

|                                                                                   |                                                                                  |  |                                                                              |  |                                                                                     |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--|------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|
|  | Alayen Iraqi University                                                          |  | جامعة العين العراقية                                                         |  |  |
|                                                                                   | Bachelor's level (First cycle) - Honors Bachelor degree in Petroleum Engineering |  | بكالوريوس في هندسة النفط (الدورة الأولى)                                     |  |                                                                                     |
|                                                                                   | Four years (Eight semesters) - 240 ECTS credits - 1 ECTS = 25hr                  |  | أربع سنوات (ثمانية فصول دراسية) - 240 وحدة اوردية - كل وحدة اوردية = ٢٥ ساعة |  |                                                                                     |
|                                                                                   | Program Curriculum (2023 - 2024)                                                 |  | المناهج الدراسي للعام 2025-2024                                              |  |                                                                                     |

| Level | Semester | No.                   | Module Code        | Module Name in English                       | اسم المادة الدراسية          | Language            | SSWL (hr/w) |             |             |            |            |             | Exam hr/sem | SSWL hr/se m | USSW L hr/se m | SWL hr/se m    | ECTS        | Modu le Type | Prerequisite Module(s) Code |                             |
|-------|----------|-----------------------|--------------------|----------------------------------------------|------------------------------|---------------------|-------------|-------------|-------------|------------|------------|-------------|-------------|--------------|----------------|----------------|-------------|--------------|-----------------------------|-----------------------------|
|       |          |                       |                    |                                              |                              |                     | CL (hr/w)   | Lect (hr/w) | Lab (hr/w)  | Pr (hr/w)  | Tut (hr/w) | Semn (hr/w) |             |              |                |                |             |              |                             |                             |
| UGI   | First    | 1                     | PENG116            | General Geology I                            | الجيولوجيا العامة I          | English             | 3           |             | 2           |            |            |             | 4           | 79           | 96             | 175            | 7.00        | C            |                             |                             |
|       |          | 2                     | PENG115            | Engineering Mechanics                        | الميكانيك الهندسي            | English             | 3           |             |             |            | 1          |             | 3           | 63           | 112            | 175            | 7.00        | C            |                             |                             |
|       |          | 3                     | CENG114            | Mathematics I                                | الرياضيات I                  | English             | 2           |             |             |            | 2          |             | 3           | 63           | 87             | 150            | 6.00        | B            |                             |                             |
|       |          | 4                     | CENG113            | Workshop Technology                          | تكنولوجيا الورشة             | English             |             |             | 2           |            |            |             | 3           | 33           | 42             | 75             | 3.00        | S            |                             |                             |
|       |          | 5                     | CENG112            | Computer Science I                           | الحاسوب I                    | English             | 1           |             | 2           |            |            |             | 3           | 48           | 27             | 75             | 3.00        | B            |                             |                             |
|       |          | 6                     | GE111              | English Language I                           | اللغة الانكليزية I           | English             | 2           |             |             |            |            |             | 3           | 33           | 17             | 50             | 2.00        | B            |                             |                             |
|       |          | 7                     | GE110              | Democracy and Human Rights                   | الديمقراطية وحقوق الانسان    | Arabic              | 2           |             |             |            |            |             | 3           | 33           | 17             | 50             | 2.00        | B            |                             |                             |
|       |          |                       |                    |                                              |                              | Total               | 13          | 0           | 6           | 0          | 3          | 0           | 22          | 352          | 398            | 750            | 30.00       |              |                             |                             |
|       | Second   |                       |                    |                                              |                              |                     |             |             |             |            |            |             |             |              |                |                |             |              |                             |                             |
|       |          | Semester              | No.                | Module Code                                  | Module Name in English       | اسم المادة الدراسية | Language    | SSWL (hr/w) |             |            |            |             |             | Exam hr/sem  | SSWL L hr/se m | USSW L hr/se m | SWL hr/se m | ECTS         | Modu le Type                | Prerequisite Module(s) Code |
|       |          |                       |                    |                                              |                              |                     |             | CL (hr/w)   | Lect (hr/w) | Lab (hr/w) | Pr (hr/w)  | Tut (hr/w)  | Semn (hr/w) |              |                |                |             |              |                             |                             |
|       |          | 1                     | PENG126            | General Geology II                           | الجيولوجيا العامة II         | English             | 3           |             | 2           |            |            |             |             | 4            | 79             | 96             | 175         | 7.00         | C                           | PENG116                     |
|       |          | 2                     | CENG125            | Physics                                      | الفيزياء                     | English             | 3           |             |             |            |            | 1           |             | 3            | 63             | 37             | 100         | 4.00         | C                           |                             |
|       |          | 3                     | PENG124            | Chemistry                                    | الكيمياء                     | English             | 2           |             | 2           |            |            |             |             | 3            | 63             | 37             | 100         | 4.00         | C                           |                             |
|       |          | 4                     | CENG123            | Mathematics II                               | الرياضيات II                 | English             | 2           |             |             |            |            | 2           |             | 3            | 63             | 87             | 150         | 6.00         | B                           | CENG114                     |
|       |          | 5                     | CENG122            | Engineering Drawing and Descriptive Geometry | الرسم الهندسي والهندسة الوصف | English             | 1           |             | 3           |            |            |             |             | 3            | 63             | 37             | 100         | 4.00         | B                           |                             |
| 6     | GE121    | Engineering Practices | التطبيقات الهندسية | Arabic                                       | 2                            |                     |             |             |             | 1          |            | 3           | 48          | 52           | 100            | 3.00           | B           |              |                             |                             |
| 7     | GE120    | Arabic Language       | اللغة العربية      | Arabic                                       | 2                            |                     |             |             |             |            |            | 3           | 33          | 17           | 50             | 2.00           | B           |              |                             |                             |
|       |          |                       |                    |                                              | Total                        | 15                  | 0           | 7           | 1           | 3          | 0          | 22          | 412         | 363          | 775            | 30.00          |             |              |                             |                             |

| Level | Semester | No.   | Module Code               | Module Name in English                | اسم المادة الدراسية        | Language | SSWL (hr/w) |             |            |           |            |             | Exam hr/sem | SSWL hr/se m | USSW L hr/se m | SWL hr/se m | ECTS  | Modu le Type | Prerequisite Module(s) Code |         |
|-------|----------|-------|---------------------------|---------------------------------------|----------------------------|----------|-------------|-------------|------------|-----------|------------|-------------|-------------|--------------|----------------|-------------|-------|--------------|-----------------------------|---------|
|       |          |       |                           |                                       |                            |          | CL (hr/w)   | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) |             |              |                |             |       |              |                             |         |
| UGI   | Third    | 1     | PENG216                   | Structural Geology                    | الجيولوجيا التركيبية       | English  | 3           |             | 2          |           |            |             | 3           | 78           | 72             | 150         | 6.00  | C            |                             |         |
|       |          | 2     | PENG215                   | Fundamentals of Petroleum Engineering | اساسيات هندسة النفط        | English  | 2           |             |            |           | 2          |             | 3           | 63           | 87             | 150         | 6.00  | C            |                             |         |
|       |          | 3     | PENG214                   | Petroleum Properties                  | خواص النفط                 | English  | 2           |             | 2          |           |            |             | 3           | 63           | 37             | 100         | 4.00  | C            |                             |         |
|       |          | 4     | CENG213                   | Mathematics III                       | الرياضيات III              | English  | 2           |             |            |           | 1          |             | 3           | 48           | 77             | 125         | 5.00  | B            |                             |         |
|       |          | 5     | CENG212                   | Computer Science II                   | الحاسوب II                 | English  | 1           |             | 2          |           |            |             | 3           | 48           | 27             | 75          | 3.00  | B            |                             |         |
|       |          | 6     | GE211                     | Arabic LanguageII                     | اللغة العربية II           | English  | 2           |             |            |           |            |             | 3           | 33           | 17             | 50          | 2.00  | B            | GE120                       |         |
|       |          | 7     | PE210                     | Thermodynamics                        | الترمودينامك               | English  | 3           |             |            |           | 1          |             | 3           | 63           | 37             | 100         | 4.00  | C            | CENG125                     |         |
|       |          |       |                           |                                       |                            | Total    | 15          | 0           | 6          | 0         | 4          | 0           | 21          | 396          | 354            | 750         | 30.00 |              |                             |         |
| UGII  | Semester | No.   | Module Code               | Module Name in English                | اسم المادة الدراسية        | Language | SSWL (hr/w) |             |            |           |            |             | Exam hr/sem | SSWL hr/se m | USSW L hr/se m | SWL hr/se m | ECTS  | Modu le Type | Prerequisite Module(s) Code |         |
|       |          |       |                           |                                       |                            |          | CL (hr/w)   | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) |             |              |                |             |       |              |                             |         |
|       | Fourth   | 1     | PENG226                   | Petroleum Geology                     | الجيولوجيا النفطية         | English  | 3           |             | 2          |           |            |             |             | 3            | 78             | 72          | 150   | 6.00         | C                           | PENG216 |
|       |          | 2     | PENG225                   | Fluid Mechanics                       | ميكانيك الموائع            | English  | 2           |             | 2          |           |            |             |             | 3            | 63             | 37          | 100   | 4.00         | C                           |         |
|       |          | 3     | PENG224                   | Strength of Materials                 | مقاومة المواد              | English  | 2           |             | 2          |           |            |             |             | 3            | 63             | 37          | 100   | 4.00         | C                           |         |
|       |          | 4     | CENG223                   | Mathematics IV                        | الرياضيات IV               | English  | 2           |             |            |           |            | 1           |             | 3            | 48             | 77          | 125   | 5.00         | B                           | CENG213 |
|       |          | 5     | PENG222                   | Petrophysical Rock Propertie          | خواص الصخور البتروفيزيائية | English  | 2           |             | 2          |           |            | 1           |             | 3            | 78             | 97          | 175   | 7.00         | C                           | PENG215 |
|       |          | 6     | GE221                     | English Language II                   | اللغة الانكليزية II        | Arabic   | 2           |             |            |           |            |             |             | 3            | 33             | 17          | 50    | 2.00         | B                           | GE 111  |
| 7     |          | GE220 | Baath Regime Crimes in Ir | جرائم نظم البعث في العراق             | Arabic                     | 2        |             |             |            |           |            |             | 3           | 33           | 17             | 50          | 2.00  | B            |                             |         |
|       |          |       |                           |                                       | Total                      | 15       | 0           | 8           | 0          | 2         | 0          | 21          | 396         | 354          | 750            | 30.00       |       |              |                             |         |