

Advising Plan for Software Engineering 2025/2026



| First Year / First Semester | | | | | |
|-----------------------------|----------------------------------|--------------|-----|-------|--------------|
| Course Number | Course Title | Credit Hours | | | Prerequisite |
| | | Theory | Lab | Total | |
| 1401116 | The Islamic Culture | 3 | 0 | 3 | - |
| 1301106 | Structured Programming | 2 | 2 | 3 | - |
| 1501167 | Discrete Structures (1) | 3 | 0 | 3 | - |
| 1401124 | Communication skills (English)** | 3 | 0 | 3 | - |
| 1501110 | Calculus (1) | 3 | 0 | 3 | - |
| Total | | 14 | 2 | 15 | |

| Second Year / First Semester | | | | | |
|------------------------------|--|--------------|-----|-------|-----------------|
| Course Number | Course Title | Credit Hours | | | Prerequisite |
| | | Theory | Lab | Total | |
| 1307103 | Linear Algebra | 3 | 0 | 3 | 1501110 |
| 1301203 | Data Structures and Algorithms | 2 | 2 | 3 | 1301108+1501167 |
| 1302281 | Introduction to Software Engineering | 3 | 0 | 3 | 1301108 |
| 1401225 | Computing Ethics and Technical Writing | 2 | 0 | 2 | 1401124 |
| 1401226 | English Language for Information Technology Students | 1 | 0 | 1 | 1401124 |
| 1301236 | Web-Based Programming | 2 | 2 | 3 | 1301108 |
| - | University Elective | 3 | 0 | 3 | - |
| Total | | 13 | 4 | 18 | |

| Third Year / First Semester | | | | | |
|-----------------------------|-----------------------------------|--------------|-----|-------|--------------|
| Course Number | Course Title | Credit Hours | | | Prerequisite |
| | | Theory | Lab | Total | |
| 1302370 | Software Project Management | 2 | 2 | 3 | 1302282 |
| 1301310 | Design and Analysis of Algorithms | 3 | 0 | 3 | 1301203 |
| 1302371 | Software Design | 2 | 2 | 3 | 1302282 |
| 1302360 | Database Systems Administration | 3 | 0 | 3 | 1301305 |
| 1301208 | Specialization Elective | 2 | 2 | 3 | 1301108 |
| - | University Requirement | 3 | 0 | 3 | - |
| Total | | 12 | 6 | 18 | |

| | | | | | |
|---------|----------------|---|---|---|------------------|
| 1302368 | Field Training | 0 | 3 | 3 | Pass. 90Cr. Hrs. |
|---------|----------------|---|---|---|------------------|

| Fourth Year / First Semester | | | | | |
|------------------------------|--|--------------|-----|-------|----------------------------|
| Course Number | Course Title | Credit Hours | | | Prerequisite |
| | | Theory | Lab | Total | |
| 1302491 | Graduation Project (1) | 0 | 2 | 1 | Pass. 90 Cr. Hrs.+ 1302371 |
| 1302497 | Component-Based and Distributed Software Engineering | 3 | 0 | 3 | 1302390 |
| 1302470 | Software Construction and Documentation | 2 | 2 | 3 | 1302390 |
| - | Specialization Elective | 3 | 0 | 3 | - |
| - | University Elective | 3 | 0 | 3 | - |
| Total | | 11 | 4 | 13 | |

| First Year / Second Semester | | | | | |
|------------------------------|------------------------------------|--------------|-----|-------|--------------|
| Course Number | Course Title | Credit Hours | | | Prerequisite |
| | | Theory | Lab | Total | |
| 1301108 | Object-Oriented Programming (1) ** | 2 | 2 | 3 | 1301106 |
| 1301120 | Digital Systems | 3 | 0 | 3 | 1501167 |
| 1501230 | Numerical Analysis | 3 | 0 | 3 | 1501110 |
| 1401150 | National Education | 3 | 0 | 3 | - |
| 1501212 | Probability and Statistics | 3 | 0 | 3 | 1501110 |
| Total | | 14 | 2 | 15 | |

| Second Year / Second Semester | | | | | |
|-------------------------------|---|--------------|-----|-------|--------------|
| Course Number | Course Title | Credit Hours | | | Prerequisite |
| | | Theory | Lab | Total | |
| 1302282 | Software Requirements Engineering | 2 | 2 | 3 | 1302281 |
| 1302285 | User Experience Design in Software Engineering | 3 | 3 | 3 | 1301236 |
| 1301305 | Database and Application of Database | 2 | 2 | 3 | 1301203 |
| 1302286 | Artificial Intelligence in Software Engineering | 3 | 0 | 3 | 1301203 |
| 1301326 | Operating Systems | 3 | 0 | 3 | 1301203 |
| 1301222 | Computer Organization and Architecture | 3 | 0 | 3 | 1301120 |

| | | | | | |
|-------|--|----|---|----|--|
| Total | | 14 | 7 | 18 | |
|-------|--|----|---|----|--|

| Third Year / Second Semester | | | | | |
|------------------------------|---|--------------|-----|-------|-------------------|
| Course Number | Course Title | Credit Hours | | | Prerequisite |
| | | Theory | Lab | Total | |
| 1301304 | Visual Programming | 2 | 2 | 3 | 1301305 |
| 1305130 | Data Communications and Computer Networks | 3 | 0 | 3 | 1301326 |
| 1302338 | Advanced Internet Computing | 2 | 2 | 3 | 1301236 + 1301305 |
| 1302390 | Software Architecture | 3 | 0 | 3 | 1302371 |
| 1302391 | Software Testing and Quality Assurance | 2 | 2 | 3 | 1302371 |
| 1401123 | Communication Skills (Arabic)** | 3 | 0 | 3 | - |
| Total | | 15 | 6 | 18 | |

| | | | | | |
|--------------------------------------|--|--|--|--|--|
| During summer semester of third year | | | | | |
|--------------------------------------|--|--|--|--|--|

| Fourth Year / Second Semester | | | | | |
|-------------------------------|-----------------------------|--------------|-----|-------|--------------|
| Course Number | Course Title | Credit Hours | | | Prerequisite |
| | | Theory | Lab | Total | |
| 100103 | Military Science* | 3 | 0 | 3 | - |
| 1302492 | Graduation Project (2) | 0 | 4 | 2 | 1302491 |
| 1302471 | Secure Software Development | 3 | 0 | 3 | 1302470 |
| - | Specialization Elective | 3 | 0 | 3 | - |
| - | Free Elective | 3 | 0 | 3 | - |
| Total | | 9 | 4 | 14 | |

| | | | | | |
|--|--|--|--|--|--|
| Total Credit Hours (Including Field Training): 132 | | | | | |
|--|--|--|--|--|--|