# AYDIN ADNAN MENDERES UNIVERSITY
## COURSE INFORMATION FORM

| Course Title | Econometrics I | | | | | | |
|---|---|---|---|---|---|---|---|
| Course Code | ÇEİ521 | | Couse Level | Second Cycle (Master's Degree) | | | |
| ECTS Credit | 5 | Workload | 122 *(Hours)* | Theory | 3 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | Teach the students basic information about the econometrics | | | | | | |
| Course Content | Notion of econometrics Models, Introduction to Estimation Theory, Properties of the estimator, Estimation Methods (Least Squares Method of Momentr, Maximum Likelihood Method, Best Linear Unbiased Estimator), Simple Linear Regression, Basic Assumptins, Estimation of Parameters, t Test, T Test, Corrrelation Coefficient, Cofficient of Determation and Interval Estimation are studies in tis course. | | | | | | |
| Work Placement | N/A | | | | | | |
| Planned Learning Activities and Teaching Methods | | | Explanation (Presentation) | | | | |
| Name of Lecturer(s) | | | | | | | |

## Prerequisites & Co-requisites

| Equivalent Course | EKO517 |
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## Assessment Methods and Criteria

| Method | Quantity | Percentage (%) |
|---|---|---|
| Midterm Examination | 1 | 40 |
| Final Examination | 1 | 60 |

## Recommended or Required Reading

| 1 | Ekonometri, İsmet Göçer, Lider Yayınları, 2015 |
|---|---|

| Week | Weekly Detailed Course Contents | |
|---|---|---|
| 1 | Theoretical | Topics in Econometrics |
| 2 | Theoretical | History of Econometrics |
| 3 | Theoretical | Some Basic Rules of Mathematics and Statistics |
| 4 | Theoretical | Mathematical form of economic theory |
| 5 | Theoretical | Classical Linear Regression Model |
| 6 | Theoretical | Multi-Classical Linear Regression Model |
| 7 | Theoretical | Deviations from Classical Linear Regression Model |
| 8 | Intermediate Exam | Midterm examination |
| 9 | Theoretical | Some other topics related to Linear Regression |
| 10 | Theoretical | Repetition of Multivariate Linear Regression Model and Linear Hypothesis Testing |
| 11 | Theoretical | Deviations from Multivariate linear regression model |
| 12 | Theoretical | Structural Change and Dummy Variables |
| 13 | Theoretical | Repetition of some other topics related to the linear regression model |
| 14 | Theoretical | Multiple Equation Econometric Models, Introduction to modern time series analysis |
| 15 | Final Exam | Final examination |

## Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---|---|---|---|---|
| Lecture - Theory | 14 | 2 | 3 | 70 |
| Midterm Examination | 1 | 20 | 1 | 21 |
| Final Examination | 1 | 30 | 1 | 31 |
| | | | Total Workload (Hours) | 122 |
| | | | [Total Workload (Hours) / 25*] = **ECTS** | 5 |

*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

| | |
|---|---|
| 1 | To apply theoretical and practical knowledge in business life. |
| 2 | To interpret and analyze economical concepts and thoughts by using scientific methods. |
| 3 | To take personal responsibility to solve unpredictable problems which are unpredictable and complex in practise. |
| 4 | To examine economical knowledge by critical approach and determine learning requirements. |
| 5 | To enlighten individuals and institutions and to gern ability to present these relevant units. |

**Programme Outcomes** *(Labor Economics and Industrial Relations Master)*

| | |
|---|---|
| 1 | Having theoritical information and ability to analyse working life with economic, social, psychological and legal dimensions and interpreting empirical results in the light of theoretical knowledge. |
| 2 | Using specialized theoretical and practical information in his/her professional life. |
| 3 | Identifying basic problems on labour relations, developing modelling and solving skills.Creating projects concerning these problems, participating in or conducting these projects. |
| 4 | Addressing the problems encountered in the field of labour relations using the methods of scientific research. |
| 5 | Acquiring scientific perspective by gaining research skills;thinking analytically, creating solutions based on facts, evidences and research results. |
| 6 | By interpreting current developments in the light of qualitative and quantitative data, presenting the results in written, verbal and visual ways systematically. |
| 7 | creating projects regarding to the problems, being a coordinator and taking the responsibility as a participant |
| 8 | Having the ability of developing the application plans, strategy and politics about labor markets and social policy and monitoring and evaluating the obtained results. |
| 9 | Having information about the conflicts of business and social security law and solutions. |
| 10 | Planning and applying the micro and macro level of human resource planning |
| 11 | Being capable of working in a team, expressing himself verbally and in writing correctly. |
| 12 | Being capable of professional ethics and sense of responsibility |

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

| | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|
| P1 | 4 | 4 | 4 | 4 | 4 |
| P2 | 4 | 4 | 4 | 4 | 4 |
| P3 | 4 | 4 | 4 | 4 | 4 |
| P4 | 4 | 4 | 4 | 4 | 4 |
| P5 | 4 | 4 | 4 | 4 | 4 |
| P6 | 4 | 4 | 4 | 4 | 4 |
| P7 | 4 | 4 | 4 | 4 | 4 |
| P8 | 4 | 4 | 4 | 4 | 4 |
| P9 | 4 | 4 | 4 | 4 | 4 |
| P10 | 4 | 4 | 4 | 4 | 4 |
| P11 | 4 | 4 | 4 | 4 | 4 |
| P12 | 4 | 4 | 4 | 4 | 4 |