Scientific Research and Writing Method

Course Title: Scientific Research and Writing Method					
Course Code: COM60051	**Student Workload:** 8.50 Hours / Weeks	**Credits:** 3 Credits (4.50 ECTS)	**Semester:** 5th Semester	**Frequency:** Odd Semester	**Duration:** 16 Weeks/ Semester (*Lecture*: 14 weeks; *Midterm assessment* : 1 week; *Final assessment* : 1 week)

1	**Types of Courses:** General skills of IT study program	**Contact Hours:** *Lecturing*: 2.50 Hours/ Week; *Practical Work*: 0.00 Hours/ Week	**Independent Study:** *Self-study:* 3.00 Hours/ Week; *Structured Assignment*: 3.00 Hours/ Week	**Class Size:** 40 Students

2 **Prerequisites for Participation** (If Applicable)**:**
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3 **Learning Outcomes:**
1. M1: Able to carry out the process of self-evaluation and able to manage research independently..
2. M2: Able to document, store, secure, and rediscover research data to ensure the validity of research and prevent plagiarism.
3. M3: Able to disseminate academic work in the form of scientific publications uploaded on the website of universities and/or reputable journals.

4 **Subject aims/Content:**
At the end of the course, students are expected:
L1: Able to carry out the research process independently with various scientific methods
L2: Able to carry out primary and secondary data acquisition as well as validation and reliability tests to ensure the validity and accuracy of research and prevent plagiarism.
L3: Able to write curriculum in the form of undergraduate level scientific writing in the form of a thesis, write scientific journals in Indonesian and publish them.

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

6 **Assessment Methods:**
Essay, multiple-choice, product assessment, anecdotal record/logbook

7 **This Course is Used in The Following Study Programme/s as Well:**
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8 **Responsibility for Course:**
1. Dr. Eng Fitri Utaminingrum, ST., MT.

9 **Other Information:**
Bibliography:

1. Ramdani, Fatwa. 2019. *KURIOSITAS: Metode Ilmiah Penelitian Teknologi Informasi*. UB Press, Malang
2. Ebad, Ryhan. (2014). *Research Methodology in Computer Science*. Centrum Press
3. Wiersma, William & Jurs, S.G. (2009). *Research Methods in Education: An Introduction*. 9th Edition. Pearson. United States of America.
4. Hassani, H. 2017. *Research Methods in Computer Science: The Challenges and Issues*. Cornell University, Available at https://arxiv.org/abs/1703.04080
5. Holz, H. J., Applin, A., Haberman, B., Joyce, D., Purchase, H., & Reed, C. (2006). *Research methods in computing*. Working Group Reports on ITiCSE on Innovation and Technology in Computer Science Education - ITiCSE-WGR '06. doi:10.1145/1189215.1189180

	6. Hasibuan, Z.A., (2007). *Metodologi Penelitian pada Bidang Ilmu Komputer dan Teknologi Informasi (Konsep, Teknik, dan Aplikasi)*. Fakultas Ilmu Komputer Universitas Indonesia, Depok. 7. Maturidi, A.J., (n.d.) *Metode Penelitian Teknik Informatika*. Deepublish. Sleman, Jogjakarta. 8. Singh, K.Y. (2006). *Fundamental of Research Methodology and Statistics*. New Age International (P) Limited, Ansari Road, Daryaganj, New Delhi 9. Kothari, C.F. (2004). *Research Methodology, Methods and Techniques*, Second Revised Edition. New Age International (P) Limited, Ansari Road, Daryaganj, New Delhi