



BACHELOR *of* ENGINEERING

KATEB UNIVERSITY
HOUSE OF ELITE



دانشگاه کاتب
Kateb University

FACULTY OF ENGINEERING

The Faculty of Engineering at Kateb University (KU) is committed to training into academic elites young individuals who are keen on honing their technical skills as well as nurturing their analytical and critical-thinking skills. The Faculty aim to help these youths to master engineering which will further enable them to create groundbreaking technologies that can lead the way towards innovations with immense societal impact.

At KU's Faculty of Engineering, knowledge gained from classroom is combined with the findings of latest and standard research. Only through this combination of research and study is it possible for students to understand the up-to-date knowledge of engineering, a broad and stimulating discipline that can bring significant changes to society.

With the help of its experienced faculty and advanced resources, we are proud to say that our Department of Engineering has successfully trained more than 150 experts and dedicated engineers to the society so far.

BACHELOR OF CIVIL ENGINEERING

Civil Engineering is a broad and professional field of study that focuses on planning, construction, supervision, and maintenance of tunnels, hydro-technical structures, concrete and metal structures, soil and concrete dams, roads, buildings, airports, tunnels, bridges and water supply and sewage. KU offers BA degree in Civil Engineering upon completion of 140 credit hours as per requirement of Ministry of Higher Education. The courses are divided into five main categories: general education, foundation courses, core courses, elective courses, and the final thesis.

Courses are composed of different credits: general courses comprise 16 credit hours; foundation courses, 39 credit hours; core courses, 72 credit hours; elective courses, 7 credit hours; and the final thesis, 6 credit hours. The overall degree is divided into eight semesters and/or four years of study with an 18-credit course mandatory in each regular semester. Each credit hour is equal to 16 sessions per semester.

KU is planning to establish its Electric Power Engineering and Architecture Engineering Departments in the upcoming year.



DEGREE OUTCOMES

Students who graduate with Civil Engineering Bachelor's Degree from Kateb University are equipped with the ability and skills to identify, formulate, and resolve complex engineering problems by applying principles of civil engineering, science, and mathematics.

CAREER PATHS

- Construction Management
- Geotechnical Engineering
- Transportation Engineering
- Hydraulics and Hydrology/Coastal Engineering
- Public Health Engineering (Water and Wastewater)
- Quality Assurance/Quality Control (QA/QC)

PRACTICAL OPPORTUNITIES

At KU, we provide practical platforms for students to develop their practical skills by taking them on different vocational trips to visit resourceful laboratories across Kabul. So far, students of the Engineering Department have practiced Asphalt Test, Soil Test, Liquid Limit, and Plastic Limit at Shah o Arus Dam in Shakar Dara District and Omar Gulistan Township in Kabul province.

These trips help Civil Engineering students to gain in-depth understanding of moisture content, grain-size, behavior of different types of soil by practicing permeability, unconfined compression, direct shear, compaction and consolidation that complement their theoretical studies.

Department of Engineering at KU g has also signed an MoU with Omran Holding Group that enables KU students to visit Omran Holding Group's Engineering Lab for doing their related experiments.



A photograph of two young men with dark hair and beards, looking down at a book held by the man on the left. They are outdoors, with green foliage and a light-colored building in the background. The man on the left is wearing a white shirt, and the man on the right is wearing a patterned sweater. A dark blue semi-transparent box is overlaid on the bottom right of the image, containing text.

CURRICULUM

Throughout their degree for four years and 8 semesters, our students of Engineering are introduced to civil drawing, site drawing, water and wastewater management, transport system engineering, urban design and structural analysis etc.

Civil Drawing or Site Drawing is the study of grading, landscaping to help the civil engineering understand the aspects of works in a construction site. Urban Design involves the introduction the methods of data collection, analysis and presentation methods, survey and analysis of visual form elements of a study area, analysis and redesign of urban spaces and city form research.

Structural analysis clear from its name, evaluates the effects of loads on structures. It also helps become sure about the capability of built structures of withstanding loads thus helps in design of the structures in effective manner.

ENGINEERING DEGREE PLAN

CREDITS SUMMARY

COURSE	NO. OF CREDITS	PERCENTAGE COVERED
GENERAL SUBJECTS	14	9.45%
FOUNDATIONS	33	22.29%
CORE SUBJECTS	91	61.48%
ELECTIVE SUBJECTS	4	2.7%
THESIS	6	4.05%



FRESHMAN YEAR

FIRST SEMESTER		
NO	SUBJECTS	CREDIT VALUE
1	CALCULUS (1)	4
2	PHYSICS (1)	4
3	CHEMISTRY	2
4	ENGINEERING GRAPHIC (1)	2
5	ISLAMIC CULTURE (1)	2
6	ENGLISH LANGUAGE (1)	2
7	AFGHANISTAN HISTORY	2
8	ENGINEERING GEOLOGY	2
TOTAL		20

SECOND SEMESTER		
NO	CALCULUS (2)	CREDIT VALUE
1	PHYSICS (2)	4
2	STATICS	4
3	CONSTRUCTION MATERIAL	4
4	ENGLISH LANGUAGE (2)	2
5	ISLAMIC CULTURE (2)	2
6	PROGRAMMING	2
7	ENGINEERING GRAPHIC(1)	2
8	ENGINEERING GEOLOGY	2
TOTAL		22

SOPHOMORE YEAR

THIRD SEMESTER		
NO	SUBJECTS	CREDIT VALUE
1	DIFFERENTIAL EQUATION	3
2	ENGINEERING STATISTICS	4
3	STRENGTH OF MATERIAL 1	2
4	DYNAMICS	2
5	ENVIRONMENTAL ENGINEERING	2
6	SURVEYING	2
7	ARCHITECTURE AND URBAN DESIGN PRINCIPLES	2
8	ISLAMIC STUDIES 1	2
TOTAL		19

FOURTH SEMESTER		
NO	SUBJECTS	CREDIT VALUE
1	STRENGTH OF MATERIAL 2	3
2	STRUCTURAL ANALYSIS1	3
3	SOIL MECHANICS	3
4	FLUID MECHANICS	3
5	STRENGTH OF MATERIAL LAB	1
6	ENGINEERING ECONOMICS	2
7	2 ISLAMIC STUDIES	2
TOTAL		17

JUNIOR YEAR

FIFTH SEMESTER		
NO	SUBJECTS	CREDIT VALUE
1	STRUCTURAL ANALYSIS 2	3
2	STEEL STRUCTURE DESIGN 1	3
3	LOADING	2
4	HYDRAULICS	2
5	HYDROLOGY	2
6	HIGHWAY ENGINEERING	2
7	CONCRETE TECHNOLOGY	1
8	1 ISLAMIC ETHICS	2
	TOTAL	17

SIXTH SEMESTER		
NO	SUBJECTS	CREDIT VALUE
1	CONCRETE STRUCTURE DESIGN 1	3
2	STEEL STRUCTURE DESIGN 2	3
3	HYDRUALIC STRUCTURE	3
4	PAVEMENT DESIGN	2
5	CONSTRUCTION MACHINARY	2
6	CONCRETE TECHNOLOGY LAB	1
7	HYDRAULICS LAB	1
8	2 ISLAMIC ETHICS	2
9	NUMERICAL COMPUTATION	2
	TOTAL	19

SENIOR YEAR

SEVENTH SEMESTER		
NO	SUBJECTS	CREDIT VALUE
1	CONCRETE STRUCTURE DESIGN 2	3
2	FOUNDATION DESIGN	2
3	WATER AND WASTEWATER	3
4	TRANSPORTATION ENGINEERING	2
5	PROJECT ESTIMATE	1
6	STEEL STRUCTURE PROJECT	1
7	HIGHWAY PROJECT	1
8	CIVIL ENGINEERING COMPUTER PROGRAM	2
9	CONSTRUCTION MANAGEMENT	2
	TOTAL	17

EIGHT SEMESTER		
NO	SUBJECTS	CREDIT VALUE
1	INTRODUCTION EARTHQUAKE ENGINEERING	3
2	STRUCTURAL	2
3	CONCRETE STRUCTURE PROJECT	1
4	DAM ENGINEERING	2
5	SEMINAR	3
6	MONOGRAPH	6
	TOTAL	17



FINANCIAL INFORMATION FOR THE YEARS OF 2018 – 2019

Fee structure has been divided into two categories; Barchi campus and main (Darul Aman) campus. Main campus is expected to cost higher because lower discount amount offered. Each student is required to pay a predetermined amount of AFN 12,000 each semester throughout their degree program. Tuition fee of AFN 850 is charged per credit hour. Students may register for a minimum of 14 credit hours and maximum of 22 credit hours each semester.

INDISCRIMINATE DISCOUNT

The undergraduate program offers a discount of 45% and 20% towards the total fees of each enrolled student each semester depending on which campus they study in. This amount applies to students who study full time at KU.

FEE CHART FOR THE YEARS OF 2018 – 2019

Barchi Branch Tuition Fees Structure



Predetermined Fees:

AFN 12,000



Tuition Fees Per Credit Hour:

AFN 850



Discount Amount:

45%

Type of Fee	Amount
Predetermined Fees	12,000 AFN
Tuition Fees Per Credit Hour	1,050 AFN
Fee for 18 Credits	30,900 AFN
Discount	45%
Fee Per Semester (discount applied)	18,540 AFN
Total Annual Fee (discount applied)	37,080 AFN

Main Branch Tuition Fees Structure



Predetermined Fees:

AFN 12,000



Tuition Fees Per Credit Hour:

AFN 850



Discount Amount:

20%

Type of Fee	Amount
Predetermined Fees	12,000 AFN
Tuition Fees Per Credit Hour	1,050 AFN
Fee for 18 Credits	30,900 AFN
Discount	20%
Fee Per Semester (discount applied)	22,866 AFN
Total Annual Fee (discount applied)	45,732 AFN

**BARCHI
BRANCH**

**45%
OFF**

**MAIN
BRANCH**

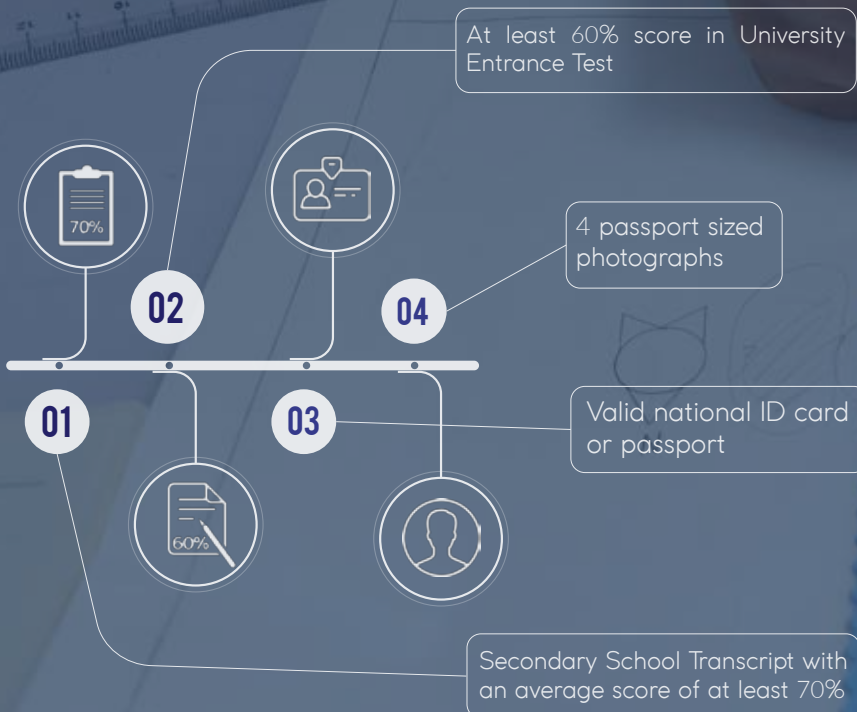
**20%
OFF**

ADMISSION

1. REGISTRATIONS:

Students need to fill the “Kateb Regular Students Registration Form” online at <https://kateb.edu.af/admission-bachelor> or get it from Office of Registrar.

Below are the eligibility criteria for enrollment for undergraduate program at the department of economics.



2. ENROLLMENT:

Each enrolling student needs to appear in a mandatory university entrance exam set by university administration. This exam is offered for enrollment twice a year and one at the beginning of each regular semester; fall and spring.



HOUSE OF ELITE



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