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**MULTIMEDIA UNIVERSITY OF KENYA**

**FACULTY OF BUSINESS & ECONOMICS**

**MASTER OF SUPPLY CHAIN MANAGEMENT**

**BPL3114: SUSTAINABLE SUPPLY CHAIN MANAGEMENT**

**Course Instructor: Dr. Arani Wycliffe**

**Prerequisite: None**

**Purpose**

The purpose of this course is to equip learners with knowledge of sustainable supply chain management

**Expected Learning Outcomes**

By the end of this course, students should be able to:

1. Discuss the concept of sustainable supply chain management
2. Evaluate the cost and benefit of sustainable Supply chain Practices
3. Assess the contribution of Procurement function to Sustainable Supply chain
4. Analyze the financial and non-financial factors of green procurement.

**Course Description**

The Concept of Sustainable Supply Chain Management; Objectives of Sustainable Supply Chain Management; Pillars of Sustainable Supply Chain Management: Economic sustainability, Social sustainability and Environmental Sustainability; key concerns in Sustainable Supply Chain Management: Sustainable Production and Consumption in modern supply Chains, features of sustainable Products/services, contribution of Procurement function in Sustainability; Drivers of Sustainable supply Chains; developing sustainable procurement programme:benefits of Sustainable Procurement Practices to supply Chains; Technology and Sustainable Supply Chain Management; Renewable and non-Renewable Resources: Clean energy; Politics and Sustainable Supply Chain Management; Sustainability issues in Private and Public Sector; Sustainability and Balanced Scorecard; Tradeoffs in sustainability; green Procurement practices in Supply Chain.

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| Topic | Approximate Start Dates |
| **The Concept of Sustainable Supply Chain Management**   * Definition of Sustainable supply chain management * Objectives of sustainable supply chain management policy * Implications of SSCM process and tasks | Week 1 |
| **Pillars of sustainable supply chain management**   * Economic sustainability 51 * Social sustainability * Environmental sustainability 59 | Week 2 |
| **Key concerns in sustainable supply chain management**   * Key concerns sustainability 10 * Sustainable production and consumption in modern supply chains 12 * Features of sustainable product /services 11 * Non-renewable and renewable resources 39 * Rising energy costs 40 * Alternative fuel and energy sources 41 * Contribution of procurement function in sustainability 16 * Key performance indicators to sustainability 261 | Week 3 |
| **Drivers of sustainable supply chains 89**   * Stakeholders pressure * Institutional pressure * Proactive measures * Resources * Supply chain configuration * Capabilities | Week 4 |
| **A frame work policy for development**   * A frame work policy development guideline 143 * Prioritising sustainable issues 147 * Managing and review of sustainable policy 154 | Week 5 |
| CAT 1 | Week 6 |
| **Technology and sustainable supply chain management**   * Stages in technology development 31 * Support for investment in sustainability 32 * Supporting sustainable innovation 33 | Week 7 |
| External environment of SSCM  * Political * Economic * Socio-cultural * Tecnological * Legal | Week 8 |
| **Internal influencers of supply chain management 85**   * *Performance improvement* * *Corporate reputation and brand strength* * *Organisational mission, strategy and values* * C*orporate social responsibility policy* * *People development policies* * *Risk management orientation and processes* * *Attitudes and values of internal stakeholders* * *Resources* to support sustainable procurement initiatives * *Capacity and capability* * *Products and services* | Week 9 |
| **CAT 2** | Week 10 |
| **Sustainability issues in Private and Public Sector 97 -106**   * Regulating the private sector * Central government * Difference between public and private sector sustainable procurement * Sustainability drivers in the third sector organisations | Week 11 & 12 |
| **Sustainability and balanced score card 120**  Four perspective of balanced score card  Benefits of sustainability programmes  Trade-offs in sustainability | Week 13 |
| **Examinations** | Week 14 |
| **Examinations** | Week 15 |

**Teaching Methodologies**

Lectures, class discussions, group activities, case studies, individual and group presentations

**Instruction Materials/Equipment**

LCD Projector, White board, Textbooks, flip charts

**Course Assessment**

Continuous Assessments Tests (CATs) 40%

Final Examination 60%

**Total** **100%**

**Course Textbooks**

1. Cetinkaya, B., Cuthbertson, R., Ewer, G., Klaas-Wissing, T., Piotrowicz, W. & Tysssen, C. (2015). *Sustainable Supply Chain Management: Practical Ideas for Moving Towards Best Practice.* London: Springer.
2. Palevich, R. (2012). *The Lean Sustainable Supply Chain: How to Create a Green Infrastructure with Lean Technologies.* New Jersey: Pearson Education, Inc.
3. Johnsen, T., Howard, M. & Miemczyk, J. (2014). *Purchasing and Supply Management: A Sustainability Perspective.* New York: Routledge.

**Course Journals**

1. Journal of Supply Chain Management
2. International Journal of Supply Chain Management (IJSCM)
3. Journal of Purchasing & Supply Management

**Course Reference Textbooks**

1. Sroufe, R. & Melnyk, S. (2013). *Developing Sustainable Supply Chains to Drive Value: Management Issues, Insights, Concepts, and Tools.* New York: Business Expert Press.
2. Morana, J. (2013). *Sustainable Supply Chain Management.* New Jersey: ISTE Ltd and John Wiley & Sons Inc.
3. Golinska, P. (2014). *Logistics Operations, Supply Chain Management and Sustainability*. Switzerland: Springer International Publishing.

**Reference Journals**

1. International Journal of Physical Distribution & Logistics Management
2. American Journal of Industrial and Business Management.
3. Journal of Environmental Sustainability