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| **Kingdom of Saudi Arabia****Ministry of Education****Saudi Electronic University** | A picture containing text, outdoor, sign  Description automatically generated | **المملكة العربية السعودية****وزارة التعليم****الجامعة السعودية الإلكترونية** |

**Department of Business Administration**

**College of Administrative and Financial Sciences**

**Assignment 3**

**Introduction to operations Management (MGT 311)**

**Due Date: 30th November 2024 @ 23:59**

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| Course Name: **Introduction to Operations Management** | Student’s Name: |
| Course Code: MGT311 | Student’s ID Number: |
| Semester: FIRST | CRN:  |
| Academic Year: 2024-25 |

**For Instructor’s Use only**

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| Instructor’s Name: Dr Ganesh Dash  |
| Students’ Grade: Marks Obtained/Out of | Level of Marks: High/Middle/Low |

**Instructions – PLEASE READ THEM CAREFULLY**

* The Assignment must be submitted on Blackboard (**WORD format only**) via allocated folder.
* Assignments submitted through email will not be accepted.
* Students are advised to make their work clear and well presented, marks may be reduced for poor presentation. This includes filling your information on the cover page.
* Students must mention question number clearly in their answer.
* Late submission will NOT be accepted.
* Avoid plagiarism, the work should be in your own words, copying from students or other resources without proper referencing will result in ZERO marks. No exceptions.
* All answered must be typed using **Times New Roman (size 12, double-spaced)** font. No pictures containing text will be accepted and will be considered plagiarism).

Submissions without this cover page will NOT be accepted

* **Place of Submission is Blackboard.**
* **Weight 10 Marks**

**Learning Outcomes:**

* To understand the concept of transformation and invention of the Product. **(CLO 1)**
* To manage the level of Inventory. **(CLO 2)**
* To take the decision of new product Development. **(CLO 5)**

**Critical Thinking**

The Chinese company BYD is pursuing electric cars and hopes to become the world’s largest car company. With the financial support of American Warren Buffett, the company, which has only been in existence for a few years mostly making batteries, has caught the attention of not only Mr. Buffett but also many in the auto industry.

**ELECTRIC AND HYBRID CARS**

Electric cars (also known as electric vehicles or EVs) rely exclusively on battery power. With an all-electric EV there is no internal combustion engine, muffler, gasoline tank, air and fuel filters, and other parts needed to run a gasoline powered system. The vehicle itself also produces no tailpipe emissions, and by getting its power from an efficient utility company, overall, it produces fewer greenhouse gases. This is especially true if the electricity is produced with nuclear power, clean coal, or natural gas. EVs are also less expensive to fuel on a per mile basis. Electric cars, however, have a shorter driving range and are difficult to operate with long distance travel.

There is also some safety concerns associated with using a lithium-ion battery, as lithium is a highly reactive material prone to explosion

1. Do you think electric cars may become a viable alternative to gasoline-powered vehicles? What is the future of the electric car? Explain your answer especially in the context of KSA as Saudi Arabia is moving towards carbon free economy**. (3 Marks)**
2. Given a business strategy of being the word leader in manufacturing electric cars with innovative technology, what operations and supply chain strategy do you think BYD should pursue? Identify what operations and supply chain should do to help BYD compete including a mission, objectives, distinctive competence, and key decisions.

 **(4 Marks)**

 3. How electric car will be useful in Saudi Arabia’s Neom city project to achieve Kingdom’s vision? **(3 Marks)**

**Note:** Go to the company website and answer the above questions. This is just an advice. You may surf net, company report, Saudi vision 2030 to answer the questions. Each answer should lie between 250 to 400 hundred words.

**Answers:**

**1.**

**2.**

**3.**