

**DEPARTMENT OF COMMERCE  
COURSE OUTLINE/SSG**

1.	<b>NAME OF COURSE</b>	GREEN TECHNOLOGY COMPLIANCE
	<b>COURSE CODE</b>	DUG30023 ( <i>Version: 230419_3_Effective: Session_II_2023/2024</i> )
2.	<b>SYNOPSIS</b>	GREEN TECHNOLOGY COMPLIANCE course is designed to introduce students with fundamentals of green technology, green practices, and green compliances towards the ultimate target of sustainable living. Students will be exposed to different feasible technologies in achieving goals that show developments in rapidly growing fields such as sustainability, innovation, viability and natural sources reduction. Students will also learn other areas where green technology is implemented such as energy, transport, building, water and waste management.
3.	<b>CREDIT VALUE</b>	3
4.	<b>PREREQUISITE/ CO-REQUISITE (IF ANY)</b>	None
5.	<b>COURSE LEARNING OUTCOMES (CLO):</b> Upon completion of this course, students should be able to:	
	<b>CLO 1</b>	Explain green fundamentals and practices of green technology (C3, CLS 2, PLO2)
	<b>CLO 2</b>	Display green technology and practices concept in related areas within the industry in Malaysia (P4, CLS 3a, PLO3)
	<b>CLO 3</b>	Demonstrate green economy and green culture challenges to implement green programmes ( A3 , CLS 3b, PLO4)
	<b>PROGRAMME LEARNING OUTCOMES (PLO) - DPM:</b> <b>PLO 2 :</b> Analyze issues and solutions in conducting business operations <b>PLO 3 :</b> Demonstrate business technical skills in business activities <b>PLO 4 :</b> Demonstrate effective communication and interpersonal skills in a team	

**ASSESSMENT METHOD:**

The course assessment consists of:

- i. Continuous Assessment (CA) – 100%
- ii. Examination (FE) – **None**

6.

Assessment	Quantity	Percentage (%)
Test	1	30%
Discussion	1	10%
Presentation	1	15%
Case Study	1	45%


**TEACHING SCHEDULE:**

7.

Topic No.	Topic / Content	Recommended Contact Hours	Assessment Method	Week
1.0	<b>INTRODUCTION TO GREEN FUNDAMENTALS</b> 1.1 Explain green fundamentals 1.2 Discover needs of green applications	6 hours Lecture 4 hours Tutorial		W1 - W3
2.0	<b>INTRODUCTION TO GREEN TECHNOLOGY AND PRACTICES</b> 2.1 Explain introduction to green technology and practices 2.2 Identify green technology and practices; not limited to definition, characteristics or elements 2.3 Display green technology and practices in related areas	18 hours Lecture 16 hours Tutorial		W3 - W11
3.0	<b>IMPLEMENTATION OF GREEN ECONOMY</b> 3.1 Identify green economy 3.2 Discuss the implementation of green economy	2 hours Lecture 4 hours Tutorial	<b>Test</b> (T1 – T3 : W12)  <b>Case Study</b> (T1, T2, T4 : W13)	W12 - W13
4.0	<b>GREEN CULTURE PROGRAMMES</b> 4.1 Discuss green culture 4.2 Explain green culture programmes and challenges	2 hours Lecture 4 hours Tutorial	<b>Presentation</b> (T3 & T4 : W14)  <b>Discussion</b> (T4 : W13)	W13 - W14

8.	<p><b>REFERENCES</b></p>	<p><b>Main:</b></p> <ol style="list-style-type: none"> <li>1. Matthew N. O. Sadiku (2020), Emerging Green Technology, CRC Press</li> </ol> <p><b>Additional:</b></p> <ol style="list-style-type: none"> <li>1. Om Prakash, Alok Ranjan Tripathy, Zdzislaw Polkowski (2021), Green Engineering and Technology: Innovations, Design, and Architectural, CRS Press</li> <li>2. Narendra Kumar, Hukum Singh, Amit Kumar (2021), Renewable Energy and Green Technology: Principles and Practices, CRG Press</li> <li>3. Mehmet Kanoglu, Yunus A. Cengel, Dr. (2020), Energy Efficiency and Management for Engineers, McGraw-Hill Education</li> <li>4. Frabcis D. K. Ching, Ian M. Shapiro (2020), Green Building Illustrated, John Wiley</li> <li>5. Noorhana Yahya (2018), Agricultural 4.0: Its Implementation Toward Future Sustainability, Springrt, Singapore</li> <li>6. Walter R Stahel (2020), The Circular Economy: A User's Giode, Tailor &amp; Francis Ltd</li> </ol>
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Prepared by:



(Tandatangan dan Nama Penyelaras Kursus)

Date : 29.01.2024

**ZAINATUN NISA SAPAAT**  
Pensyarah DH48  
Jabatan Perdagangan  
Politeknik Muadzam Shah  
Pahang

Verified by :



( Tandatangan dan Nama TPA/KJ/KPro/KK )

Date : 29.01.2024

**ANI LIZA BINTI ABD RAHMAN**  
KETUA PROGRAM  
DIPLOMA PENGAJIAN PERNIAGAAN  
POLITEKNIK MUADZAM SHAH  
PAHANG DARUL MAKMUR.