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ENGINEERING STRATEGIES FOR HANDLING COVID-19 FOR ENVIRONMENTAL HEALTH AND ECONOMIC SUSTAINABILITY

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INTRODUCTION

Coronavirus : coronavirus disease 2019 (COVID-19) is an infectious disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)

Environmental health: is the branch of public health concerned with all aspects of the natural and built environment affecting human health. Environmental health is focused on the natural and built environments for the benefit of human health

Economic stability: refers to an absence of excessive fluctuations in the macroeconomy.

CORONAVIRUS

coronavirus disease 2019 (COVID-19) is an infectious disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2).

ENGINEERING STRATEGIES

Construction of safe isolation centers: engineers should be used to construct standard and safe isolation centers to prevent the spread of the virus to the people and the environment.

Division of labor : other sectors of engineering should join the bio-medical engineering sector in the production of (PPE) Personal protective equipment (PPE) is used every day by healthcare personnel (HCP) to protect themselves, patients, and others when providing care. PPE helps protect HCP from potentially infectious patients and materials, toxic medications, and other potentially dangerous substances used in healthcare delivery.

Internet purchase: software engineers should make the internet purchase more reliable ,so to prevent contact and provide needs to people and environment

Epidemiology: engineers should help in devising a better way to get the epidemiology of the virus on infected places (Epidemiology) Epidemiology is the study and analysis of the distribution, patterns and determinants of health and disease conditions in defined populations

Information technology: big data analytics on cellphone data, facial recognition technology, mobile phone tracking and artificial intelligence

are used to track infected people whom they contacted in south korea ,tiawan and Singapore