Statistics Fundamental

Course Title: Statistics Fundamental					
Course Code: CIE62007	**Student Workload:** 8.50 Hours/ Weeks	**Credits:** 3 Credits (4.50 ECTS)	**Semester:** 2nd 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)**:** -			
3	**Learning Outcomes:** 1. M1: Able to understand the concept of probability in statistics (ILO-5) (0,3) 2. M2: Able to analyze educational problems with descriptive inferential and statistics (ILO-1)(0,1); (ILO-5)(0,2) 3. M3: Able to make conclusions and decisions that are objective, clear, and transparent related to educational problems based on the results of quantitative data analysis (ILO-9) (0,2); (ILO-11) (0,2)			
4	**Subject aims/Content:** At the end of the course, students are expected: 1. L1: Able to understand the concepts of statistical thinking, probability, descriptive statistics, and inferential statistics (M1) 2. L2: Able to apply descriptive statistical concepts to explain data (M2) 3. L3: Able to calculate parameter estimates in a sample or population (M2) 4. L4: Able to test a hypothesis (M3) 5. L5: Able to evaluate a phenomenon using regression and correlation approaches (M3)			
5	**Teaching Methods:** Lecturing, Group Discussion, Discovery Learning, Case-Based Learning			
6	**Assessment Methods:** Multiple choice, essay, anecdotal record/logbook/review			
7	**This Course is Used in The Following Study Programme/s as Well:** -			
8	**Responsibility for Course:** Satrio Hadi Wijoyo, S.Si., S.Pd., M.Kom. Alfi Nur Rusydi, S.Si., M.Sc.			
9	**Other Information:** Bibliography: 5. Hasan, M.I. Pokok-Pokok Materi Statistik 1: Statistik Deskriptif. Bumi Aksara. 2015 6. Hasan, M.I. Pokok-Pokok Materi Statistik 2: Statistik Inferensif. Bumi Aksara. 2015 7. Sugiyono. Statistika untuk Penelitian. Alfabeta. 2011 8. R. E. Walpole, R. H. Myers, S.L. Myers & K.Ye. Probability & Statistics for Engineers and Scientists,7th Ed., 2002, Prentice-Hall International Edition. 9. J. T. Mc Clave & F. H. Dietruch., Statistics, 9th Ed., 2003, Prentice Hall 10. R. A. Johnson, & G. K. Bhattacharyya, Statistics: Principles and Methods, 3rd ed., 1996, John Willey & Sons			