

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



Islamic Azad University (IAU)

SUMMARY OF COURSE DESCRIPTIONS BACHELOR OF ARCHITECTURAL ENGINEERING

Abbreviations: P=Pre-Requisite B=Basic, G=General, M=Major, C=Compulsory, S=Specialized, E=Elective SS=Summer Session, OG=Optional General

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Design Workshop		
01	Applied Geometry	3	112	16	-	96	Foundations and applications of descriptive geometry, geometric drawing based on a practical and technical survey.	B
02	Environmental Communication and Presentation	3	112	16	-	96	This course provides student for increasing the knowledge of architecture projects by analyzing "interior's values" architecture and interior design. Analyzing the most important architectures around the world, identifying some characters of the indoor spaces and also analyzing the relationship in between the environment.	B
03	Pre-requisite Mathematics for B.Sc.	2	32	32	-	-	Principle of Mathematical Induction, Complex numbers; Functions: Odd, Even and Periodic functions Hyperbola functions and their graphs.	P
04	General English Language	3	48	48	-	-	Describing English Grammar and Vocabulary with reading and writing homework and periodical English exams.	G
05	General Persian Literature	3	48	48	-	-	Discussing the poem and prose from old literature of Persian.	G

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Design Workshop		
06	Materials and Construction Workshop	2	96	-	-	96	Through this workshop practices, student would acquire the basic knowledge about materials and their usage in forming architectural designs. Finally, it would enhance the ability of students in creating objects.	B
07	Technical English Language for Architecture	2	32	32	-	-		E
08	Family and Population Planning	2	32	32	-	-		G
09	Islamic Revolution and its Roots	2	32	32	-	-		G
10	Islamic Ethics	2	32	32	-	-		G
11	Construction Materials	2	48	16	32	-	Lectures, field trips, and laboratory sessions directed toward the nature, potentials, and limitations of a variety of materials (wood, metal, plastics, inorganic cementing materials, minerals, rocks, and clay) and the processes involved with their production, fabrication, and the system compatibility.	M
12	Mathematics and Statistics (Architecture)	3	48	48	-	-	This course gives the principles and operational instruments of Mathematics, and also it's aiming to the structural design.	B
13	Perspective Geometry	2	48	16	32	-	An introduction to survey and imagine spaces in a perspective.	B

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Design Workshop		
14	Introduction to Architectural Design I	5	208	16	-	192	These courses containing two parts: 1. Exercises for treating the imagination, analyzing architecture plans by or reading the plans and watching the pictures of exteriors and interiors and analyzing the relation between these two, and understanding the effects of light in architecture expressions. 2. Learning architecture design from making a question till the answer.	B
15	Introduction to Architectural Design II	5	208	16	-	192		B
16	Architectural Communication I	2	64	16	-	48	In this course a particular attention will be paid to the graphical modalities of elaboration of the document.	B
17	Architectural Communication II	2	64	16	-	48	Developing the ability of expression in a compatible manner with academic subject and with an architectural concentration; including freehand drawing, contour drawing, analytical drawing, and professional techniques of shading and rendering	B
18	Human, Nature and Architecture	2	48	16	32	-	Introduction to the theoretical aspects of Architecture.	B
19	Statics	2	32	32	-	-	Static and force analysis; the study of external forces and force systems and their analytical solutions as applied to bodies at rest (equilibrium). Topic areas include beams, trusses, determinate frames, and load tracing.	M
20	History of Islam	2	32	32	-	-		G

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Design Workshop		
21	Strength of Materials and Steel Structure	2	32	32	-	-	Static and force analysis; the study of external forces and force systems and their analytical solutions as applied to bodies at rest (equilibrium). Topic areas include beams, trusses, determinate frames, and load tracing.	M
22	Architectural Design I	5	208	16	-	192	In this project exercise and learning how to gain a goal and upbringing the concepts is the main target. It's suggested to propose some simple functions in this project.	G
23	Introduction to World Architecture	2	32	32	-	-	Architectural history in the world from ancient world to 19th century.	M
24	Survey of Historical Buildings	3	144	-	-	144	This workshop is including theory and practice, and it is based on developing reflections on the process of the architectural project through a general hypothesis. Observation and surveying one of the architectural masterpieces in Iran is a part of the course.	M
25	Islamic Texts	2	32	32	-	-		G

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Design Workshop		
26	Introduction to Contemporary Architecture	2	32	32	-	-	This course is an overview of the innovations which occurred at the end of the 18 th century. This course also interprets contemporary architectural works and highlighting the multiplicity of views.	M
27	Rural Architecture I	3	112	16	-	96	An introduction to villages and figuring out the opportunities and threats and also discussing suggestions in order to design their environments; this course includes surveying some buildings in villages, analyzing the conditions and trying to improve the opportunities and solving the treats.	M
28	Rural Architecture II	3	112	16	-	96		M
29	Construction I	2	32	32	-	-	Methods of construction, primarily buildings. Construction types: steel; plain, reinforced, and pre stressed concrete; masonry. Foundations; associated details of frames, walls, roofs, floors, openings, finishes. Disasters, failures, and their causes. Industrialization of the building process.	M
30	Construction II and Workshop Report	2	32	32	-	-		M
31	Environmental System Control	2	32	32	-	-	Describes principles and applications of climate, energy use, and comfort as determinates of architectural form; architectural methods for climate adaptation using non-mechanical means of ventilating, cooling, heating, and lighting; and design and performance predictions for passive approaches to solar heating, heat transfer mechanism, and strategies for climate responsive design.	M

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Design Workshop		
32	Architectural Design II	5	208	16	-	192	An introduction to the concept of “home” and defining it’s spaces and the relation between them.	M
33	Concrete Structures	2	32	32	-	-	Design of reinforced concrete structures.	C
34	Introduction to Islamic Architecture	4	80	48	32	-	An Introduction to concepts of Islamic Architecture and understanding of spatial profile of this architecture. The principles governing the design of buildings in Islamic architecture	M
35	Electrical Installations (Illumination and Acoustics)	2	32	32	-	-	Description of principles and practices for manipulating and enhancing sound in buildings. Information about sound behavior and the organization of architectural elements (deployment of design features, including various geometries and materials) for the control of sound in enclosed spaces and between adjacent spaces.	M
36	Mechanical Installations	2	32	32	-	-	Fundamentals of light-frame construction from soils examination, foundation systems to framing systems, and the integration of plumbing, and heating/cooling into the structure.	M
37	Architectural Design III	5	208	16	-	192	An attempt to fulfill the cultural and expressional dimensions in architecture. An experience to focus on the external dimension of architecture. Introduction to Principles of Anatomical Planning	M

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Design Workshop		
38	Physical Education I	1	32	-	32	-		G
39	Islamic Studies I	2	32	32	-	-		G
40	Costing and Estimating	2	48	16	32	-	Basic procedures, calculations, and techniques used in construction cost estimating. Includes bidding procedures, different types of construction estimates and the appropriate procedures for each, and the process of quantity take-offs and cost calculations including equipment, overhead, and profit components. Computer applications to produce estimates and review of existing software titles.	M
41	Theo. Fundamentals of Architecture	3	48	48	-	-	Problematical nature of philosophies of architecture; interaction of philosophical concepts and architectural form and expression. Fundamentals of architectural criticism.	M
42	Introduction to Principles of Anatomical Planning	2	64	16	-	48	Introduction to Principles of Anatomical Planning and residential complex planning	S
43	Introduction to building Restoration	3	80	32	-	48	This course is an attempt to raise the knowledge of restorations. The study of materials such as woods, concrete, stone and etc is part of this course. After a general introduction to the materials students will work in groups on an exercise and lectures.	S
44	Architectural Design IV	5	208	16	-	192	This course is focusing on the functional, structural and facility system in architecture. It is suggested to go through some complicated functions in architecture such as Hospital, Hotels and etc.	S

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Design Workshop		
45	Technical Design	3	112	16	-	96	This course is managing the relation system between materials, constructive elements, environmental and functional needs; at workshop students will try to design a project and it's constructive aspects. The target is presenting the project in a functional way.	S
46	Architectural Surveying	2	64	16	-	48	An introduction to surveying the land.	M
47	Computer Application in Architecture	2	48	16	32	-	Intensive introduction to computer-aided design systems for developing construction documentation (working drawings). Lectures and exercises focus on learning the methodology for using CAD to efficiently prepare working drawings, as well as discussions regarding industry recognized standards and current technology used in the preparation of documentation.	E
48	urban Spaces Analysis	3	64	32	32	-	This course intends to focus on land planning and designing in the large scales by theory and different practices on land planning.	S
49	Architectural Design V	5	208	16	-	192	Designing a residential complex is the attempt of this course, with considering the environment, culture and economy.	S
50	General Physical Education II	1	32	-	32	-		G
51	Final Design (Thesis)	6	288	-	-	288	Final Architectural Plan with elective subject.	S
52	Koran Reading and Concepts	1	16	16	-	-		OG
53	Imam Khomeini's Testament	1	16	16	-	-		OG
54	Islamic Studies II	2	32	32	-	-		G

55	Workshop Management and Organization	2	48	16	32	-	Construction management as a project delivery system emphasizing the roles and responsibilities of construction managers, contractors, sub-contractors, owners and design professionals, and how they relate to each other. Fundamentals of project administration from pre-construction planning to project close-out through the study and review of case studies. Includes an overview of cost estimating, meetings, project safety and scheduling	M
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	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Design Workshop		
01	General Mathematics II	2	32	32	-	-	Principle of Mathematical Induction, Complex numbers; Functions: Odd, Even and Periodic functions Hyperbola functions and their graphs.	P

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Design Workshop		
04	Mathematics	3	48	48	-	-	This course gives the principles and operational instruments of Mathematics, and also it's aiming to the structural design.	C

	Design Methods of Industrial Production	2	48	16	32	-	This course presents a compelling argument for moving architecture from a part-by-part, linear approach to an integrated one that brings together technology, materials, and production methods. Using examples from several industries that have successfully made the change to an integrated component approach, these visionary authors lay the groundwork for a dramatic and much-needed change in the building industry.
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Internship	2	240	-	240	-	Students learn the Principles of building renovation by proposing pattern for restoration of a Historical building, analyzing its harms, and giving proposed pattern for its shape, and plan by considering It is historical criteria.
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Remarks:

In University Educational System during each academic semester for each Theoretical Credit 16 hours, Practical 32 hours and Workshop Operations 48 hours of educational is offered.