



UNIVERSITI TEKNOLOGI MARA

BDY641: LAND NAVIGATION

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| Course Name (English) | LAND NAVIGATION APPROVED |
| Course Code | BDY641 |
| MQF Credit | 3 |
| Course Description | Working deep inside the natural areas such as wildlife reserve or protected areas requires trained personnel. Carrier in biodiversity management will force personnel to be prepared. Therefore land navigation skills and knowledge is a must among biodiversity managers. This course will prepare the students with knowledge of land navigation that helps most in biodiversity management working condition. Knowing starting point, where to go and which route to choose is essential. By the end of the semester, students are able to deal with how to apply knowledge of land navigation and demonstrate the skills on the ground. |
| Transferable Skills | Skills and how they are developed and assessed, Project and practical experience and Internship On completion of the course, the student will be able to: 1. Apply the knowledge of land navigation for safety planning when conducting research or biodiversity management. 2. Able to evaluate and make a perfect timing when doing the research or biodiversity management. 3. Communicate effectively with others to solve some given situations and problems. |
| Teaching Methodologies | Lectures, Practical Classes, Discussion |
| CLO | CLO1 Explain the importance of safely planned land navigation CLO2 Demonstrate safely planned land navigation thoroughly CLO3 Relate and use the land navigation skill for the purpose of biodiversity management and research |
| Pre-Requisite Courses | No course recommendations |
| Topics | |
| 1. Basic Land Navigation 1.1) N/A | |
| 2. The Topographic Map 2.1) N/A | |
| 3. The Land and Map Association 3.1) N/A | |
| 4. Intermediate Land Navigation 4.1) N/A | |
| 5. Tracking Present Location 5.1) N/A | |
| 6. Determining Travel Distance 6.1) N/A | |
| 7. Advance Land Navigation 7.1) N/A | |
| 8. Navigation Methods to Stay On Course 8.1) N/A | |

9. Additional Skills of Land Navigation

- 9.1) Binoculars with compass and rangefinder
- 9.2) Estimating distance with compass

10. Navigation in different types of Terrain

- 10.1) Urban Areas
- 10.2) Mountain
- 10.3) Forest
- 10.4) Desert

| Assessment Breakdown | % |
|-----------------------|--------|
| Continuous Assessment | 70.00% |
| Final Assessment | 30.00% |

| Details of Continuous Assessment | Assessment Type | Assessment Description | % of Total Mark | CLO |
|----------------------------------|-----------------|---|-----------------|------|
| | Attendance | 1: Ethic students on task given | 5% | CLO2 |
| | Lab Exercise | Lab report | 30% | CLO2 |
| | Presentation | Class Engagement 1: Any topic 1- 5 Class Engagement 2: Any topic 6-10 | 5% | CLO3 |
| | Test | Test 1: Topic 1 - topic 6 | 15% | CLO1 |
| | Test | Test 2: Topic 7 - topic 11 | 15% | CLO1 |

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| Reading List | Reference Book Resources | <ul style="list-style-type: none"> • Kals, W. S. 2005, <i>Land Navigation Handbook: The Siera Club Guide to Map, Compass and GPS (Sierra Club Outdoor Adventure Guide)</i> • Seidman, D. and Cleveland, P. 2000, <i>The essential wilderness navigator: how to find your way in the great outdoors</i>, Second Edition Ed. • Crouch, G. 1999, <i>Route finding: navigating with map and compass</i> • Hotchkiss, N.J 1995, <i>A comprehensive guide to land navigation with GPS</i> |
| Article/Paper List | This Course does not have any article/paper resources | |
| Other References | This Course does not have any other resources | |