

B.Sc. Course:

Compulsory Courses

- **Fundamentals of Computer Science and Programming**
Reference: Turbo Pascal / Elliot B. Koffman.
Instructor: Dr. Dezfoulian.
- **Advanced Programming**
Reference: ANSI C++ / Jesse Liberty, J. Mark Hord | C++ Programming/ JafarNezhad Ghomi.
Instructor: Dr. Naderi-Badr.
- **Machine Language and Programming**
Reference: Assembly Programming/ Jafar-Nezhad Ghomi.
Instructor: Dr. Khotanloo .
- **Fundamentals of Data Structures**
Reference: Fundamentals of Data Structures in C++ / E. Horwitz and S. Sahni and D. Mehta.
Instructor: Dr. Dezfoulian.
- **Logic Circuits**
Reference: Digital Design/ M. Morris Mano.
Instructor: Dr. Khotanloo
- **Design and Analyses of Algorithms**
Reference: Introduction to Algorithms, Corman, Leiserson, Rivert (CLRS)
Instructor: Dr. Zarrabi-Zadeh
- **Design and Implementation of Programming Languages**
Reference: Programming Language Design and Implementation/ Terrence W. Partt, Marvin V. Zelkwitz.
Instructor: Dr. Dezfoulian
- **Computer Architecture**
Reference: Computer System Architecture/ M. Morris Mano.
Instructor: Dr. Khotanloo.
- **Formal Languages and Automata**
Reference: Introduction to Formal Languages and Automata/ P. Linz.
Instructor: Dr. Zarrabi-Zadeh .

- **Numerical Computation Methods**

Reference: Numerical Methods for Mathematics/ J. M. Mathews.
Instructor: Dr. Dezfoulian.

- **File Structures**

Reference: File Structures an Analytic Approach. Betty Salzberg.
Instructor: Dr. Seifi.

- **Operating Systems**

Reference: Operating System Concepts/ A. Silberschatz and J. L. Peterson
instructress: Dr. Bathaiyan

- **Microprocessor**

Reference: Microcomputers and Microprocessors: the 8080, 8085 and Z_80 Programming/ John E. Uffenbeck.
Instructor: Dr. Khotanloo

- **Computer Networks**

Reference: Data and Computer Communication/ Wiliam Stalling.
Instructor: Dr. Pourrad

- **Software Engineering 1**

Reference: Computer System Design and Analysis/ habibi Jafar.
Instructor: Dr. Bashiri

- **Fundamental of Database Design**

Reference: Introduction to Database Systems/ C. J. Date.
instructress: Dr. Bathaiyan.

- **Artificial Intelligence**

Reference: Artificial Intelligence/ G. F. Luger, W. A. Stbblefield.
Instructor: Dr. Dezfoulian

- **Fundamental of Compiler Design**

Reference: Compilers, Principles, Techniques and Tools/ Aho, Sethi and Ullman.
Instructor: Dr. Bathaiyan.

- **Software Engineering 2**

Reference: Computer System Design and Analysis/ habibi Jafar.
Instructor: Dr. Bashiri

- **Electrical Circuits**

Reference: Electrical Circuits and Components/ L. Nashleski.
Instructor: Dr. Sabzpooshan

- **Electronic Circuits**

Reference: Electrical Circuits and Components/ L. Nashleski.
Instructor: Dr. Sabzpooshan

Optional Courses

- **Presentation Methods**

Reference: Presentation Methods/ Mohammad Taghi Roohani Rankoohi.
Instructor: Dr. Dezfoulian

- **Computer Graphic**

Reference: Computer Graphics/ D. Hown.
Instructor: Dr. Dezfoulian

- **Parallel Programming**

Reference: Parallel and Distributed Computation/ Dimitri P. Bertsekas, John N. Tsitsiklis.
Instructor: Dr. Shokri poor.

- **Neural Networks**

Reference: Fundamental of Neural networks/
instructress: Dr. Bathaiyan.

- **Network Security**

Reference: Cryptography and Network Security Principles and Practice/ William Stallings.
Instructor: Dr. Seifi .

Basic Courses

- **General Mathematics**

Reference: General Mathematics/ Safakish Hamedani.
Instructor: Dr. Safakish-Hamedani.

- **General Physic**

Reference: Fundamental of Physics/ Halliday, David
Instructor: Dr. Rahimi, Dr.s Zaryooni

- **Discrete Mathematics**

Reference: Discrete and Combinatorial Methematics an Applied Introductory/ Ralph P. Grimaldi.

Instructor: Dr. Zarrabi-Zadeh

- **Engineering Statistics and Probability**

Reference: Introduction to Probability and Statistics for Engineers and Scientists/ Ross Sheldon M..
Instructor: Dr. Nasir Al Eslam

- **Engineering Mathematics**

Reference: Engineering Mathematics/ Ross Sheldon M..
Instructor: Dr. Kazemi

- **Differential Equations**

Reference: Elementary Differential Equation and Boundary Value Problem/ W. E. Boycc..
instructress: Dr. Khoshnevis

- **Electrical Circuits**
Reference: Electrical Circuits and Components/ L. Nashleski.
Instructor: Mr. Sabzpooshan

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- **Engineering Statistics and Probability**

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