

MATRICK NO: 18/EN406/064

DEPARTMENT: MECHANICAL ENGINEERING

LEVEL: 200LEVEL

- i) As a consulting engineer, During the pandemic Covid-19, the use of infrastructures such as safe traffic systems, and effective security facilities, and airport screening systems. So far, Engineers have been relegated to respiratory bit part, and answering the sudden call to arms for 3D printing components for ventilator.
- ii) Safe traffic Systems: This kind of infrastructure is fix or installed for the benefit of the road users. Some of ways to curb or prevent Covid-19 is by social-distancing. The use of these traffic systems, could help or aid in the distancing of vehicles, so as to enable or rather prevent overcrowding. These traffic systems are to be maintained appropriately.
- iii) Effective Security facilities: These facilities should be implemented to prevent the spread of Covid-19. Such security facilities, will have the or be tasked with the massive job of building hospitals equipped with security personnels. It is important to have teams of experts that can support secure and safe operations for our medical professionals and their patients.
- iii) Airport Screening Systems: The aviation sector should be able to provide equipments that could be used to detect or scan the Covid-19 virus.



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2) Engineering is one of the key influences that shapes our society. Engineers don't just work with machines, designs and electronics, they make use of maths and science to provide innovation and inventions that shape our society and improve the way we work and live. This means that engineers have a responsibility and also a great opportunity to ensure we have positive influence in society.

4) Ethical concerns with respect to technology has often focused on the user phase. Some design choices influence how ethical issues are addressed in technology. Because such choices are differentially manifested in the different phases of the process, these ethical issues take on distinct forms.

Problem formulation is of special importance because it establishes the frame work and boundaries within which the design problem is solved. Some ethical issues may arise as well during the operationalization of design requirements. Engineers are to be held responsible for disclosing anything that will subject the public or environment to danger in order to perform their functions properly. Engineers must maintain and improve their competency and engage in continuous learning.