



| University of Baghdad / College of Excellence                                          |  |  |  |
|----------------------------------------------------------------------------------------|--|--|--|
| Bachelor's level (First cycle) - Honors Bachelor degree in Applied Information Systems |  |  |  |
| Four years (Eight semesters) - 240 ECTS credits - 1 ECTS = 25hr                        |  |  |  |
| Program Curriculum (2025 - 2026)                                                       |  |  |  |

| جامعة بغداد / كلية التميز                                                               |  |
|-----------------------------------------------------------------------------------------|--|
| مستوى البكالوريوس (الدورة الأولى) - بكالوريوس مع مرتبة الشرف في نظم المعلومات التطبيقية |  |
| أربع سنوات (ثمانية فصول دراسية) - ٢٤٠ وحدة اوروبية - كل وحدة اوروبية = ٢٥ ساعة          |  |
| المناهج الدراسي للعام 2025-2026                                                         |  |



| Level | Semester | No.     | Module Code               | Module Name in English                       | اسم المادة الدراسية           | Language | SSWL (hr/w) |             |            |           |            |             | Exam hr/sem | SSWL hr/sem | USSWL hr/sem | SWL hr/sem | ECTS  | Module Type | Prerequisite Module(s) Code |  |
|-------|----------|---------|---------------------------|----------------------------------------------|-------------------------------|----------|-------------|-------------|------------|-----------|------------|-------------|-------------|-------------|--------------|------------|-------|-------------|-----------------------------|--|
|       |          |         |                           |                                              |                               |          | CL (hr/w)   | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) |             |             |              |            |       |             |                             |  |
| One   |          | 1       | GEN 101                   | Introduction to Programming                  | مدخل الى البرمجة              | English  | 2           |             | 4          |           |            |             |             | 4           | 94           | 81         | 175   | 7.00        | B                           |  |
|       |          | 2       | GEN 102                   | Mathematics I                                | رياضيات 1                     | English  | 4           |             |            |           |            |             |             | 3           | 63           | 112        | 175   | 7.00        | B                           |  |
|       |          | 3       | GEN 103                   | Critical Thinking                            | التفكير النقذ                 | English  | 2           |             |            |           |            | 1           |             | 3           | 49           | 101        | 150   | 6.00        | B                           |  |
|       |          | 4       | GEN 111                   | Introduction to Project management           | مدخل الى ادارة المشاريع       | English  | 2           |             |            | 1         |            |             |             | 4           | 33           | 92         | 125   | 5           | B                           |  |
|       |          | 5       | UOB102                    | English Language I                           | اللغة الانكليزية 1            | English  | 2           |             |            |           |            |             |             | 3           | 33           | 17         | 50    | 2.00        | B                           |  |
|       |          | 6       | UOB104                    | Democracy and Human Rights                   | الديمقراطية و حقوق الإنسان    | Arabic   | 2           |             |            |           |            |             |             | 3           | 33           | 17         | 50    | 2.00        | B                           |  |
|       |          | 7       | AIS101                    | Computing Principles                         | مبادئ الحوسبة                 | Arabic   | 1           |             |            |           |            |             |             | 3           | 15           | 10         | 25    | 1.00        | C                           |  |
| Total |          |         |                           |                                              |                               |          | 15          | 0           | 5          | 0         | 1          | 0           | 23          | 320         | 430          | 750        | 30.00 |             |                             |  |
| UGI   | Semester | No.     | Module Code               | Module Name in English                       | اسم المادة الدراسية           | Language | SSWL (hr/w) |             |            |           |            |             | Exam hr/sem | SSWL hr/sem | USSWL hr/sem | SWL hr/sem | ECTS  | Module Type | Prerequisite Module(s) Code |  |
|       | Two      | 1       | GEN 113                   | Statistics                                   | احصاء                         | English  | 2           |             |            | 2         |            |             |             | 4           | 79           | 71         | 150   | 6.00        | B                           |  |
|       |          | 2       | GEN 112                   | Writing skills                               | مهارات الكتابة                | English  | 2           |             |            |           |            |             |             | 3           | 33           | 67         | 100   | 4.00        | B                           |  |
|       |          | 3       | AIS 112                   | Introduction to Databases                    | مدخل الى قواعد البيانات       | English  | 2           |             |            | 3         |            |             |             | 4           | 94           | 81         | 175   | 7.00        | C                           |  |
|       |          | 4       | UOB101                    | Arabic Language I                            | اللغة العربية 1               | Arabic   | 2           |             |            |           |            |             |             | 3           | 33           | 17         | 50    | 2.00        | B                           |  |
|       |          | 5       | UOB103                    | Computer I                                   | الحاسوب 1                     | English  | 1           |             |            | 2         |            |             |             | 4           | 49           | 26         | 75    | 3.00        | B                           |  |
|       |          | 6       | AIS 111                   | Matrices & Analytic Geometry                 | مصفوفات وهندسة تحليلية 2      | English  | 4           |             |            |           |            |             |             | 3           | 63           | 87         | 150   | 6.00        | C                           |  |
| 7     |          | GEN114  | Introduction to Sociology | مقدمة في علم الاجتماع                        | English                       | 2        |             |             |            |           |            |             | 3           | 33          | 17           | 50         | 2.00  | B           |                             |  |
| Total |          |         |                           |                                              |                               |          | 15          | 0           | 7          | 0         | 0          | 0           | 24          | 384         | 366          | 750        | 30.00 |             |                             |  |
| Level | Semester | No.     | Module Code               | Module Name in English                       | اسم المادة الدراسية           | Language | SSWL (hr/w) |             |            |           |            |             | Exam hr/sem | SSWL hr/sem | USSWL hr/sem | SWL hr/sem | ECTS  | Module Type | Prerequisite Module(s) Code |  |
|       |          |         |                           |                                              |                               |          | CL (hr/w)   | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) |             |             |              |            |       |             |                             |  |
| Three |          | 1       | AIS 201                   | Data Structures                              | هيكلة البيانات                | English  | 2           |             |            | 4         |            |             |             | 4           | 94           | 106        | 200   | 8.00        | C                           |  |
|       |          | 2       | AIS 202                   | Principles of Applied Information Systems    | مبادئ نظم المعلومات التطبيقية | English  | 3           |             |            | 2         |            |             |             | 3           | 78           | 122        | 200   | 8.00        | C                           |  |
|       |          | 3       | AIS 203                   | Mathematics II                               | رياضيات 2                     | English  | 4           |             |            |           |            |             |             | 3           | 63           | 62         | 125   | 5.00        | C                           |  |
|       |          | 4       | GEN 201                   | Entrepreneurship                             | ريادة الاعمال                 | English  | 2           |             |            |           |            |             |             | 3           | 33           | 67         | 100   | 4.00        | B                           |  |
|       |          | 5       | UOB105                    | Baath Regime Crimes in Iraq                  | جرائم نظام البعث في العراق    | Arabic   | 2           |             |            |           |            |             |             | 3           | 33           | 17         | 50    | 2.00        | B                           |  |
|       |          | 6       | UOB203                    | Computer II                                  | الحاسوب 2                     | English  | 1           |             |            | 2         |            |             |             | 4           | 49           | 26         | 75    | 3.00        | B                           |  |
| Total |          |         |                           |                                              |                               |          | 14          | 0           | 8          | 0         | 0          | 0           | 20          | 350         | 400          | 750        | 30.00 |             |                             |  |
| UGII  | Semester | No.     | Module Code               | Module Name in English                       | اسم المادة الدراسية           | Language | SSWL (hr/w) |             |            |           |            |             | Exam hr/sem | SSWL hr/sem | USSWL hr/sem | SWL hr/sem | ECTS  | Module Type | Prerequisite Module(s) Code |  |
|       | Four     | 1       | AIS 211                   | Geographic Information System(GIS)           | نظم المعلومات الجغرافية       | English  | 3           |             |            | 2         |            |             |             | 4           | 79           | 121        | 200   | 8.00        | C                           |  |
|       |          | 2       | AIS 212                   | Data Analysis                                | تحليل البيانات                | English  | 2           |             |            | 2         |            |             |             | 4           | 64           | 136        | 200   | 8.00        | C                           |  |
|       |          | 3       | AIS 213                   | Application Programming                      | التطبيقات البرمجية            | English  | 2           |             |            | 3         |            |             |             | 4           | 79           | 96         | 175   | 7.00        | C                           |  |
|       |          | 4       | UOB201                    | Arabic Language II                           | اللغة العربية 2               | Arabic   | 2           |             |            |           |            |             |             | 3           | 33           | 17         | 50    | 2.00        | B                           |  |
|       |          | 5       | UOB202                    | English Language II                          | اللغة الانكليزية 2            | English  | 2           |             |            |           |            |             |             | 3           | 33           | 17         | 50    | 2.00        | B                           |  |
| 6     |          | GEN 211 | Creative Thinking         | التفكير الإبداعي                             | English                       | 2        |             |             |            |           |            |             | 3           | 33          | 42           | 75         | 3.00  | B           |                             |  |
| Total |          |         |                           |                                              |                               |          | 13          | 0           | 7          | 0         | 0          | 0           | 21          | 321         | 429          | 750        | 30.00 |             |                             |  |
| Level | Semester | No.     | Module Code               | Module Name in English                       | اسم المادة الدراسية           | Language | SSWL (hr/w) |             |            |           |            |             | Exam hr/sem | SSWL hr/sem | USSW hr/se   | SWL hr/sem | ECT S | Mod ule     | Prerequisite Module(s) Code |  |
|       |          |         |                           |                                              |                               |          | CL (hr/w)   | lect (hr/w) | ab (hr/w)  | r (hr/w)  | ut (hr/w)  | wemn (hr/w) |             |             |              |            |       |             |                             |  |
| Five  |          | 1       | AIS 301                   | Information Security                         | امنية المعلومات               | English  | 2           |             |            | 4         |            |             |             | 4           | 94           | 106        | 200   | 8.00        | C                           |  |
|       |          | 2       | AIS 302                   | Computer Networks                            | شبيكات الحاسوب                | English  | 2           |             |            | 2         |            |             |             | 4           | 64           | 86         | 150   | 6.00        | C                           |  |
|       |          | 3       | AIS 303                   | Computer Architecture and Organization       | معمارية الحاسوب والاتمئة      | English  | 2           |             |            | 2         |            |             |             | 4           | 64           | 86         | 150   | 6.00        | C                           |  |
|       |          | 4       | E-AIS 304                 | Elective subject 1                           | اختياري 1                     | English  | 3           |             |            |           |            |             |             | 3           | 48           | 77         | 125   | 5.00        | E                           |  |
|       |          | 5       | E-AIS 305                 | Elective subject 2                           | اختياري 2                     | English  | 3           |             |            |           |            |             |             | 3           | 48           | 77         | 125   | 5.00        | E                           |  |
|       |          | 6       | AIS 306                   | Artificial Intelligence and Mschine Learning | الذكاء الصناعي                | English  | 2           |             |            |           |            |             |             | 3           | 33           | 42         | 75    | 3.00        | C                           |  |
|       |          | 7       | AIS 307                   | E-Commerce                                   | التجارة الرقمية               | English  | 2           |             |            | 4         |            |             |             | 4           | 94           | 56         | 150   | 6.00        | C                           |  |
| Total |          |         |                           |                                              |                               |          | 12          | 0           | 8          | 0         | 0          | 0           | 18          | 318         | 432          | 750        | 30.00 |             |                             |  |

| UGIII                                                                                                                         | Semester | No.                | Module Code | Module Name in English               | اسم المادة الدراسية        | Language    | SSWL (hr/w) |                                      |           |           |           |                         | Exam  | SSWL   | USSW  | SWL                                                                                 | ECT  | Module         | Prerequisite     |                       |
|-------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|-------------|--------------------------------------|----------------------------|-------------|-------------|--------------------------------------|-----------|-----------|-----------|-------------------------|-------|--------|-------|-------------------------------------------------------------------------------------|------|----------------|------------------|-----------------------|
|                                                                                                                               |          |                    |             |                                      |                            |             | CL (hr/w)   | lect (hr/w)                          | ab (hr/w) | Pr (hr/w) | ut (hr/w) | wemn (hr/w)             | hr/se | hr/sem | hr/se | hr/sem                                                                              | S    | Module(s) Code |                  |                       |
| Six                                                                                                                           |          | 1                  | AIS 311     | Enterprise Resource Planning Systems | أنظمة تخطيط موارد المؤسسات | English     | 2           |                                      |           | 2         |           |                         |       | 4      | 64    | 61                                                                                  | 125  | 5.00           | C                |                       |
|                                                                                                                               |          | 2                  | AIS 312     | Network Security                     | امنية الشبكات              | English     | 2           |                                      |           | 4         |           |                         |       | 4      | 94    | 81                                                                                  | 175  | 7.00           | C                |                       |
|                                                                                                                               |          | 3                  | AIS 313     | Information Technology               | تكنولوجيا المعلومات        | English     | 2           |                                      |           | 4         |           |                         |       | 4      | 94    | 81                                                                                  | 175  | 7.00           | C                |                       |
|                                                                                                                               |          | 4                  | E-AIS 314   | Elective subject 3                   | اختياري 3                  | English     | 3           |                                      |           |           |           |                         |       | 3      | 48    | 77                                                                                  | 125  | 5.00           | E                |                       |
|                                                                                                                               |          | 5                  | UOB309      | Scientific Research Methodology      | منهجية البحث العلمي        | English     | 1           |                                      |           |           |           |                         |       | 3      | 18    | 7                                                                                   | 25   | 1.00           |                  |                       |
|                                                                                                                               |          | 6                  | E-AIS 315   | Elective subject 4                   | اختياري 4                  | English     | 3           |                                      |           |           |           |                         |       | 3      | 48    | 77                                                                                  | 125  | 5.00           | E                |                       |
| Total                                                                                                                         |          |                    |             |                                      |                            |             | 13          | 0                                    |           | 10        | 0         | 0                       | 0     | 21     | 366   | 384                                                                                 | 750  | 30.00          |                  |                       |
| Level                                                                                                                         | Semester | No.                | Module Code | Module Name in English               | اسم المادة الدراسية        | Language    | SSWL (hr/w) |                                      |           |           |           |                         | Exam  | SSWL   | USSW  | SWL                                                                                 | ECT  | Module         | Prerequisite     |                       |
|                                                                                                                               |          |                    |             |                                      |                            |             | CL (hr/w)   | lect (hr/w)                          | ab (hr/w) | Pr (hr/w) | ut (hr/w) | wemn (hr/w)             | hr/se | hr/sem | hr/se | hr/sem                                                                              | S    | Module(s) Code |                  |                       |
| Seven                                                                                                                         |          | 1                  | AIS 401     | Systems Analysis and Design          | تصميم وتحليل الأنظمة       | English     | 2           |                                      |           | 2         |           |                         |       | 4      | 64    | 86                                                                                  | 150  | 6.00           | C                |                       |
|                                                                                                                               |          | 2                  | AIS 402     | Cyber security                       | الامن السيبراني            | English     | 2           |                                      |           | 2         |           |                         |       | 4      | 64    | 111                                                                                 | 175  | 7.00           | C                | Protection and remove |
|                                                                                                                               |          | 3                  | AIS 403     | Project research                     | مشروع التخرج               | English     |             |                                      |           | 4         |           |                         |       | 3      | 63    | 137                                                                                 | 175  | 7.00           | C                |                       |
|                                                                                                                               |          | 5                  | E-AIS 404   | Elective subject 5                   | اختياري 5                  | English     | 3           |                                      |           |           |           |                         |       | 3      | 48    | 77                                                                                  | 125  | 5.00           | E                |                       |
|                                                                                                                               |          | 6                  | E-AIS 405   | Elective subject 6                   | اختياري 6                  | English     | 3           |                                      |           |           |           |                         |       | 3      | 48    | 77                                                                                  | 125  | 5.00           | E                |                       |
|                                                                                                                               | Total    |                    |             |                                      |                            |             |             | 10                                   | 0         |           | 8         | 0                       | 0     | 0      | 17    | 287                                                                                 | 488  | 750            | 30.0             |                       |
| UGIV                                                                                                                          | Semester | No.                | Module Code | Module Name in English               | اسم المادة الدراسية        | Language    | SSWL (hr/w) |                                      |           |           |           |                         | Exam  | SSWL   | USSW  | SWL                                                                                 | ECT  | Module         | Prerequisite     |                       |
|                                                                                                                               |          |                    |             |                                      |                            |             | CL (hr/w)   | lect (hr/w)                          | ab (hr/w) | Pr (hr/w) | ut (hr/w) | wemn (hr/w)             | hr/se | hr/sem | hr/se | hr/sem                                                                              | S    | Module(s) Code |                  |                       |
| Eight                                                                                                                         |          | 1                  | AIS 411     | Project Management                   | إدارة المشاريع             | English     | 2           |                                      |           | 2         |           |                         |       | 4      | 64    | 86                                                                                  | 150  | 6.00           | C                |                       |
|                                                                                                                               |          | 2                  | AIS 412     | Environmental planning               | تخطيط بيئي                 | English     | 2           |                                      |           |           |           |                         |       | 3      | 33    | 67                                                                                  | 100  | 4.00           | C                |                       |
|                                                                                                                               |          | 3                  | AIS 413     | Project research                     | مشروع التخرج               | English     |             |                                      |           | 4         |           |                         |       | 3      | 63    | 137                                                                                 | 175  | 7.00           | C                |                       |
|                                                                                                                               |          | 4                  | E-AIS 414   | Elective subject 7                   | اختياري 7                  | English     | 3           |                                      |           |           |           |                         |       | 3      | 48    | 77                                                                                  | 125  | 5.00           | E                |                       |
|                                                                                                                               |          | 5                  | E-AIS 415   | Elective subject 8                   | اختياري 8                  | English     | 3           |                                      |           |           |           |                         |       | 3      | 48    | 77                                                                                  | 125  | 5.00           | E                |                       |
|                                                                                                                               |          | 6                  | AIS 416     | Administrative skills                | المهارات الإدارية          | English     | 2           |                                      |           |           |           |                         |       | 3      | 33    | 42                                                                                  | 75   | 3.00           | C                |                       |
| Total                                                                                                                         |          |                    |             |                                      |                            |             | 12          | 0                                    |           | 6         | 0         | 0                       | 0     | 19     | 289   | 486                                                                                 | 750  | 30.0           |                  |                       |
| Total                                                                                                                         |          |                    |             |                                      |                            |             | 104         | 0                                    |           | 59        | 0         | 1                       | 0     | 163    | 2635  | 3415                                                                                | 6000 | 240.0          | Must be 240 ECTS |                       |
| Note: The student should complete 4 weeks of Summer Internships to fulfill the requirements of the Bachelor of Science degree |          |                    |             |                                      |                            |             |             |                                      |           |           |           |                         |       |        |       |                                                                                     |      |                |                  |                       |
| Structured SWL<br>(hr/w) type                                                                                                 | CL       | Class Lecture      |             |                                      |                            | Module type | B           | Basic learning activities            |           |           |           | SWL: Student Workload   |       |        |       |  |      |                |                  |                       |
|                                                                                                                               | Lab      | Laboratory         |             |                                      |                            |             | C           | Core learning activity               |           |           |           | SSWL: Structured SWL    |       |        |       |                                                                                     |      |                |                  |                       |
|                                                                                                                               | Pr       | Practical Training |             |                                      |                            |             | S           | Support or related learning activity |           |           |           | USSWL: Unstructured SWL |       |        |       |                                                                                     |      |                |                  |                       |
|                                                                                                                               | Tut      | Tutorial           |             |                                      |                            |             | E           | Elective learning activity           |           |           |           |                         |       |        |       |                                                                                     |      |                |                  |                       |
|                                                                                                                               | Lect     | Online lecture     |             |                                      |                            |             |             |                                      |           |           |           |                         |       |        |       |                                                                                     |      |                |                  |                       |
| Sem                                                                                                                           | Seminar  |                    |             |                                      |                            |             |             |                                      |           |           |           |                         |       |        |       |                                                                                     |      |                |                  |                       |