Structural Equation Modelling

Course Title: Structural Equation Modelling					
Course Code: CIE60062	**Student Workload:** 8.50 Hours/ Weeks	**Credits:** 3 Credits (4.50 ECTS)	**Semester:** 6th Semester	**Frequency:** Even Semester	**Duration:** 16 Weeks/ Semester (*Lecture*: 14 weeks; *Midterm assessment*: 1 week; *Final assessment*: 1 week)

1	**Types of Courses:** Content Knowledge Course	**Contact Hours:** *Lecturing*: 2.50 Hours/ Week; *Practical Work*: 0.00 Hours/ Week	**Independent Study:** *Self-study:* 3.00 Hours/ Week; *Structured Assignment*: 3.00 Hours/ Week	**Class Size:** 40 Students
2	**Prerequisites for Participation** (If Applicable): Statistics Fundamental			
3	**Learning Outcomes:** 1. M1: Able to design programming in statistical methods (ILO-4) (0,1) 2. M2: Able to compile the results of statistical method studies in the form of reports (ILO-7) (0,3) 3. M3: Able to perform data analysis and create programming algorithms (ILO-8) (0,2) 4. M4: Able to explore data both univariate and multivariate (ILO-10) (0,2) 5. M5: Able to make rational decisions based on data (ILO-11) (0,2)			
4	**Subject aims/Content:** At the end of the course, students are expected: 1. L1: Able to explain about path analysis (path analysis) and the difference with regression analysis (M1) 2. L2: Able to perform hypothesis testing and know the assumptions used (M2) 3. L3: Able to explain symbols and notations used in measurement models and structural models (M3) 4. L4: Able to understand the theoretical concept of variance-covariance matrix decomposition in the SEM (M4) model 5. L5: Able to use AMOS software to build and modify SEM models and interpret output (M5)			
5	**Teaching Methods:** Lecturing, Group Discussion, Case-Based Learning			
6	**Assessment Methods:** Essay, Performance Test, Case Assessment, Peer Assessment			
7	**This Course is Used in The Following Study Programme/s as Well:** -			
8	**Responsibility for Course:** Dr.Eng. Fitra Abdurrachman Bachtiar, S.T., M.Eng. Satrio Hadi Wijoyo, S.Si., S.Pd., M.Kom. Alfi Nur Rusydi, S.Si., M.Sc.			
9	**Other Information:** Bibliography: 1. Bollen, K.A. 1989. Structural Equations with Latent Variables, John Wiley & Sons, New York. 2. Santoso, S. 2014. Konsep Dasar dan Aplikasi SEM dengan AMOS, Elex Media Komputindo, Jakarta.			