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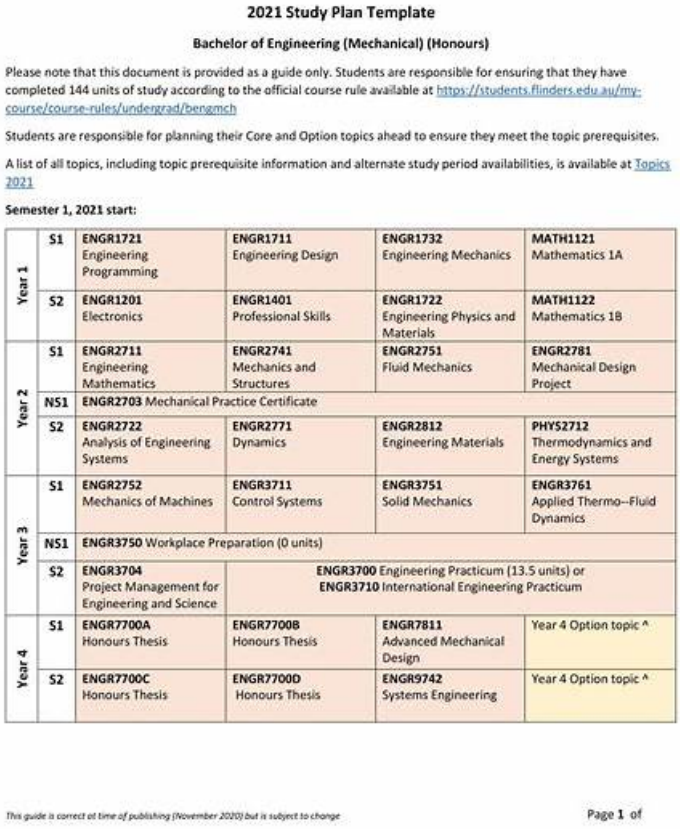

2021 Study Plan Template

Bachelor of Engineering (Mechanical) (Honours)

Please note that this document is provided as a guide only. Students are responsible for ensuring that they have completed 144 units of study according to the official course rule available at https://students.flinders.edu.au/my-course/course-rules/undergrad/bengmch

Students are responsible for planning their Core and Option topics ahead to ensure they meet the topic prerequisites.

A list of all topics, including topic prerequisite information and alternate study period availabilities, is available at Topics 2021

Semester 1, 2021 start:

Year 1	S1	**ENGR1721** Engineering Programming	**ENGR1711** Engineering Design	**ENGR1732** Engineering Mechanics	**MATH1121** Mathematics 1A
	S2	**ENGR1201** Electronics	**ENGR1401** Professional Skills	**ENGR1722** Engineering Physics and Materials	**MATH1122** Mathematics 1B
Year 2	S1	**ENGR2711** Engineering Mathematics	**ENGR2741** Mechanics and Structures	**ENGR2751** Fluid Mechanics	**ENGR2781** Mechanical Design Project
	NS1	**ENGR2703** Mechanical Practice Certificate			
	S2	**ENGR2722** Analysis of Engineering Systems	**ENGR2771** Dynamics	**ENGR2812** Engineering Materials	**PHYS2712** Thermodynamics and Energy Systems
Year 3	S1	**ENGR2752** Mechanics of Machines	**ENGR3711** Control Systems	**ENGR3751** Solid Mechanics	**ENGR3761** Applied Thermo--Fluid Dynamics
	NS1	**ENGR3750** Workplace Preparation (0 units)			
	S2	**ENGR3704** Project Management for Engineering and Science	**ENGR3700** Engineering Practicum (13.5 units) or **ENGR3710** International Engineering Practicum		
Year 4	S1	**ENGR7700A** Honours Thesis	**ENGR7700B** Honours Thesis	**ENGR7811** Advanced Mechanical Design	Year 4 Option topic ^
	S2	**ENGR7700C** Honours Thesis	**ENGR7700D** Honours Thesis	**ENGR9742** Systems Engineering	Year 4 Option topic ^

This guide is correct at time of publishing (November 2020) but is subject to change

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EXIN EPI Certified Data Centre Specialist Sample Questions (Q10-Q15):

NEW QUESTION # 10
Two servers stacked with no gap (metal-to-metal). What heat transfer occurs?

- A. No heat transfer
- B. Convection
- C. Conduction
- D. Radiation

Answer: C

Explanation:
Heat transfer occurs in three modes: conduction, convection, radiation. Conduction is transfer by direct contact of solids. Since the servers are touching metal-to-metal, heat flows directly from the warmer surface to the cooler one via conduction.
* Radiation occurs without contact, across air or vacuum.
* Convection requires a fluid medium like air, which is absent between surfaces.
* "No heat transfer" is incorrect-there will always be transfer.
Therefore, the unwanted transfer here is conduction.
References: ASHRAE Fundamentals - Heat Transfer Basics, EXIN DCS Thermal Management Section.

NEW QUESTION # 11
You are working on the design of a new facility. The electrical riser of the building with high current power is located close to the area where sensitive IT equipment in the computer room will be located.
What should you recommend to reduce the amount of EMF coming from the electrical riser?

- A. Install single-phase power cabling
- B. Install three-phase power cabling based on three individual core wires
- C. Install three-phase power cabling based on a combined cable (e.g. XLPE etc.)
- D. Install bus bar trunking

Answer: C

Explanation:
To reduce Electromagnetic Fields (EMF) emanating from the electrical riser near sensitive IT equipment, three-phase power cabling in a combined cable (such as XLPE) is effective. Combined cabling helps reduce EMF by keeping the conductors tightly packed, which minimizes magnetic fields generated by current flow.
Cables like XLPE (cross-linked polyethylene) also offer better insulation, which helps mitigate EMF interference with nearby IT equipment.
Detailed Explanation:
Using a combined three-phase cable reduces EMF because the magnetic fields generated by each phase tend to cancel each other out when in close proximity. This arrangement helps reduce the overall magnetic field strength. In addition, XLPE and similar materials provide good insulation, making them a preferred choice for reducing EMF emissions around sensitive equipment.
EPI Data Center Specialist References:
EPI data center best practices recommend mitigating EMF interference through combined cabling arrangements, especially near areas where sensitive IT equipment is located. Reducing EMF is crucial to maintaining equipment reliability and ensuring compliance with safety standards.

NEW QUESTION # 12
Which of the following statements is correct?

- A. With current increasing, single-phase cables emit more EMF than three-phase cables
- B. With voltage increasing, single-phase cables emit more EMF than three-phase cables
- C. With voltage decreasing, three-phase cables emit more EMF than single-phase cables
- D. With current decreasing, three-phase cables emit more EMF than single-phase cables

Answer: A

Explanation:
Electromagnetic field (EMF) strength around cables is primarily influenced by current, not voltage. In a single-phase system, the live and neutral conductors are separated, creating a larger magnetic loop area. This produces stronger stray EMF when current increases.
In a balanced three-phase system, the magnetic fields from the three conductors largely cancel each other out, resulting in much lower net EMF, even at higher currents.
Therefore, the correct statement is that increasing current in single-phase cables produces higher EMF compared to three-phase cables. Options B, C, and D incorrectly link EMF to voltage or incorrect current behavior.
References: IEEE Std 141 (Red Book - Power Distribution), IEC 61000-5-7 (EMF mitigation guidelines), ANSI/TIA-942-B §6.6.

NEW QUESTION # 13
What is the minimum requirement for power feeds to a Rated-4 data center (ANSI/TIA-942)?

- A. Two feeds from one substation
- B. Two feeds from two different substations, one power company not acceptable
- C. Two feeds from two different substations, one power company acceptable
- D. One feed split into two distribution boards

Answer: C

Explanation:
A Rated-4 facility requires dual active utility feeds, each from an independent substation, but they may come from the same utility provider if substations are geographically separate and independent.
* Option A is too strict; ANSI/TIA-942 does not mandate two different companies.
* Options C and D do not provide true independence and would fail Rated-4 requirements.
Thus, the minimum is two substations, possibly same provider.
References: ANSI/TIA-942-B §6.2 (Utility Service Requirements).

NEW QUESTION # 14
A data center requires an audit to find out whether it conforms with ANSI/TIA-942 Rated-3 (concurrently maintainable).
Will the network architecture be part of this audit?

- A. Yes, but only if the network administration does not comply with ANSI/TIA-606.
- B. No, as concurrently maintainable only applies to electrical and mechanical (power and cooling).
- C. Yes, amongst other aspects, the network architecture should be Rated-3 compliant with the requirements of ANSI/TIA-942.
- D. No, only the type of cabling used will be audited.

Answer: C

Explanation:
For a Rated-3 data center, network architecture is indeed a key component of the audit under ANSI/TIA-942.
This rating requires concurrent maintainability across all systems, including telecommunications infrastructure. The network architecture must therefore meet specific redundancy and reliability standards to ensure uninterrupted operations during maintenance or failure of any single component.
Detailed Explanation:
Rated-3 requirements extend beyond electrical and mechanical systems to include network architecture. This ensures that telecommunications systems are also designed for concurrent maintainability, thus contributing to overall uptime and resilience.
EPI Data Center Specialist References:
EPI endorses comprehensive assessments for Rated-3 facilities, emphasizing that network systems must meet standards for redundancy and concurrent maintainability, which align with ANSI/TIA-942's holistic approach to data center reliability.

NEW QUESTION # 15
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