

Program's Study Plan:

○ First Level:

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	CSC 610	Advanced Algorithms and Complexity	3 (3+0)	Lecture	Incl	
2	CSC ...	Elective course (1) from List A	3 (3+0)	Lecture	Incl	
3	CSC ...	Elective course (2) from List A	3 (3+0)	Lecture	Incl	
Total			(9) Study Units			

○ Second Level:

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	CSC ...	Elective course (3) from List A	3 (3+0)	Lecture	Incl	
2	CSC ...	Elective course (4) from List B	3 (3+0)	Lecture	Incl	
3	CSC ...	Elective course (5) from List B	3 (3+0)	Lecture	Incl	
Total			(9) Study Units			

○ Third Level:

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	CSC ...	Elective course (6) from List B	3 (3+0)	Lecture	Incl	
2	CSC ...	Elective course (7) from List B	3 (3+0)	Lecture	Incl	
3	CSC 696	Independent Research Study (1)	2 (2+0)	Lecture	Incl	
Total			(8) Study Units			

○ Fourth Level:

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	CSC 697	Independent Research Study (2)	2 (2+0)	Lecture	Incl	CSC 696
2	CSC 670	Computer Science Seminar	1 (1+0)	Lecture	Pass/Fail	(18) Study Units
Total			(3) Study Units			

○ Fifth Level:

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	COM 700	Comprehensive Exam	0	Exam	Pass/Fail	(18) Study Units

Total	(0) Study Units
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○ **Sixth Level:**

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	CSC 699	Thesis Proposal Preparation	One study Units	Supervision	Pass/Fail	(18) Study Units, COM 700
Total			One study Units			

○ **Seventh Level & the following levels:**

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	CSC 700	Thesis	(12) study Units	Supervision	Pass/Fail	CSC 699
Total			(12) study Units			

○ **Elective Courses List(A): Student chooses (3) courses from this list**

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	CSC 620	Advanced Topics in Networking and Security	3 (3+0)	Lecture	Incl	
2	CSC 640	Advanced Topics in Software Systems	3 (3+0)	Lecture	Incl	
3	CSC 660	Advanced Artificial Intelligence	3 (3+0)	Lecture	Incl	
4	CSC 680	Advanced Concepts and Technologies in Data Science and Management	3 (3+0)	Lecture	Incl	

○ **Elective Courses List (B): Student chooses (4) courses from this list**

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
1	CSC 611	Advanced Theory of Computation	3 (3+0)	Lecture	Incl	
2	CSC 613	Randomized Algorithms and Probabilistic Methods	3 (3+0)	Lecture	Incl	
3	CSC 614	Algorithmic Game Theory	3 (3+0)	Lecture	Incl	
4	CSC 615	Applied Cryptography	3 (3+0)	Lecture	Incl	
5	CSC 617	Combinatorial and Discrete Optimization	3 (3+0)	Lecture	Incl	
6	CSC 616	Selected Topics in Computer Theory	3 (3+0)	Lecture	Incl	
7	CSC 621	Advanced Networking	3 (3+0)	Lecture	Incl	
8	CSC 622	Multimedia Networking and Security	3 (3+0)	Lecture	Incl	
9	CSC 623	Real-Time Cyber Physical Systems	3 (3+0)	Lecture	Incl	
10	CSC 624	Internet of Things and Wireless Networking	3 (3+0)	Lecture	Incl	
11	CSC 625	Discrete Events Simulation	3 (3+0)	Lecture	Incl	

#	Course Code	Name	No. of Study Units	Activity	Assessment GPA: (incl./excl.)	Pre-requisite
12	CSC 631	Selected Topics in Systems, Networking and Security	3 (3+0)	Lecture	Incl	
13	CSC 641	Advanced Software Architecture and Design	3 (3+0)	Lecture	Incl	
14	CSC 643	Program Analysis	3 (3+0)	Lecture	Incl	
15	CSC 644	Multimedia Software Systems	3 (3+0)	Lecture	Incl	
16	CSC 645	Selected Topics in Software Systems	3 (3+0)	Lecture	Incl	
17	CSC 664	Intelligent Robotic Perception	3 (3+0)	Lecture	Incl	
18	CSC 665	Advanced Topics in Deep Learning	3 (3+0)	Lecture	Incl	
19	CSC 666	Advanced Machine Learning	3 (3+0)	Lecture	Incl	
20	CSC 667	Selected Topics in Natural Language Processing	3 (3+0)	Lecture	Incl	
21	CSC 668	Selected Topics in Artificial Intelligence	3 (3+0)	Lecture	Incl	
22	CSC 669	Selected Topics in Image Processing and Pattern Recognition	3 (3+0)	Lecture	Incl	
23	CSC 676	Human Computer Interaction	3 (3+0)	Lecture	Incl	
24	CSC 681	Advances in Nosql Database Systems	3 (3+0)	Lecture	Incl	
25	CSC 682	Data Mining	3 (3+0)	Lecture	Incl	
26	CSC 683	Big Data and Large Data Analytics	3 (3+0)	Lecture	Incl	
27	CSC 685	Selected Topics in Data Science and Management	3 (3+0)	Lecture	Incl	
28	CSC 691	Bioinformatics	3 (3+0)	Lecture	Incl	
29	CENX 637	Sensor Networks	3 (3+0)	Lecture	Incl	
30	CENX 651	Nanorobotics	3 (3+0)	Lecture	Incl	
31	SWE 604	Software Verification & Validation	3 (3+0)	Lecture	Incl	
32	SWE 620	Software Mining & Intelligence	3 (3+0)	Lecture	Incl	
33	IS 623	Data Warehouses & Knowledge Discovery	3 (3+0)	Lecture	Incl	