MODULE HANDBOOK

<table>
<tr><td colspan="2">Module name</td><td colspan="5">Database</td></tr>
<tr><td colspan="2">Module level, if applicable</td><td colspan="5">1st year</td></tr>
<tr><td colspan="2">Code, if applicable</td><td colspan="5">SST-207</td></tr>
<tr><td colspan="2">Semester(s) in which the module is taught</td><td colspan="5">2nd (second)</td></tr>
<tr><td colspan="2">Person responsible for the module</td><td colspan="5">Muhammad Muhajir, S.Si., M.Sc.</td></tr>
<tr><td colspan="2">Lecturer</td><td colspan="5">Dr. RB Fajriya Hakim, M.Si.
Arum Handini Primandari, M.Sc.</td></tr>
<tr><td colspan="2">Language</td><td colspan="5">Bahasa Indonesia</td></tr>
<tr><td colspan="2">Relation to curriculum</td><td colspan="5">Compulsory course in the first year (2nd semester) Bachelor Degree</td></tr>
<tr><td colspan="2">Type of teaching, contact hours</td><td colspan="5">100 minutes lectures and 120 minutes structured activities per week.</td></tr>
<tr><td>Types of teaching and learning</td><td>Class size</td><td>Attendance time (hours per week per semester)</td><td>Form of active participation</td><td colspan="2">Workload (hours per semester)</td><td></td></tr>
<tr><td rowspan="4">Lecture</td><td rowspan="4">50-60</td><td rowspan="4">1.67</td><td rowspan="4">Problem solving</td><td>Face to face teaching</td><td>23.33</td></tr>
<tr><td>Structured activities</td><td>32</td></tr>
<tr><td>Independent study</td><td>32</td></tr>
<tr><td>Exam</td><td>3.33</td></tr>
<tr><td colspan="2">Total workload</td><td colspan="5">90.67 hours</td></tr>
<tr><td colspan="2">Credit points</td><td colspan="5">2 CUs / 3.4 ECTS</td></tr>
<tr><td colspan="2">Requirements according to the examination regulations</td><td colspan="5">Minimum attendance at lectures is 75%. Final score is evaluated based on assignment, mid-term exam, and final exam.</td></tr>
<tr><td colspan="2">Recommended prerequisites</td><td colspan="5">Students have taken Programming Algorithm (SST-105).</td></tr>
<tr><td colspan="2">Related course</td><td colspan="5">System Information Management (SST-306)</td></tr>
<tr><td colspan="2">Module objectives/intended learning outcomes</td><td colspan="5">After completing this course, the students have ability to:
CO 1. design a database system
CO 2. organize data in a database system
CO 3. utilize a database in some case study
CO 4. present the database system on the website.</td></tr>
<tr><td colspan="2">Content</td><td colspan="5">1. Introduction: Data definition, database, database role in statistics, and
2. Database Introduction: file system and database system
3. Object relations between entities
4. Database Design
5. Normalization
6. Entity Relational Diagram
7. Definition and manipulation of data with a query language
8. Database design using MySQL
9. Basic operations in MySQL
10. Database design using MySQL
11. Data Definition Language (DDL), Data Manipulation Language (DML), and Data Control Language (DCL)
12. MySQL functions for database completeness
13. Advanced MySQL functions and HTML, PHP, and Apache Server
14. Internet Language for website-based database design</td></tr>
<tr><td colspan="2">Study and examination requirements and forms of examination</td><td colspan="5">The final mark will be weighted as follows:
No | Assessment components | Assessment type | Weight (percentage)
1 | CO 1 | Assignment | 10%
2 | CO 2 | Assignment | 10%</td></tr>
</table>

	3 CO 3 Midterm exam 20% 4 CO 4 Final Exam 50%
Media employed	Google Classroom, relevant websites, slides (power points), video, interactive media, white-board, laptop, LCD projector
Reading list	1. Nugroho, Bunafit, 2005, Database Relasional dengan MySQL, Penerbit Andi, Yogyakarta. 2. Vaswani, Vikram, 2009, MySQL, Database Usage & Administration, McGraw Hill Profesional. 3. Nugraha, Bunafit, 2006, Membuat Aplikasi Pejualan dengan PHP dan MySQL, Ardana Media, Yogyakarta. 4. Wahyono, Teguh, 2004, PHP Triad Fundamental, Gava Media, Yogyakarta. 5. Kurniawan, Yahya, 2002, Aplikasi Web Database dengan PHP dan MySQL, Elex Media Komputindo, Jakarta.

Mapping CO, PLO, and ASIIN's SSC

ASIIN		PLO											
		E	N	T	H	U	S	I	A	S	T	I	C
Knowledge	a												
	b										CO1 CO2		
	c												
	d												
Ability	e												
	f												
Competency	g												
	h												
	i												
	j										CO4		
	k										CO3		
	l												