Mobile Application Development

Course Title: Mobile Application Development					
Course Code: CIE60048	**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:** Technological 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 understand concepts and challenges in mobile application development (ILO-2) (0,1) 2. M2: Able to produce an interactive user interface in a one-page mobile application (ILO-5) (0,3) 3. M3: Able to create a mobile application that can store and retrieve data from the database (ILO-9) (0,3) 4. M4: Able to display user position and map on mobile application (ILO-12) (0,3)			
4	**Subject aims/Content:** At the end of the course, students are expected: 1. L1: Able to understand various technologies (hardware and software) that can be used in developing mobile device applications (M1) 2. L2: Able to produce an interactive user interface in the one-page mobile application (M2) 3. L3: Able to apply procedures in configuring mobile application development environment (M3) 4. L4: Able to implement the use of rest API on mobile applications (M4) 5. L5: Able to apply sensors to determine the location on mobile applications that use location or map features (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. Horton. 2019. Android Programming with Kotlin for Beginners, PACKT. 2. Hagos. 2017. Learn Android Studio 3 with Kotlin: Efficient Android App Development, Payload Media Apress.			