

## Cross-platform Application Development

Course Title: Cross-platform Application Development					
<b>Course Code:</b> CIE60051	<b>Student Workload:</b> 8.50 Hours/ Weeks	<b>Credits:</b> 3 Credits (4.50 ECTS)	<b>Semester:</b> 7 <sup>th</sup> Semester	<b>Frequency:</b> Odd Semester	<b>Duration:</b> 16 Weeks/ Semester ( <i>Lecture: 14 weeks; Midterm assessment: 1 week; Final assessment: 1 week</i> )
<b>1</b>	<b>Types of Courses:</b> Technological Knowledge Course	<b>Contact Hours:</b> <i>Lecturing: 1.67 Hours/ Week; Practical Work: 2.83 Hours/ Week</i>	<b>Independent Study:</b> <i>Self-study: 2.00 Hours/ Week; Structured Assignment: 2.00 Hours/ Week</i>	<b>Class Size:</b> 40 Students	
<b>2</b>	<b>Prerequisites for Participation</b> (If Applicable): Object-Oriented Programming				
<b>3</b>	<b>Learning Outcomes:</b> 1. M1: Able to understand concepts and challenges in multiplatform application development (ILO-2) (0,1) 2. M2: Able to produce interactive user interface in one page multiplatform application (ILO-5) (0,2) 3. M3: Able to create user interfaces that can switch pages and can communicate with other application components (ILO-5) (0,2) 4. M4: Able to produce multiplatform applications that can store and retrieve data from databases (ILO-5; ILO-9) (0,2; 0,3)				
<b>4</b>	<b>Subject aims/Content:</b> At the end of the course, students are expected: 1. L1: Able to understand various technologies (hardware and software) that can be used in the development of multiplatform applications (M1) 2. L2: Able to apply procedures in configuring multiplatform application development environment (M2) 3. L3: Able to understand the concept of multiplatform application page navigation (M3) 4. L4: Able to implement local data storage on multiplatform (M4)				
<b>5</b>	<b>Teaching Methods:</b> Lecturing, Group Discussion, Project-Based Learning				
<b>6</b>	<b>Assessment Methods:</b> Multiple Choice, Essay, Performance Test, Anecdotal Record/Logbook, Project Assessment				
<b>7</b>	<b>This Course is Used in The Following Study Programme/s as Well:</b> -				
<b>8</b>	<b>Responsibility for Course:</b> Tri Afirianto, S.T., M.T. Satrio Agung Wicaksono, S.Kom., M.Kom.				
<b>9</b>	<b>Other Information:</b> Bibliography: 1. Biessek, Flutter for Beginners, PACKT, 2019. 2. Google, Flutter Cookbook, <a href="https://flutter.dev/docs/cookbook">https://flutter.dev/docs/cookbook</a> .				