EKT 720 – Statistical learning

Assignment 9

- 1. Study Gujarati Chapters 18,19 and 20, specifically
 - a) Simultaneous-equation bias
 - b) Structural, reduced and final forms
 - c) Indirect least squares and the problem of identification
 - d) 2SLS, Estimation of recursive systems
- 2. Consider the attached data and problem description.
- 3. Evaluate the identification of the system by using the order and rank conditions of identification.
- 4. Give the reduced and final forms where applicable.
- 5. Give a mathematical representation of the relationship between the reduced form parameters and the structural form parameters.
- 6. Use **OLS** / **Indirect least squares** / **Two stage least squares** to estimate the unknown regression parameters of the structural form.
- 7. Use the bootstrap approach to evaluate the structural form parameters only the Y_{2t} equation,.
- 8. Use the bootstrap approach to determine 95% confidence interval(s) for the R² values of the reduced form.