Computer Operating System

Course Title: Computer Operating System					
Course Code: CIE62003	**Student Workload:** 8.50 Hours/ Weeks	**Credits:** 3 Credits (4.50 ECTS)	**Semester:** 2nd Semester	**Frequency:** Even Semester	**Duration:** 16 Weeks/ Semester (*Lecture and practical work*: 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)**:**
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3 **Learning Outcomes:**
1. M1: Able to understand the basic concepts of computer operating systems and the roles in education innovation (ILO-2) (0,1); (ILO-6) (0,3)
2. M2: Able to understand the working mechanism of the process, memory, and storage management on the computer operating system and determine the best specification under the education process need (ILO-2) (0,1); (ILO-8) (0,2)
3. M3: Able to install various computer operating systems and provide appropriate treatment when there is a technical problem (ILO-2) (0,1); (ILO-9) (0,2)

4 **Subject aims/Content:**
At the end of the course, students are expected:
1. L1: Able to exemplify the relationship between computer operating systems roles and educational process support (M1)
2. L2: Able to connect the working mechanism of the process, memory, and storage management on the computer operating system conceptually and determine the specification under the education improvement need (M2)
3. L3: Able to install various computer operating systems in various computer system architectures with clear phase (M3)
4. L4: Able to provide appropriate treatment and troubleshooting when there is a technical problem in a computer operating system (M3)

5 **Teaching Methods:**
Lecturing, Group Discussion, Case-Based Learning

6 **Assessment Methods:**
Essay, performance test, anecdotal record/logbook, case assessment

7 **This Course is Used in The Following Study Programme/s as Well:**
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8 **Responsibility for Course:**
1. Faizatul Amalia, S.Pd., M.Pd.
2. Wibisono Sukmo Wardono, S.T., M.T.

9 **Other Information:**
Bibliography:
1. Stallings, William. 2018. Operating Systems: Internal and Design Principles, 9th Edition. Pearson.
2. Abraham Silberschatz, Greg Gagne, Peter B. Galvin. 2018. Operating System Concepts, 10th Edtition. Wiley.
3. Greg Tomsho. 2016. Guide to Operating Systems. Cengage Learning.
4. Jose Dieguez Castro. 2016. Introducing Linux Distros. Apress.
5. Neil Smyth. 2020. CentOS 8 Essentials. Packt Publishing Limited.

	6. Beverly Clarke. 2017. Computer Science Teacher : Insight into The Computing Classroom. Swindon 7. Kotian, Sameer. 2019. Educational Operating Systems: What Are They? URL: https://www.techshout.com/educational-operating-systems-what-are-they/