INTAKE: SEPTEMBER FOR ALL PROGRAMMES

(Course applications will be done in May)

Certificate in Geographical Information System

Duration   : 3 terms
Minimum entry qualifications: Diploma in Land Surveying, Cartography, Photogrammetry, Environmental or related Certificate in GIS
Tuition Fees: Kshs 19,200/=per term

Fiber Optics Communication

Duration: 2 weeks
Minimum entry qualifications: Diploma OR Certificate in Electrical Eng
Tuition Fees: Kshs 20,000/=

Programmable Logic Control and Industrial Automation (PLC)

Duration: 3 weeks
Minimum entry qualifications: Diploma OR Certificate in Electrical Eng
Tuition Fees: Kshs 35,000/=

Advanced Programmable Logic Control and Industrial Automation

Duration: 3 weeks
Minimum entry qualifications: Pass in Programmable Logic Control and Industrial Automation
Tuition Fees: Kshs 35,000/=

Certificate in AUTOCAD

Duration: 4 weeks
Minimum entry qualifications: KCSE Mean grade D+. Professionals in Building and Civil Engineering fields.
Tuition Fees: Kshs 14,000/=per term

PLEASE NOTE:

Applications for courses are available only when courses have been advertised in the daily newspapers and should be made during the official application period following the course advertisement. Application for courses, **made on or before the course application deadline**, addressed to the Senior Assistant Registrar-Student Recruitment and Admissions, should be made on **official course application coupons** available at the University & in the newspaper advertisement accompanied by copies of **ACADEMIC and/or PROFESSIONAL CERTIFICATES;** copy of **NATIONAL IDENTITY CARD or WAITING SLIP or PASSPORT; and a BANK DEPOSIT SLIP; or a BANKERS' CHEQUE; or a POSTAL MONEY ORDER** made payable to the University College of a **NON-REFUNDABLE COURSE APPLICATION FEE of Kshs 2,000/=**

Fee payments made by cash; credit cards; and personal and/or company cheques; <u>WILL NOT</u> be accepted at the University.

*Successful students shall pay **TUITION FEES** plus the **STATUTORY FEES** listed below **ONLY THROUGH** the following ways:*

1. *The university fee collection accounts at any branch of* **Equity Bank AC. NO 0540 290 597 366 or Co-operative Bank of Kenya AC. NO 0112 906 234 900**
2. *A bankers' cheque.*
3. *Any form of money transfer such as RTGS or EFT accompanied by a corresponding advice slip bearing the particulars of the beneficiary.*

Registration fee (paid per academic year) Kshs 2,000/=; Medical fee (paid per academic year) Kshs 2,000/=; Caution money (paid once (refundable) Kshs 2,000/=; Industrial Attachment fee for diploma students taking regular courses (paid once) Kshs. 1,350/=; Computer fee (paid per academic year) Kshs 2,000/=; Maintenance fee (paid per academic year) Kshs 400/=; Library fee (paid per academic year) Kshs 2,000/=; Student Union fee (paid per academic year) Kshs 500/=; Sports fee (paid per academic year) Kshs 500/=; Insurance fee (paid per academic year) Kshs 500/= ; Activity fee (for degree students-paid per academic year) Kshs. 1,000/=; and Examination fee (paid per academic year) Kshs. 5,000/=

An academic year is equivalent to two (2) semesters.

TECHNICAL UNIVERSITY OF KENYA

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT (FEBE)

SCHOOL OF ENGINEERING SCIENCE AND TECHNOLOGY (SEST)

COURSE BROCHURE 2013/2014

LOCATION: N-BLOCK GROUND FLOOR

Bachelor of Engineering in Aeronautical and Aviation Engineering in the following options:

- **Airframes and Engines**
- **Avionics**

Duration: 13 semesters (5 years)
Minimum entry qualifications: KSCE mean grade C + with C+ in Mathematics, Physics, Chemistry/Biology
Tuition Fees: Kshs 90,000/= per semester

Bachelor of Technology (Land Surveying)

Duration: 4 years
Duration: 3 years for Diploma and 2 years for Higher Diploma
Minimum entry qualifications: Diploma in Land Surveying or equivalent
Tuition Fees: Kshs 90,200/=per semester,

Bachelor of Technology (Geoinformatics)

Duration: 4 years
Duration: 3 years for Diploma and 2 years for Higher Diploma
Minimum entry qualifications: Diploma in Technology in Geoinformatics or equivalent
Tuition Fees: Kshs 90,200/=per semester,

Bachelor of Engineering (B.Eng) in the following options:

➢ Power Systems Engineering
➢ Telecommunication Systems Engineering
➢ Instrumentation and Control Engineering
➢ Computer Systems Engineering

Duration: 5 years (10 semesters)
Minimum entry qualifications: KCSE mean grade of C+ including C+ in the cluster subjects, A-Level, Diploma (TEP), Diploma in Technology, Higher Diploma and Bachelor in Technology.
Tuition Fees: Kshs 90,200/=per semester

Bachelor of Technology (B.Tech) in the following options:

➢ Power Systems Engineering
➢ Telecommunication Systems Engineering
➢ Instrumentation and Control Engineering
➢ Computer Systems Engineering

Duration: 4 years (8 semesters)
Minimum entry qualifications: KCSE mean grade of C+ including C+ in the cluster subjects, A-Level, Diploma (TEP), Diploma in Technology, Higher Diploma.
Tuition Fees: Kshs 90,200/=per semester

Bachelor of Philosophy in Technology (Land Surveying/ Geoinformatics)

Duration: 4 semesters
Minimum entry qualifications: Higher Diploma in Land Surveying or Geoinformatics or equivalent
Tuition Fees: Kshs 90,200/=per semester

Bachelor of Philosophy in Technology (Electrical & Electronic Engineering Technology)

Duration: 4 semesters
Minimum entry qualifications: Higher Diploma in Electrical & Electronic Engineering
Tuition Fees: Kshs 90,200/=per semester

Bachelor of Philosophy in Civil Engineering

Duration: 2 years (4 semesters)
Minimum entry qualifications: Higher Diploma **in Construction (Structures; Building & Civil Engineering; Highway or Water engineering options)**
Tuition Fees: Kshs 90,200/=per semester

Bachelor of Technology in Chemical and Process Engineering

Duration: 2 years (4 semesters sandwich)
Minimum entry qualifications: Diploma in Chemical Engineering or any other equivalent Qualification from a recognized institution of higher learning
Tuition Fees: Kshs 90,200/=per semester

Diploma in Technology in Aeronautical and Aviation Engineering (Evening mode) in the following options:

- **Airframes and Engines**
- **Avionics**

**Duration : ** 3 years (9 semesters)
Minimum entry qualifications: KCSE mean grade C plain including C plain in Mathematics, C plain and Physics/Physical Science
Tuition Fees: Kshs 24,200/=per semester for evening

Diploma in Technology in Aerospace and Aviation Technology (Airframes and Engines option)

Duration: 3 years (9 semesters)
Minimum entry qualifications: KCSE mean grade C+ including C+ in Mathematics, C plain in English and Physics/Physical Science
Tuition Fees: Kshs 24,200/=per semester for evening

- **Diploma in Land Surveying (KNEC)**
- **Diploma in Cartography (KNEC)**

Duration: 6 semesters
Minimum entry qualifications: KCSE mean grade C and C in Mathematics, English, Physics or Physical Sciences & Geography or a Craft Certificate in related subject
Tuition Fees: Kshs 24,200/=per semester for evening.

Diploma in Geospatial Engineering (Evening mode)

Duration: 6 semesters
Minimum entry qualifications: KCSE mean grade C plain and C plain in Mathematics, English, Physics or Physical Sciences & Geography or a Craft Certificate in related subject
Tuition Fees: Kshs 24,200/=per semester for evening.

Diploma in Geo-informatics (Evening mode)

Duration: 6 semesters
Minimum entry qualifications: KCSE mean grade C plain with C plain in Mathematics, English, Physics or Physical Sciences & Geography or a Craft Certificate in related subject
Tuition Fees: Kshs 24,200/=per semester for evening.

Diploma in Technology in Civil Engineering

Duration: 9 semesters
Minimum Entry qualifications: KCSE mean grade C plain with C plain in Mathematics; Physics and English
Tuition Fees: Kshs 36,000/=per semester

Diploma in Technology (D.Tech)
in the following options:

➢ Power Systems Engineering
➢ Telecommunication Systems Engineering
➢ Instrumentation and Control Engineering
➢ Computer Systems Engineering

Duration: 3 years (9 terms)
Minimum entry qualifications: KCSE mean grade C plain including C plain Mathematics, English and Physics, A-levels.

Diploma in Technology in Mechanical Engineering in the following options:

- Manufacturing Engineering
- Industrial Plant Engineering
- Automotive and Autotronic Engineering
- Air-Conditioning and Energy Engineering
- Structural Fabrication and Materials Engineering
- Metallurgical and Materials Engineering

Duration: 3 years (9 semesters)
Minimum entry qualifications: KCSE mean grade C plain and C plain in Mathematics, English, Physics/Physical Sciences and Chemistry
Tuition Fees: Kshs 24,200/=per semester for evening

Diploma in Technology in Chemical and Process Engineering (Evening mode)

Duration: 3 years (6 semesters)
Minimum entry qualifications: KCSE Mean grade C+ including C+ in Mathematics, English, Chemistry & Physics/Physical Science
Tuition Fees: Kshs 24,200/=per term for evening, Exam Kshs 4,000/=

Diploma in Technology (Refrigeration and Air Conditioning Engineering) (Evening mode)

Duration: 3 years (9 semesters)
Minimum entry qualifications: KCSE mean grade C plain with C plain in Mathematics, Physics/Physical Science, Chemistry and English
Tuition Fees: Kshs 24,200/=per semester for evening

Certificate in Electrical Installation Electrician I (TUK)

Duration: 2 terms
M**inimum entry qualifications:** Pass in EIT II or Electrical Installation Craft final (KNEC) or equivalent KPUC
Tuition Fees: Kshs 19,200/=per term

Certificate in Electrical Installation Technician II

Duration: 3 terms
Minimum entry qualifications: Pass in Certificate in Electrical Installation Technician I
Tuition Fees: Kshs 19,200/=per term

Certificate in Civil Engineering (Evening mode)

Duration: 3 terms
Minimum entry qualifications: KCSE mean grade D+ with D+ in Mathematics, English and Physics
Tuition Fees: Kshs 19,200/=per term

Technician Certificate in Electrical & Electronic Engineering
Duration: 3 Terms
Minimum entry qualifications: KCSE mean grade D+
Tuition Fees: Kshs 19,200/=per term

Advanced Computer Servicing and Maintenance

Duration: 2 Terms
Minimum entry qualifications: Pass in Computer Servicing and Maintenance
Tuition Fees: Kshs 19,200/=per term

Certificate in Electrical Installation Electrician III (TUK)

Duration: 2 Terms
Minimum entry qualifications: KCSE Mean grade D+
Tuition Fees: Kshs 19,200/=per term

Certificate in Electrical Installation Electrician II (TUK)

Duration: 3 Terms
Minimum entry qualifications: Pass in Electrical Installation Electrician III OR Grade Test III
Tuition Fees: Kshs 19,200/=per term

Certificate in Electrical Installation Technician I (TUK)

Duration: 3 terms
Minimum entry qualifications: KCSE Mean grade C-
Tuition Fees: Kshs 19,200/=per term

Bachelor of Engineering in Electrical and Electronic Engineering

Duration: 13 semesters
Minimum entry qualifications: KSCE mean grade C + with C+ in Mathematics, Physics, Chemistry/Biology or group III, IV, V subject
Tuition Fees: Kshs 90,000/=per semester

Bachelor of Technology in Electrical and Electronic Engineering Technology

Duration: 11 semesters
M**inimum entry qualifications:** KSCE mean grade C + with C+ in Mathematics, Physics, Chemistry/Biology or group III, IV, V subject
Tuition Fees: Kshs 90,000/=per semester

Bachelor of Technology in Electrical and Electronic Engineering Technology

Duration: 7 semesters)
Minimum entry qualifications: Diploma (TEP) or equivalent
Tuition Fees: Kshs 90,000/=per semester

Bachelor of Technology in Mechanical Engineering Technology

Duration: 11 semesters
Minimum entry qualifications: KSCE mean grade C + with C+ in Mathematics, Physics, Chemistry/Biology or group III, IV, V subject
Tuition Fees: Kshs 90,000/=per semester

Bachelor of Engineering in Mechanical Engineering

Duration: 13 semesters
Minimum entry qualifications: KSCE mean grade C + with C+ in Mathematics, Physics, Chemistry/Biology or group III, IV, V subject
Tuition Fees: Kshs 90,000/=per semester

Bachelor of Philosophy in Technology in Mechanical Engineering

Duration: 4 semesters
Minimum entry qualifications: Higher Diploma in Mechanical Engineering or equivalent
Tuition Fees: Kshs 90,000/=per semester for evening, Kshs 130,000/=per semester for E-module

Bachelor of Technology in Mechanical Engineering Technology

Duration: 7 semesters)
Minimum entry qualifications: Diploma (TEP) or Equivalent
Tuition Fees: Kshs 90,000/=per semester

Advanced Diploma in Telecommunication Systems

Duration: 4 terms
Minimum entry qualifications: Pass in Diploma in Telecommunication Systems
Tuition Fees: Kshs 24,000/=per term

Diploma in Technology in Chemical Engineering

Duration : 9 semesters
Minimum entry qualifications: KCSE mean grade C plain including C plain in Mathematics, Physics, Chemistry/Physical Science
Tuition Fees: Kshs 32,000/=per semester for evening

Diploma in Technology in Civil Engineering

Duration: 9 semesters
Minimum Entry qualifications: KCSE mean grade C plain with C plain in Mathematics; Physics and English
Tuition Fees: Kshs 36,000/=per semester

Diploma in Aeronautical Engineering

Duration : 9 semesters
Minimum entry qualifications: KCSE mean grade C plain including C plain in Mathematics, Physics, and Chemistry/Physical Science
Tuition Fees: Kshs 32,000/=per semester for evening

Diploma in Petroleum Management

Duration: 3 years (6 semesters)
Minimum entry qualifications: KCSE mean grade C+ including C+ in Mathematics, Physics/ Physical Science, Chemistry and English
Tuition Fees: Kshs 24,200/=per semester for evening

Diploma in Telecommunications Systems (C & G)

Duration: 5 Terms
Minimum entry qualifications: KCSE mean grade C minus including C minus in Maths, English and Physics.
Tuition Fees: Kshs 24,000/=per term

Advanced Servicing and Maintenance of Electrical and Electronic Equipment

Duration: 2 Terms
Minimum entry qualifications: Pass in Basic Servicing and Maintenance of Electrical and Electronic Equipment
Tuition Fees: Kshs 19,200/=per term

Craft Certificate in Applied Electronics (TUK)

Duration: 3 Terms
Minimum entry qualifications: KCSE Mean grade D+
Tuition Fees: Kshs 19,200/=per term

Certificate in Electrical Installation Technician III (TUK)

Duration: 2 Terms
M**inimum entry qualifications:** Pass in Certificate in Electrical Installation Technician II
Tuition Fees: Kshs 19,200/=per term

Certificate in Electronics Technician III (TUK)

Duration: 2 Terms
Minimum entry qualifications: Pass in Certificate in Electronics Technician II
Tuition Fees: Kshs 19,200/=per term,

Certificate in Electronics Technician II (TUK)

Duration: 3 Terms
Minimum entry qualifications: Pass in Certificate in Electronics Technician I
Tuition Fees: Kshs 19,200/=per term,

Certificate in Electronics Technician I (TUK)

Duration: 3 terms
Minimum entry qualifications: KCSE Mean grade C- with pass in Mathematics, Physics and D+ in English
Tuition Fees: Kshs 19,200/=per term

Certificate in Land Surveying and Cartography (TUK)

Duration: 3 terms
Minimum entry qualifications: KCSE mean grade D+ and D+ in Mathematics, English, Physics and Geography or KCE Div III
Tuition Fees: Kshs 19,200/=per term.

Certificate in Geographical Information System (GIS) (Evening)

Duration: 3 terms
Minimum entry qualifications: KCSE mean grade D+ and D+ in Mathematics, English, Physics and Geography or KCE Div III
Tuition Fees: Kshs 19,200/=per term

Certificate in Technology in the following options:

- **Airframes & Engines**
- **Avionics**
- **Helicopters Maintenance**

Duration: 1 year
Minimum entry qualifications: KCSE mean grade D+
Tuition Fees: Kshs. 17,350/= per term

Computer Servicing and Maintenance (KPUC)

Duration: 3 terms
Minimum entry qualifications: KCSE Mean grade D+
Tuition Fees: Kshs 19,200/=per term

Mechanical Engineering Technician Stage II (Plant)
Duration: 4 Terms
M**inimum entry qualifications:** Pass in Stage I
Tuition Fees: Kshs 24,000/=per term

Auto-Electrician II

Duration: 4 months
Minimum entry qualifications: Auto-Electrician Stage I
Tuition Fees: Kshs 24,000/=

Bachelor of Technology in Civil Engineering

Duration: 4 years
Duration: 3 years for Diploma holders and 2 years for Higher Diploma holders
Minimum entry qualifications: KSCE mean grade C + with C+ in Mathematics, C plain in English and Physics
Tuition Fees: Kshs 90,200/=per semester

Technical Diploma in Electrical and Electronic Engineering

Duration: 5 terms
Minimum entry qualifications: KCSE mean grade C- with D plain in Physics, Mathematics and English
Tuition Fees: Kshs 24,000/=per term

- **Diploma in Technology (Mechatronics Engineering)**
- **Diploma in Technology (Industrial Plant Engineering)**

Duration: 3 years (9 semesters)
Minimum entry qualifications: KCSE mean grade C minus with C minus in Mathematics, Physics/Physical Science, Chemistry and English
Tuition Fees: Kshs 30,000/=per semester for evening

- **Diploma in Aeronautical Information Technology**
- **Diploma in Aircraft Maintenance & Airworthiness Management**

Duration : 9 semesters
Minimum entry qualifications: KCSE mean grade C plain including C plain in Maths, Physics, Chemistry/Physical Science or Aviation Science
Tuition Fees: Kshs 32,000/=per semester for evening; exam Kshs. 3,000/= per semester

Certificate in Aircraft Maintenance (Fixed and Rotary wing)

Duration: 3 terms
Minimum entry qualifications: KCSE mean grade D+ including a pass in Mathematics, English, Physics/Physical Science
Tuition Fees: Kshs 19,200/=per term

Certificate in Fabrication and Welding

Duration: 4 terms
Minimum entry qualifications: KCSE Mean grade D+
Tuition Fees: Kshs 19,200/=per term

Certificate in Fire Engineering

Duration: 3 terms
Minimum entry qualifications: KCSE Mean grade D+ including Mathematics, English and Physics; or KCE Div III
Tuition Fees: Kshs 19,200/=per term

Certificate in Refrigeration and Air Conditioning Engineering

Duration: 3 terms
Minimum entry qualifications: KCSE Mean grade D+
Tuition Fees: Kshs 19,200/=per term

1. **Motor Vehicle Mechanic I**
2. **Auto-Electrician I**

Duration: 4 months
Minimum entry qualifications: KCSE level of education
Tuition Fees: Kshs 19,100/=per term

Basic Servicing and Maintenance of Electrical and Electronic Equipment (KPUC)

Duration: 4 Terms
Minimum entry qualifications: KCSE Mean grade D+
Tuition Fees: Kshs 19,200/=per term

Certificate in Technology in the following options:

- **Airframes & Engines**
- **Avionics**
- **Helicopters Maintenance**

Duration: 1 year
Minimum entry qualifications: KCSE mean grade D+
Tuition Fees: Kshs. 17,350/= per term

Motor Vehicle Mechanic II

Duration: 4 months
Minimum entry qualifications: Motor Vehicle Mechanic I
Tuition Fees: Kshs 24,000/=

Mechanical Engineering Technician Stage I (Plant)

Duration: 4 terms
Minimum entry qualifications: KCSE mean grade D+ including passes in Maths, English & Physics/Physical Sciences
Tuition Fees: Kshs 19,200/=per term