Courses and Credits achieved in the Bachelor Studies

Focal area Visual Computing

Surname: SHOURAV

First name: TANVIR TANJUM

Application Number: 206134

Type of Bachelor Study: Bachelor of Science

Standard period of study of the Bachelor in semesters (half academic years): 12(4 years)

Total number of Credit Points of the Bachelor: 148

Course Survey

Please indicate the courses you have studied in the corresponding fields of study (specify the actual semester, course name and credit points as stated in your transcript)

Courses related to Visual Computing (18 CP required)

Sample topics: Computer graphics, computer vision, image processing, artificial intelligence, machine learning

Semester	Course Name	Credits
9(2019-2020, Summer)	ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEM	3
10(2020-2021, Fall)	COMPUTER GRAPHICS	3

Mathematical Foundations (20 CP required)

Sample topics: Discrete mathematics, linear algebra, analysis, calculus

Semester	Course Name	Credits
1(2017-2018, Fall)	DIFF CALCULUS AND COORDINATE GEOMETRY	3
2(2017-2018, Spring)	DISCRETE MATHEMATICS	3
2(2017-2018, Spring)	INTEGRAL CALCULUS & ORD. DIFF EQUATION	3
3(2017-2018, Summer)	COMPLEX VARIABLE,LAPLACE & Z-TRANSFORMATION	3
4(2018-2019, Fall)	MATRICES, VECTORS, FOURIER ANALYSIS	3

Foundations in Computer Science and Programming (10 CP required)

Sample topics: Introduction to computer science, introduction to programming, algorithms & data structures, object-oriented programming, programming lab

Semester	Course Name	Credits
1(2017-2018, Fall)	PROGRAMMING LANGUAGE 1	3
2(2017-2018, Spring)	PROGRAMMING LANGUAGE 2	3
4(2018-2019, Fall)	DATA STRUCTURE	3
10(2020-2021, Fall)	ADVANCED PROGRAMMING WITH .NET	3
6(2018-2019, Summer)	OBJECT ORIENTED PROGRAMMING 1 (JAVA)	3
7(2019-2020, Fall)	OBJECT ORIENTED PROGRAMMING 2 (C#)	3

Theoretic Computer Science (10 CP required)

Sample topics: Automata and formal languages, computability, logic, algorithms

Semester	Course Name	Credits
7(2019-2020, Spring)	THEORY OF COMPUTATION	3
5(2018-2019, Spring)	ALGORITHMS	3

Practical Computer Science (20 CP required)

Sample topics: Operating systems, databases, software engineering, compiler construction

Semester	Course Name	Credits
3(2017-2018, Summer)	INTRODUCTION TO DATABASE	3
7(2019-2020, Fall)	OPERATING SYSTEM	3
8(2019-2020, Spring)	SOFTWARE ENGINEERING	3
8(2019-2020, Spring)	COMPILER DESIGN	3

Computer Engineering (15 CP required)

Sample topics: Computer networks, computer architecture, sequential circuits

Semester	Course Name	Credits
4(2018-2019, Spring)	COMPUTER ORGANIZATION AND ARCHITECTURE	3
5(2018-2019, Spring)	COMPUTER NETWORKS	3
6(2018-2019, Summer)	ELECTRONIC DEVICES	3

Project Work or Bachelor Thesis (10 CP required)

Semester	Course Name	Credits
10(2020-2021, Fall)	PROJECT & THESIS	3