# B.E. Curriculum (Scheme of studies & course contents)

Attached below is the Scheme of Studies for the Department of Petroleum and Gas Engineering

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| **First Semester** | | | |  | | **Second Semester** | | | |
| **Course Code** | **Course Title** | **Theory** | **Lab** |  | **Course Code** | | **Course Title** | **Theory** | **Lab** |
| PGE-1101 | Fundamentals of Petroleum Engineering | 3 | 0 | PGE-1001 | | Applied Geology | 2 | 1 |
| CHEM-1001 | Applied Chemistry | 2 | 1 | BS-1001 | | Applied Physics | 3 | 1 |
| MATH-1004 | Calculus and Analytical Geometry | 3 | 0 | HUM-1002 | | Pakistan Studies | 2 | 0 |
| HUM-1001 | Islamic Studies /Ethics | 2 | 0 | HUM-1004 | | Technical Report Writing & Communication Skills | 3 | 0 |
| HUM-1003 | Functional English | 3 | 0 | PGE-1501 | | Computer Programming and Software Application | 2 | 1 |
| PGE-1102 | Workshop Practice | 0 | 2 | PGE-1103 | | Engineering Drawing | 0 | 2 |

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| **Course Code** | **Course Title** | **Theory** | **Lab** |  | **Course Code** | | **Course Title** | **Theory** | **Lab** |
| PGE-1101 | Fundamentals of Petroleum Engineering | 3 | 0 | PGE-1001 | | Applied Geology | 2 | 1 |
| CHEM-1001 | Applied Chemistry | 2 | 1 | BS-1001 | | Applied Physics | 3 | 1 |
| MATH-1004 | Calculus and Analytical Geometry | 3 | 0 | HUM-1002 | | Pakistan Studies | 2 | 0 |
| HUM-1001 | Islamic Studies /Ethics | 2 | 0 | HUM-1004 | | Technical Report Writing & Communication Skills | 3 | 0 |
| HUM-1003 | Functional English | 3 | 0 | PGE-1501 | | Computer Programming and Software Application | 2 | 1 |
| PGE-1102 | Workshop Practice | 0 | 2 | PGE-1103 | | Engineering Drawing | 0 | 2 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **First Semester** | | | |  | | **Second Semester** | | | |
| **Course Code** | **Course Title** | **Theory** | **Lab** |  | **Course Code** | | **Course Title** | **Theory** | **Lab** |
| PGE-1101 | Fundamentals of Petroleum Engineering | 3 | 0 | PGE-1001 | | Applied Geology | 2 | 1 |
| CHEM-1001 | Applied Chemistry | 2 | 1 | BS-1001 | | Applied Physics | 3 | 1 |
| MATH-1004 | Calculus and Analytical Geometry | 3 | 0 | HUM-1002 | | Pakistan Studies | 2 | 0 |
| HUM-1001 | Islamic Studies /Ethics | 2 | 0 | HUM-1004 | | Technical Report Writing & Communication Skills | 3 | 0 |
| HUM-1003 | Functional English | 3 | 0 | PGE-1501 | | Computer Programming and Software Application | 2 | 1 |
| PGE-1102 | Workshop Practice | 0 | 2 | PGE-1103 | | Engineering Drawing | 0 | 2 |

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| **First Semester** | | | |  | | **Second Semester** | | | |
| **Course Code** | **Course Title** | **Theory** | **Lab** |  | **Course Code** | | **Course Title** | **Theory** | **Lab** |
| PGE-1101 | Fundamentals of Petroleum Engineering | 3 | 0 | PGE-1001 | | Applied Geology | 2 | 1 |
| CHEM-1001 | Applied Chemistry | 2 | 1 | BS-1001 | | Applied Physics | 3 | 1 |
| MATH-1004 | Calculus and Analytical Geometry | 3 | 0 | HUM-1002 | | Pakistan Studies | 2 | 0 |
| HUM-1001 | Islamic Studies /Ethics | 2 | 0 | HUM-1004 | | Technical Report Writing & Communication Skills | 3 | 0 |
| HUM-1003 | Functional English | 3 | 0 | PGE-1501 | | Computer Programming and Software Application | 2 | 1 |
| PGE-1102 | Workshop Practice | 0 | 2 | PGE-1103 | | Engineering Drawing | 0 | 2 |
|  | | | | | Total Credit Hours | | | 136 | |