

|  |          | Republic of Iraq - Ministry of Higher Education and Scientific Research<br>University of Mosul / College of Computer Science and Mathematics<br>Bachelor's degree in Networks science<br>Four years (Eight semesters) - 240 ECTS credits - <b>1 ECTS = 25 hr</b><br>Program Curriculum (2025 - 2026) |             |                                  |                              |          |             |   |   |   |   | جمهورية العراق - وزارة التعليم العالي والبحث العلمي<br>جامعة الموصل / كلية علوم الحاسوب والرياضيات<br>بكالوريوس في علم الشبكات<br>أربع سنوات (ثمانية فصول دراسية) - ٢٤٠ وحدة اوروبية - كل وحدة اوروبية = ٢٥ ساعة<br>المناهج الدراسي للبرنامج (2025-2026) |             |              |                |            |       |             |                             |  |  |  |  |  |
|---------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------|------------------------------|----------|-------------|---|---|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|----------------|------------|-------|-------------|-----------------------------|--|--|------------------------------------------------------------------------------------|--|--|
|                                                                                 |          |                                                                                                                                                                                                                                                                                                      |             |                                  |                              |          |             |   |   |   |   |                                                                                                                                                                                                                                                          |             |              |                |            |       |             |                             |  |  |                                                                                    |  |  |
| Level                                                                           | Semester | No.                                                                                                                                                                                                                                                                                                  | Module Code | Module Name in English           | اسم المادة الدراسية          | Language | SSWL (hr/w) |   |   |   |   |                                                                                                                                                                                                                                                          | Exam hr/sem | SSW I hr/sem | USS WII hr/sem | SWL hr/sem | ECT S | Module Type | Prerequisite Module(s) Code |  |  |                                                                                    |  |  |
|                                                                                 |          | 1                                                                                                                                                                                                                                                                                                    | NT101       | Information Technology Basics    | اساسيات تكنولوجيا المعلومات  | English  | 3           |   | 2 |   |   |                                                                                                                                                                                                                                                          | 3           | 78           | 72             | 150        | 6.00  | B           |                             |  |  |                                                                                    |  |  |
|                                                                                 | One      | 2                                                                                                                                                                                                                                                                                                    | NT102       | Problems Solving & Programming 1 | حل المشاكل وبرمجتها 1        | English  | 4           |   | 2 |   | 1 | 3                                                                                                                                                                                                                                                        | 108         | 92           | 200            | 8.00       | C     |             |                             |  |  |                                                                                    |  |  |
|                                                                                 |          | 3                                                                                                                                                                                                                                                                                                    | NT103       | Calculus                         | حساب التفاضل والتكامل        | English  | 2           |   |   |   | 1 | 3                                                                                                                                                                                                                                                        | 48          | 77           | 125            | 5.00       | S     |             |                             |  |  |                                                                                    |  |  |
|                                                                                 |          | 4                                                                                                                                                                                                                                                                                                    | NT104       | Logic Design Fundamentals        | أساسيات التصميم المنطقي      | English  | 3           |   | 2 |   | 1 | 3                                                                                                                                                                                                                                                        | 93          | 82           | 175            | 7.00       | C     |             |                             |  |  |                                                                                    |  |  |
|                                                                                 |          | 5                                                                                                                                                                                                                                                                                                    | UOM102      | English Language 1               | اللغة الانكليزية 1           | English  | 2           |   |   |   |   | 3                                                                                                                                                                                                                                                        | 33          | 17           | 50             | 2.00       | S     |             |                             |  |  |                                                                                    |  |  |
|                                                                                 |          | 6                                                                                                                                                                                                                                                                                                    | UOM104      | Democracy and Human Rights       | الديمقراطية وحقوق الانسان    | Arabic   | 2           |   |   |   |   | 3                                                                                                                                                                                                                                                        | 33          | 17           | 50             | 2.00       | S     |             |                             |  |  |                                                                                    |  |  |
|                                                                                 |          |                                                                                                                                                                                                                                                                                                      |             |                                  |                              | Total    | 16          | 0 | 6 | 0 | 3 | 0                                                                                                                                                                                                                                                        | 18          | 393          | 357            | 750        | ##### |             |                             |  |  |                                                                                    |  |  |
|                                                                                 |          |                                                                                                                                                                                                                                                                                                      |             |                                  |                              |          |             |   |   |   |   |                                                                                                                                                                                                                                                          |             |              |                |            |       |             |                             |  |  |                                                                                    |  |  |
| Level                                                                           | Semester | No.                                                                                                                                                                                                                                                                                                  | Module Code | Module Name in English           | اسم المادة الدراسية          | Language | SSWL (hr/w) |   |   |   |   |                                                                                                                                                                                                                                                          | Exam hr/sem | SSW I hr/sem | USS WII hr/sem | SWL hr/sem | ECT S | Module Type | Prerequisite Module(s) Code |  |  |                                                                                    |  |  |
|                                                                                 |          | 1                                                                                                                                                                                                                                                                                                    | NT107       | Problems Solving & Programming 2 | حل المشاكل وبرمجتها 2        | English  | 2           |   | 2 |   | 1 | 3                                                                                                                                                                                                                                                        | 78          | 72           | 150            | 6.00       | C     | NT102       |                             |  |  |                                                                                    |  |  |
|                                                                                 | Two      | 2                                                                                                                                                                                                                                                                                                    | NT108       | Computer Organization            | تنظيم الحاسوب                | English  | 2           |   | 2 |   |   | 3                                                                                                                                                                                                                                                        | 63          | 62           | 125            | 5.00       | C     | NT104       |                             |  |  |                                                                                    |  |  |
|                                                                                 |          | 3                                                                                                                                                                                                                                                                                                    | NT109       | Data Communication & Networking  | اتصالات البيانات والشبكات    | English  | 3           |   |   |   | 1 | 3                                                                                                                                                                                                                                                        | 63          | 62           | 125            | 5.00       | C     |             |                             |  |  |                                                                                    |  |  |
|                                                                                 |          | 4                                                                                                                                                                                                                                                                                                    | NT110       | Probabilities & statistics       | الاحتمالات والإحصاء          | English  | 2           |   | 2 |   |   | 3                                                                                                                                                                                                                                                        | 63          | 62           | 125            | 5.00       | S     |             |                             |  |  |                                                                                    |  |  |
|                                                                                 |          | 5                                                                                                                                                                                                                                                                                                    | NT111       | Discrete Mathematics             | الرياضيات المتقطعة           | English  | 2           |   |   |   | 1 | 3                                                                                                                                                                                                                                                        | 48          | 52           | 100            | 4.00       | B     |             |                             |  |  |                                                                                    |  |  |
|                                                                                 |          | 6                                                                                                                                                                                                                                                                                                    | UOM101      | Arabic Language                  | اللغة العربية                | Arabic   | 2           |   |   |   |   | 3                                                                                                                                                                                                                                                        | 33          | 17           | 50             | 2.00       | S     |             |                             |  |  |                                                                                    |  |  |
|                                                                                 |          | 7                                                                                                                                                                                                                                                                                                    | UOM103      | Computer                         | الحاسوب                      | English  | 1           |   | 2 |   |   | 3                                                                                                                                                                                                                                                        | 48          | 27           | 75             | 3.00       | S     |             |                             |  |  |                                                                                    |  |  |
|                                                                                 |          |                                                                                                                                                                                                                                                                                                      |             |                                  |                              | Total    | 14          | 0 | 8 | 0 | 3 | 0                                                                                                                                                                                                                                                        | 21          | 396          | 354            | 750        | ##### |             |                             |  |  |                                                                                    |  |  |
|                                                                                 |          |                                                                                                                                                                                                                                                                                                      |             |                                  |                              |          |             |   |   |   |   |                                                                                                                                                                                                                                                          |             |              |                |            |       |             |                             |  |  |                                                                                    |  |  |
| Level                                                                           | Semester | No.                                                                                                                                                                                                                                                                                                  | Module Code | Module Name in English           | اسم المادة الدراسية          | Language | SSWL (hr/w) |   |   |   |   |                                                                                                                                                                                                                                                          | Exam hr/sem | SSW I hr/sem | USS WII hr/sem | SWL hr/sem | ECT S | Module Type | Prerequisite Module(s) Code |  |  |                                                                                    |  |  |
|                                                                                 |          | 1                                                                                                                                                                                                                                                                                                    | NT201       | Object Oriented Programming      | البرمجة الكيانية             | English  | 2           |   | 4 |   | 1 | 3                                                                                                                                                                                                                                                        | 108         | 92           | 200            | 8.00       | C     | NT107       |                             |  |  |                                                                                    |  |  |
|                                                                                 | Three    | 2                                                                                                                                                                                                                                                                                                    | NT202       | Web Development I                | تطوير الويب I                | English  | 2           |   | 2 |   |   | 3                                                                                                                                                                                                                                                        | 63          | 87           | 150            | 6.00       | C     | NT107       |                             |  |  |                                                                                    |  |  |
|                                                                                 |          | 3                                                                                                                                                                                                                                                                                                    | NT203       | Network Protocols I              | بروتوكولات الشبكة I          | English  | 2           |   |   |   | 1 | 3                                                                                                                                                                                                                                                        | 48          | 52           | 100            | 4.00       | C     | NT109       |                             |  |  |                                                                                    |  |  |
|                                                                                 |          | 4                                                                                                                                                                                                                                                                                                    | NT204       | Data Strctures                   | هياكل البيانات               | English  | 2           |   | 2 |   |   | 3                                                                                                                                                                                                                                                        | 63          | 87           | 150            | 6.00       | C     | NT107       |                             |  |  |                                                                                    |  |  |
|                                                                                 |          | 5                                                                                                                                                                                                                                                                                                    | NT205       | IT Ethics                        | اخلاقيات تكنولوجيا المعلومات | Arabic   | 2           |   |   |   |   | 2                                                                                                                                                                                                                                                        | 32          | 18           | 50             | 2.00       | C     |             |                             |  |  |                                                                                    |  |  |
|                                                                                 |          | 6                                                                                                                                                                                                                                                                                                    | UOM2022     | English Language 2               | اللغة الانكليزية 2           | English  | 2           |   |   |   |   | 3                                                                                                                                                                                                                                                        | 33          | 17           | 50             | 2.00       | S     |             |                             |  |  |                                                                                    |  |  |
|                                                                                 |          | 7                                                                                                                                                                                                                                                                                                    | UOM2050     | Ba'ath Party Crimes              | جرائم نظام البعث             | Arabic   | 2           |   |   |   |   | 3                                                                                                                                                                                                                                                        | 33          | 17           | 50             | 2.00       | S     |             |                             |  |  |                                                                                    |  |  |

## UGII



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