



UNIVERSITI TEKNOLOGI MARA

IDE662: TRANSPORT INNOVATION DESIGN II

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| Course Name (English) | TRANSPORT INNOVATION DESIGN II APPROVED |
| Course Code | IDE662 |
| MQF Credit | 5 |
| Course Description | This course, being the final part of the two-semester long project, allows student to practice decision making on the production and commercialization of their transport design. This course will include, among others, areas such as manufacturing and its cost estimation, component assembly, cost reduction, supporting production and impact of DFM on student's overall design. Aside from on-going progress review of student's design development, the course will feature weekly lectures on production and commercialization issues to expose students to both the basics and current advances in the field. At the end of the course, student will exhibit their final design project and prototype of their Innovative Transport design selected area topic such as transport segment, architecture and accessories, automotive marquee, mobile vehicle, eco/green vehicle, boat and yachts design, related automotive industries, aircrafts and commercial transport. |
| Transferable Skills | Demonstrate ability to apply creative, imaginative and innovative thinking and ideas to problem solving. Demonstrate ability to identify and articulate self skills, knowledge and understanding confidently and in a variety of contexts. |
| Teaching Methodologies | Lectures, Studio, Demonstrations, Case Study, Practical Classes, Presentation, Workshop, Supervision |
| CLO | <p>CLO1 To support a student's final year project(s) by strengthening the research project initiated the previous year with knowledge on feasibility.</p> <p>CLO2 To provide students with professional set of attitude and approach towards engaging new innovative design issue to create a better understanding on how to produce innovative transport design solution.</p> <p>CLO3 To provide students with comprehensive theoretical knowledge and practical application to encourage new design innovations.</p> |
| Pre-Requisite Courses | No course recommendations |
| Topics | |
| 1. INTRODUCTION & BRIEF ON RESEARCH 1.1) n/a | |
| 2. Brainstorming Method & Mind Mapping Process. 2.1) n/a | |
| 3. Research Process I 3.1) n/a | |
| 4. Research Process II 4.1) n/a | |
| 5. Sketches and Ideation 5.1) n/a | |
| 6. Sketches and Idea Development 6.1) n/a | |
| 7. Idea Development and Design Evaluation I 7.1) n/a | |
| 8. Idea Development and Design Evaluation II 8.1) n/a | |

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| 9. Presentation on Idea Development 9.1) n/a |
| 10. Sketches and Final Design Development 10.1) n/a |
| 11. Pre-Assessment Presentation (All progress) 11.1) n/a |
| 12. Assessment Preparation and Workshop Supervision 12.1) n/a |
| 13. Assessment Preparation and Workshop Supervision II 13.1) n/a |
| 14. Assessment 14.1) n/a |

| Assessment Breakdown | % |
|-----------------------|---------|
| Continuous Assessment | 100.00% |

| Details of Continuous Assessment | Assessment Type | Assessment Description | % of Total Mark | CLO |
|----------------------------------|-----------------|---|-----------------|------|
| | Assignment | Critics Session-1: Final Design evaluation and approval | 10% | CLO1 |
| | Assignment | Critics Session-2: Material & manufacturing proposal | 10% | CLO2 |
| | Assignment | Critics Session-3: Package drawing & Technical details | 10% | CLO3 |
| | Assignment | Critics Session-4: Pre-Assessment / Preview | 10% | CLO3 |
| | Assignment | Final Assessment – Project Presentation | 60% | CLO3 |

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| Reading List | Reference Book Resources | <ul style="list-style-type: none"> • Karjalainen, T. M 2004, <i>Semantic Transformation in Design: Communicat</i>, University of Art and Design Helsinki. • Tovey, M. 1992, <i>Intuitive and objective process in automotive</i> • Tovey, M., Porter, S., & Newman, R. 2003, <i>Sketching, concept development and automotive</i> • Abidin, S.Z., Sigurj³nsson, J., Liem, A., & 2008, <i>On the role of formgiving in design. Proceedi</i> |
| Article/Paper List | This Course does not have any article/paper resources | |
| Other References | This Course does not have any other resources | |