

**RENCANA PROGRAM DAN KEGIATAN
PEMBELAJARAN SEMESTER (RPKPS)
COURSE SYLLABUS
SEMESTER GENAP DAN GANJIL (*ODD/EVEN*)
2026/2027**



*Master in Food Science and Technology
Department of Food and Agricultural Products Technology*

Komunikasi Ilmu Pengetahuan I

Scientific Communication I

TPTP265103 (2 SKS)

Dosen Pengampu (*Lecturers*):

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Prof. Dr. Ir. Eni Harmayani, M.Sc.

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**UNIVERSITAS GADJAH MADA
FACULTY OF AGRICULTURAL TECHNOLOGY
2026**

	Universitas Gadjah Mada Faculty of Agricultural Technology Department of Food and Agricultural Products Technology Master in Food Science and Technology Odd and Even Semester 2026/2027				Kode Dokumen (Document code):	
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RENCANA PROGRAM DAN KEGIATAN PEMBELAJARAN SEMESTER (RPKPS) (COURSE SYLLABUS)						
Kode Mata Kuliah (Course Number)	Nama Mata Kuliah (Course Title)	Bobot (Credits)		Semester (Semester)	Status Mata Kuliah (Course Status)	Mata Kuliah Prasyarat (Prerequisite Courses)
TPTP265103	Komunikasi Ilmu Pengetahuan I (Scientific Communication I)	T: 1	P: -	Ganjil/Genap (Odd/Even)	Wajib (Compulsory)	-
Deskripsi Singkat Mata Kuliah (Short Course Description)	Komunikasi Ilmu Pengetahuan I adalah mata kuliah tingkat magister yang dirancang untuk mengembangkan kompetensi mahasiswa dalam mengkomunikasikan penelitian ilmu pangan dan pengetahuan ilmiah secara efektif, etis, dan kritis melalui format tertulis, visual, dan lisan. Mata kuliah ini mencakup penulisan ilmiah, struktur manuskrip, etika publikasi, poster ilmiah, dan teknik presentasi lisan, dengan mengacu pada standar internasional dalam penerbitan ilmu pangan. Mata kuliah ini berkontribusi pada SDG 4 - Pendidikan berkualitas dengan menerapkan literasi ilmiah dan penyebaran pengetahuan yang efektif dan SDG 17 - Kemitraan untuk mencapai tujuan dengan menggunakan komunikasi sains untuk kolaborasi dan dampak. Mata kuliah ini menerapkan pendekatan studi kasus berbasis proyek menggunakan laporan skripsi mahasiswa sebagai kasus penelitian nyata. Mahasiswa mengubah laporan skripsi menjadi manuskrip dan poster ilmiah, yang dipresentasikan dan didiskusikan secara kritis di kelas melalui tinjauan sejawat terstruktur dan kegiatan pemecahan masalah. <i>(Scientific communication I is a graduate-level course designed to develop students' competencies in communicating food science research and scientific knowledge effectively, ethically, and critically through written, visual, and oral formats. The course covers scientific writing, manuscript structure, publication ethics, scientific posters, and oral presentation techniques, with reference to international standards in food science publishing. This course contributes to SDG 4 - Quality education by implementing scientific literacy and effective knowledge dissemination and SDG 17 - Partnerships for the goals by using science communication for collaboration and impact.</i> <i>The course applies a project-based case study approach using students' bachelor theses as real research cases. Students transform their undergraduate theses into scientific manuscripts and posters, which are presented and critically discussed in class through structured peer review and problem-solving activities.)</i>					
Capaian Pembelajaran Lulusan yang Dibebankan pada MK (CPL) (Program Learning	CPL KK2 (PLO KK2)	Mampu mengomunikasikan hasil penelitian dalam konferensi ilmiah atau jurnal ilmiah. (Able to communicate the scientific findings in scientific conferences or scientific journals.)				

<i>Outcomes (PLO) Assigned to the Course))</i>				
Capaian Pembelajaran Mata Kuliah (CPMK) <i>(Course Learning Outcomes (CLO))</i>	Setelah menyelesaikan pembelajaran mata kuliah ini, mahasiswa diharapkan mampu: <i>(After completing this course, students are expected to be able to:)</i>			
	CPMK KK2.1 <i>(CLO KK2.1)</i>	Mampu mengomunikasikan hasil penelitian dalam forum atau konferensi ilmiah. [CPL KK2.1] <i>(Able to communicate research findings at scientific forums or conferences.)</i> [PLO KK2.1]		
Kaitan CPMK dengan Materi dan Bentuk Pembelajaran, serta Alokasi Waktu <i>(CLO Relation to Learning Material, Learning Forms, and Time Allocation)</i>		Materi Pembelajaran <i>(Learning Materials)</i>	Bentuk Pembelajaran <i>(Forms of Learning)</i>	Alokasi Waktu <i>(Time Allocation)</i>
	CPMK KK2.1 <i>(CLO KK2.1)</i>	1. Pendahuluan, tipe artikel ilmiah, dan etika publikasi <i>(Introduction, Types of Scientific Articles, and Publication Ethics)</i>	- Kuliah <i>(Lecture)</i> - Diskusi Interaktif <i>(Interactive Discussion)</i>	1 pertemuan <i>1 meeting</i> Masing-masing terdiri dari: <i>Each meeting consists of:</i> 1x50 menit sinkronus <i>(1x50 minutes synchronous)</i> 1x60 menit penugasan terstruktur <i>(1x60 minutes of structured assignments)</i> 1x60 kegiatan mandiri <i>(1x60 minutes of independent study)</i>
		2. Penulisan artikel ilmiah: struktur, abstrak, dan pendahuluan <i>(Writing Research Articles: Structure, Abstract, and Introduction)</i>	- Kuliah <i>(Lecture)</i> - Diskusi Interaktif <i>(Interactive Discussion)</i>	1 pertemuan <i>1 meeting</i> Masing-masing terdiri dari: <i>Each meeting consists of:</i> 1x50 menit sinkronus <i>(1x50 minutes synchronous)</i>

				1x60 menit penugasan terstruktur <i>(1x60 minutes of structured assignments)</i> 1x60 kegiatan mandiri <i>(1x60 minutes of independent study)</i>
		3. Penulisan artikel ilmiah: Metode penelitian <i>(Writing Research Articles: Research Methodology)</i>	- Kuliah <i>(Lecture)</i> - Diskusi Interaktif <i>(Interactive Discussion)</i>	1 pertemuan <i>1 meeting</i> Masing-masing terdiri dari: <i>Each meeting consists of:</i> 1x50 menit sinkronus <i>(1x50 minutes synchronous)</i> 1x60 menit penugasan terstruktur <i>(1x60 minutes of structured assignments)</i> 1x60 kegiatan mandiri <i>(1x60 minutes of independent study)</i>
		4. Penulisan artikel ilmiah: Hasil, Diskusi, dan Kesimpulan <i>(Writing Research Articles: Research Findings, Discussion, and Conclusion)</i>	- Kuliah <i>(Lecture)</i> - Diskusi Interaktif <i>(Interactive Discussion)</i>	1 pertemuan <i>1 meeting</i> Masing-masing terdiri dari: <i>Each meeting consists of:</i> 1x50 menit sinkronus <i>(1x50 minutes synchronous)</i> 1x60 menit penugasan terstruktur <i>(1x60 minutes of structured assignments)</i>

				1x60 kegiatan mandiri (1x60 minutes of independent study)
		5. Pembuatan Poster Ilmiah (Scientific Poster Creation)	- Kuliah (Lecture) - Diskusi Interaktif (Interactive Discussion)	1 pertemuan 1 meeting Masing-masing terdiri dari: Each meeting consists of: 1x50 menit sinkronus (1x50 minutes synchronous) 1x60 menit penugasan terstruktur (1x60 minutes of structured assignments) 1x60 kegiatan mandiri (1x60 minutes of independent study)
		6. Presentasi draft artikel ilmiah (Presentation of Scientific Article Drafts)	- Presentasi (Presentation) - Diskusi Interaktif (Interactive Discussion)	2 pertemuan 2 meeting Masing-masing terdiri dari: Each meeting consists of: 1x50 menit sinkronus (1x50 minutes synchronous) 1x60 menit penugasan terstruktur (1x60 minutes of structured assignments) 1x60 kegiatan mandiri (1x60 minutes of independent study)
		Ujian Tengah Semester / Hasil Tugas Proyek / Studi Kasus Midterm Exam/Project Results/Case Study Results		

		7. Teknik presentasi: tipe presentasi oral dan media presentasi <i>(Presentation Techniques: Types of Oral Presentations and Presentation Media)</i>	- Kuliah <i>(Lecture)</i> - Diskusi Interaktif <i>(Interactive Discussion)</i>	1 pertemuan <i>1 meeting</i> Masing-masing terdiri dari: <i>Each meeting consists of:</i> 1x50 menit sinkronus <i>(1x50 minutes synchronous)</i> 1x60 menit penugasan terstruktur <i>(1x60 minutes of structured assignments)</i> 1x60 kegiatan mandiri <i>(1x60 minutes of independent study)</i>
		8. Teknik presentasi: Metode presentasi yang efektif <i>(Presentation Techniques: Effective Presentation Methods)</i>	- Kuliah <i>(Lecture)</i> - Diskusi Interaktif <i>(Interactive Discussion)</i>	1 pertemuan <i>1 meeting</i> Masing-masing terdiri dari: <i>Each meeting consists of:</i> 1x50 menit sinkronus <i>(1x50 minutes synchronous)</i> 1x60 menit penugasan terstruktur <i>(1x60 minutes of structured assignments)</i> 1x60 kegiatan mandiri <i>(1x60 minutes of independent study)</i>
		9. Tugas Presentasi <i>(Practice in Oral Presentation)</i>	- Presentasi <i>(Presentation)</i> - Diskusi Interaktif <i>(Interactive Discussion)</i>	5 pertemuan <i>5 meeting</i> Masing-masing terdiri dari:

				<i>Each meeting consists of:</i> 1x50 menit sinkronus <i>(1x50 minutes synchronous)</i> 1x60 menit penugasan terstruktur <i>(1x60 minutes of structured assignments)</i> 1x60 kegiatan mandiri <i>(1x60 minutes of independent study)</i>
		Ujian Akhir Semester / Hasil Tugas Proyek / Studi Kasus <i>Final Exam/Project Results/Case Study Results</i>		
Metode Pembelajaran <i>(Learning Methods)</i>	Kuliah, Diskusi Interaktif, Latihan Presentasi Lisan oleh Mahasiswa <i>(Lecture, Interactive Discussion, Oral presentation practise by student)</i>			
Beban Kerja <i>(Workload)</i>	Total workload per semester adalah 48 jam, yang terdiri atas 120 menit per minggu untuk kegiatan perkuliahan, 120 menit per minggu untuk tugas terstruktur, dan 120 menit per minggu untuk belajar mandiri, dengan total 16 minggu termasuk UTS dan UAS. <i>(The total workload is approximately 48 hours per semester, consisting of 120 minutes of lectures per week, 120 minutes of structured assignments per week, and 120 minutes of self-study per week, for a total of 16 weeks including mid-term and final examinations.)</i> Perhitungan Workload per Semester <i>(Workload calculation for one semester)</i> = 3 jam/minggu × 16 minggu/semester = 48 jam/semester = 48 jam/semester ÷ 26 jam/ECTS = 1,85 ECTS/semester <i>= 3 hours/week × 16 weeks/semester = 48 hours/semester = 48 hours/semester ÷ 26 hours/ECTS = 1.85 ECTS/semester</i> Total Workload = 1.85 ECTS/semester Catatan <i>(Notes)</i>: 1 ECTS setara dengan 25–30 jam workload mahasiswa, dengan 26 jam ditetapkan sebagai standar minimum. <i>(1 ECTS is equivalent to 25-30 hours of work, with 26 hours set as the minimum standard.)</i>			

Aktivitas Mahasiswa <i>(Students Activities)</i>	Sesi Sinkron <i>(During Synchronous Sessions):</i> - Berpartisipasi aktif dalam diskusi terkait materi pembelajaran. <i>Actively engage in discussions on materials.</i> Sesi Asinkron/Mandiri/Penugasan Terstruktur <i>(During Asynchronous/Self-Study/Structured Assignments):</i> - Belajar kelompok <i>Group study</i> - Refleksi terhadap materi pembelajaran <i>Reflecting on material</i> - Menulis manuskrip <i>Writing manuscripts</i> - Mempersiapkan media presentasi <i>Preparing presentation media</i>							
Akses Media Pembelajaran/ LMS dan Persentase Luring & Daring <i>(Learning Media Access/LMS and Offline & Online Percentage)</i>	https://elok.ugm.ac.id https://simaster.ugm.ac.id/ Luring <i>(Offline)</i> : 100% Daring <i>(Online)</i> : 0%							
Metode Penilaian dan Keselarasan dengan CPMK <i>(Assessment Method for Each Course Learning Outcomes)</i>	Basis Evaluasi <i>(Evaluation Basis)</i>	Komponen Evaluasi <i>(Evaluation Component)</i>	Bobot <i>(Percentage)</i>	CPMK <i>(CLO)</i> KK2.1				
	A. Aktivitas Partisipatif^{*)} <i>Participatory Activities</i>	Penugasan <i>Assignments</i>	40%	v				
	B. Hasil Project/Hasil Studi Kasus/ Hasil PBL^{*)} <i>Project Results/Case Study Results/PBL Results</i>	Presentasi <i>Presentation</i>	20%	v				
	C. Kognitif <i>Cognitive</i>	Skill-based Assessment (SBA)						
Kuis <i>Quiz</i>								
UTS		10%	v					

		Midterm Exam						
		UAS Final Exam	10%	v				
		Total	100%					
Daftar Referensi (Reference)	Lövei, G. L. (2021). <i>Writing and Publishing Scientific Papers: A Primer for the Non-English Speaker</i>. England: Open Book Publishers. The Routledge Handbook of Scientific Communication. (2021). United Kingdom: Taylor & Francis. Bottomley, J. (2021). <i>Academic Writing for International Students of Science</i>. United Kingdom: Taylor & Francis. Helping Scientists to Communicate Well for All Considered: Strategic Science Communication in an Age of Environmental and Health Crises. (2022). (n.p.): Frontiers Media SA. Gastel, B., Day, R. A. (2022). <i>How to Write and Publish a Scientific Paper</i>. Indonesia: ABC-CLIO. Janse, D. (2021). <i>Science Poster Design Guide: A Practical Guide for Designing Science Posters and Visuals</i>. Netherlands: Eleven International Publishing.							
Nama Dosen Pengampu (Teaching Team)	1. Rachma Wikandari, S.T.P., M.Biotech., Ph.D. 2. Prof. Dr. Ir. Supriyadi, M.Sc. 3. Prof. Dr. Ir. Eni Harmayani, M.Sc. 4. Dr. Fiametta Ayu Purwandari, S.T.P., M.Sc.							
Otorisasi (Authorization)	Tanggal Penyusunan (Date)	Koordinator Mata Kuliah (Course Coordinator)	Koordinator Bidang Keahlian (Jika Ada) (Head of Curriculum (if available))		Ketua Program Studi (Head of the Study Program)			
	05 August 2026	Rachma Wikandari, S.T.P., M.Biotech., Ph.D.	-		Dr. Widiastuti Setyaningsih, S.T.P., M.Sc.			