

Doctor of Computer Science and Engineering

★ Courses are subject to change.

Course Title	Credit Hours
Neural Networks	3
Data Compression	3
Statistical Learning	3
Virtualization Technology and Applications	3
Internet of Things (IoT)	3
Robot Design	3
Artificial Intelligence	3
Database Systems	3
Computer Networks	3
VLSI Design	3
Digital Signal Processing	3
Wireless Networking	3
Big Data Technologies and Applications	3
Cloud Computing Practices	3
Dissertation	18
Required Credit to Complete	60



Master of Computer Science and Engineering

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Course Title	Credit Hours
Advanced Topics in Database Systems	3
Advanced Topics in Artificial Intelligence	3
Computer Architecture Hardware	3
Practical Computational Geometry Algorithms	3
Theory of Computation Complexity	3
Advanced Cloud Computing Topics	3
Efficient Calculation of Deep Neural Network	3
Applied Research Methods	3
Thesis Writing	3
Writing and Defense Dissertation	3
Thesis	6
Required Credit to Complete	36



Bachelor of Computer Science and Engineering

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Course Title	Credit Hours
Calculus I	3
Calculus II	3
General Physics I	3
General Physics II	3
Introduction to Computer Science	3
Introduction to Computer Programming I	3
Lab of Programming I	3
Digital Logic Design	3
Data Structures	3
Linear Algebra	3
Discrete mathematics	3
Intro. to Computers and Programming	3
Data Structures and Object-oriented Programming	3
Discrete Mathematics II	3
Digital Circuit Design	3
Basic Programming	3
Computer Science Seminars	3
Intro. to Database Systems	3
Intro. to Machine Learning	3
Intro. to Operating Systems	3
Probability	3
Intro. to Algorithms	3



Bachelor of Computer Science and Engineering

Course Title	Credit Hours
Intro. to Computer Networks	3
Intro. to Cryptography	3
Computer Organization	3
Principles of Communications and Wireless Networks	3
Intro. to Computer Networks II	3
Intro. to Network Programming	3
Numerical Methods	3
Intro. to Network Programming II	3
Computer System Administration	3
Graph Theory or Fundamental Graph Theory	3
Algorithmic Foundation of Machine Learning	3
Information Theory and Data Compression Practices	3
Combinatorial Mathematics	3
Digital Circuit Lab.	3
Intro. to Compiler Design	3
Microprocessor Systems: Principles and Implementation	3
Intro. to Artificial Intelligence	3
Intro. to Formal Languages	3
Required Credit to Complete	120

