer hafeez	UEPL
4	Study the impacts of enhanced oil recovery method on oil reservoir	Sadam Hussain / Mufaddal Murtuza.	UEPL
5	Development of automated real time Drilling hazard analysis platform to help manage drilling parameters for safe and efficient drilling	Safiullah	PPL
6	Application of Machine Learning Concepts in Reservoir Simulation- Innovative Approach	Unce ur Rehman	HALLIBURTON
7	Design an environmental friendly water-based inhibitive drilling fluid to minimize chemical Wellbore Instability in Ranikot formation. And optimizing HPHT fluid loss using nano-based particles.	Usama Nadeem	HALLIBURTON
8	Formation Damage Characterization and Remediation in Sandstone Reservoir	Azar Awase, Huda Taj	UEPL
9	Study of Rock and Fluid properties and	Muneez Iqbal /	UEPL

Appendix X-Final Year Projects Details

	their distribution based on available data to develop regional correlations	Muhammad Hasnain	
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FINAL YEAR PROJECT (FYP) DETAILS BATCH 2018

S.NO	TOPIC	EXTERNAL SUPERVISOR NAME	COMPANY
1	Prevention of Mud Dephasing due to cement contamination during COC	Engr. Syed Amir Ali	Schlumberger
2	Effect of carbonates (CO ₃) and Bi-carbonates HCO ₃ on clay shale swelling	Engr. Syed Amir Ali	Schlumberger
3	Recovery Optimization in Gas Condensate Reservoirs	Engr. Saad Mehmood Engr. Muneez Iqbal	United Energy Pakistan Limited (UEPL)
4	Sensitivity and Economic Analysis of In-situ CO ₂ EOR in Unconventional Tight Reservoir	Engr. Sadam Hussain	United Energy Pakistan Limited (UEPL)
5	Formulation of an Environment friendly hybrid Nano Drilling Fluid using Aloe-Vera gel and Nano Scale SiO ₂	Engr. Usama Yousuf	National Oil Well Varco
6	Experimental Investigation of the applicability of nanotechnology for enhanced Oil Recovery	Engr. Daniyal Nafees	Mari Petroleum Company Limited (MPCL)
7	Synthesis and Evaluation of an Environmentally friendly Acidizing Fluid laced with activated carbon for Carbonate Rocks	Engr. Haleem-u-ddin Farooqui	POL
8	Experimental Study of Chemical Enhance Oil Recovery in Pakistan Oil Formations	Engr. Syed Adnan-ul-Haq	NED University of Engineering & Technology

FINAL YEAR PROJECT (FYP) DETAILS BATCH 2017

S.NO	TOPIC	EXTERNAL SUPERVISOR NAME	COMPANY
1	Development of Gas Field using Classical and Numerical Method	Mr. Saad Mehmood	UEPL
2	Generation of New IPR Empirical Correlation for Vertical Well Producing from Multi Layered Oil Reservoir with Cross Flow between the Layers	Mr. Abdul Bari and Muhammad Khan	Schlumberger
3	Optimization of Oil Field Development with Artificial Lift and Waterflooding	Mr. Saad Mehmood	UEPL
4	Swelling Characteristics of formations by using Mud Additives at nano-scale	Mr. Muhammad Danish Anwar	Schlumberger
5	Evaluation of Foam Lift Technique on Gas Wells	Mr. Zeeshan Hassan	UEPL
6	To reduce Shale Swelling by using Nano-Based Drilling Fluids	Dr. Javed Haneef	NED University of Engineering & Technology

FINAL YEAR PROJECT (FYP) DETAILS BATCH 2016-17

S.NO	TOPIC	EXTERNAL SUPERVISOR NAME	COMPANY
1	Field Development Planning Using Classical Reservoir Engineering Approaches	Mr. Saad Mehmood	United Energy Pakistan
2	Application of Artificial lift mechanism (FOAM ASSISTED LIFT) for the gas wells with high water gas ratio in a brown gas field.	Mr. Muhammad Yunus Javed	Pakistan Petroleum Limited
3	Smart Drilling Fluids (A Comparative Analysis of Nano Particles)	Mr. Hajesh Lodhi.	Baker Hughes.
4	Optimization of NPV of gas condensate reservoir using reservoir simulation	Mr. Saad Abrar	Pakistan Petroleum Limited
5	Evaluation of narrow pore pressure / fracture pressure window wells for managed pressure drilling application	Mr. Safiullah	Pakistan Petroleum Limited
6	T&D Analysis and BHA Selection for Deep Wells	Mr. Umair Ahmed Baig	Pakistan Petroleum Limited
7	Production Optimization of a Brown Field Utilizing Data Analysis through OFM	Mr. Abdul Bari & Mr. Muhammad Khan	Schlumberger
8	Stress analysis of completion string of deep and ultra high pressure gas well	Mr. Hassaan Ahmed	Pakistan Petroleum Limited

FINAL YEAR PROJECT (FYP) DETAILS BATCH 2015-16

SR. No.	TOPIC	EXTERNAL SUPERVISOR NAME	COMPANY
1	Networking Modeling of a Depleted Gas Field	Mr. M. Yunus Javed	Pakistan Petroleum Limited
2	Design & Analysis of Hydraulic Fracturing Treatments in Tight Sand reservoir of Lower Indus Basin	Mr. Qazi Ismail Ahmed	United Energy Pakistan Limited
3	Mature Field Optimization	Mr. Muhammad Shahid	Pakistan Petroleum Limited
4	Mud Design and Rig Selection Considering HPHT Well	Mr. Muhammad Azhar	Pakistan Petroleum Limited
5	Casing Design o HPHT Well	Mr. Owais Quershi	Pakistan Petroleum Limited
6	Field Development Plan and Comparative Analysis of a Rich Gas Condensate Reservoir	Mr. Syed Saud uzZafar	United Energy Pakistan Limited
7	Well Completion Design with Focus on Well Integrity and Optimal Production of HT Well	Mr. Talha Anwar	Pakistan Petroleum Limited
8	Well Planning and Design an Analysis of Deviated Well	Mr. Reza Kazmi	Rystad Energy

FINAL YEAR PROJECT (FYP) DETAILS BATCH 2014-15

SR. No.	TOPIC	EXTERNAL SUPERVISOR NAME	COMPANY
1	Integrated Field Modeling and Production Optimization of a Mature Gas Field	Mr. Ghulam Waqas	Pakistan Petroleum Limited
2	Design and Optimization of an Environmentally friendly WB Drilling Fluid to Reduce Wellbore Instability Due to Reactive Formation	Mr. Muhammad Amir	MISWACO
3	Improved Oil Recovery with Optimized Water flooding in a Low Permeability Oil Reservoir	Mr. Waqas Ali	United Energy Pakistan Limited
4	Application of Genetic Algorithm in Well Placement Optimization	Mr. Hassan Ahmed	Pakistan Petroleum Limited
5	Selection Criteria for Artificial Life Methods (A Comparative Study)	Mr. Imtiaz Ali	ENI Pakistan
6	Review and Design of Canister Desorption Apparatus for the Evaluation of Shale Matrix permeability	Mr. Syed Saud uzZafar	United Energy Pakistan Limited
7	Feasibility of Shale Gas Development in Pakistan	Mr. Naeem-ul-Hassan Dahraj	Pakistan Petroleum Limited
8	Analysis of Factors Affecting Well Cementing to Obtain Zonal Isolation and Zero Sustained Casing Pressure	Mr. Yasir Irfan	Pakistan Petroleum Limited