

Staff Handbook

Name	Dr. Rinie Pratiwi Puspitawati, M.Si.				
Position	Head Lecturer / IV C				
Academic Career	Academic Appointment		Institution		Year
	Bachelor Program in Biological Education		IKIP Surabaya, Indonesia		1984 - 1989
	Master Program in Plant Structure and Development		Master Program in Plant Structure and Development		1994 - 1997
	Doctoral Program in Science Education (Biological Education Specialities)		Universitas Negeri Surabaya, Indonesia		2012 - 2018
Employment	No	Position	Employer		Period
	1.	Academic Staff (Lecturer in Biology Department)	Universitas Negeri Surabaya, Indonesia		2007 - now
Research and development projects over the last 5 years	No	Name of project or research focus	Period	Partners	Amount of Financing
	1.	Modeling STEM-Based Learning Tools to Foster Innovation in Learning Tools for Prospective Biology Teachers	2025	Faculty Policy Research	IDR 20.000.000 (€1,031.56)
	2.	The Contribution of Project-Based Appreciative Thinking in Plant Development Structure Courses to the Achievement of Argumentative Thinking Competencies	2024	Assignment Research (LPPM)	IDR 30.000.000 (€1,545.19)
	3.	Implementation of Application-Assisted Portfolio Assessment Link to Train Students' Skills in Creating HOTS Biology Questions	2024	Faculty Research (FMIPA)	IDR 50.000.000 (€2,575.31)
	4.	Developing Teacher Professionalism in STEM Learning	2024	Faculty Research (FMIPA)	IDR 20.000.000 (€1,031.56)
	5.	Development of Innovative Teaching Materials to Address the Challenges of Problem-Based Learning Processes	2024	Faculty Research (FMIPA)	IDR 20.000.000 (€1,031.56)
	6.	Evaluation of Biology Education Graduates' Competencies Based on User Assessment	2023	Assignment Research Batch 1 (FMIPA)	IDR 20.000.000 (€1,031.56)
	7.	Development of Interactive Video Innovative Learning Models in Biology as Teaching Materials for MBKM Courses Introduction to School Fieldwork	2023	Faculty Research (FMIPA)	IDR 20.000.000 (€1,031.56)
	8.	Training Critical Thinking on Plant Cell and Tissue Concepts through Augmented Reality Plant Cells and Tissues	2022	LPPM Competitive Research	IDR 40.000.000 (€2,060.25)
	9.	Development of Virtual Reality-Augmented Reality E-Worksheets on Plant Structures as a Model for Managing the Learning of Prospective Biology Teachers	2021	Assignment Research	IDR 75.000.000 (€3,862.96)
	10	Implementation of Electronic Portfolios as a Form of Assessment of New Normality for Biology Education Students at Unesa in the Covid-19 Pandemic Era 19	2020	Faculty Research (FMIPA)	IDR 10.000.000 (€515.06)
Industry collaborations	No	Project title		Partners	
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over the last 5 years			
Patents and proprietary rights over the last 5 years	No	Titles	Years
	1.	Development of BIORDA Educational Media Card Based on Quartet Game to Improve Scientific Literacy and Introduce Indonesian Culture	2025
	2.	Monograph: Assessment Link – Cognitive Assessment Based on Revised Bloom’s Taxonomy in Biology	2025
	3.	Biology Learning in Facing the Challenges of the Modern Era	2024
	4.	Collected Works: Let’s Explore the World of Mangroves	2024
	5.	Marker and Augmented Reality Guide for “Bunga 7 Rupa”	2024
	6.	Computer Program: Design of Electronic Student Worksheets for the Course “Fundamentals of Education” (Meetings 6 and 7)	2024
	7.	Module for the Course “Teaching Material Development” Semester 4, Meeting 7	2024
	8.	Student Worksheet on Plant Cells and Tissues	2024
	9.	Augmented Reality Application for Plant Anatomical Structure Material	2024
	10.	Learning Based on the Meaning-Making Model	2024
	11.	Formula and Method for Producing Herbal Immunostimulant Syrup Made from Turmeric (Curcuma longa) and Kaffir Lime (Citrus hystrix)	2023
	12.	Booklet on the Development of Argumentative Questions to Train Higher-Order Thinking Skills (HOTS)	2023
	13.	Roadmap Book for Community Service of FMIPA Unesa 2021–2025	2023
	14.	Book on the Analysis of Achievement of Educational Objectives (Graduate Learning Outcomes) of the Biology Education Study Program, FMIPA Unesa, 2023	2023
	15.	Poster on Digital Features of Assessment Link	2023
	16.	Plants Around Us as Immune System Boosters	2023
	17.	Process of Making MangRempah Syrup	2022
	18.	Variations in Bogem Syrup Preparations	2022
	19.	Innovations in Mangrove Syrup Processing	2022
	20.	Computer Program: Augmented Reality Application	2022
	21.	Instructional Video for the Course “Microteaching”: Introduction to Basic Teaching Skills	2021
	22.	Social Cognitive Theory – Bandura	2021
	23.	Guidelines for Creating Teaching Simulation Videos for the Course “Innovative Learning” for Biology Students	2021
	24.	Models of Instructional Design	2021
Important publications over the last 5 years	Total number: 14 titles		
	1.	Pramita Y, Fahira AP, Puspitawati RP, Prastiwi MS, Listiaji P. Critical thinking trends in STEM learning for SDGs: A bibliometric study comparing Scopus and Dimensions data. E3S Web Conf. 2025;640:02011. doi:10.1051/e3sconf/202564002011	
	2.	Putri AP, Yakub P, Puspitawati RP, Prastiwi DS, Maladonai A, Abdullahi W, Tejamukti I. Development of STEM learning media: Arduino-based air pollution detection tool for biology learning. E3S Web Conf. 2025;640:02007. doi:10.1051/e3sconf/202564002007	
	3.	Afnan MZ, Puspitawati RP, Isnawati I. Exploring the role of multiple intelligences: A systematic review for cognitive transformation in biology learning. JPBI (Jurnal Pendidikan Biologi Indonesia). 2025;11(2):625–637. doi:10.22219/jpbi.v11i2.40959	
	4.	Al Toriq MR, Puspitawati RP, Oxi RY. Combination of hydroponic natural nutrient solution effect on kale plant growth (Ipomoea reptans) using wick system. LenteraBio: Berkala Ilmiah Biologi. 2025;14(1):130–137. doi:10.26740/lenterabio.v14n1.p130-137	
	5.	Susantini E, Puspitawati RP, Prastiwi MS, Bashri A, Rahayu DA. Pendampingan penyusunan soal kognitif menggunakan multiplatform (Assessment Link-Quiziz) bagi guru biologi Kabupaten Tuban. Jurnal ABDI: Media Pengabdian Kepada Masyarakat. 2025;10(2):161–168. doi:10.26740/abdi.v10i2.27888	
	6.	Puspitawati RP, Afnan MZ. Kontribusi Merdeka Belajar Kampus Merdeka (MBKM) terhadap capaian prodi pendidikan biologi. Journal of Innovation and Technology in MBKM. 2024;1(1):9–12.	
	7.	Salsinha YCF, Puspitawati RP, Purwestri YA, et al. Exogenous-osmoprotectant of Casuarina equisetifolia leaf extract enhancing the root anatomical adaptations of Indonesian local rice under drought. J Crop Sci Biotechnol. 2024;27:535–547. doi:10.1007/s12892-024-00249-0	

	8. Afnan MZ, Puspitawati RP. Mangrove roots learning contextuality through augmented reality to train spatial thinking ability. AIP Conf Proc. 2024;3116(1):060038. doi:10.1063/5.0210443 9. Puspitawati RP, Rachmadiarti F, Budijastuti W, Isnawati I, Ambarwati R, Yakub P, Tejamukti I. Response of training participants in preparation of argumentative questions to train HOTS in Davao Indonesian school teachers. J Community Serv Empowerment. 2024;5(1):85–93. doi:10.22219/jcse.v5i1.31149 10. Dwi Octavia N, Puspitawati RP, Bashri A. Characteristics of anatomical structure and essential oil glands of leaf peppermint (<i>Mentha piperita</i>) and spearmint (<i>Mentha spicata</i>). J World Sci. 2023;2(9):1314–1329. doi:10.58344/jws.v2i9.413 11. Rahayu DA, Ambarwati R, Isnawati I, Puspitawati RP, Kuswanti N. Pelatihan online pembuatan Nyi Jemarut (kombinasi kunyit, jeruk purut, dan madu) untuk meningkatkan imunitas keluarga di masa pandemi Covid-19. Jurnal ABDI: Media Pengabdian Kepada Masyarakat. 2022;8(1):1–7. doi:10.26740/abdi.v8i1.11098 12. Susantini E, Puspitawati RP, Raharjo, et al. E-book of metacognitive learning strategies: Design and implementation to activate student's self-regulation. Res Pract Technol Enhanc Learn (RPTEL). 2021;16:13. doi:10.1186/s41039-021-00161-z 13. Yakub P, Puspitawati RP, Bashri A. Developing analytical skills through optimizing the learning process by science teachers in Nganjuk Regency. J Community Serv Empowerment. 2021;2(2):77–82. doi:10.22219/jcse.v2i2.16750 14. Suprpto N, Sukarmin S, Puspitawati RP, Erman E, Savitri D, Ku CH, Mubarak H. Research trend on TPACK through bibliometric analysis (2015–2019). Int J Eval Res Educ. 2021;10(4):1375–1385.		
Activities in sepecialist bodies over the last 5 years	Organization	Role	Period
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*Membership without a specific role need not be mentioned			