

| Year 1                             |           |   |            |                                      |           |  |            |
|------------------------------------|-----------|---|------------|--------------------------------------|-----------|--|------------|
| First semester                     |           |   |            | Second semester                      |           |  |            |
| Pre-request                        | Hours     | course  | Course no  | Pre-request                          | Hours     | Course   | Course no  |
| -                                  | 3         | Introduction to programming                                       | 1910011100 | -                                    | 3         | Calculus (1)   | 110108101  |
| with 1910011100                    | 1         | Introduction to programming Lab                                   | 1910011101 | 1910011101                           | 3         | Object oriented (1)                                      | 1910011110 |
| -                                  | 3         | Discrete Mathematics  | 110101152  | with 1910011110                      | 1         | Object oriented Lab(1)                                   | 1910011111 |
| -                                  | 3         | Principles of Statistics  | 110108103  | 110101152                            | 3         | Digital Logic Design                                     | 1910011123 |
| Level exam in English or 121602099 | 3         | English language  | 121602101  | 1910011100                           | 3         | Programming for Data Science and Artificial Intelligence | 2010042250 |
| -                                  | 3         | Elective University Requirement(1)                                | -          | Level exam in Arabic or 121601099    | 3         | Arabic Language  | 121601101  |
|                                    | <b>16</b> | <b>Total</b>  |            |                                      | <b>16</b> | <b>Total</b>   |            |
| Year 2                             |           |   |            |                                      |           |  |            |
| First Semester                     |           |   |            | Second Semester                      |           |  |            |
| Pre-request                        | Hours     | course  | Course no  | Pre-request                          | Hours     | Course   | Course no  |
| 1910011111                         | 3         | Data Structure  | 1910011250 | 1510011250                           | 3         | Introduction to Database                                 | 151002240  |
| 1910011110                         | 3         | Fundamentals of Software Engineering                              | 2010031260 | with 151002240                       | 1         | Introduction to Database Lab                             | 151002241  |
| -                                  | 3         | Linear Algebra (1)  | 110101241  | with 151002240                       | 3         | Introduction to Data Science                             | 2010042210 |
| 2010042250                         | 3         | Advanced Programming for Data Science and Artificial Intelligence | 2010042351 | with 151002241                       | 3         | Introduction to Artificial Intelligence                  | 2010042220 |
| -                                  | 3         | Elective Specialization Requirement(1)                            | -          | 1910011250                           | 3         | Algorithms Analysis And Design                           | 2010042300 |
| -                                  | 3         | National education  | 1714041118 | -                                    | 3         | Military science   | 1714041117 |
|                                    | <b>18</b> | <b>Total</b>  |            |                                      | <b>16</b> | <b>Total</b>   |            |
| Year 3                             |           |   |            |                                      |           |  |            |
| First Semester                     |           |   |            | Second Semester                      |           |  |            |
| Pre-request                        | Hours     | course  | Course no  | Pre-request                          | Hours     | course   | Course no  |
| 2010042351                         | 3         | Robot Programming   | 2010042340 | 2010042210                           | 3         | Big Data   | 2010042360 |
| 2010042220                         | 3         | Machine Learning  | 2010042321 | 2010042351                           | 3         | Introduction to Mobile Robots                            | 2010042341 |
| 2010042210                         | 3         | Information Retrieval   | 2010042271 | 2010042250                           | 3         | Digital Image Processing                                 | 2010042322 |
| 2010042210                         | 3         | Data Engineering  | 2010042211 | 151002240                            | 3         | Data Mining  | 2010042312 |
| -                                  | 3         | Elective University Requirement(2)                                | -          | -                                    | 3         | Elective University Requirement(3)                       | -          |
| 2010042220                         | 3         | Neural Networks & Deep Learning                                   | 2010042323 | -                                    | 3         | Elective Specialization Requirement(2)                   | -          |
|                                    | <b>18</b> | <b>Total</b>  |            |                                      | <b>18</b> | <b>Total</b>   |            |
| Year 4                             |           |   |            |                                      |           |  |            |
| First Semester                     |           |   |            | Second Semester                      |           |  |            |
| Pre-request                        | Hours     | course  | Course no  | Pre-request                          | Hours     | course   | Course no  |
| and 2010042321<br>2010042323       | 3         | Computer Vision   | 2010042424 | 2010042351                           | 3         | High-Performance Computing                               | 2010042463 |
| 2010042321                         | 3         | Natural Language Processing and Text Mining                       | 2010042470 | -                                    | 3         | Elective University Requirement(5)                       | -          |
| 151002240                          | 3         | Cloud Computing   | 2010042362 | -                                    | 3         | Elective Specialization Requirement(4)                   | -          |
| -                                  | 3         | Elective University Requirement(4)                                | -          | 2010042491                           | 2         | Data science and Artificial Intelligence Project (2)     | 2010042492 |
| -                                  | 3         | Elective Specialization Requirement(3)                            | -          | Complete 80 hours/<br>training rules | 3         | Practical training                                       | 2010042490 |
| Complete 80 hours                  | 1         | Data science and Artificial Intelligence Project (1)              | 2010042491 |                                      |           |  |            |
|                                    | <b>16</b> | <b>Total</b>  |            |                                      | <b>14</b> | <b>Total</b>   |            |