

## İçerik

| Ders Kodu | Dersin Adı           | Yarıyıl | Teori | Uygulama | Lab | Kredisi | AKTS |
|-----------|----------------------|---------|-------|----------|-----|---------|------|
| ECON304   | Dinamik Makroiktisat | 6       | 3     | 0        | 0   | 3       | 5    |

|                       |         |
|-----------------------|---------|
| Ön Koşul              | ECON303 |
| Derse Kabul Koşulları | ECON303 |

|               |        |
|---------------|--------|
| Dersin Dili   |        |
| Türü          |        |
| Dersin Düzeyi | Lisans |
| Dersin Amacı  |        |
| İçerik        |        |
| Kaynaklar     |        |

## Teori Konu Başlıkları

| Hafta | Konu Başlıkları   |
|-------|---|
| 1     | Calculus of variations. Fixed and free terminal point.  |
| 2     | Exercises.  |
| 3     | Optimal control. First order necessary conditions.  |
| 4     | Exercises.  |
| 5     | Sufficiency theorems for finitely given terminal time problem.  |
| 6     | Sufficiency theorem for infinite horizon problem. Current value hamiltonian.                                    |
| 7     | Exercises.  |
| 8     | Optimal neoclassical model.   |
| 9     | A simulation of the optimal neoclassical model.   |
| 10    | Optimal neoclassical model with exogenous technical progress.   |
| 11    | Endogenous technical progress: Romer model. Existence of equilibrium growth rate.                               |
| 12    | Endogenous technical progress: Lucas model. Existence of equilibrium growth rate. Equivalence with Romer model. |
| 13    | A superficial intro to existence unicity and stability in Romer and Lucas models.                               |
| 14    | Transversality conditions in Romer and Lucas models.  |