

course description



این فایل به منظور کمک به متقاضیان تحصیل در کشور ایتالیا توسط گروه فلی تو ایتالی به صورت رایگان تهیه شده است لطفاً از خرید این فایل خودداری فرمایید.

اسفاده از این فایل در صفحات مجازی و وبسایت ها با ذکر نام تهیه کننده بلامانع است.

کانال تلگرام
فلی تو ایتالی



کانال یوتیوب
فلی تو ایتالی



پیج اینستاگرام
فلی تو ایتالی



سایت
فلی تو ایتالی



معرفی فلای تو ایتالی

سلام!

تیم فلای تو ایتالی متشکل از چند دانشجو که فعالیت خودمون را از ماه بهمن سال 1401 آغاز کردیم و هدف تیم ما این است که به شما کمک کنیم تا بتوانید به صورت مستقل و بدون نیاز به مشاوران مهاجرتی برای دانشگاه های ایتالیا اپلای کنید و پذیرش بگیرید . با توجه به اینکه بسیاری از موسسه های مهاجرتی هزینه های بالایی را برای اخذ پذیرش از دانشگاه های ایتالیا از دانشجو دریافت میکنند ، ما تصمیم گرفتیم با تلاش و تجربه خود به دانشجو ها کمک کنیم که بدون هزینه اضافه کار های مهاجرتی خودشون را انجام بدهند .

در این راستا در طی سال های گذشته ویدئو های مختلفی را برای نحوه اپلای کردن دانشگاه های ایتالیا ضبط و منتشر کردیم تا به دانشجویان کمکی کرده باشیم تا بتوانند در این مسیر با کمترین هزینه از دانشگاه های ایتالیا پذیرش بگیرند .

پس اگر سوال یا نیاز به راهنمایی در زمینه مهاجرت تحصیلی به کشور ایتالیا داشتید ، با ما همراه باشید و سوالات خودتون را از ما بپرسید . ما در کنار شما خواهیم بود و شما را همراهی خواهیم کرد .

مدیریت fly to italy



طریق استفاده از فایل

برای استفاده از این فایل ، صفحات بعد را کپی گرفته و به
دانشگاه مبدا ببرید و تاییدات لازم را بگیرید

Software Engineering Course description

CS 1814446 and 1814444 General Math I and II (3)

Robert A.Adams; Calculus: Acomplete course, Tomas Calculusm, Richard A.Silverman; Model Calculus and Analytic Geometry

Study of limits and continuity, the derivative, Rolle's theorem, the Mean-value theorem for derivatives, Fermat's theorem, the differential and anti-differentiation, the definite integral, area, the mean-value theorem for integrals, the fundamental theorem of calculus, polar coordinate systems and other topics as time permits.

CS 1822548 Mechanical physics (2)

Fundamentals of Physics Textbook by David Halliday, Jearl Walker, and Robert Resnick

Principles and applications of mechanics, wave motion, sound and heat with emphasis on fundamental concepts, problem solving, notation and units.

CS 1822385 Physics of Electricity and Magnetism (2)

Fundamentals of Physics Textbook by David Halliday, Jearl Walker, and Robert Resnick

Principles and applications of electricity, magnetism, light, and modern physics with emphasis on fundamental concepts, problem solving, notation, and units.

CS 2614031 Discrete structures (3)

discrete mathematics richard johnsonbaugh

An introduction to the foundation of discrete structures as they apply to computer science, focusing on providing a solid theoretical foundation for further work. Topics include: sets, ordered structures, graphs and trees, functions, proof techniques, number systems, logic, Boolean algebra, etc.

CS 2614041 Computer Fundamentals (4)

A programming class held in laboratory whose role is to make students familiar with C++ programming principles. The emphasis of this course was toward hands-on program development, testing and debugging of the code.

CS 1814453 Differential Equations (3)

Robert A.Adams; Calculus: Acomplete course, Tomas Calculusm, Richard A.Silverman; Model Calculus and Analytic Geometry

Study of differential equations that arise as models of phenomena in engineering. Topics include: first-order equations; linear equations; second-order equations and their applications; systems of linear equations; series solutions; Laplace transforms; introduction to partial differential equations.

CS 3612060 Electrical circuits

Introduction to theory, analysis and design of electric circuits. Voltage, current, power, energy, resistance, capacitance, inductance

CS 2614043 Data structures (3)

A study of the development and use of abstract Data types for storing and retrieving data. Data structures considered lists, strings, tables, stacks, trees, and graphs. Pointers and classes are used to implement data structures. This course also includes searching, sorting, and recursive algorithms.

CS 3614045 Advanced programming I (3)

Introduction to Java programming language and object oriented programming. Object oriented concepts including polymorphism, encapsulation, and inheritance.

CS 3612046 Engineering statistics and Probability (3)

Fundamentals of probability, random processes, statistics, and decision analysis are covered, along with random variables and vectors, uncertainty propagation, conditional distributions, and second-moment analysis.

CS 3614016 Advanced programming II (3)

Writing applications with java by connecting Java IDE s to JavaFX. Introduction to bounding and inherited class concepts.

CS 3614036 Theory of formal languages and Automata (3)

The course introduces some fundamental concepts in automata theory and formal languages including grammar, finite automaton, regular expression, formal language, pushdown automaton, and Turing machine.

CS 3614051 Information Storage and Retrieval (3)

Representation of storage and access to very large multimedia document collections; fundamental data structures and algorithms of current information storage and retrieval systems and various techniques to design and evaluation of complete retrieval systems.

CS 3618039 Algorithm Design (3)

Introduction to Algorithms Book by Charles E. Leiserson, Clifford Stein, Ronald Rivest, and Thomas H. Cormen

This is an intermediate algorithms course with an emphasis on teaching techniques for the design and analysis of efficient algorithms, emphasizing methods of application. Topics include divide-and-conquer, randomization, dynamic programming, greedy algorithms, incremental improvement, complexity, and cryptography.

CS 3614033 Logical Circuits (3)

Logic level models, including Boolean algebra, finite state machines, arithmetic circuits, and hardware description languages. Logic gates, memory, including CMOS gates, flip-flops, arrays, and programmable logic. Both combinational and sequential logic circuits are covered in this course. The

emphasis is on the use of Boolean algebra and basic logic gates to build cost effective complex logic circuits.

CS 3614042 Machine Language and System Programming (3)

An introduction of the Assembly Language. The student will work with binary and hexadecimal numbering systems, computer architecture and assembly language instruction sets. The student will write assembly language programs, implementing an assembler and linker using a high-level language.

CS 3614047 Principles of Compiler Design (3)

An introduction to the design and implementation of programming language translators. Theoretical aspects of language design and translation are discussed and practically demonstrated by developing a working compiler.

CS 3614049 Artificial Intelligence (3)

Artificial Intelligence: A Modern Approach Textbook by Peter Norvig and Stuart J. Russell

A research field that studies how to realize the intelligent human behaviors on a computer. ... The main research topics in AI include: problem solving, reasoning, planning, natural language understanding, computer vision, automatic programming, machine learning, and so on.

CS 3614094 Object oriented Analysis and Design (3)

The aim of the course is to teach methods and techniques for analysis and design of information systems base on an object-oriented approach. The course will, furthermore, discuss a variety of perspectives of development of information systems in order explore the relationship between programming, data bases and software engineering. A project will be conducted with the aim to analyze and design an information system in a real-world organization.

CS 3614024 Computer Architecture I (3)

Computer Organization and Architecture: Designing for Performance Textbook by William Stallings

Includes the organization and **architecture** of **computer** systems hardware; instruction set **architectures**; addressing modes; register transfer notation; processor design

and **computer** arithmetic; memory systems; hardware implementations of virtual memory, and input/output control and devices.

CS 3614049 Data mining (3)

Data Mining studies algorithms and computational paradigms that allow computers to find patterns and regularities in databases, perform prediction and forecasting, and generally improve their performance through interaction with data. It includes data selection, cleaning, coding, using different statistical and machine learning techniques, and visualization of the generated structures. The course will cover all these issues and will illustrate the whole process by examples.

CS 3614048 Software engineering (3)

Software Engineering: A Practitioner's Approach Book by Roger S. Pressman

Modeling, Design, and Testing. An introduction to object-oriented software development process and design. Topics include: iterative development, interpretation of requirements and use case documents into code; application of design notation in UML; and use of commonly-used design patterns.

Introduction to second object-oriented programming language. Laboratory experiments and examples will be used to illustrate and reinforce concepts taught in the lectures.

CS 3614050 Principles of database design (3)

Studies of database management including: concepts and characteristics, planning organization, data structures, semantic data modeling, conceptual design, physical design, administration, and implementation. Students will design a database. Prerequisite: one computer language. FA, odd years.

CS 3614102 Theory of supplementary calculus (evolutionary computation) (3)

Evolutionary algorithms are search and optimization algorithms gleaned from the model of organic evolution. Their main components are a population of individuals that undergoes an iterative process of fitness evaluation, variation and selection.

CS 3614115 Software Internship (1)

Students undertake a significant experiential learning opportunity, typically with a company. The internship represents an educational strategy that links classroom learning and student interest with the acquisition of knowledge in an applied work setting. Through direct observation, reflection and evaluation, students gain an understanding of the internship site's work, mission, and audience, how these potentially relate to their academic study, as well as the organization's position in the broader industry or field. Students will produce a critical reflection on their internship experience demonstrating how they have addressed specific learning goals.

CS 3614015 Expert Systems and knowledge engineering (3)

Techniques for the construction of expert systems including computer inference and knowledge acquisition; knowledge representation schemes; conceptual data analysis; plausible reasoning techniques; validation and measurement methods; production-rule programming.

CS 3614034 Microprocessor 1 (3)

This course has an emphasis on microprocessor programming and assembly language programming, utilizing 8, 16 and 32 bit processors (Intel, Freescale, ARM). The student will design and implement embedded applications for dedicated hardware platforms. Topics include CPU concepts (registers, address bus, data bus, internal versus external ROM, internal versus external RAM, program counter, stack pointer, interrupts), input/output mechanisms, machine data types, basic assembly language programming, timers and interrupt handling.

CS 3614035 Operating systems (3)

Operating Systems: Design and Implementation Textbook by Andrew S. Tanenbaum

A study of operating system concepts and how those concepts are used in the design and implementation of modern operating systems. Topics include process management, processor scheduling, memory management, virtual memory, I/O, file systems, deadlocks, and concurrency

CS 3614037 Computer networks (3)

Computer Networks Book by Andrew S. Tanenbaum

Considers a wide range of concepts used in the design and implementation of modern network systems. Course content will be organized according to the TCP/IP and the OSI model. Among topics that will be included are hardware components, protocol suites (especially TCP/IP), network topologies, IEEE 802.3 networks, bridging, and routing.

CS 3614083 Fundamentals of engineering (3)

An introduction to moral values that an engineer should always keep in mind. Other topics include metrics systems, etc.

CS 3612054 Electronic circuits (3)

Electronic Devices and Circuits

Book by Christos C. Halkias and Jacob Millman

The course introduces the fundamentals of the lumped circuit abstraction. Topics covered include: resistive elements and networks; independent and dependent sources; switches and transistors; digital abstraction; amplifiers; energy storage elements; dynamics of first- and second-order networks; design in the time and frequency domains; and analog and digital circuits and applications. Design and lab exercises are also significant components of the course.

CS 3614003 Designing and implementing of programming languages (3)

Design and implementation of high-level languages, focusing on compiler design and implementation.

Topics include data types, control structures, and the relationship between syntax and semantics.

Course project includes designing and programming a compiler.

CS 3614009 Software project (3)

The Final project of Bachelor studies whose successful implementation is mandatory in order to become graduated.

CS 3614028 Presentation Methods of Scientific and technical Materials (3)

The most important factors that should be considered while presenting in a seminar or a class. This course demands each student to give at least 5 presentations. Other topics include how to write references, how to write papers efficiently and articulately and how to write regular reports while working on a project.

CS 3618061 Security in computer systems (3)

Computer Systems Security is a class about the design and implementation of secure computer systems. Topics include operating system (OS) security, capabilities, information flow control, language security, network protocols, hardware security, and security in web applications.

CS 3620011 Technical language (2)

During this course students are taught Advanced English in order to be able to understand complicated technical materials. Also students must give a presentation at the end of the semester in order to become fluent in giving a presentation in English.

CS 3620026 Engineering Mathematics (3)

This course includes differential equations, transforms and Fourier series with applications to engineering.