

STAFF HANDBOOK

(CURRICULUM VITAE)



Bachelor of Bioprocess Engineering Study Programme
Department of Agricultural Engineering
UNIVERSITAS BRAWIJAYA

Full-time lecturers of Bachelor of Bioprocess Engineering Study Programme

No	Name	Employee ID Number	Academic Degree
1	Dr.Ir. BAMBANG DWI ARGO, DEA.	196107101986011001	Associate Professor
2	WAHYUNANTO AGUNG NUGROHO, STP., M.Eng.	197903212005011002	Assistant Professor
3	Dr.Ir. ANANG LASTRIYANTO, M.Si.	196210041990021001	Assistant Professor
4	Dr.. MOCHAMAD BAGUS HERMANTO, STP., MSc.	198208052005011003	Assistant Professor
5	Dr. YUSUF WIBISONO, S.TP., M.Sc.	198001072002121003	Assistant Professor
6	YUSRON SUGIARTO, STP., MP.	198402012012121002	Assistant Professor
7	SHINTA ROSALIA DEWI, S.Si., M.Sc.	2012018612182001	Assistant Professor
8	NI`MATUL IZZA, STP., M.T	2014118908302001	Assistant Professor
9	DINA WAHYU INDRIANI, S.T.P., M.Sc.	2013048712112001	Assistant Professor
10	ANGKY WAHYU PUTRANTO, S.TP., M.P.	199004092015041003	Assistant Professor
11	DIMAS FIRMANDA AL RIZA, ST., M.Sc., Ph.D..	198412142014041003	Assistant Professor
12	INGGIT KRESNA MAHARSIH, S.T., M.Sc.*)	199305012020122017	Lecturer

*)New lecturer in the BBE study program in 2021

Name	Dr. Ir. Bambang Dwi Argo, DEA.		
Position	<i>Teaching area: Control System, and Renewable Energy, Associate Professor in Bachelor of Bioprocess Engineering Study Programme</i>		
Academic career	Initial academic appointment	<i>Agricultural Engineering Department, Universitas Brawijaya, Indonesia</i>	<i>1986</i>
	Doctoral degree	<i>Energy System Enggining Department, INSA Toulouse, France</i>	<i>1990</i>
	Master degree	<i>Energy System Enggining Department, Univ de Perpignan, France</i>	<i>1989</i>
	Undergraduate degree	<i>Agriculture Engineering Department, Bogor Agricultural Institute, Indonesia</i>	<i>1980</i>
Employment	Lecturer	<i>Agricultural Engineering Department, Universitas Brawijaya, Indonesia</i>	<i>1986- Now</i>
Research and development projects over the last 5 years			
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	<ul style="list-style-type: none"> -<i>Trans-esterification compact reactors for biodiesel production based micro-wave, 2007</i> -<i>Biodiesel washer machine with water spraying system in oil, 2011</i> -<i>Batch type supercritical reactors for biodiesel production, 2011</i> -<i>Laboratory scale spray dryer model, 2011</i> -<i>Swing system vacuum fryer machine, 2011</i> -<i>Experimental dryer machine type exdry 51, 2011</i> -<i>Method of spreading the walls of glandular cells tricoma leaf of patchouli essence using a typical electric field, 2015</i> 		
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. 25 papers:</i></p> <ul style="list-style-type: none"> - BD Argo, U Ubaidillah. 2020. <i>Thin-layer drying of cassava chips in multipurpose convective tray dryer: Energy and exergy analyses. Journal of Mechanical Science and Technology 34 (1), 435-442</i> - BD Argo, Y Hendrawan, U Ubaidillah. 2019. <i>A fuzzy micro-climate controller for small indoor aeroponics systems . TELKOMNIKA 17 (6), 3019-3026</i> - BD Argo, S Sandra, U Ubaidillah. 2018 <i>Mathematical modeling on the thin layer drying kinetics of cassava chips in a multipurpose convective-type tray dryer heated by a gas burner. Journal of Mechanical Science and Technology 32 (7), 3427-3435</i> 		

Activities in specialist
bodies over the last 5
years

*Director of Central Laboratory of Science and Engineering,
Universitas Brawijaya, 2021*

Name	Wahyunanto Agung Nugroho, STP, M. Eng, PhD		
Position	<i>Teaching area: Microbial Process Engineering, Assistant professor in Bachelor of Bioprocess Engineering Study Programme</i>		
Academic career	Initial academic appointment	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2005</i>
	Doctoral degree	<i>Chemical and Biological Engineering, University of Sheffield, United Kingdom</i>	<i>2021</i>
	Master degree	<i>Environmental Engineering, The University of Queensland, Australia</i>	<i>2008</i>
	Undergraduate degree	<i>Agricultural Engineering, Institut Pertanian Bogor (IPB), Indonesia</i>	<i>2002</i>
Employment	Lecturer	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2005-Now</i>
Research and development projects over the last 5 years	Production supervisor	<i>Kelola Mina Laut, Ltd</i>	<i>2003-2005</i>
Research and development projects over the last 5 years	<ul style="list-style-type: none"> - <i>Enhancement of methane production I anaerobic digestion of food waste by implementing CO₂ microbubble</i> - <i>Pre-treatment of Miscanthus sp using physico-chemical methods</i> - <i>Culturing microalgae using landfill leachate as the growth media in photobioreactor</i> - <i>Ammonia removal from landfill leachate using hot microbubble</i> 		
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> - <i>Perlemax Ltd</i> - <i>Viridor, UK</i> - 		
Patents and proprietary rights	-		
Important publications over the last 5 years	<p>Wibisono, Y., Nugroho, W.A., Devianto, L.A., Sulianto, A.A., Bilad, M.R. Microalgae in Food-Energy-Water Nexus: A Review on Progress of Forward Osmosis Applications. 2019. Membranes 9(12):166.</p> <p>Lutfi, M., Nugroho, W.A., Fridayestu, W.P., Susilo, B., Sandra, S. Bioflocculation of two species of microalgae by exopolysaccharide of bacillus subtilis. 2019. Nature Environment and Pollution Technology 18(1):167-173.</p> <p>Anugroho, F., Lutfi, M., Nugroho, WA. Appropriate technology for community; recycling of plastic trash in Ponorogo. 2017. Journal of Innovation and Applied Technology 3(2):476-485.</p> <p>Nugroho, WA., Lutfi, M., Susilo, B., Promoting the Growth of <i>Chlorella vulgaris</i> in Secondary Wastewater Treatment Effluent of Tofu Industry</p>		

	using <i>Azospirillum sp.</i> 2016. International Journal on Advanced Science Engineering and Information Technology. 6(3):289.
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Name	Dr.Ir. ANANG LASTRIYANTO, M.Si		
Position	<i>Teaching area: Bioprocess Technology, and Energy Conversion, Assistant professor in Bachelor of Bioprocess Engineering Study Programme</i>		
Academic career	Initial academic appointment	<i>Agricultural Engineering Department, Universitas Brawijaya, Indonesia</i>	<i>1990</i>
	Doctoral degree	<i>Mechanical Engineering Department, Universitas Brawijaya, Indonesia</i>	<i>2014</i>
	Master degree	<i>Agriculture Engineering Department, Bogor Agricultural Institute, Indonesia</i>	<i>1998</i>
	Undergraduate degree	<i>Agrotechnology Department, Universitas Brawijaya, Indonesia</i>	<i>1982</i>
Employment	Lecturer	<i>Agricultural Engineering Department, Universitas Brawijaya, Indonesia</i>	<i>1990- Now</i>
Research and development projects over the last 5 years	<ul style="list-style-type: none"> - <i>Increased Productivity of Malang Batu apples throughout the season in facing the free market by using a drip irrigation design (trickle) and organic fertilizers, 2019, 191.34 M IDR</i> - <i>LPDP Kemenkeu RI – Riset Inovatif Produktif (RISPRO) Terkait Pengembangan Berbagai Jenis Teknologi Perlebahan Sebagai Material Fungsional Untuk Peningkatan Daya Saing Bahan Baku Industri Nasional dan Ekspor, 2019</i> - <i>Doktor Mengabdi 2018 - Pengembangan Potensi Agroindustri Khas Daerah dan Pemberdayaan Masyarakat Di Wilayah Perbatasan Nusa Tenggara Timur</i> - <i>Doktor Mengabdi 2019 - Implementasi Perbaikan Teknologi Pengolahan Hasil Laut di Pulau Nuse NTT, Kawasan Terluar Indonesia Timur</i> - <i>Doktor Mengabdi 2020 - Implementasi Perbaikan Teknologi Pengolahan Hasil Laut di Pulau Nuse NTT, Kawasan Terluar Indonesia Timur</i> 		
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> - <i>PUPT RISTEK DIKTI – Ministry of Research and Technology of the Republic of Indonesia, 2019</i> - <i>PT KEMBANG JOYO SRIWIJAYA - LPDP Kemenkeu RI – Riset Inovatif Produktif (RISPRO) Terkait Pengembangan Berbagai Jenis Teknologi Perlebahan Sebagai Material Fungsional Untuk Peningkatan Daya Saing Bahan Baku Industri Nasional dan Ekspor, 2019</i> - <i>Development Vacuum Frying Technology in Small and Medium Enterprise For Bananas Chips Processing. 2020</i> 		
Patents and proprietary rights	<ul style="list-style-type: none"> - <i>Vacuum frying machine type horizontal jet air system, 2001</i> - <i>OHMIC heating technology in food processing process, 2016</i> - <i>Technology of vacuum evaporation without heat moving media, 2016</i> - <i>Method of giving water drops on plant irrigation system of apple, 2018</i> 		

<p>Activities in specialist bodies over the last 5 years</p>	<p><i>Reviewer for Journal of Loss Prevention in The Process Industries</i> - Condition Monitoring of Subsea Pipelines Considering Stress Observation and Structural Deterioration, 2017 - The method for leakage detection of urban natural gas pipeline based on the improved ITA and ALO, 2021</p>
<p>Important publications over the last 5 years</p>	<p><i>Selected recent publications from a total of approx. 11 papers:</i> - A Lastriyanto, SA Wibowo, E Erwan, F Jaya, J Batoro, D Masyithoh. 2020. Moisture Reduction of Honey in Dehumidification and Evaporation Processes. <i>Journal of Mechanical Engineering Science and Technology (JMEST)</i> 4 (2), 153-163 - A Lastriyanto, AA Kartika. 2020 <i>Innovation Of Propolis Extraction Machine Based On Vacuum Resistive Heating. Journal of Physics: Conference Series</i> 1665 (1), 012012 - AA Kartika, A Lastriyanto , 2020, Propolis Extraction Using Vacuum Resistive Heating Method, <i>Journal of Physics: Conference Series</i> 1665 (1), 012009 - LC Hawa, A Lastriyanto, DAA Ambarwati. 2019 <i>O2 and CO2 permeability apparatus for sausage edible casing: design and performance test. Advances in Food Science, Sustainable Agriculture and Agroindustrial Engineering (AFSSAAE)</i> 2(1), 1-5</p>

Name	Dr. Mochamad Bagus Hermanto, STP., M.Sc.		
Position	<i>Secretary of Agricultural Engineering Department Assistant Professor in Bachelor of Bioprocess Engineering Study Programme</i>		
Academic career	Initial academic appointment	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2005</i>
	Doctoral degree	<i>Agricultural Sciences (Specialisation in Agricultural Technology), Universitas Brawijaya, Indonesia</i>	<i>2020</i>
	Master degree	<i>Agricultural and Bioresource Engineering, Wageningen University, The Netherlands</i>	<i>2009</i>
	Undergraduate degree	<i>Agricultural Engineering, Institut Pertanian Bogor (IPB), Indonesia</i>	<i>2004</i>
Employment	Lecturer	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2005-Now</i>
Research and development projects over the last 5 years	<ul style="list-style-type: none"> - <i>Design and Implementation of Porang Chip Milling by using Ball Mill , 2012-2020</i> - <i>Design of pilot plant scale for porang flour production, 2016-2020</i> 		
Industry collaborations over the last 5 years	<i>-PT Kappa Caarragenan Nusantara (KCN) as Industrial Partner for Porang Flour Production</i>		
Patents and proprietary rights	<ul style="list-style-type: none"> - <i>Ball mill for Porang Chip Milling(2014)</i> - <i>Continuous Porang Chip Flour Mill (2017)</i> - <i>Methods of Biodegradable Plastic Production from Walur Comb (2020)</i> 		
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. 30 papers:</i></p> <ul style="list-style-type: none"> - <i>Rafianto, V., Djoyowasito, G., Hermanto, M.B. and Wibisono, Y., 2021. Pendugaan Reduksi Ukuran Berbasis Model Algoritma Perhitungan Balik pada Penepungan Cangkang Rajungan Menggunakan Ball-Mill. Jurnal Ilmiah Rekayasa Pertanian dan Biosistem, 9(1): 66-75.</i> - <i>Hermanto, M.B., Widjanarko, S.B., Suprpto, W. and Suryanto, A., 2019. The Design and Performance of Continuous Porang (Amorphophallus muelleri Blume) Flour Mills. International Journal on Advanced Science, Engineering and Information Technology, 9(6): 2021-2027.</i> - <i>Hermanto, M.B., Widjanarko, S.B., Suprpto, W. and Suryanto, A., 2019. Parameter estimation for porang (Amorphophallus muelleri Blume) chips milling by using a batch type of ball mills, IOP Conference Series: Materials Science and Engineering. IOP Publishing, pp. 032015.</i> 		
Activities in specialist bodies over the last 5 years	<i>- As a researcher in Porang Research Centre in Universitas Brawijaya</i>		

Name	Dr. Yusuf Wibisono, STP., M.Sc.		
Position	<i>Teaching area: Biomaterials and Membrane Processes</i> <i>Assistant Professor in Bachelor of Bioprocess Engineering Study Programme</i>		
Academic career	Initial academic appointment	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2002</i>
	Doctoral degree	<i>Chemical Engineering, University of Twente, The Netherlands</i>	<i>2014</i>
	Master degree	<i>Materials and Chemical Engineering, Chung Yuan Christian University, Taiwan</i>	<i>2009</i>
	Undergraduate degree	<i>Agricultural and Biosystem Engineering, IPB University, Indonesia</i>	<i>2002</i>
Employment	Lecturer	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2002-Now</i>
	Researcher	<i>KWR Watercycle Research Institute and Wetsus, European Centre of Excellence for Sustainable Water Technology</i>	<i>2010-2014</i>
Research and development projects over the last 5 years	<ul style="list-style-type: none"> - <i>Development of mixed matrix membrane with biofouling reducer agents for juice clarification, 2017-2018, 220M IDR</i> - <i>Design of membrane plate-and-frame using natural antibiofoulant phenolic powder for juice clarification and concentration, 2019-2021, 487M IDR</i> - <i>Forward osmosis fertigation for saline rice field, 2019-2021, 562 IDR</i> - <i>Fabrication of bioceramic membrane for oligosaccharide separation of goat milk, 2019-2021, 196M IDR</i> - <i>Anti-algal surface engineered by using charged hydrophilic polymer for multipurposes in aqueous systems, 300K JPY</i> 		
Industry collaborations over the last 5 years	<i>Development of demineralized water instrument – PT. Mili Water</i>		
Patents and proprietary rights	<ul style="list-style-type: none"> - <i>Mixed matrix membrane with natural biofouling reducer agents</i> - <i>Nanoparticle hydroxyapatite derived from fish scales for slow-release fertilizer</i> 		
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. 60 articles:</i></p> <ul style="list-style-type: none"> - Y Wibisono, MR Bilad. 2020. <u><i>Design of forward osmosis system</i></u>, in Current Trends and Future Developments on (Bio-) Membranes: Reverse and Forward Osmosis: Principles, Book published by Elsevier - Y Wibisono, CR Fadila, S Saiful, MR Bilad. 2020. <u><i>Facile approaches of polymeric face masks reuse and reinforcements for micro-aerosol droplets and viruses filtration: A review.</i></u> <i>Polymers 12 (5) (MDPI, Q1, SCI Impact Factor: 3.426)</i> - Y Wibisono, WA Nugroho, LA Devianto, AA Sulianto, MR Bilad. 2019. <u><i>Microalgae in food-energy-water nexus: A review on progress</i></u> 		

	<i>of forward osmosis applications. Membranes 9 (12) (MDPI, SCI Impact Factor: 3.094)</i>
Activities in specialist bodies over the last 5 years	- Korean Society for Agricultural Machinery (KSAM) – selected as Editor Board of official journal of the society (<i>Journal of Biosystems Engineering</i>), url: https://www.springer.com/journal/42853/editors

Name	<i>Yusron Sugiarto, STP., MP., M.Sc.</i>		
Position	<i>Teaching area: Chemical Engineering Assistant professor in Bachelor of Bioprocess Engineering Study Programme</i>		
Academic career	Initial academic appointment	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2011</i>
	Doctoral degree	<i>Chemical Engineering, University of Western Australia</i>	<i>2021</i>
	Master degree	<i>Double degree</i>	<i>2011</i>
		- <i>Biotechnology, King Mongkut's University of Technology Thonburi, Thailand</i>	
		- <i>Industrial Biotechnology, Universitas Brawijaya, Indonesia</i>	
	Undergraduate degree	<i>Agricultural Engineering, Universitas Brawijaya, Indonesia</i>	<i>2007</i>
Employment	Lecturer	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2011- Now</i>
Research and development projects over the last 5 years	- <i>Effect of biochar addition in enhancing hydrogen and ethane production via anaerobic digestion, 2017-2021</i>		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. 30 papers:</i></p> <ul style="list-style-type: none"> - Sugiarto, Y., Sunyoto, N.M.S., Zhu, M., Jones, I., Zhang, D., 2021. <i>Effect of biochar addition on microbial community and methane production during anaerobic digestion of food wastes: The role of minerals in biochar. Bioresour. Technol. 323, 124585.</i> https://doi.org/10.1016/j.biortech.2020.124585 (Elsevier, SCI Impact Factor: 7.539) - Sugiarto, Y., Sunyoto, N.M.S., Zhu, M., Jones, I., Zhang, D., 2021. <i>Effect of biochar in enhancing hydrogen production by mesophilic anaerobic digestion of food wastes: The role of minerals. Int. J. Hydrogen Energy 46, 3695–3703.</i> https://doi.org/10.1016/j.ijhydene.2020.10.256 (Elsevier, SCI Impact Factor: 4.939) <p>-</p>		

Activities in specialist bodies over the last 5 years

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Name	Shinta Rosalia Dewi, S.Si, M.Sc		
Position	<i>Teaching area: Food chemistry</i> <i>Associate prof. in Bachelor of Bioprocess Engineering Study Programme</i>		
Academic career	Initial academic appointment	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2012</i>
	Master degree	<i>Chemistry, Universitas Gadjah Mada, Indonesia</i>	<i>2010</i>
	Undergraduate degree	<i>Chemistry, Universitas Gadjah Mada, Indonesia</i>	<i>2008</i>
Employment	Lecturer	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2012-Present</i>
Research and development projects over the last 5 years	- <i>Development of Mixed Matrix Membranes with Natural Biofouling Reducer Agent as Filler in Fruit Juice Ultrafiltration (2017-2018)</i> -		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	1. -		
Important publications over the last 5 years	<i>Selected recent publications from a total of approx. 20 papers:</i> - <i>Y.Wibisono, S. Rachmawati, V. Mylani, N. Izza, A. Putranto, S. Dewi, Synthesis of anti-biofoulant green nanoparticles embedded cellulose acetate membranes, Proceedings 2020, 4, x; doi: FOR PEER REVIEW</i> - <i>S.R. Dewi, N. Sumarni, N. Izza, A.W. Putranto, B. Susilo, Study of Pulsed Electric Field Strength and Drying Method on Antioxidant of Torbangun (Coleus amboinicus L.) Extract, Jurnal Keteknik Pertanian 7 (1), 2019, 91-98</i> - <i>A.W. Putranto, S.R. Dewi, N. Izza, D.R. Yuneri, M.Y.S. Dachi, S.H. Sumarlan, Ekstraksi senyawa fenolik daun kenikir (Cosmos caudatus) menggunakan Microwave Assisted Extraction (MAE), Rona Teknik Pertanian 11 (1), 2018, 59-70</i>		
Activities in specialist bodies over the last 5 years	-		

Name	Ni`matul Izza, STP. MT
Position	<i>Teaching area: Material science Lecturer in Agricultural Engineering Homebase: Bachelor of Bioprocess Engineering Study Programme</i>
Academic career	<p>Initial academic appointment Agricultural Engineering 2014 Department, Universitas Brawijaya</p> <p>Doctoral degree Material Science and Engineering, 2019- Osaka University, Japan now</p> <p>Master degree Chemical Engineering, Universitas 2014 Indonesia, Indonesia</p> <p>Undergraduate degree Agricultural Engineering, 2011 Universitas Brawijaya, Indonesia</p>
Employment	Lecturer Agricultural Engineering 2014- Department, Universitas Brawijaya Now
Research and development projects over the last 5 years	<ul style="list-style-type: none"> - <i>Designing Plate-and-Frame Membrane-Based Fruit Juice Clarification and Concentration Tool with Natural Anti-Biofouling Phenolic Powder (NAPP), 2019-2021, 500M IDR</i> - <i>Extraction of Phenolic Compounds from Torbangun Leaves as an Ingredients for Breast-milk Booster, 2018, 20M IDR</i> - <i>Production of Fuel Grade Ethanol (FGE) from Fermented Molasse using Integrated Distillation and Adsorption System (I-DAS), 2018, 198M IDR</i> <p><i>Synthesis of Poly-eter sulfone-b-Poly ethylene glycol (PES-b-PEG) Block-copolymer for Fruit Juice Ultrafiltration, 2017, 27M IDR</i></p>
Industry collaborations over the last 5 years	-
Patents and proprietary rights	- <i>Fuel Grade Ethanol (FGE) Processing using Integrated Distillation-Adsorption System (2019)</i>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. 15 papers:</i></p> <ul style="list-style-type: none"> - N Izza, K Suga, Y Okamoto, N Watanabe, TT Bui, Y wibisono, CR Fadila, H Umakoshi. 2021. <u>Systematic Characterization of Nanostructured Lipid Carriers from Cetyl Palmitate/Caprylic Triglyceride/Tween 80 Mixtures in an Aqueous Environment.</u> <i>Langmuir</i>. 37. (ACS Publisher, SCI IF: 3.557) - PAR Utoro, A Sukoyo. S Sandra, N Izza, SR Dewi, Y Wibisono. 2019. <u>High-throughput microfiltration membranes with natural biofouling reducer agent for food processing.</u> <i>Processes</i>. 7 (1). (MDPI, SCI IF: 2.753) - N Izza, SR Dewi, A Setyanda, A Sukoyo, P Utoro, DF Alriza, Y Wibisono. 2018. <u>Microwave-assisted extraction of phenolic compounds from Moringa oleifera seed as anti-biofouling agents in membrane processes.</u> <i>MATEC Web Conferences</i>.
Activities in specialist bodies over the last 5 years	-

Name	Dina Wahyu Indriani, S.TP., M.Sc.		
Position	<i>Teaching area: Biomaterial and Bioseparation, Assistant professor in Bachelor of Bioprocess Engineering Study Programme</i>		
Academic career	Initial academic appointment	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2013</i>
	Master degree	<i>Chemical Engineering Department, Chung Yuan Christian University Taiwan</i>	<i>2012</i>
	Undergraduate degree	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2010</i>
Employment	Lecturer	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2013- Now</i>
	Research scholar	<i>Separation Technology Laboratory, Chung Yuan Christian University, Taiwan</i>	<i>2010- 2012</i>
Research and development projects over the last 5 years	<ul style="list-style-type: none"> - <i>Nitrogen Enkapsulation To Increase Nutrition Adsorption In Rice Plants (Oryza sativa L.), 2016- 2019, 474M IDR</i> - <i>Immobilization Of Slow Release Absorption Fertilizer Capsules To Improve Nutrition In Rice Plants (Oryza Sativa L.), 2020, 25M IDR</i> 		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. 30 papers:</i></p> <ul style="list-style-type: none"> - DW Indriani, SH Sumarlan, S Munawaroh. 2019. <u>Physicochemical Characterization Of Biodegradable Plastic From Uwi Tuber Starch (Dioscorea Alata) with Sorbitol and CMC (Carboxymethyl Cellulose) As Plasticizer Addition.</u> <i>Journal of Environmental Engineering and Sustainable Technology. Vol 6, No 2, 57-65</i> - N Barunawati, DW Indriani, SH Sumarlan. 2019. <u>N-Encapsulation Maintain Yield of Rice (Oryza sativa L.) Under Drought Condition.</u> <i>AGRIVITA, Journal of Agricultural Science, 41 (1), 97-106 (International Scientific Indexing Impact Factor: 1.259)</i> - DW Indriani, N Barunawati, SH Sumarlan. 2019. <u>Silica Extraction From Rice Husk as Slow Release Fertilizer using Microwave Assisted Extraction</u> <i>Russian Journal of Agricultural And Socio Economic Sciences 12 (96), 194- 200. (Index Copernicus International)</i> 		
Activities in specialist bodies over the last 5 years	-		

Name	Angky Wahyu Putranto, STP, MP		
Position	<i>Teaching area: Design and Optimization process and non-thermal technology</i> <i>Assistant professor in Bachelor of Bioprocess Engineering Study Programme</i>		
Academic career	Initial academic appointment	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2015</i>
	Doctoral degree	-	
	Master degree	<i>Agroindustrial Technology, Universitas Brawijaya, Indonesia</i>	<i>2014</i>
	Undergraduate degree	<i>Agricultural Engineering, Universitas Brawijaya, Indonesia</i>	<i>2012</i>
Employment	Lecturer	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2015- Now</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <i>1. Optimization of Glucose Fermentation Process and Purification of Bioethanol from Rice Straw (Oryza sativa) as Environmentally Friendly Fuels, 2016, 75M IDR</i> <i>2. Design of Pre-treatment Machine for Cellulose from Biomass Waste Based on Hybrid Non-Thermal Technology, 2018, 25M IDR</i> <i>3. Designing Plate-and-Frame Membrane-Based Fruit Juice Clarification and Concentration Tool with Natural Anti-Biofouling Phenolic Powder (NAPP), 2019-2021, 500M IDR</i> <i>4. Design of Non-Thermal Pasteurization Machines in the Milk Processing Process Supplemented Collagen, 2021, 20M IDR</i> - <i>Vacuum Impregnation Applications Enriched Dried Papaya Fruit Products Calcium Lactate, 2021, 25M IDR</i>		
Industry collaborations over the last 5 years	<i>Project title : Technology Delignification Using Non Thermal Physico-Chemical in Biomass Waste</i> <i>Partners : PT. Pertamina (State Oil and Gas Mining COMPANY)</i>		
Patents and proprietary rights	<ol style="list-style-type: none"> <i>1. Antioxidant extraction machines from natural materials using high voltage electric pulse – 2020</i> <i>2. Composite membrane with natural antibiofouling nanoparticles phenolic extract of olive leaves - 2020</i> 		
Important publications over the last 5 years	<i>Selected recent publications from a total of approx. 36 papers:</i> <ol style="list-style-type: none"> <i>1. AW Putranto, SH Abida, K Adrebi, A Harianti. 2020. Lignocellulosic Analysis of Corncob Biomass by Using Non-Thermal Pulsed Electric Field-NaOH Pretreatment, Reaktor, 20(4), 183-191</i> <i>2. AW Putranto, FP Puspaningrum, Sukardi. 2020. The cyclone separator application on physicochemical characterization of coconut shell-liquid smoke grade C. <i>Advances in Food Science, Sustainable Agriculture and Agroindustrial Engineering</i>, 3(2), 68-74</i> - <i>AW Putranto, SR Dewi, Y Puspitasari, FA Nuriah. 2018. Optimization of free radical scavenging capacity and pH of <i>Hylocereus polyrhizus</i> peel by Response Surface Methodology,</i>		

	<i>IOP Conference Series: Earth and Environmental Science, 131, 012051</i>
Activities in specialist bodies over the last 5 years	-

Name	<i>Dr.Agr.Sc. Dimas Firmanda Al Riza, ST., M.Sc.</i>		
Position	<i>Teaching area: Bio-instrumentation and control, Assistant professor in Bachelor of Bioprocess Engineering Study Programme</i>		
Academic career	Initial academic appointment	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2012</i>
	Doctoral degree	<i>Bio-sensing Engineering, Kyoto University, Japan</i>	<i>2019</i>
	Master degree	<i>Mechanical Engineering, Universiti Teknologi PETRONAS, Malaysia</i>	<i>2011</i>
	Undergraduate degree	<i>Engineering Physics, Institut Teknologi Sepuluh Nopember, Indonesia</i>	<i>2008</i>
Employment	Lecturer	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2012-Now</i>
	Postdoctoral scholar	<i>Bio-sensing Engineering, Kyoto University, Japan</i>	<i>2019-2020</i>
	Engineer	<i>Gerbang Multindo Nusantara Co.Ltd., Jakarta, Indonesia</i>	<i>2008</i>
Research and development projects over the last 5 years	<ul style="list-style-type: none"> - <i>AI implementation in antioxidant prediction model of leaf using machine vision and fluorescence, 2020, 50M IDR</i> - <i>Development of portable monitoring and evaluation of Citrus Orchard based on computer vision and AI, 2021, 25M IDR</i> - <i>Development of Cacao (Theobroma cacao) Fermentation Level Prediction System Prototype based on Computer Vision and AI, 2021, 25 IDR</i> 		
Industry collaborations over the last 5 years	<i>Myanmar Mango Quality Evaluation – Kyoto University, Yukioo Co.Ltd.</i>		
Patents and proprietary rights	- -		
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. 30 papers:</i></p> <ul style="list-style-type: none"> - DF Al Riza, N Kondo, VK Rotich, C Perone, F Giametta. 2021. <i>Cultivar and geographical origin authentication of Italian extra virgin olive oil using front-face fluorescence spectroscopy and chemometrics. Food Control 121, 107604 (Elsevier, SCI Impact Factor: 4.258)</i> - DF Al Riza, S Widodo, YA Purwanto, N Kondo. 2019. <i>Combined fluorescence-transmittance imaging system for geographical authentication of patchouli oil. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 218, 155-160 (Elsevier, SCI Impact Factor: 3.232)</i> - DF Al Riza, S Widodo, YA Purwanto, N Kondo. 2019. <i>Authentication of the geographical origin of patchouli oil using front-face fluorescence spectroscopy and chemometric analysis. Flavour and Fragrance Journal 34 (1), 15-20. (Wiley, SCI Impact Factor: 1.598)</i> 		

Activities in specialist bodies over the last 5 years

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Name	<i>Inggit Kresna Maharsih, S.T., M.Sc.</i>		
Position	<i>Colloid, Surface and Interface Science, Lecturer in Bachelor of Bioprocess Engineering Study Programme</i>		
Academic career	Initial academic appointment	<i>Chemical Engineering Study Programme, Institut Teknologi Kalimantan, Indonesia</i>	<i>2018</i>
	Master degree	<i>Chemical and Materials Engineering, National Central University, Taiwan</i>	<i>2017</i>
	Undergraduate degree	<i>Chemical Engineering, Universitas Brawijaya, Indonesia</i>	<i>2015</i>
Employment	<i>Lecturer</i>		
Research and development projects over the last 5 years	<i>Lecturer</i>	<i>Agricultural Engineering Department, Universitas Brawijaya, Indonesia</i>	<i>2021-now</i>
	<i>Lecturer</i>	<i>Chemical Engineering Department, Institut Teknologi Kalimantan, Indonesia</i>	<i>2018-2021</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <i>Effect of edible coating on the shelf-life of pineapple (Ananas comosus L.), 2020, 15M IDR.</i> <i>Synthesis of WO₃/TiO₂ photocatalyst as an alternative for organic pollutant handling in Limbah Industri Tekstil Batu Ampar, Balikpapan, 2019, 15.6M IDR.</i> <p><i>Capillary interactions between droplets and ideal roughness: attractive protrusion and repulsive trench, 2016.</i></p>		
Industry collaborations over the last 5 years	<i>Utilization of shrimp shell waste for mud crab feed, Chemical Engineering Department, Institut Teknologi Kalimantan – Pertamina Hulu Mahakam</i>		
Patents and proprietary rights	-		
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. 5 publications:</i></p> <ol style="list-style-type: none"> <i>R Wahyuono, L Ernawati, IK Maharsih, N Widiastuti, H Widiyandari. 2019. Mesoporous WO₃/TiO₂ nanocomposites photocatalyst for rapid degradation of methylene blue in aqueous medium. International Journal of Engineering 32 (10), 1345-1352 (Materials and Energy Research Center, SCI impact factor: 0.765).</i> <i>YE Liang, IK Maharsih, YJ Sheng, HK Tsao. 2019. Capillary interactions between droplets and ideal roughness: attractive protrusion and repulsive trench. Experimental Thermal and Fluid Science 105, 216-222 (Elsevier, SCI impact factor: 3.444).</i> 		