



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

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|--|---|---|---------------------|---|---|----------------------------------|---|------------|---|
| Course Title | | System Analysis and Design I | | | | | | | |
| Course Code | | ELE291 | | Coure 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 course, it is aimed to have the students gain the abilities and knowledge about design, application and presenting of an application project. | | | | | | | |
| Course Content | | Product analysis and presentation for a project product by utilizing scientific methods and techniques | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Experiment, Demonstration, Project Based Study, Individual Study, Problem Solving | | | | | |
| Name of Lecturer(s) | | Ins. Serkan ARTAN | | | | | | | |

Assessment Methods and Criteria

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

Recommended or Required Reading

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| 1 | Scientific articles and publications |
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| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|--|
| 1 | Theoretical | Selecting the subject to work on |
| 2 | Theoretical | Presenting the data gained |
| 3 | Theoretical | Describing functions and variables of system/product |
| 4 | Theoretical | Selecting necessary materials |
| 5 | Theoretical | Presenting the data gained |
| 6 | Theoretical | Preparing technical specifications or the flow chart of system/product |
| 7 | Theoretical | Making the program or calculations of system/product |
| 8 | Theoretical | Making the program or calculations of system/product |
| 9 | Theoretical | Building the medium that system/product will operate |
| 10 | Theoretical | Installing system/product |
| 11 | Theoretical | Installing system/product |
| 12 | Theoretical | Testing system/product |
| 13 | Theoretical | Presenting the outputs of system/product as a report |
| 14 | Theoretical | Presenting the outputs of system/product as a report |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 0 | 1 | 14 |
| Lecture - Practice | 14 | 0 | 1 | 14 |
| Midterm Examination | 1 | 10 | 1 | 11 |
| Final Examination | 1 | 10 | 1 | 11 |
| 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 | Determining the aim and scope of a system/product |
| 2 | Detailed research about the subject of system/product |
| 3 | Making calculations/writing a software about system/product |
| 4 | To be able to do original work on the subject of the system. |



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| 5 | To be able to present the original design. |
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Programme Outcomes (Electrics)

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| 1 | ABILITY TO MAKE APPLICATIONS OF MEASUREMENT AND CALCULATION |
| 2 | ABILITY TO MAKE CONNECTIONS OF A DC CIRCUIT |
| 3 | ABILITY TO MAKE BASIC ELECTRONIC CIRCUIT AND APPLICATIONS |
| 4 | ABILITY TO MAKE ELECTRIC INSTALLMENT APPLICATIONS |
| 5 | ADAPTING VOCATIONAL ETHICAL VALUES |
| 6 | ABILITY TO MAKE COMMUNICATION |
| 7 | ABILITY TO MAKE CONNECTIONS OF AC CIRCUIT |
| 8 | ABILITY TO MAKE NUMERICAL CIRCUITS |
| 9 | ABILITY TO MAKE INSTALLATIONS OF TRANSFORMER AND DC ELECTRIC MACHINES |
| 10 | ABILITY TO MAKE COMPUTER AIDED DESIGN |
| 11 | ABILITY TO APPLY VOCATIONAL TECHNICAL METHODS |
| 12 | ABILITY TO MAKE INSTALLATIONS OF AC ELECTRIC MACHINES |
| 13 | ABILITY TO MAKE SPECIAL ELECTRIC INSTALLMENTS |
| 14 | ABILITY TO MAKE INSTALLMENTS OF COMMAND SYSTEMS |
| 15 | ABILITY TO DRAW COMPUTER AIDED ELECTRIC SCHEME |
| 16 | ABILITY TO MAKE POWER ELECTRONICS CIRCUITS |
| 17 | ABILITY TO MAKE SYSTEM ANALYSIS AND PRODUCT DESIGN |
| 18 | ABILITY TO IMPROVE ONESELF UTILIZING INFORMATION OPPORTUNITIES |
| 19 | ABILITY TO DRAW COMPUTER AIDED ELECTRIC INSTALLMENT PROJECT |
| 20 | ABILITY TO MAKE ANALYSIS AND MAINTENANCE OF ELECTRICAL ENERGY PRODUCTION SYSTEMS |
| 21 | ABILITY TO MAKE THE WINDING OF ACCURATE AND ALTERNATIVE CURRENT ENGINES |
| 22 | ABILITY TO RECOGNIZE SYSTEMS USED IN ELECTRICAL ENERGY TRANSMISSION AND DISTRIBUTION AND TROUBLESHOOTING |
| 23 | Ability to use the methods and techniques of career planning and discussing the effects of character traits on career preferences. |
| 24 | Ability to plan a career in their own profession. |
| 25 | To provide them with knowledge about substance use and addiction problem and prevention methods. |

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

| | L1 | L2 | L3 | L4 | L5 |
|-----|----|----|----|----|----|
| P17 | 5 | 5 | 5 | 5 | 5 |

