



Form no. (11B): Knowledge and skills matrix for the Computer Science M.Sc. program

| Program content | Knowledge | Intellectual skills | Professional skills | General skills |
|--|------------|---------------------|------------------------|----------------|
| Distributed Systems (CS701) | K1, K4 | I1 | P1, P2, P8 | G2 |
| Advanced Artificial Intelligence (CS702) | K1, K2, K4 | I2, I4 | P1, P2, P6 | G2, G8 |
| Theory of Programming Languages (CS703) | K1, K4 | I9 | P2 | G12 |
| Complexity Theory and Applications (CS704) | K1, K2 | I5, I8, I9 | P1, P2, P3, P6, P7, P8 | G8, G9 |
| Design and Analysis of Parallel Algorithms (CS710) | K1, K2, K4 | I1 | P1, P2, P3, P7, P8 | G9 |
| Advanced Software Engineering (CS711) | K1, K6, K7 | I1 | P1, P2 | G12 |
| Algorithmic Graph Theory (CS712) | K1, K2, K4 | I2 | P1, P2, P3 | G9 |
| Compiler Construction (CS713) | K1, K4 | I1 | P2, P3, P7 | G9 |
| Advanced Operating Systems (CS714) | K1, K6, K7 | I1 | P1, P2 | G12 |
| Image Analysis and Pattern Recognition (CS715) | K1, K2, K4 | I2 | P1, P2, P3, P7 | G8, G9 |
| Data Security (CS716) | K1, K2, K6 | I4, I5 | P2, P3, P7 | G2, G9 |

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| Advanced Database Management (CS717) | K1, K6, K7 | I4, I5 | P2, P8 | G2 |
| Advanced Computer Graphics (CS718) | K1, K4 | I8 | P1, P2, P3, P7 | G8, G9 |
| Contemporary Computer Architectures (CS971) | K1, K4 | I8 | P1, P2 | G9 |
| Selected Topics in Computer Science (CS700) | K2, K3, K5, K6, K7 | I3, I6 | P5 | G1, G4, G5, G6 |
| Master's Thesis Part (I) (CS730) | K3, K6, K7, K8 | I1, I3, I6, I7 | P4, P5, P9 | G3, G4, G6, G7, G10, G11 |
| Master's Thesis Part (II) (CS731) | K3, K6, K7, K8 | I1, I3, I6, I7 | P4, P6, P9 | G3, G4, G6, G7, G9, G10, G11 |

Program Manager:

Head of Department: