

100-1 Preliminary Syllabus, Da-Yeh Univ

| Information | | | |
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| Title | 先進車輛動力系統 | Serial No. / ID | 3039 / MAV3050 |
| Dept. | 機械與自動化工程學系 | School System / Class | 四技部3年1班 |
| Lecturer | 陳聖中 | Full or Part-time | 兼任 |
| Required / Credit | Optinal / 3 | Graduate Class | No |
| Time / Place | (一)BCD / B201 | Language | Chinese |

| Introduction |
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| Introduction of advanced vehicle powertrain system including the internal combustion engines and electric, hybrid power plants. The corresponding matching for vehicle road load requirement and their control system will also be instructed. |

| Outline |
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| <ol style="list-style-type: none"> 1.Introduction and classification 2.Thermodynamic power cycle analysis 3.Vehicle powerplant requirement 4.Gasoline engine control system 5.Diesel engine combustion 6.Electric motor for vehicle powerplant 7.AC-DC converter 8.Hybrid Electric Vehicle 9.Fuel Cell 10.Energy Conversion Efficient 11.Advanced vehicle powerplant 12.Powerplant control and evaluation Classification of PowerplantsClassification of Powerplants |

| Prerequisite |
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| Thermodynamics Automatic control Internal combustion engines Vehicle electronic control system |