

Research Methodology and Scientific Writing					
Course code COM60051	student workload 90 hours	credits (according to ECTS) 4.5 ECTS	semester Sem. 5	frequency each odd-semester	duration 16 meetings
1	Types of courses Compulsory (Faculty level)	contact hours 63 hours	independent study 27 hours	class size 40 students	
5	Prerequisites for participation Have taken more than equal to 90 ECTS				
2	Learning outcomes IF-ILO-1 Graduates are able to implement the values of Pancasila in society and nation IF-ILO-3 Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements. IF-ILO-4 Graduates have the ability to think computationally, design-based thinking, conduct analysis with scientific writing, and are able to apply the values of Technopreneurship in creating product innovations in the Systems or Information Technology domain. IF-ILO-9 Mastering the general concept, principles, and communication skills both in oral and written relating to technical and non-technical aspects				
3	Subject aims 1. Able to carry out the process of self-evaluation and able to manage research independently 2. Able to document, store, secure, and rediscover research data to ensure the validity of research and prevent plagiarism 3. Able to disseminate academic work in the form of scientific publications uploaded on the website of universities and/or reputable journals				
4	Teaching methods lectures, case study, class discussion, presentation				
6	Assessment methods				

	Assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment
8	This module is used in the following degree programmes as well Informatics Engineering, Computer Engineering, Information System, Information Technology Education, Information Technology
10	Responsibility for module Name of lecturers
11	Other information References 1. Ramdani, Fatwa. 2019. CURIOSITY: Scientific Methods of Information Technology Research. UB Press, Malang 2. Ebad, Ryhan. (2014). <i>Research Methodology in Computer Science</i> . Centrum Press 3. Wiersma, William & Jurs, S.G. (2009). <i>Research Methods in Education: An Introduction</i> . 9th Edition. Pearson. United States of America. 4. Hassani, H. 2017. <i>Research Methods in Computer Science: The Challenges and Issues</i> . 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). <i>Research methods in computing</i> . 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). <i>Metodologi Penelitian pada Bidang Ilmu Komputer dan Teknologi Informasi (Konsep, Teknik, dan Aplikasi)</i> . Fakultas Ilmu Komputer Universitas Indonesia, Depok. 7. Maturidi, A.J., (n.d.) <i>Metode Penelitian Teknik Informatika</i> . Deepublish. Sleman, Jogjakarta. 8. Singh, K.Y. (2006). <i>Fundamental of Research Methodology and Statistics</i> . New Age International (P) Limited, Ansari Road, Daryaganj, New Delhi 9. Kothari, C.F. (2004). <i>Research Methodology, Methods and Techniques</i> , Second Revised Edition. New Age International (P) Limited, Ansari Road, Daryaganj, New Delhi