



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

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|--|---|---|---------------------|--|---|----------------------------------|---|------------|---|
| Course Title | | Innroduction to Automotive Information | | | | | | | |
| Course Code | | OTT182 | | Couse Level | | Short Cycle (Associate's Degree) | | | |
| ECTS Credit | 2 | Workload | 50 (<i>Hours</i>) | Theory | 2 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | | In this lesson the student is aimed to have basic knowledge about the automotive sector by transferring the theoretical knowledge of the student, the working principle of all the evenings on the motor vehicle, the preliminary order of the car, the tire, the power transmission system and other auxiliary equipment in general. | | | | | | | |
| Course Content | | Engine Terminals, Two and Four Timed Motor Cycles, Otto Cycles, Diesel Cycles, Measuring and Control in Engines, Valves, Cover and Roller Cover, Valve Mechanisms, Piston Actuator Mechanics, Segments, Crankshaft and Camshafts, Engine Blocks, Lubrication System, Cooling System, Fuel System, Motion Control Systems, Power Transmission Organs, Automobile Manufacturing Technology, Vehicle Purchase Considerations | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Discussion | | | | | |
| Name of Lecturer(s) | | | | | | | | | |

Assessment Methods and Criteria

| Method | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1 | 40 |
| Final Examination | 1 | 70 |

Recommended or Required Reading

| | |
|---|--------------------------|
| 1 | Megep Motor Technology 1 |
| 2 | Megep Motor Technology 2 |
| 3 | Megep Motor Technology 3 |
| 4 | Megep Motor Technology 4 |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|---|
| 1 | Theoretical | Engine terms |
| 2 | Theoretical | Two and Four Stroke Motor Cycles, Otto Cycle, Diesel Cycle of |
| 3 | Theoretical | Valves, Senter and Cylinder Head, valve mechanisms, piston connecting rod mechanism, Piston Rings, crankshaft and camshafts |
| 4 | Theoretical | Time Setting Mechanism, Variable Valve Timing |
| 5 | Theoretical | Lubricating System, Cooling System |
| 6 | Theoretical | Fuel System |
| 7 | Theoretical | Motion Control Systems |
| 8 | Theoretical | Motion Control Systems |
| 9 | Intermediate Exam | Midterm |
| 10 | Theoretical | Tire Selection and Care |
| 11 | Theoretical | Automobile Manufacturing Technology |
| 12 | Theoretical | Automobile Manufacturing Technology |
| 13 | Theoretical | New Developments in Automotive |
| 14 | Theoretical | Car Buying tips What to pay attention |
| 15 | Theoretical | Car Buying tips What to pay attention |
| 16 | Final Exam | Final Exam |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 0 | 2 | 28 |
| Assignment | 10 | 0 | 1 | 10 |
| Midterm Examination | 1 | 5 | 1 | 6 |



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|--|---|---|---|----|
| Final Examination | 1 | 5 | 1 | 6 |
| Total Workload (Hours) | | | | 50 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 2 |
| *25 hour workload is accepted as 1 ECTS | | | | |

Learning Outcomes

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|---|---|
| 1 | They will learn motor cycles, diesel and otto cycles theoretically. |
| 2 | They will know the parts of a motor and what it does. |
| 3 | The motorda will theoretically acquire the characteristics of auxiliary equipment and motion control systems. |
| 4 | They will know what to watch out for when buying a car. |
| 5 | Students will have knowledge about automobile manufacturing technologies. |

