

EKURHULENI WEST TVET COLLEGE PROSPECTUS 2017

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What are the courses at Ekurhuleni West College?

How many campuses does Ekurhuleni West College have? EWC comprises of 6 Campuses: Alberton, Boksburg, Germiston, Kathorus, Kempton and Tembisa. These campuses see it as a challenge to also address life-long learning and developmental needs of individuals, organizations and economic sectors.

What are the requirements for Ekurhuleni TVET College? Minimum entrance requirements are aligned to the Report 191 programme requirements. Students must have passed: Grade 12/ NC(V) Level 4 may be admitted into N4 Business/Engineering studies and Creative & Social Services, subject to any other programme/ faculty requirements.

Which courses does Ekurhuleni East TVET College offer?

How much is registration fee at Ekurhuleni West College Courses? A Registration fee of R245. 00 per qualification will be charged irrespective of whether the student is enrolling for full-time or part-time or exam only. Exam only includes re-writes, supplementary examinations and approved correspondence providers. Student Card Fees: Where applicable, these will be R100.

Does Ekurhuleni West College have student accommodation? There are no accommodation facilities available for students at EWC.

Does ekurhuleni west college do walk-ins? Walk-ins are also welcome.

Does NSFAS fund ekurhuleni west college? NSFAS will pay fees for approved courses offered by Ekurhuleni West TVET College. This is because Ekurhuleni West TVET College is one of the 50 accredited public TVET colleges in South Africa.

Is ekurhuleni west college open for second semester? Semester 2 Applications Open at Ekurhuleni West TVET College for 2024. As of 21 May 2024 Ekurhuleni West TVET College is accepting applications for second semester of the 2024 academic year. Prospective and returning students are invited to apply for this opportunity to further their studies.

How much is an engineering course? A BEng degree costs between R55 460 and R57 180 a year at the University of Cape Town, from R43 580 to R50 360 at the University of the Witwatersrand, and R52 057 at the University of Stellenbosch.

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Which courses does Brakpan College offer?

What does Benoni College offer? The Business Programmes offered are Human Resource Management, Financial Management, Marketing and Management Assistant in the Report 191 qualifications and Office Administration and Management in the NC(V) qualification.

Two and Three Wheelers: Power Plant Unit I Question Bank

Paragraph 1:

Q1: What is the purpose of the power plant unit in a two or three-wheeler? **A:** The power plant unit generates and supplies electrical power to various components of the vehicle, such as the ignition system, lights, and charging system.

Paragraph 2:

Q2: Name the two main components of a power plant unit. **A:** Alternator (AC generator) and Regulator/Rectifier Unit (RRU)

Paragraph 3:

Q3: What is the function of the alternator? **A:** Converts mechanical energy from the engine into alternating current (AC) electrical energy.

Q4: Describe the role of the RRU. **A:** Rectifies the AC output from the alternator to direct current (DC), regulates the voltage, and provides a charging path for the battery.

Paragraph 4:

Q5: What factors affect the output voltage of the power plant unit? **A:** Engine speed, load on the electrical system, and RRU settings.

Q6: How is the output voltage of the power plant unit regulated? **A:** The RRU uses a feedback loop to adjust the excitation current to the alternator, which in turn controls the output voltage.

Paragraph 5:

Q7: What are the common faults associated with the power plant unit? **A:**

- Weak or open alternator stator or rotor windings
- Faulty RRU components (e.g., rectifier diodes, voltage regulator)
- Poor electrical connections
- Weak or damaged battery

Q8: How can you diagnose and troubleshoot power plant unit issues? **A:** Perform voltage and resistance checks on the alternator and RRU, inspect electrical connections, and test the battery charging rate.

What is the purpose of a ferrite core? A ferrite cable core is designed to clean common mode noise (signal) generated from either a signal line or power cable. How do Ferrite Cores Work? Ferrite cores are used to suppress electromagnetic emissions by blocking low-frequency noise and absorbing high-frequency noise. This

avoids electromagnetic interference.

Do ferrite cores actually work? A ferrite core suppresses electromagnetic emissions by blocking low-frequency noise and absorbing high-frequency noise to avoid electromagnetic interference. When current flows to an inductor, in this instance, a ferrite core, the core generates magnetic flux. The current energy is then converted into magnetic energy.

Who makes ferrite core in China? Haining Ferriwo Electronics Co. Ltd. has been established in 1998. The company is located in Haining city, the largest soft ferrite core manufacturing base in China.

What is a disadvantage of a ferrite core? Transformers with ferrite cores Generally speaking, the advantage of this material is that it can have very high permeability and low losses, and can work at high frequencies. The disadvantage is that it is easily saturated (its saturation flux density is typically 0.5 T).

Where do you put ferrite cores? Cable ferrites are normally situated near the cable termination where it exits the electronic enclosure. In fact, you might have to install a suppressor on both ends if the cable connects two separate enclosures containing radio frequency sources.

Is a ferrite core just a magnet? In electronics, a ferrite core is a type of magnetic core made of ferrite on which the windings of electric transformers and other wound components such as inductors are formed. It is used for its properties of high magnetic permeability coupled with low electrical conductivity (which helps prevent eddy currents).

What happens if you remove ferrite beads? The main reason why we have the ferrite bead in the power supplies is to prevent noise coupling from the input/output onto the VCO/PLL supplies. This noise can increase the jitter of the device. However, you are free to try in your system to remove the ferrite bead.

What happens to a wire when a ferrite bead is placed around it? The geometry and electromagnetic properties of coiled wire over the ferrite bead result in an impedance for high-frequency signals, attenuating high-frequency EMI/RFI electronic noise. The energy is either reflected back up the cable or dissipated as low-level

heat. Only in extreme cases is the heat noticeable.

How long do ferrite magnets last? Under normal circumstances, neodymium and ferrite magnets, as well as magnetic tapes and magnetic sheets, retain their magnetism almost indefinitely.

Do ferrite cores rust? Ferrite cores, by themselves not including conductors or other additional materials added, should not fail over time. Ferrites are a type of ceramic made from metal oxides, they will not rust and will not melt unless exposed to temperatures in excess of 1000 degrees C.

What is the raw material of the ferrite core? Ferrite cores are dense, homogeneous ceramic structures made by mixing iron oxide (Fe_2O_3) with oxides or carbonates of one or more metals such as manganese, zinc, nickel, or magnesium. They are pressed, then fired in a kiln to 1300o C, and machined as needed to meet various operational requirements.

Is ferrite just iron? Ferrite also known as alpha iron is a materials science term for iron, or a solid solution with iron as the main constituent, with a body-centered cubic crystal structure. It is this crystalline structure which gives steel and cast iron their magnetic properties, and is the classic example of a ferromagnetic material.

What is a ferrite core also known as? Ferrite Cores They have a low coercivity and are also known as soft magnetic ferrites. Because of their comparatively low losses at high frequencies, they are extensively used in switched-mode power supply (SMPS) and radio frequency (RF) transformers and inductors.

What is the difference between Type 31 and Type 43 ferrite? Ferrite is made in different formulas, called mixes. The mix used will determine the best choking impedance for the desired frequency range. Mixes 31 and 43 are best for HF use (31 is better for the low bands, with mix 43 having a slight advantage from 14 to 30 MHz).

What is the truth about ferrites? At steady DC, the ferrites have no effect, but as an AC signal is applied a resistance is developed within the wire surrounded by the ferrite material. The higher the frequency, the greater the increased resistance.

Is a ferrite core necessary? Ferrite components are very useful when used correctly, but they are not a solution to every EMI problem. Their principle use is as an EMI filter on power inputs, often on the input to a common-mode EMI filter circuit.

What is the difference between iron core and ferrite core? Iron core inductors have a maximum current at zero frequency, while ferrite core inductors have a minimum current at zero frequency. This helps iron core inductors to transfer more energy but decreases the Q factor. Ferrite cores are able to transfer less energy but have a higher Q factor at higher frequencies.

Do I need a ferrite core on a USB cable? It's there for EMC reasons, it isn't actually needed for correct USB operation.

Where do you put ferrite core? While the ferrite choke can be installed at any point on the power cable, we recommend installing them approximately 2-4 inches from the source (where the power cable connects to the speaker).

Which is better ferrite or neodymium? A rare earth or neodymium magnet is the most powerful of any permanent magnets and is around 2-7 times stronger than a regular or ferrite magnet. It can lift more than any other type of magnet of the same size.

What is the purpose of a ferrite core on a cable? The role of a ferrite core is one of EMI protection; it can offer protection to and from the device in question by acting as a low pass filter.

Do I need a ferrite core on a USB cable? It's there for EMC reasons, it isn't actually needed for correct USB operation.

What happens when a ferrite core is placed inside a coil? Inserting the ferrite core into the coil collects many magnetic field lines, and moving the ferrite core inside the coil changes the inductance to tune the radio to the frequency of broadcast radio waves.

What can ferrite be used for? "Hard" ferrites have high coercivity, so are difficult to demagnetize. They are used to make permanent magnets for applications such as refrigerator magnets, loudspeakers, and small electric motors. "Soft" ferrites have

low coercivity, so they easily change their magnetization and act as conductors of magnetic fields.

What are the advantages of ferrite? The primary reason to use ferrite plates is to get the benefit of the high magnetic susceptibility of ferrimagnetic materials. This helps to suppress unwanted noise & radiation in electric & electronic applications.

Where does ferrite go on cable?

Does USB wire need to be shielded? According to USB 2.0 standard, a USB cable must be made minimally of 5 conductors: the two power supply wires, the differential pair for communication, and a fifth conductor for shielding made of a stranded copper braid, which must surround all the others on the whole length of the cable and connects to the plug shells ...

What is a ferrite core for data cable? Ferrite cores work by preventing EM interference in two directions, protecting the cable from outside interference and ALSO preventing the cable from emitting signals. Any cable with any kind of metal inside it (most any cable) will act as an antenna.

Is a ferrite core necessary? Ferrite components are very useful when used correctly, but they are not a solution to every EMI problem. Their principle use is as an EMI filter on power inputs, often on the input to a common-mode EMI filter circuit.

Why do we use ferrite core in cables? The conversion to electrical energy is subjected to magnetic losses called hysteresis losses. Some fraction of the noise in the current flowing through the conductor or cable gets eliminated as magnetic losses. This way, the ferrite core greatly helps suppress noise or EMI in the cable.

Is a ferrite core a conductor or insulator? Ferrite core transformers are usually higher in demand than iron core transformers because they carry several benefits of ferrites. Ferrites are ceramic materials, formed using manganese and zinc compounds. They act as insulators in transformers and offer high resistance to high currents.

Where to place ferrite core? There is every chance that interference getting onto a cable (such as from a switched mode power converter) can radiate from the cable so, best to keep the ferrite up as close to the source of noise as much as possible. —

How to remove ferrite core from cable?

Is ferrite just iron? Ferrite also known as alpha iron is a materials science term for iron, or a solid solution with iron as the main constituent, with a body-centered cubic crystal structure. It is this crystalline structure which gives steel and cast iron their magnetic properties, and is the classic example of a ferromagnetic material.

What is ferrite used for? Ferrite is a magnetic material that significantly contributes to the miniaturization, thinning, improved functionality, energy- and resource-saving, etc. of electric or electronic devices, including televisions (TVs), personal computers, mobile phones, HEVs (hybrid electric vehicles), and wind power generation.

Is ferrite conductive? Ferrite magnets are non-conductive and will not corrode as they are essentially already made from rust (iron oxide) and therefore cannot corrode further. They also maintain their performance in high temperatures and can be used in temperatures up to 250 degrees Celsius before any loss in performance occurs.

What is a toroidal ferrite core? What are toroidal ferrite core? Toroidal Cores are small MnZn based soft ferrite cores. They offer the benefit of high magnetic efficiency, which is why they are highly preferred over other ferrites. They are produced with a uniform cross-section area and a coating that provides high breakdown voltage.

Download the Lotus and Storm: Lan Cao's Memoir PDF

Q: What is the Lotus and Storm about? A: The Lotus and Storm is a memoir by Vietnamese-American writer Lan Cao. It tells the story of her family's journey from war-torn Vietnam to the United States. The book explores themes of displacement, family, and resilience.

Q: Where can I download the Lotus and Storm PDF? A: You can download the Lotus and Storm PDF from various online bookstores and libraries. Here are a few links:

- Amazon: <https://www.amazon.com/Lotus-Storm-Lan-Cao/dp/0380972237>
- Barnes & Noble: <https://www.barnesandnoble.com/w/the-lotus-and-the-storm-lan-cao/1136576082>

- Google Books: <https://books.google.com/books?id=L-pDMQAACAAJ&dq=the+lotus+and+the+storm+lan+cao+pdf&hl=en>

Q: Is the Lotus and Storm a good book? A: Yes, the Lotus and Storm has received critical acclaim for its powerful storytelling and evocative prose. It won the PEN/Open Book Award in 2018 and has been praised for its insights into the immigrant experience and the impact of war.

Q: What are some quotes from the Lotus and Storm? A: Here are a few notable quotes from the book:

- "We were like lotus seeds, our roots deep in the mud, our spirit reaching for the sun."
- "The war had torn us apart, but it could not break our spirit."
- "We had come to America with nothing, but we had each other."

Q: What is Lan Cao's writing style like? A: Lan Cao's writing style is characterized by its lyricism, imagery, and attention to detail. She uses vivid language to evoke the sights, sounds, and smells of her Vietnamese childhood and her American present. Her writing is both beautiful and heartbreaking, offering a profound exploration of the human experience.

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