Desktop-Based Programming

Course Title: Desktop-Based Programming					
Course Code: CIE60049	**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*: 1.67 Hours/ Week; *Practical Work*: 2.83 Hours/ Week	**Independent Study:** *Self-study:* 2.00 Hours/ Week; *Structured Assignment*: 2.00 Hours/ Week	**Class Size:** 40 Students

2	**Prerequisites for Participation** (If Applicable)**:** Object-Oriented Programming

3	**Learning Outcomes:**

1. M1: Able to design the appearance of a form by utilizing Common Controls in Windows Form (ILO-2) (0,2)
2. M2: Able to create the formation of a structure and code the interaction between states (ILO-5) (0,2)
3. M3: Able to build Dynamic Link Libraries (DLL) as well as build installer packages (ILO-9) (0,3)
4. M4: Able to develop desktop applications using CRUD on the database (ILO-12) (0,3)

4	**Subject aims/Content:**

At the end of the course, students are expected:
1. L1: Able to explain Common Controls in Windows Form (M1)
2. L2: Able to add new forms and appearance of new states with coding (M2)
3. L3: Able to compose the design of the final project (M2)
4. L4: Able to produce simple DLL (M3)
5. L5: Able to identify a case and build a desktop application from the case by utilizing the database as a data store (M4)

5	**Teaching Methods:** Lecturing, Group Discussion, Project-Based Learning
6	**Assessment Methods:** Multiple Choice, Essay, Performance Test, Anecdotal Record/Logbook, Project Assessment
7	**This Course is Used in The Following Study Programme/s as Well:** -
8	**Responsibility for Course:** Tri Afirianto, S.T., M.T. Satrio Agung Wicaksono, S.Kom., M.Kom.
9	**Other Information:** Bibliography:

1. Conrod, P. dan Tylee, L., 2017. Visual C# and Databases, Kidware Software LLC
2. Perkins, B., Hammer, J. V., dan Reid, J. D., 2018. Beginning C# 7 Programming with Visual Studio 2017, John Wiley & Sons, Inc.