Courses and Credits achieved in the Bachelor Studies

Focal area Visual Computing

Surname: Albert

First name: Nithin

Application Number:

Type of Bachelor Study: Bachelor of Computer Applications

Standard period of study of the Bachelor in semesters (half academic years): 6

Total number of Credit Points of the Bachelor:120

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
3	Computer Graphics	4
6	Cloud Computing	4
6	Mobile Application Development - Android	4

Mathemathical Foundations (20 CP required)

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

Semester	Course Name	Credits
1	Mathematics – Discrete Mathematics I	4
1	Basic Statistics and Introductory Probability Theory	4
2	Mathematics – Discrete Mathematics II	4
3	Advanced Statistical Methods	4
4	Operations Research	4
5	Fundamentals of Accounting	3

Foundations in Computer Science and Programming (30 CP required)

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

Semester	Course Name	Credits
1	Computer Fundamentals and Digital Principles	4
1	Methodology of Programming and C Language	3
2	Object Oriented Programming using C++	3
2	Data Base Management Systems	3
3	Data Structure using C++	3
4	Web Programming using PHP	3
5	Java Programming using Linux	3
6	Data Mining	4

Theoretic Computer Science (10 CP required)

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

Semester	Course Name	Credits
4	System Analysis and Software Engineering	4

4	Design and Analysis of Algorithms	4
5	IT and Environment	4

Practical Computer Science (20 CP required)

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

Semester	Course Name	Credits
1	Software Lab I (P)	2
2	Software Lab II (P)	2
3	Software Lab III (P)	2
4	Software Lab IV (P)	2
5	Software Lab V (P)	2

Computer Engineering (15 CP required)

Sample topics: Computer networks, computer architecture, sequential circuits

Semester	Course Name	Credits
2	Computer Organization and Architecture	4
3	Microprocessor and PC Hardware	4
3	Operating Systems	4
4	Linux Administration	4
5	Computer Networks	4

Project Work or Bachelor Thesis (10 CP required)

Semester	Course Name	Credits
5	Software Development Lab I (Mini Project in PHP)	3

6	Software Development Lab II (Main Project) (P)	3
6	Software Lab VI and Seminar(P)	2