

1. Develop **new** function structures (at least 3) for removing creases and wrinkles from clothes. Use different representations for material, energy and signal/information transformations. (5)
2. Use analogical design to generate **new** solutions (at least 3) for removing creases and wrinkles from clothes. Your solutions should be described using: (a) sketches and annotations and (b) 2-3 lines of text to explain how each solution works and the source of analogies. (6)
3. Generate **new** solutions (at least 5) for students to commute within the ITTD campus. The commuting means should be portable and should be anti-theft. A student in ITTD carries a backpack of size $0.60 \times 0.50 \times 0.30 \text{ m}^3$ and mass 10 kg (max), and therefore the commuting means must accommodate this baggage. Your solutions should be described using: (a) sketches and annotations and (b) 2-3 lines of text to explain how each solution works. Further, evaluate and select one solution out of the solutions generated with adequate justifications. (10+4)

DSP 721: Major Exam

Total marks: 25 || Time: 60 minutes