



UNIVERSITI TEKNOLOGI MARA

BDY541: RECREATION ECOLOGY

| | |
|---|--|
| Course Name (English) | RECREATION ECOLOGY APPROVED |
| Course Code | BDY541 |
| MQF Credit | 3 |
| Course Description | This course discovers about recreation ecology that deals with environmental impacts of recreation on natural ecosystems including impacts on vegetation, soil, wildlife, and water. Providing in-depth understanding of the recreational ecology principles and its implications, students should be able to examine, assess and monitor visitor impacts, typically to natural areas, and their relationships to influential factors such as visitor- related, environmental, and managerial. Hence, the course offers on site knowledge of impact assessment techniques and approaches in identifying potential recreational impacts on resources during the field trips. Finally, the students also need to come out with the identification of appropriate and effective management strategies and actions in a way to minimize the impacts. |
| Transferable Skills | Practical skills Communication skills |
| Teaching Methodologies | Lectures, Discussion |
| CLO | CLO1 Define the range of resource impacts (vegetation, soil, wildlife, and water) occurring as a result of recreational use in natural areas. CLO2 Developed the interrelationship between recreational behavior and the natural environment. CLO3 Apply visitor management frameworks, strategies, and actions for minimizing recreational impacts. |
| Pre-Requisite Courses | No course recommendations |
| Topics | |
| 1. 1.0 Introduction to recreation ecology. 1.1) N/A | |
| 2. 2.0 Mechanical forces exerted by various recreation activities and the concept of protection. 2.1) N/A | |
| 3. 3.0 Major changes in vegetation as a result of wear. 3.1) N/A | |
| 4. 4.0 Changes in communities and plant species as result of wear. 4.1) N/A | |
| 5. 5.0 Plant population and mechanical wear. 5.1) N/A | |
| 6. 6.0 Mechanical wear plant form and function. 6.1) N/A | |
| 7. 7.0 The physiological reaction and plant damage. 7.1) N/A | |
| 8. 8.0 Introduction to soil. 8.1) N/A | |
| 9. 9.0 Soil Physical and chemical properties. 9.1) N/A | |
| 10. 10.0 Plant roots, soil and growth. 10.1) N/A | |

| |
|--|
| 11. 11.0 A classification of disturbance to large and small mammals. 11.1) N/A |
| 12. 12.0 A classification of disturbance to reptiles and amphibian. 12.1) N/A |
| 13. 13.0 A classification of disturbance to fish. 13.1) N/A |
| 14. 14.0 A classification of disturbance to birds. 14.1) N/A |

| Assessment Breakdown | % |
|-----------------------|--------|
| Continuous Assessment | 60.00% |
| Final Assessment | 40.00% |

| Details of Continuous Assessment | Assessment Type | Assessment Description | % of Total Mark | CLO |
|----------------------------------|-----------------|------------------------|-----------------|------|
| | Assignment | Group assignment | 20% | CLO2 |
| | Assignment | Individual assignment | 20% | CLO3 |
| | Group Project | Class project | 20% | CLO2 |

| | |
|---------------------|--|
| Reading List | This Course does not have any book resources |
|---------------------|--|

| | |
|---------------------------|---|
| Article/Paper List | This Course does not have any article/paper resources |
|---------------------------|---|

| | |
|-------------------------|---|
| Other References | <ul style="list-style-type: none"> • Book Liddle, M. J. 1997, <i>Recreation ecology: the ecological impact of outdoor recreation and ecotourism</i> , Springer • Book Hammitt, W. E. and Cole, D. N. 1998, <i>Wildland recreation: ecology and management</i> , John Wiley and Sons • Book Peter, J. M. 1999, <i>Community ecology</i>, Blackwell Science, Inc. • Book McCool, S.F. and Moisey, R.N. 2008, <i>Tourism, Recreation, and Sustainability: Linking Culture and the Environment</i> , CABI, UK • Book Christopher, A.M. David, N.C. Yu, F.L. and Jeffrey, L.M. 2009, <i>Sustaining Visitor Use in Protected Areas: Future Opportunities in Recreation Ecology Research Based on the USA Experience</i> , Environmental Management. |
|-------------------------|---|