

Course and Program Outcomes Matrix

| Course Code | Course Name | Program Outcomes | | | | | | | | | | | | |
|-------------------------|---|------------------|---|---|---|---|---|---|---|---|----|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1st Year - 1st Semester | | | | | | | | | | | | | | |
| <u>ENG 101</u> | <u>English I</u> | - | - | - | - | - | - | - | 2 | - | - | 4 | 5 | 3 |
| <u>COM 001</u> | <u>Computer Engineering Orientation</u> | 4 | 2 | - | 1 | - | 3 | - | 3 | 3 | 3 | - | - | 1 |
| <u>CAM100</u> | <u>Campus Orientation</u> | - | - | - | - | - | - | - | 1 | - | - | 1 | - | 3 |
| <u>MTH 101</u> | <u>Calculus I</u> | 5 | 4 | 4 | 2 | - | 2 | - | - | - | - | - | - | 2 |
| <u>PHY 101</u> | <u>General Physics I</u> | 5 | 4 | 4 | 2 | - | 2 | - | - | - | - | - | - | 2 |
| <u>ECC 106</u> | <u>Introduction to Programming</u> | 2 | 5 | 4 | 5 | 4 | 4 | - | - | - | - | - | - | - |
| <u>CHM 101</u> | <u>General Chemistry</u> | 5 | 4 | - | 2 | - | 2 | - | - | - | - | - | - | 2 |
| <u>YIT101</u> | <u>Turkish I for Foreigners</u> | - | - | - | - | - | - | 5 | - | - | - | - | - | 3 |
| 1st Year - 2nd Semester | | | | | | | | | | | | | | |
| <u>ENG 102</u> | <u>English II</u> | - | - | - | - | - | - | - | 2 | - | - | 4 | 5 | 3 |
| <u>ECC 104</u> | <u>Discrete Structures</u> | 5 | 4 | 3 | 4 | 3 | 2 | - | - | - | - | - | - | - |
| <u>MTH 102</u> | <u>Calculus II</u> | 5 | 4 | 4 | 2 | 2 | - | - | - | - | - | - | - | 2 |
| <u>PHY 102</u> | <u>General Physics II</u> | 5 | 4 | 4 | 2 | 2 | - | - | - | - | - | - | - | 2 |
| <u>ECC 102</u> | <u>Programming & Problem Solving</u> | 3 | 3 | 5 | 5 | 4 | 3 | - | - | - | - | - | - | - |
| <u>MTH 113</u> | <u>Linear Algebra</u> | 5 | 4 | 3 | 2 | 1 | - | - | - | - | - | - | - | 1 |
| <u>CAR100</u> | <u>Career Planning</u> | - | - | - | - | - | - | - | 1 | - | - | 1 | - | 3 |
| <u>CHC100</u> | <u>Cyprus:History and Culture</u> | - | - | - | - | - | - | 5 | - | - | - | - | - | 3 |
| 2nd Year - 1st Semester | | | | | | | | | | | | | | |
| <u>ECC 001</u> | <u>Logic Design</u> | 4 | 5 | 4 | 3 | 5 | 2 | - | - | - | - | - | - | 2 |
| <u>ECC 201</u> | <u>Data Structures & Algorithms</u> | 4 | 4 | 5 | 4 | 4 | 1 | - | - | - | - | - | - | 1 |
| <u>ECC 204</u> | <u>Electrical Circuits</u> | 5 | 3 | 4 | 3 | 3 | 1 | - | - | - | - | - | - | 1 |
| <u>MTH 201</u> | <u>Differential Equations</u> | 5 | 3 | 4 | 4 | 4 | - | - | - | - | - | - | - | 1 |
| <u>AIT 103</u> | <u>Atatürk Principles & Reforms I</u> | - | - | - | - | - | - | 5 | 2 | - | - | - | - | 3 |
| <u>YIT102</u> | <u>Turkish II for Foreigners</u> | - | - | - | - | - | - | 5 | 2 | - | - | - | - | 3 |
| 2nd Year - 2nd Semester | | | | | | | | | | | | | | |
| <u>ECC 202</u> | <u>Database Management Systems</u> | 3 | 3 | 4 | 4 | 4 | - | - | - | - | - | - | - | - |
| <u>ENG 201</u> | <u>English Communication Skills</u> | - | - | - | - | - | - | - | - | - | - | 4 | 5 | 3 |

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| <u>ECC203</u> | <u>Computer Architecture and Organization</u> | 5 | 3 | 3 | 4 | 2 | - | - | - | - | - | - | - | 1 |
| <u>ECC 205</u> | <u>Basic Electronics</u> | 4 | 3 | 5 | 2 | 3 | - | - | - | - | - | - | - | 3 |
| <u>RE</u> | <u>Introduction to Molecular Biology or any of Mat.& Basic Sciences Electives</u> | 5 | 4 | 1 | 4 | 3 | - | - | - | - | - | - | - | - |
| <u>AIT104</u> | <u>Atatürk Principles & Reforms II</u> | - | - | - | - | - | - | 5 | 1 | - | - | - | - | 3 |
| <u>COM 200</u> | <u>Summer Training I</u> | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3rd Year - 1st Semester | | | | | | | | | | | | | | |
| <u>COM 344</u> | <u>Automata Theory</u> | 5 | 4 | 4 | 3 | 3 | 2 | - | - | - | - | - | - | - |
| <u>ECC 302</u> | <u>Operating Systems</u> | 4 | 4 | 4 | 3 | 3 | 2 | - | - | - | - | - | - | - |
| <u>COM 362</u> | <u>Signals and Systems</u> for Computer Engineers | 5 | 5 | 4 | 5 | 3 | 2 | - | - | - | - | - | - | - |
| <u>COM 339</u> | <u>Programming Language Concepts</u> | 2 | 5 | 3 | 3 | 3 | 2 | - | - | - | - | - | - | - |
| <u>MTH 251</u> | <u>Probability and Statistics</u> | 5 | 2 | - | 2 | 1 | - | - | - | - | - | - | - | 1 |
| 3rd Year - 2nd Semester | | | | | | | | | | | | | | |
| <u>ECC 002</u> | <u>Systems Simulation</u> | 2 | 5 | 2 | 3 | - | 2 | - | - | - | - | - | - | - |
| <u>ECC 303</u> | <u>Data Communications and Networking</u> | 2 | 5 | 2 | 4 | 4 | 2 | - | - | - | - | - | - | - |
| <u>ECC 301</u> | <u>Microprocessors</u> | 5 | 4 | 4 | 4 | 2 | 2 | - | - | - | - | - | - | - |
| <u>COM 333</u> | <u>Operational Research</u> | 5 | 5 | 5 | 5 | 2 | 2 | - | - | - | - | - | - | - |
| <u>COM 382</u> | <u>Real Time Systems</u> | 5 | 4 | 4 | 4 | 2 | 1 | - | - | - | - | - | - | 1 |
| <u>COM 300</u> | <u>Summer Training II</u> | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4th Year - 1st Semester | | | | | | | | | | | | | | |
| <u>COM 490</u> | <u>Engineering Design I</u> | 4 | 5 | 5 | 4 | 5 | 5 | - | 2 | 2 | 2 | - | - | 5 |
| <u>ECC 003</u> | <u>Software Engineering</u> | 2 | 4 | 5 | 4 | 3 | 4 | - | - | - | - | - | - | 2 |
| <u>TE</u> | <u>Technical Elective</u> | - | - | - | - | - | - | - | - | - | - | - | - | - |
| <u>TE</u> | <u>Technical Elective</u> | - | - | - | - | - | - | - | - | - | - | - | - | - |
| <u>TE</u> | <u>Technical Elective</u> | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4th Year - 2nd Semester | | | | | | | | | | | | | | |
| <u>COM 491</u> | <u>Engineering Design II</u> | 4 | 5 | 5 | 4 | 5 | 5 | - | - | 2 | 2 | 3 | - | 5 |
| <u>ECC426</u> | <u>Economics For Engineers</u> | 2 | - | - | - | - | - | - | 2 | 2 | - | 2 | - | 5 |
| <u>TE</u> | <u>Technical Elective</u> | - | - | - | - | - | - | - | - | - | - | - | - | - |
| <u>TE</u> | <u>Technical Elective</u> | - | - | - | - | - | - | - | - | - | - | - | - | - |
| <u>FE</u> | <u>Free Elective</u> | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Technical (Field-Related) Elective Courses | | | | | | | | | | | | | | |

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| <u>ECC 005</u> | <u>Internet Programming</u> | 4 | 3 | - | 3 | - | 2 | - | - | - | - | - | - | - |
| <u>ECC 413</u> | <u>Introduction to Artificial Intelligence</u> | 4 | 4 | 4 | 4 | 4 | - | 2 | - | - | - | - | - | - |
| <u>ECC 006</u> | <u>Web Design and Programming</u> | 3 | - | 3 | 4 | - | - | - | - | - | - | - | - | - |
| <u>ECC 402</u> | <u>Computer Graphics</u> | 4 | 3 | 2 | - | - | - | - | - | - | - | - | - | - |
| <u>ECC 411</u> | <u>Digital Signal Processing</u> | 4 | 3 | 4 | 3 | 1 | - | - | - | - | - | - | - | - |
| <u>ECC 007</u> | <u>Multimedia Systems</u> | 3 | 3 | 4 | 3 | 4 | 3 | - | - | - | - | 2 | - | - |
| <u>COM 447</u> | <u>Advanced Operating System</u> | 2 | 1 | 3 | 5 | 3 | - | - | - | 3 | - | - | - | - |
| COM448 | Cryptography and Network Security | 2 | 2 | 3 | 4 | - | 3 | - | - | - | - | - | - | - |
| <u>ECC 408</u> | <u>Advanced Object Oriented Programming</u> | 4 | 4 | 4 | 5 | 2 | 4 | - | - | - | - | 3 | - | 4 |
| <u>ECC 409</u> | <u>Object Oriented Programming II</u> | 4 | 4 | 4 | 5 | 2 | - | - | - | - | - | - | - | - |
| <u>ECC 404</u> | <u>Neural Networks</u> | 4 | 5 | - | 3 | 1 | - | - | - | - | - | - | - | - |
| <u>COM 410</u> | <u>Parallel Computer Architecture</u> | 3 | 5 | 4 | - | - | 4 | - | - | - | - | - | - | - |
| <u>ECC 401</u> | <u>Microprocessor Systems</u> | 4 | 3 | 4 | 4 | - | - | - | - | - | - | - | - | - |
| <u>ECC 417</u> | <u>Mobile Computing</u> | 4 | 3 | 4 | 4 | - | 3 | - | - | - | - | - | - | - |
| <u>ECC 406</u> | <u>System Programming</u> | 3 | 3 | 3 | 4 | 2 | - | - | - | - | - | - | - | - |
| <u>COM 452</u> | <u>Introduction to Parallel Computing</u> | 2 | 4 | 5 | 3 | 3 | - | - | - | - | - | - | - | - |
| <u>COM 454</u> | <u>Advanced Computer Architecture and Organization</u> | 2 | 4 | 5 | 3 | 4 | - | - | - | - | - | - | - | - |
| COM 416 | Computer Networks | 2 | 5 | 4 | 3 | 2 | - | - | - | - | - | - | - | - |
| <u>COM 430</u> | <u>Programming Languages I</u> | 5 | 4 | 4 | 5 | 2 | 4 | - | - | - | - | 3 | - | 3 |
| <u>ECC 407</u> | <u>Programming Languages II</u> | 3 | 4 | 4 | 4 | 4 | 3 | - | - | - | - | 2 | - | - |
| <u>COM 414</u> | <u>Digital Control Systems</u> | 5 | 5 | 5 | 5 | - | 3 | - | - | - | - | - | - | - |
| <u>ECC 405</u> | <u>Computer Hardware</u> | 4 | 4 | 4 | 4 | 3 | - | - | - | - | - | - | - | - |
| COM315 | Algorithms | 5 | 5 | 4 | 4 | 3 | - | - | - | - | - | - | - | - |
| <u>ECC 412</u> | <u>Database Applications</u> | 4 | 5 | 3 | 5 | 3 | 2 | - | - | - | - | - | - | - |
| <u>ECC 419</u> | <u>Digital Image Processing</u> | 2 | 4 | - | 3 | 3 | 1 | - | - | - | - | - | - | - |
| <u>COM 471</u> | <u>Hardware Design using FPGAs</u> | 4 | 4 | 4 | 5 | 2 | 4 | - | - | - | - | 3 | - | 2 |
| <u>ECC 415</u> | <u>Decision Making</u> | 5 | 4 | 4 | 4 | 4 | - | 2 | - | - | - | - | - | - |
| <u>ECC423</u> | Introduction to <u>Robotic Systems</u> | 4 | 4 | - | 3 | 3 | 1 | - | - | - | - | - | - | - |
| ECC341 | Computer Network Design | 2 | 2 | 3 | 2 | 2 | 4 | - | 1 | - | - | - | - | 2 |

* 1 Lowest, 2 Low, 3 Average, 4 High, 5 Highest