

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 خودشان 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

SUMMARY OF COURSE DESCRIPTIONS
BACHELOR of SCIENCE of CIVIL ENGINEERING

*Abbreviations: G=General, B=Basic, M=Main, C=Compulsory, E=Elective, O=Optional

Course Title	Credits	Hour		Description	Type of course*
		Theory	Practical		
Technical & construction drawing	2	16	32	Principles of construction and technical drawing.	M
General Mathematics 1	3	72		Principle of mathematical induction, functions and limits, derivatives, applications of differentiation, inverse functions, techniques of integrations, differential equations, parametric equations and polar coordinates, complex numbers	B
Basic Physics 1 (Engineering)	3	64		Basic and advanced principles of Mechanical Physics.	B
General English	3	48		Describing English Grammar and Vocabulary with reading and writing homework and periodical English Exams.	G
Islamic ethics (Fundamentals and concepts)	2	32		Instructions for better life and interacting with other people in a society.	G
Islamic Revolution of Iran	2	32		The procedure of Iran revolution and the behavior of famous people during the period of changing the government.	G
Physical Education I	1		34	General physical education and track and field.	G
Civi statics	3	48		Principles of static for structures and estimation of the distribution of loads in structures and the condition of stability or instability of structures.	M
General Mathematics II	3	72		Infinite sequences and series, vectors and geometry of space, vector functions, partial derivatives, multiple integrals, vector calculus, second-order differential equations	B
Differential Equations	3	72		Principles of differential equations, different ways of solving equations with a programming project in a related subject	B
Basic Physics II (Engineering)	3	64		The principles of electricity physics, electrical devices and electrical distribution methods	B
Basic Physics Lab. I (Engineering)	1		40	Implementing theoretical principles of mechanical physics in a physics laboratory in practical ways.	B
General Persian Language	3	48		Discussing the poem and prose from old literature of Persian.	G
Computer Programming	3	48		Using computer programing with Matlab and VB. This course had a computer programming project related to a civil subject.	B
Civil Dynamics	3	48		Basic principles of dynamics of structures.	M
Strength of Materials I	3	48		Principles and analysis of loading and strength of materials under loading in different situations for axial loading, tension, torsion and etc. for structures (I)	M

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		Theory	Practical		
Engineering Geology	2	32		Describing geology situation and the procedure of forming geology situation of different places and effects of geology on engineering. It had some scientific trips for surveying some geology facts.	M
General Chemistry	2	32		Principles of chemistry	M
Environmental Engineering	2	32		Environmental quality, water quality modeling, water & wastewater treatment systems, sludge processing, solid wastes, hazardous wastes, environmental law, being familiar with SWOT analysis.	B
Engineering Statistics & Probability	2	48		Numerical calculations in mathematical problems and instructions to solve equations by numerical methods.	B
Human in Islam	2	34		Instructions for better life and etc.	G
Numerical calculation	2	48		finding roots of nonlinear equations; solution techniques for system of linear equations; curve fitting - polynomial and spline interpolation; least squares fit; numerical differentiation and integration; solution of ordinary differential equations - initial and boundary value problems; and use of MATLAB codes in numerical analysis for solving civil engineering problems.	B
Surveying I & operation	2	32		Learning how to use different surveying equipment and how to mapping a site. It had a specific project in surveying for each group of students in an individual site using surveying equipment and AutoCAD software.	M
Sewage & water engineering & project	3	64	32	Analysis and design of Water and Sewage systems with a final project in sewage system design.	M
Construction Materials & Lab.	2	24	16	Describing characteristics of construction material such as concrete, steel, brick and ... with practical experiments in laboratory and scientific trips to construction materials's plants.	M
Principles of Architecture & Urban Development	2	32		Architecture design and planning of urban areas and instructions for effective planning for urban development with a final project.	M
Structural Analysis I	3	48		Analysis of structures under loading in different situations, stability and instability analysis of structures, analysis of buildings systems under loading and calculating related loading, momentum and torque for each element and each structural support in various ways (I)	M
Civil Soil Mechanics	3	48		Principles of soil Mechanics and analysis of soil behavior in different conditions (such as saturation or semi saturation condition or ...) and analysis of soil strength	M

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		Theory	Practical		
Civil Soil Mechanics Lab.	1		32	Practicing Soil Experiments in a soil laboratory	M
Civil Fluid Mechanics	3	48		Principles of fluid mechanics and analysis of fluid flow in pipes, channels and analysis of fluid equations.	M
Nahjolbalagheh Thematic Interpretation	2	32		Description and interpretation of principles which are mentioned in Nahjolbalagheh	G
Concrete Technology	2	32		Theoretical and practical instruction for production and maintenance of concrete, describing concrete aggregates and the combining procedure of them, Practical theoretical instruction in a laboratory and producing concrete by each group of student.	M
Small dams	2	32		Principles of small dams and how to analyze and design them	M
Structural Analysis II	3	48		Analysis of structures under loading in different situations, stability and instability analysis of structures, analysis of buildings systems under loading and calculating related loading, momentum and torque for each element and each structural support in various ways (II)	C
Foundation Engineering	2	48		Design and analysis of foundations of different structures. This course had a final project by Safe software.	C
Road Construction	2	32		Highway engineering and geometric design and analysis of urban highways and roads	C
Road Construction Project	1		32	Analysis and Design of a 6 km Mountain Highway.	C
Hydraulics & Lab	2	32		Principles of flow and hydraulic in channels and analyzing the flow equation, Implementing Fluid experiments and analyzing fluid flow in Hydraulic.	M
Population & birth control.	1		32	A brief guide about family life and control of population	M
Analytical History of the early Islam	2	32		Description and interpretation of principles which are mentioned in Islam and Quran.	G
Reinforced Concrete Structures I	3	48		Design and analysis of Reinforced Concrete Structures on the basis of ACI (I).	C
Steel Structures I	3	48		Analysis and design of steel structures on the basis of Iran Steel Structures Regulations (I).	C
Engineering Hydrology	2	32		Surveying hydrology according to weather conditions and describing equipments for assessing hydrology situations with a scientific trip to some weather stations.	M
Hydraulic buildings	3	48		Design of stable open channels; Design of transitions (Under sub and super critical flows); Lake and channel problems; Design of culverts ; An introduction to dam and its appurtenant structures; An introduction to different kinds of spillways and their applications;	E

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		Theory	Practical		
				Design of Ogee spillways; Hydraulic jumps; Design of stilling basins; Pumps; An introduction to water hammer problem	
Pavement Construction	2	32		Principles of road pavements, materials using in pavements, new approaches in pavement and pavement management	C
Principles of traffic engineering	2	32		Comprehensive introductory course to Traffic Engineering and Traffic Design for Urban issues	E
Transportation engineering	2	32		Principles of transportation engineering	O
Entrepreneurship	2	32		Principles about entrepreneurship and finance	M
Steel Structures II	2		48	Analysis and design of steel structures on the basis of Iran Steel Structures Regulations (II).	C
Principles of dam engineering	2	32		Principles of dam and how to design and analyzing it.	O
Principles of Earthquake Engineering	3	48		Theory and application of earthquake engineering and analysis of structures by considering earthquake effects. This course had a final project for a typical building.	C
Underground water engineering	3	48		Underground water places and hydrology cycles, hydraulic parameters of mixed mediums, natural properties of mixed mediums, reservoirs of underground water, under pressure waters.	O
Engineering Mathematics (civil)	3	48		Review of Ordinary Differential Equations (ODEs); Power Series Solutions of Ordinary Differential Equations; Sturm-Liouville Problems and Orthogonal Functions (Legendre's and Bessel's Functions); Introduction to Fourier Series, Fourier Integral and Transform; Discrete and Fast Fourier Transform (FFT); Introduction to Partial Differential Equations; Analytical Solution of PDEs via: Separation of Variables, D'Alembert Solution; Nonhomogeneous Problems in PDEs; Analytical Solution of ODEs and PDEs via Laplace Transform; Problem Analysis via Complex Functions	O
Metering, estimation & project	1	8	16	Cost and material analysis and estimation of construction projects such as buildings with a final project and basic principles of invoicing for construction projects.	C
Reinforced Concrete Structures II	3	48		Design and analysis of Reinforced Concrete Structures on the basis of ACI (II).	C
Steel Structures Project	1		32	Analysis and design of a 5-storey steel structure by the aid of ETABS	C

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		Theory	Practical		
Architectural Design	2	8	16	Description of elements (e.g. room, kitchen, living room, etc.) of a home and the best location of them accompanied with an architectural designing project of a big house	O
Implementation methods of construction	2	16	32	Principles of construction methods, site managing, project managing, procurement, site safety, experimental process management construction.	C
Islamic Thoughts I (Origin & resurrection)	2	34		Interpretation of life of the Imams in Islam.	G
Physical Education II	1			I was member of table tennis.	G
Reinforced Concrete Structures Project	1		32	Analysis and design of a 5-storey concrete structure building using ETABS software	C
Training I	2			Working for 270 hours (10 weeks) in a company with related field of the major which is specialized to make students ready for work and gain experimental experience with a completion report and final presentation	C
Total		2116	426		