

# **STAFF HANDBOOK**

**(CURRICULUM VITAE)**



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

## Full-time lecturers of Bachelor of Agricultural Engineering Study Programme

No	Name	Employee ID Number	Academic Degree
1	Prof.Dr.Ir. SUMARDI HS., MS.	195401121980021001	Professor
2	Dr.Ir. SANDRA, MP.	196312311993031021	Associate Professor
3	LA CHOVIYA HAWA, STP., MP, Ph.D.	197803072000122001	Associate Professor
4	Dr.Ir. MUSTHOFA LUTFI, MP.	196911131998021002	Associate Professor
5	Dr.Ir. BAMBANG SUSILO, M.Sc.Agr.	196207191987011001	Associate Professor
6	Ir. EKOYANTO PUDJIONO, M.Eng.Sc.	195601161983031002	Associate Professor
7	YUSUF HENDRAWAN, STP., M.App.Life Sc., Ph.D	198105162003121002	Associate Professor
8	Dr. Ir Gunomo Djoyowasito, MP.	195502121981031000	Associate Professor
9	Dr.Ir. ARY MUSTOFA AHMAD, MP.	196003061986011001	Assistant Professor
10	TITIK NUR HIDAYAH, STP., M.Si	197704112003122002	Assistant Professor
11	RINI YULIANINGSIH, STP., MT., Ph.D..	197407172008122002	Assistant Professor
12	DEWI MAYA MAHARANI, S.TP., M.Sc.	198710252015042002	Assistant Professor
13	JOKO PRASETYO, STP., MSi.	2015048607301001	Assistant Professor
14	RETNO DAMAYANTI, STP., MP.	2013047608232001	Assistant Professor
15	ZAQLUL IQBAL, S.TP., M.Si.	2016079010281002	Assistant Professor
16	DANIAL FATCHURRAHMAN, STP., M.Sc.	2017058905191001	Lecturer
17	UBAIDILLAH, S.TP., M.Si.	198803272019031007	Lecturer
18	DARMANTO, ST., MT.	2014058312061001	Lecturer

<b>Name</b>	<b>Prof. Dr. Ir. Sumardi Hadi Sumarlan.,MS.</b>		
<b>Position</b>	<i>Teaching area: Food Processing and Post-Harvest Technology, Professor in Bachelor of Agricultural Engineering Study Programme</i>		
<b>Academic career</b>	<b>Initial academic appointment</b>	<i>Agricultural Engineering Department, Universitas Brawijaya, Indonesia</i>	<i>1980</i>
	<b>Doctoral degree</b>	<i>Agriculture Engineering Department, Bogor Agricultural Institute, Indonesia</i>	<i>1993</i>
	<b>Master degree</b>	<i>Agriculture Engineering Department, Bogor Agricultural Institute, Indonesia</i>	<i>1982</i>
	<b>Undergraduate degree</b>	<i>Agricultural Agronomy Department, Universitas Brawijaya, Indonesia</i>	<i>1972</i>
<b>Employment</b>	<b>Professor</b>	<i>Agricultural Engineering Department, Universitas Brawijaya, Indonesia</i>	<i>1980- Now</i>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>Encapsulation of Nitrogen to Increase Nutrient Absorption in Rice Plants (Oryza sativa L.), 2018, 115M IDR</i></li> <li>- <i>Design and Performance Test of a Modified Double Effect Evaporator for Food Material Evaporation, 2019, 100M IDR</i></li> <li>- <i>Design technology and performance test of hybrid solar collectors for drying agricultural products, 2020, 100M IDR</i></li> </ul>		
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>PUPT RISTEK DIKTI – Ministry of Research and Technology of the Republic of Indonesia, 2017-2018</i></li> <li>- <i>PNBP – Universitas Brawijaya, 2019-2020</i></li> </ul>		
<b>Patents and proprietary rights</b>	-		
<b>Important publications over the last 5 years</b>	<p><i>Selected recent publications from a total of approx. 18 papers:</i></p> <ul style="list-style-type: none"> <li>- <i>M Lutfi, SH Sumarlan, B Susilo, R Zenata, LPR Perdana. 2017. The Glycerol Effect on Mechanical Behaviour of Biodegradable Plastic from the Walur (Amorphophallus paenifolius Var. sylvestris). Nature Environment and Pollution Technology 16 (4), 1121-1124</i></li> <li>- <i>SA Mardiyani, SH Sumarlan, BD Argo, AS Laksono. 2018. Determination of physical and thermophysical characteristics of red peppers (Capsicum annum) using unsteady-state method. AIP Conference Proceedings, 1977(1):030004</i></li> <li>- <i>SA Mardiyani, SH Sumarlan, BD Argo, AS Leksono. 2019. Design of Eco-friendly Fixed Bed Dryer Based on A Combination of Solar Collector and Photovoltaic Module. Nature Environment &amp; Pollution Technology 18(1), 21-30.</i></li> <li>- <i>Y Hendrawan, AH Putra, SH Sumarlan, G Djoyowasito. 2020. Plant acoustic frequency technology control system to increase vegetative growth in red-lettuce. TELKOMNIKA 18 (4), 2042-2052</i></li> </ul>		

	- I Sofi'i, <b>SH Sumarlan</b> , Wignyanto, B Susilo. 2017. <i>Combination of high electric voltage (hey) and nacl as assisted extraction methods for Nannochloropsis sp.</i> BIOSCIENCE RESEARCH 14 (2), 386-394
Activities in specialist bodies over the last 5 years	-

<b>Name</b>	<b>Dr. Ir. Sandra Malin Sutan, MP.</b>		
<b>Position</b>	<i>Teaching area: Post Harvest Engineering, Food Process Engineering and Technology</i> <i>Associate Professor in Bachelor of Agricultural Engineering Study Programme</i>		
<b>Academic career</b>	<b>Initial academic appointment</b>	<i>Agricultural Engineering Department, Andalas University, Indonesia</i>	<i>1993</i>
	<b>Doctoral degree</b>	<i>Agriculture Engineering Department, Bogor Agricultural Institute, Indonesia</i>	<i>2007</i>
	<b>Master degree</b>	<i>Post Harvest Engineering Department, Universitas Brawijaya, Indonesia</i>	<i>1998</i>
	<b>Undergraduate degree</b>	<i>Agriculture Engineering Department, Andalas University, Indonesia</i>	<i>1989</i>
<b>Employment</b>	<b>Lecturer</b>	<i>Agricultural Engineering Department, Universitas Brawijaya, Indonesia</i>	<i>1993-2014</i> <i>andalas</i> <i>Now</i>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>Increasing Calories of Briquettes and Biopellets with Cocoa Shell Raw Materials Using Densification Processes and Water Heating Systems, 2017-2018, 100M IDR</i></li> <li>- <i>Prediction of Vitamin C Content of Tomatoes Based on Image Processing Using Artificial Neural Network Methods, 2019, 20M IDR</i></li> <li>- <i>Design and build a thin skinned fruit and vegetable peeler using the Lye Peeling method, 2020, 50 IDR</i></li> <li>- <i>Semi-Automatic Coconut Milk Squeezer Machine Engineering, 2020, 4M IDR</i></li> </ul>		
<b>Industry collaborations over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>PUPT RISTEK DIKTI – Ministry of Research and Technology of the Republic of Indonesia, 2017-2018</i></li> </ul>		
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>- <i>Processing of biopellets from cocoa leather (Theobroma cacao) and banana leather (Musa paradisiacica L.), 2018</i></li> <li>- <i>Horizontal type of biopellet printer lab scale, 2018</i></li> <li>- <i>biopellet from cocoa leather with addition of rice straw charcoal, 2019</i></li> <li>- <i>Coconut maturity detection using machine vision</i></li> </ul>		
<b>Important publications over the last 5 years</b>	<p><i>Selected recent publications from a total of approx. 37 papers:</i></p> <ul style="list-style-type: none"> <li>- <b>Sandra, R Damayanti, Y Hendrawan, B Susilo, S Oktavia.</b> 2020. <i>Prediction of tomatoes maturity using TCS3200 color sensor. IOP Conference Series: Earth and Environmental Science 475, 012011</i></li> <li>- <b>SM Sutan, IY Prayogi, R Damayanti, G Djoyowasito.</b> 2020. <i>Design of prediction tools for banana maturity based on image</i></li> </ul>		

	<p><i>processing. IOP International Conference on Green Agroindustry and Bioeconomy 475 (1), 012010</i></p> <p>- <b>C Umam, SM Sutan, Y Hendrawan. 2019.</b> <i>Fuzzy Logic in Determining The Control Temperature and Humidity in Plant Factory for Cultivation of Pak choy (Brassica chinensis L.) Hydroponics. The Indonesian Green Technology Journal 8(1),</i></p>
Activities in specialist bodies over the last 5 years	-



<b>Name</b>	<b>La Choviya Hawa, STP., MP., PhD</b>		
<b>Position</b>	<i>Teaching area: Postharvest technology and food processing Associate Professor in Bachelor of Agricultural Engineering Study Programme</i>		
<b>Academic career</b>	<b>Initial academic appointment</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2000</i>
	<b>Doctoral degree</b>	<i>Bioprocess Engineering, Yamaguchi University, Japan</i>	<i>2014</i>
	<b>Master degree</b>	<i>Agricultural Engineering, Gadjah Mada University, Indonesi</i>	<i>2005</i>
	<b>Undergraduate degree</b>	<i>Agricultural Engineering, Universitas Brawijaya, Indonesia</i>	<i>1999</i>
<b>Employment</b>	<b>Lecturer</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2000- Now</i>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>Design of multipurpose dryer simulator with an integrated online measurement system to determine drying kinetics of Butterfly-pea flower (Clitoria ternatea L.), 2020, 110M IDR</i></li> <li>- <i>Drying of Cabya (piper retrofractum vahl) at different maturity phases: study of drying kinetics using the Newton-Raphson method and energy-exergy analysis, 2020, 37.5M IDR</i></li> <li>- <i>Comparative study of physical properties, phytochemical, kinetics and energy analysis of Cabya (Piper retrofractum vahl) on three drying techniques, 2019, 50M IDR</i></li> <li>- <i>Modelling of Supply Chain Risk Management for Food Agro-Industry with Inter-Island Market Oriented, 2018, 80M IDR</i></li> <li>- <i>Development of cassava dryer using machine vision (Batch 1), 2016, 75M IDR</i></li> <li>- <i>Developmet of cassava dryer using machine vision (Batch 2), 2017, 75M IDR</i></li> </ul>		
<b>Industry collaborations over the last 5 years</b>	-		
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>- <i>High voltage pulse generator with processing time and pasteurized voltage settings</i></li> <li>- <i>Tray dryer with weight loss monitoring system</i></li> <li>- <i>Weight loss measurement system for the determination of drying kinetics of agricultural products</i></li> <li>- <i>The process of making extract lerak and liquid soap from extract lerak</i></li> <li>- <i>The process of making soap bar from extract lerak</i></li> </ul>		
<b>Important publications over the last 5 years</b>	<p><i>Selected recent publications from a total of approx. 21 papers:</i></p> <ul style="list-style-type: none"> <li>- <b>LC Hawa, U Ubaidillah, SA Mardiyani, AN Laily, NIW Yosika, FA Afifah. 2021. Drying kinetics of cabya (Piper retrofractum Vahl) fruit as affected by hot water blanching under indirect forced convection solar dryer. Solar Energy 214 (Elsevier, SCI Impact Factor: 4.608)</b></li> <li>- <b>LC Hawa, U Ubaidillah, R Damayanti. Y Hendrawan. 2020. Moisture sorption isotherms of modified cassava flour during</b></li> </ul>		

	<p><i>drying and storage. Heat and Mass Transfer 56(8):2389-2396 (Spinger, SCI Impact Factor; 1.867)</i></p> <p><b>LC Hawa, U Ubaidillah, Y Wibisono. 2019. Proper model of thin layer drying curve for taro (<i>Colocasia esculenta</i> L. Schott) chips. International Food Research Journal 26(1) (Faculty of Food Science and Technology, UPM, SCI Impact Factor: 0.27)</b></p>
Activities in specialist bodies over the last 5 years	-



<b>Name</b>	<b>Dr. Ir. Musthofa Lutfi, MP.</b>												
<b>Position</b>	<i>Teaching area: Systems Engineering Associate professor and Head of Bachelor of Agricultural Engineering Study Programme</i>												
<b>Academic career</b>	<table border="0"> <tr> <td><b>Initial academic appointment</b></td> <td><i>Agricultural Engineering Department, Universitas Brawijaya</i></td> <td><i>1999</i></td> </tr> <tr> <td><b>Doctoral degree</b></td> <td><i>Agricultural Industrial Technology Universitas Brawijaya, Indonesia</i></td> <td><i>2017</i></td> </tr> <tr> <td><b>Master degree</b></td> <td><i>Agricultural Technology, Universitas Brawijaya</i></td> <td><i>1997</i></td> </tr> <tr> <td><b>Undergraduate degree</b></td> <td><i>Agricultural Technology, Universitas Brawijaya</i></td> <td><i>1992</i></td> </tr> </table>	<b>Initial academic appointment</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>1999</i>	<b>Doctoral degree</b>	<i>Agricultural Industrial Technology Universitas Brawijaya, Indonesia</i>	<i>2017</i>	<b>Master degree</b>	<i>Agricultural Technology, Universitas Brawijaya</i>	<i>1997</i>	<b>Undergraduate degree</b>	<i>Agricultural Technology, Universitas Brawijaya</i>	<i>1992</i>
<b>Initial academic appointment</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>1999</i>											
<b>Doctoral degree</b>	<i>Agricultural Industrial Technology Universitas Brawijaya, Indonesia</i>	<i>2017</i>											
<b>Master degree</b>	<i>Agricultural Technology, Universitas Brawijaya</i>	<i>1997</i>											
<b>Undergraduate degree</b>	<i>Agricultural Technology, Universitas Brawijaya</i>	<i>1992</i>											
<b>Employment</b>	<b>Lecturer</b> <i>Agricultural Engineering Department, Universitas Brawijaya</i> <i>1999- now</i>												
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>Development of Biodegradable Plastics Made from Iles-Iles (Amorphophallus Variabilis), 2019</i></li> <li>- <i>Optimization of Tuber Bioplastic from Ganyong (Canna edulis), 2020</i></li> </ul>												
<b>Industry collaborations over the last 5 years</b>	<i>Rencana Pembangunan Industri Kabupaten (RPIK) - Regency Industrial Development Plan, Pasuruan Regency Government, East Java, Indonesia (2018)</i>												
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>- <i>Methods of Biodegradable Plastic Production from Walur Comb (2020) (In Progress)</i></li> <li>- <i>Methods of Biodegradable Plastic Production from Iles-Iles Comb (2020) (In Progress)</i></li> </ul>												
<b>Important publications over the last 5 years</b>	<p><i>Selected recent publications from a total of approx. 30 papers:</i></p> <ul style="list-style-type: none"> <li>- <b>Lutfi, M., Nugroho, W.A., Vo, H.T., Djoyowasito, G., Ahmad, A. M., Sandra.</b> 2020. <i>International Journal of Agricultural and Biological Engineering</i>, 14(5):93-98.</li> <li>- <b>Lutfi, M., Nugroho, W.A., Fridayestu, W.P., Susilo, B., Pulmar, C., Sandra.</b> 2019. <i>Bioflocculation of Two Species of Microalgae by Exopolysaccharide of Bacillus subtilis. Nature Environment and Pollution Technology</i>, 18(1):167-173</li> <li>- <b>Lutfi, M., Andajani, K., Ilhamuddin, Utami, H.N.</b> 2020. <i>Appropriate technology application of traditional clove oil production, effort to up-grade quality. <a href="#">Advances in Food Science Sustainable Agriculture and Agroindustrial Engineering</a>, 3(2):75-80</i></li> </ul>												
<b>Activities in specialist bodies over the last 5 years</b>	<ol style="list-style-type: none"> <li>1. <i>Quality Assurance of Higher education</i> <ul style="list-style-type: none"> <li>- <i>Internal Assessor of AUN QA (Universitas Brawijaya, 2018-2019)</i></li> <li>- <i>Coordinator of the preparation of the document cluster C ASIIN (Universitas Brawijaya, 2019-2021)</i></li> </ul> </li> </ol>												

- |  |   |
|--|---|
|  | <ol style="list-style-type: none"><li>2. <i>Member of Japan Society Water and Environment (JSWE), Japan (2018-2021)</i></li><li>3. <i>Reviewer of EER (Environmental Engineering Research) - 2020</i></li></ol> |
|--|---|

<b>Name</b>	<b>Dr. Ir. Bambang Susilo, M.Sc.Agr.</b>		
<b>Position</b>	<i>Teaching area: Bioenergy Engineering, Agricultural Engineering, Associate Professor in Bachelor of Agricultural Engineering Study Programme</i>		
<b>Academic career</b>	<b>Initial academic appointment</b>	<i>Agricultural Engineering Department, Universitas Brawijaya, Indonesia</i>	<i>1987</i>
	<b>Doctoral degree</b>	<i>Agriculture Department, Universitas Brawijaya, Indonesia</i>	<i>2003</i>
	<b>Master degree</b>	<i>Agriculture Engineering Department, Universitaet George August Goettingen, Germany</i>	<i>1995</i>
	<b>Undergraduate degree</b>	<i>Agriculture Engineering Department, Bogor Agricultural Institute, Indonesia</i>	<i>1981</i>
<b>Employment</b>	<b>Lecturer</b>	<i>Agricultural Engineering Department, Universitas Brawijaya, Indonesia</i>	<i>1987- Now</i>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>Effect of temperature and evaporation pressure on the quality of red dragon fruit syrup (Hylocereus costaricensis) using a double jacket vacuum evaporator, 2017, 12M IDR</i></li> <li>- <i>Low Relative Humidity Drying in Red Chili Products (Capsicum annum L.), 2018, 12M IDR</i></li> <li>- <i>System design, data acquisition on controlled low-temperature drying machine for drying hybrid corn seeds, 2020, 50M IDR</i></li> </ul>		
<b>Industry collaborations over the last 5 years</b>	<i>PNBP Faculty of Agrotechology – Universitas Brawijaya, 2017-2020</i>		
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>- <i>Trans-esterification compact reactors for biodiesel production based micro-wave, 2007</i></li> <li>- <i>Processing of biopellets from cocoa leather (Theobroma cacao) and banana leather (Musa paradisiaca L.), 2018</i></li> <li>- <i>Technology for Making Biodiesel by Transesterification with Ultrasonic Waves, 2018</i></li> <li>- <i>Horizontal type of biopellet printer lab scale, 2018</i></li> <li>- <i>Biopellet from cocoa leather with addition of rice straw charcoal, 2019</i></li> <li>- <i>Fuel grade ethanol (FGE) making process using integrated distillation-adsorption purification system, 2019</i></li> <li>- <i>Engineering Mathematics, 2020</i></li> <li>- <i>Strength of Materials, 2020</i></li> </ul>		
<b>Important publications over the last 5 years</b>	<p><i>Selected recent publications from a total of approx. 14 papers:</i></p> <ul style="list-style-type: none"> <li>- <b>B Susilo, D Darhim, S Prabawanto.</b> 2020. <i>Critical thinking skills based on mathematical dispositions in problem-based learning. Journal of Physics: Conference Series 1567(2), 022101</i></li> <li>- <b>B Susilo, DM Maharani, LC Hawa, DNK Fitri.</b> 2019. <i>Study of sorption isotherm and isosteric heat of Kepok Banana (Musa paradisiaca F.)</i></li> </ul>		

	<p><i>slice. IOP Conference Series: Earth and Environmental Science 230 (1), 012017</i></p> <p><i>-I Sofi'i, SH Sumarlan, Wignyanto, B Susilo. 2017. Combination of high electric voltage (hey) and nacl as assisted extraction methods for Nannochloropsis sp. BIOSCIENCE RESEARCH 14 (2), 386-394</i></p>
Activities in specialist bodies over the last 5 years	<p><i>-Head of Institute of Research and Community Services, Universitas Brawijaya, 2017-2021</i></p> <p><i>-Head of Halal Toyib Science Center, 2021</i></p>

<b>Name</b>	<b><i>Ir. Ekoyanto Pudjiono, M.Eng.Sc.</i></b>		
<b>Position</b>	<i>Teaching area: Agricultural Mechanization, Assistant professor in Bachelor of Agricultural Engineering Study Programme</i>		
<b>Academic career</b>	<b><i>Initial academic appointment</i></b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>1983</i>
	<b><i>Master degree</i></b>	<i>Agricultural Engineering, University of Melbourne, Australia</i>	<i>1987</i>
	<b><i>Undergraduate degree</i></b>	<i>Agricultural Mechanization, Gadjah Mada University, Indonesia</i>	<i>1977</i>
<b>Employment</b>	<b><i>Lecturer</i></b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>1983-Now</i>
	<b><i>Postdoctoral scholar</i></b>	<i>Bio-sensing Engineering, Kyoto University, Japan</i>	<i>2019-2020</i>
	<b><i>Engineer</i></b>	<i>Gerbang Multindo Nusantara Co.Ltd., Jakarta, Indonesia</i>	<i>2008</i>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>The Effect of Variations in Seal Types and Yarn Types on the Calorific Value of the Bomb Calorimeter Combustion Process</i></li> <li>- <i>Development of A Loading Device for Testing Tractors on Flooded Soil</i></li> </ul>		
<b>Industry collaborations over the last 5 years</b>	-		
<b>Patents and proprietary rights</b>	-		
<b>Important publications</b>	<p><i>Selected recent publications:</i></p> <ul style="list-style-type: none"> <li>- <i>G Djojowasito, E Pudjiono, G Maides. 2012. Study on the Performance of Organic Planting Ribbon on the Paddy (Oryza sativa L) Growth and Rice Production. Jurnal Teknologi Pertanian 10 (3)</i></li> <li>- <i>E Pudjiono, AM Ahmad, R Subekti. 2012. Engineering Tube Casting Machine of Organic Planting Pouch: Molecular and Biomolecular Spectroscopy 218, 155-160 (Elsevier, SCI Impact Factor: 3.232)</i></li> <li>- <i>E Pudjiono, RH Macmillan. 1995. Measuring the Drawbar Performance of Animals and Small Tractors. AGRICULTURAL MECHANIZATION IN ASIA AFRICA AND LATIN AMERICA 26, 21-21</i></li> </ul>		
<b>Activities in specialist bodies over the last 5 years</b>	-		

<b>Name</b>	<b>Yusuf Hendrawan STP., M.App.Life Sc., Ph.D</b>		
<b>Position</b>	<i>Teaching area: Bioinstrumentation, control, and systems engineering</i> <i>Associate Prof. in Bachelor of Agricultural Engineering Study Programme</i>		
<b>Academic career</b>	<b>Initial academic appointment</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2004</i>
	<b>Doctoral degree</b>	<i>Applied Life Sciences, Osaka Prefecture University, Japan</i>	<i>2012</i>
	<b>Master degree</b>	<i>Applied Life Sciences, Osaka Prefecture University, Japan</i>	<i>2009</i>
	<b>Undergraduate degree</b>	<i>Agricultural Engineering, Institut Pertanian Bogor, Indonesia</i>	<i>2003</i>
<b>Employment</b>	<b>Lecturer</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2004-Now</i>
	<b>Department secretary</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2013-2015</i>
	<b>Vice Dean of Student Affair</b>	<i>Faculty of Agricultural Technology, Universitas Brawijaya</i>	<i>2015-2023</i>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>AI implementation in antioxidant prediction model of leaf using machine vision and fluorescence, 2020, 50M IDR</i></li> <li>- <i>Development of plant acoustic frequency technology in plant factory, 2019, 50M IDR</i></li> <li>- <i>Development of cassava dryer using machine vision (Batch 1), 2016, 75M IDR</i></li> <li>- <i>Development of cassava dryer using machine vision (Batch 2), 2017, 75M IDR</i></li> </ul>		
<b>Industry collaborations over the last 5 years</b>			
<b>Patents and proprietary rights</b>	<ol style="list-style-type: none"> <li>1. <i>Intelligent lighting system in plant factory</i></li> <li>2. <i>Intelligent irrigation system in plant factory</i></li> <li>3. <i>Purity, Phenol, and pH detection of Kopi Luwak using machine vision</i></li> <li>4. <i>Coconut maturity detection using machine vision</i></li> <li>5. <i>Plant acoustic frequency technology (PAFT) using Gamelan music</i></li> <li>6. <i>Cassava chips dryer using machine vision</i></li> <li>7. <i>Nitrogen detection in spinach using machine vision</i></li> </ol>		
<b>Important publications over the last 5 years</b>	<p><i>Selected recent publications from a total of approx. 15 papers:</i></p> <ul style="list-style-type: none"> <li>- <i>Hendrawan, Y., Diyaratnasari, A., Sandra, Rachmawati, M., Wibisono, Y. 2020. Purification of sugarcane juice (Saccharum officinarum L.) using chitosan membrane with dead-end flow system. International Journal on Advance Science, Engineering, and Information Technology. 10 (6), 2367-2377.</i></li> <li>- <i>Hendrawan, Y., Putri, N.F., Hawa, L.C., Rachmawati, M., Argo, B.D. 2020. Modelling and optimization of alginate-chitosan concentration towards tensile strength pervaporation membrane</i></li> </ul>		



	<p>based polyehersulfone-biopolymer by using response surface methodology. <i>International Journal on Advance Science, Engineering, and Information Technology</i>. 10 (4), 1654-1661.</p> <ul style="list-style-type: none"> <li>- Hendrawan, Y., Putra, A.H., Sumarlan, S.H., Dhjoyowasito, G. 2020. Plant acoustic frequency technology control system to increase vegetative growth i red-lettuce. <i>TELKOMNIKA</i>. 18(4), 2042-2052.</li> <li>- Hendrawan, Y., Rizky, A., Susilo, B., Prasetyo, J., Damayanti, R. 2020. The effect of javanese gamelan music on the growth of chinese broccoli. <i>PERTANIKA Journal of Science &amp; Technology</i>. 28(1), 69-90.</li> <li>- Hendrawan, Y., Widyaningtyas, S., Sucipto. 2019. Computer vision for purity, phenol, and pH detection of Luwak Coffee green bean. <i>TELKOMNIKA</i>. 17(6), 3073-3085.</li> <li>- Hendrawan, Y., Amini, A., Maharani, D.M., Sandra. 2019. Intelligent non-invasive sensing method in identifying coconut (coco nucifera var. Ebunea) ripeness using computer vision and artificial neural network. <i>PERTANIKA Journal of Science &amp; Technology</i>. 27(3), 1317-1339.</li> <li>- Hendrawan, Y., Sabrinauly, Hawa, L.C., Rachmawati, M., Argo, B.D. 2019. Analysis of the phenol and flavanoid content from basil leaves (ocinum americanum L) wxtract using pulsed electric field (PEF) pre-treatment. <i>Agricultural Engineering International: CIGR Journal</i>. 21(2), 149-158.</li> <li>- Hendrawan, Y., Sakti, I.M., Wibisono, Y., Rachmawati, M., Sandra. 2018. Image analysis using color co-occurrence matrix textural features for predicting nitrogen content in spinach. <i>TELKOMNIKA</i>. 16(6), 2712-2724.</li> <li>- Hendrawan, Y., Al Riza, D.F. 2016. Machine vision optimization using nature-inspired algorithms to model sunagoke moss water status. <i>International Journal on Advance Science, Engineering, and Information Technology</i>. 6(1), 45-57.</li> </ul>
Activities in specialist bodies over the last 5 years	-



<b>Name</b>	<b>Dr.Ir. Ary Mustofa Ahmad, MP.</b>		
<b>Position</b>	<i>Teaching area: Agricultural Mechanization</i> <i>Assistant professor in Bachelor of Agricultural Engineering Study Programme</i>		
<b>Academic career</b>	<b>Initial academic appointment</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>1986</i>
	<b>Doctoral degree</b>	<i>Agricultural Science, Universitas Brawijaya, INDONESIA</i>	<i>2008</i>
	<b>Master degree</b>	<i>Agricultural Science, Gadjah Mada University, Indonesia</i>	<i>1993</i>
	<b>Undergraduate degree</b>	<i>Soil Science, Universitas Brawijaya, Indonesia</i>	<i>1979</i>
<b>Employment</b>	<b>Lecturer</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>1986- Now</i>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>Design and Construction Of Continuous System Biogas Filters, 2020, 4M IDR</i></li> <li>- <i>Design of a Sea Water Destilator Model Based on the Greenhouse Effect with the Addition of Alor Rocks as Heat Storage, 2018, 9M IDR</i></li> <li>- <i>Feasibility study on the suitability of land area, number of livestock, size of the digester in actualizing a sustainable independent farmer business, 2020, 25 IDR</i></li> </ul>		
<b>Industry collaborations over the last 5 years</b>	<i>Organization for Industrial, Spiritually, Culture and Advancement (OISCA), PT. Etos Agro, Banyuwangi.</i>		
<b>Patents and proprietary rights</b>	-		
<b>Important publications over the last 5 years</b>	<p><i>Selected recent publications from a total of approx. 30 papers:</i></p> <ul style="list-style-type: none"> <li>- <i>M Lutfi, WA Nugroho, HT Vo, G Djoyowasito, <b>AM Ahmad</b>, S Sandra. 2020. Performance test of organic planting bags for woody plant seedlings. International Journal of Agricultural and Biological Engineering 13 (5), 93-98</i></li> <li>- <i>Y Hendrawan, DK Anta, <b>AM Ahmad</b>, SM Sutan. 2019. Development of fuzzy control systems in portable cultivation chambers to improve the quality of oyster mushrooms. IOP Conference Series: Materials Science and Engineering 546 (3), 032013</i></li> <li>- <i><b>AM Ahmad</b>, Z Kusuma, B Suharto, S Prijono. 2017. Design of Hand Tractor-trailed Biogas Sludge Applicator and Its Performance on Indonesian Dry Land. Int. J. of Applied Eng. Res 12, 3719-3723</i></li> </ul>		
<b>Activities in specialist bodies over the last 5 years</b>	-		

<b>Name</b>	<b>Rini Yulianingsih, STP., MT., PhD</b>		
<b>Position</b>	<i>Teaching area: basics of engineering and food engineering</i> Assistant Professor in Bachelor of Agricultural Engineering Study Programme		
<b>Academic career</b>	<b>Initial academic appointment</b>	Agricultural Engineering Department, Universitas Brawijaya	2008
	<b>Doctoral degree</b>	Food Engineering, Ehime University, Japan	2020
	<b>Master degree</b>	Mechanical Engineering, Universitas Brawijaya, Indonesia	2005
	<b>Undergraduate degree</b>	Agricultural Engineering, Universitas Brawijaya, Indonesia	1998
<b>Employment</b>	<b>Lecturer</b>	Agricultural Engineering Department, Universitas Brawijaya	2008- Now
<b>Research and development projects over the last 5 years</b>	-		
<b>Industry collaborations over the last 5 years</b>	-		
<b>Patents and proprietary rights</b>			
<b>Important publications over the last 5 years</b>	<ul style="list-style-type: none"> <li>- R Yulianingsih, S Gohtani, 2020, <i>The influence of stirring speed and type of oil on the performance of pregelatinized waxy rice starch emulsifier in stabilizing oil-in-water emulsions</i>, <i>Journal of Food Engineering</i>, Vol 280, September 2020, 109920. (Elsevier, Q1, SCI Impact factor 4.499)</li> <li>- R. Yulianingsih, S Gohtani, 2019, <i>Dispersion characteristics of pregelatinized waxy rice starch and its performance as an emulsifier for oil-in-water emulsions: Effect of gelatinization temperature and starch concentration</i>, <i>Food Hydrocolloids</i>, Vol 95 October 2019, Pages 476-486 (Elsevier, Q1, SCI Impact factor 7.053)</li> </ul>		
<b>Activities in specialist bodies over the last 5 years</b>	-		

<b>Name</b>	<b><i>Dewi Maya Maharani, STP, M.Sc</i></b>
<b>Position</b>	<i>Assistant prof. in Bachelor of Agricultural Engineering Study Programme</i>
<b>Academic career</b>	<p><b>Initial academic appointment</b> <i>Agricultural Engineering Department, Universitas Brawijaya</i> 2011</p> <p><b>Doctoral degree</b> - -</p> <p><b>Master degree</b> <i>Agricultural Engineering, Gadjah Mada University, Indonesia</i> 2011</p> <p><b>Undergraduate degree</b> <i>Agricultural Engineering, Gadjah Mada University, Indonesia</i> 2009</p>
<b>Employment</b>	<b>Lecturer</b> <i>Agricultural Engineering Department, Universitas Brawijaya</i> 2011-Now
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>Extraction of Stevia Rebaudiana Bertoni Using Electroheating and Maceration Method, 2019, 26M IDR</i></li> <li>- <i>Comparative Study of Physical Properties, Phytochemical, Kinetics and Energy Analysis of Puyang Chili Drying, 2019, 50M IDR</i></li> <li>- <i>Ultraviolet and Ultrasound Treatment as Non-thermal Preservation of Coconut (Cocos nucifera L.) Milk, 2018, 27M IDR</i></li> <li>- <i>Optimization of Glucose Fermentation Process and Purification of Bioethanol from Rice Straw Oryza sativa), 2016, 75M IDR</i></li> </ul>
<b>Industry collaborations over the last 5 years</b>	-
<b>Patents and proprietary rights</b>	<i>Coconut maturity detection using machine vision (Hendrawan, Y., Amini, A., Maharani, D.M., Sutan, S.M.)</i>
<b>Important publications over the last 5 years</b>	<p><i>Selected recent publications from a total of approx. 18 papers:</i></p> <ul style="list-style-type: none"> <li>- <b>Maharani, D.M., Mustaniroh, S.A.</b> 2020. <i>Increasing Efficiency Of Creative Chocolate Production With Semi Automatic Chocolate Coating Machine. Journal of Innovation and Applied Technology.</i> 6(6), 925-931.</li> <li>- <b>Hendrawan, Y., Amini, A., Maharani, D.M., Sandra.</b> 2019. <i>Intelligent non-invasive sensing method in identifying coconut (coco nucifera var. Ebunea) ripeness using computer vision and artificial neural network. PERTANIKA Journal of Science &amp; Technology.</i> 27(3), 1317-1339.</li> <li>- <b>Maharani, D.M., Latriyanto, A., Rafianto, V., Putri, S.V.Y.S., Khasanah, K.</b> 2019. <i>Design of Hypobaric Storage for Cayenne Pepper (Capsicum frutescens L.). AGRITECH Journal.</i> 39(2), 143-152</li> <li>- <b>Maharani, D.M., Rosyidin, K.</b> 2018. <i>The Effect of Microwave-NaOH Pretreatment on Kepok's Petiole Flour to The Cellulose Yied. AGRITECH Journal.</i> 38(2), 133-139</li> <li>- <b>Maharani, D.M., Pranowo, D.</b> 2017. <i>The Improvement of Production Efficiency for Crispy Snack with Spinner Inverter and Double Cane. Journal of Innovation and Applied Technology.</i> 03(02), 470-475</li> </ul>

	<ul style="list-style-type: none"> <li>- <b>Maharani, D.M.</b>, Normalasari, L., Kumalasari, D., Prakoso, C.A.H., Kusumaningtyas, M., Ramadhan, M.T. 2017. <i>The Effect of Alkalization-Resistive Heating Pretreatment on Lignocellulose Content of Rice Straw</i>. <i>AGRITECH Journal</i>. 37(2), 132-138</li> <li>- Argo, B.D., Hendrawan, Y., <b>Maharani, D.M.</b>, Putranto, A.W., Winarsih, S. 2016. <i>The Effect of Microwave-NaOH Pretreatment and Hydrolysis Enzyme Using Trichoderma reesei-Aspergillus niger on Rice Straw Bioethanol Production</i>. <i>International Journal on Advanced Science Engineering Information Technology</i>. 6(1), 20-26</li> </ul>
Activities in specialist bodies over the last 5 years	-

<b>Name</b>	<b>Joko Prasetyo, STP, M.Si</b>		
<b>Position</b>	<i>Teaching area: Agricultural and Bio-system Engineering, Assistant professor in Bachelor of Agricultural Engineering Study Programme</i>		
<b>Academic career</b>	<b>Initial academic appointment</b>	Agricultural Engineering Department, Universitas Brawijaya	2015
	<b>Master degree</b>	Agricultural and Food Engineering, IPB University, Indonesia	2012
	<b>Undergraduate degree</b>	Agricultural Engineering, Universitas Brawijaya, Indonesia	2006
<b>Employment</b>	<b>Lecturer</b>	Agricultural Engineering Department, Universitas Brawijaya	2015- Now
	<b>Field Quality Assistant</b>	PT Dupont Indonesia	2012
	<b>Owner</b>	Sakura Hidroponik Farm	2020- now
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>Application of Plant Growth and Productivity-Based Plant Productivity Based on Sound Exposure (Sonic Bloom) with Sound Level and Frequency Control, 2019, 50M IDR</i></li> <li>- <i>The Effect of Extremely Low Frequency Magnetic Field Exposure on the Growth of Shallots (Allium Ascalonicum L), 2020, 4M IDR</i></li> <li>- <i>TEMPERATURE CONTROL OF THE EXTRACTION PROCESS OF SIRSAK FRUIT (Annona muricata L.) USING DYNAMIC SYSTEM OF RECURSIVE LEAST SQUARE METHOD, 2020, 50 IDR</i></li> </ul>		
<b>Industry collaborations over the last 5 years</b>	<i>Organization for Industrial, Spiritually, Culture and Advancement (OISCA), PT. Etos Agro, Banyuwangi.</i>		
<b>Patents and proprietary rights</b>	-		
<b>Important publications over the last 5 years</b>	<p><i>Selected recent publications:</i></p> <ul style="list-style-type: none"> <li>- <i>Y Hendrawan, KN Anniza, J Prasetyo, R Damayanti, G Djoyowasito. 2020. Effect of plant sound wave technology to increase productivity of mustard greens (Brassica juncea L.) IOP Conference Series: Earth and Environmental Science 524 (1), 012012</i></li> <li>- <i>Yusuf Hendrawan, Antonius Rizky, Bambang Susilo, Joko Prasetyo and Retno Damayanti. 2020. The Effect of Javanese Gamelan Music on the Growth of Chinese Broccoli. Pertanika Journal of Science and Technology. Vol 28, No.1</i></li> <li>- <i>J Prasetyo, YF Baharsyah, Y Hendrawan . 2020. THE EFFECT OF EXPOSURE TO JAVA GAMELAN, ROCK MUSIC AND THE SOUND OF STONE BIRDS (Copsychus malabaricus) ON THE VEGETATIVE GROWTH OF ROSE PLANT (Amaranthus tricolor L). Jurnal Teknik Pertanian Lampung (Journal of Agricultural Engineering). 9 (4), 311-316</i></li> </ul>		

Activities in specialist bodies over the last 5 years
---

-
---



<b>Name</b>	<b>Retno Damayanti, STP.MP.</b>
<b>Position</b>	<i>Teaching area: Ergonomic and Occupational Health and Safety Assistant professor in Bachelor of Agricultural Engineering Study Programme</i>
<b>Academic career</b>	<p><b>Initial academic appointment</b> Agricultural Engineering 2013 Department, Universitas Brawijaya</p> <p><b>Master degree</b> Agricultural Insutrial Technology 2012 Universitas Brawijaya</p> <p><b>Undergraduate degree</b> Agricultural Engineering, 2000 Universitas Brawijaya</p>
<b>Employment</b>	<b>Lecturer</b> Agricultural Engineering 2013- Department, Universitas Brawijaya Now
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- AI implementation in antioxidant prediction model of leaf using machine vision and fluorescence, 2020, 50M IDR</li> <li>- Development of plant acoustic frequency technology in plant factory, 2019, 50M IDR</li> <li>- Engineered Low-Temperature Dryer Machine For Drying Hybrid Corn Seeds 2019-2020, 50M IDR</li> <li>- Increasing Calories of Briquettes and Biopellets with Cocoa Shell Raw Material Using Densification Process and Water Heating System 2017-2018, 179M, IDR</li> <li>- Production of Fuel Grade Ethanol from Molasses Using an Integrated Distillation with Adsorption System 2018, 193M, IDR</li> <li>- Developmet of cassava dryer using machine vision, 2016-2017, 146M IDR</li> </ul>
<b>Industry collaborations over the last 5 years</b>	-
<b>Patents and proprietary rights</b>	-
<b>Important publications over the last 5 years</b>	<p><i>R Damayanti, Sandra, NR Nanda. 2020. The effect of adding rice straw charcoal to the processing of bio-pellet from cacao pod husk. Advances in Food Science, Sustainable Agriculture and Agroindustrial Engineering. 3(2) : 81-90.</i></p> <p><i>Y Hendrawan, A Rizky, B Susilo, J Prasetyo, R Damayanti. 2020. The effect of Javanese gamelan music on the growth of Chinese Broccoli. PERTANIKA Journal. 28(1) : 69-90</i></p> <p><i>Sandra, R Damayanti, B Susilo, G Darmesthi. 2019. Physical Characteristic of Biomass Pellet from Cacao Pod Husk and Banana Pod Husk. IJASEIT journal. 9(5) : 1670-1675</i></p>
<b>Activities in specialist bodies over the last 5 years</b>	-



<b>Name</b>	<b>Zaqlul Iqbal, STP, M.Si</b>		
<b>Position</b>	<i>Agricultural Engineering, UV/Vis/NIR spectroscopy Lecturer in Agricultural Engineering Department Homebase: Bachelor of Agricultural and Biosystem Engineering Study Programme</i>		
<b>Academic career</b>	<b>Initial academic appointment</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2016</i>
	<b>Master degree</b>	<i>Food and Agricultural Machinery Engineering, IPB University, Indonesia</i>	<i>2015</i>
	<b>Undergraduate degree</b>	<i>Agricultural Engineering, IPB University, Indonesia</i>	<i>2013</i>
<b>Employment</b>	<b>Lecturer</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2012- Now</i>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>Development of Rapid Non-Contact Detection of Lard Adulteration using UV/Vis Spectroscopy and Chemometrics , 2019, 25M IDR</i></li> <li>- <i>Development of portable monitoring and evaluation of Citrus Orchard based on computer vision and AI, 2021, 25M IDR</i></li> </ul>		
<b>Industry collaborations over the last 5 years</b>			
<b>Patents and proprietary rights</b>	-		
<b>Important publications over the last 5 years</b>	<p><i>Selected recent publications:</i></p> <ol style="list-style-type: none"> <li>1. <b>Z. Iqbal</b>, D. Ciptaningtyas, 2018, Designing and experimenting semi-automatic green grass jelly squeezer, International Journal on Advanced Science, Engineering, and Information Technology. <a href="http://insightsociety.org/ojaseit/index.php/ijaseit/article/view/4744">http://insightsociety.org/ojaseit/index.php/ijaseit/article/view/4744</a></li> <li>2. <b>Z Iqbal</b>, M A Kamal, A N Komariyah, I P Adiyaksa, B D Argo, Y Wibisono and R Damayanti, 2020, Feasibility study on the use of UV/Vis spectroscopy to measure total phenolic compound and pH in apple (<i>Malus sylvestris L.</i>) cv. Manalagi. IOP Earth and Environmental Science. <a href="https://iopscience.iop.org/article/10.1088/1755-1315/475/1/012003">https://iopscience.iop.org/article/10.1088/1755-1315/475/1/012003</a>.</li> <li>3. <b>Z Iqbal</b>, I P Adiyaksa, A N Komariyah, R Damayanti, M A Kamal, L C Hawa and Y Hendrawan, 2020, Developing partial least square (PLS) internal parameters of apple (<i>Malus sylvestris L.</i>) cv. Manalagi by means of UV/Vis spectroscopy. IOP Earth and Environmental Science <a href="https://iopscience.iop.org/article/10.1088/1755-1315/475/1/012004">https://iopscience.iop.org/article/10.1088/1755-1315/475/1/012004</a></li> </ol>		
<b>Activities in specialist bodies over the last 5 years</b>	-		

<b>Name</b>	<b>Dr. Ir. Gunomo Djoyowasito, MS</b>		
<b>Position</b>	<i>Teaching area: Agricultural Mechanization, Assistant professor in Bachelor of Agricultural Engineering Study Programme</i>		
<b>Academic career</b>	<b>Initial academic appointment</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>1981</i>
	<b>Doctoral degree</b>	<i>Agricultural Science, Universitas Brawijaya, Indonesia</i>	<i>2009</i>
	<b>Master degree</b>	<i>Agricultural Engineering, Universitas Brawijaya, Indonesia</i>	<i>1984</i>
	<b>Undergraduate degree</b>	<i>Agricultural Technology, Universitas Brawijaya, Indonesia</i>	<i>1973</i>
<b>Employment</b>	<b>Lecturer</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>1981- Now</i>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>Design and build models of grain dryers based on the greenhouse effect, 2017, 9M IDR</i></li> <li>- <i>Increased Productivity of Manalagi apples (Malang Batu apples) throughout the season in facing the free market by using a drip irrigation design (trickle) and organic fertilizers, 2017, 135M IDR</i></li> <li>- <i>Design and Performance Test of Single Body Pyramid Type Solar Desalinator in Passive and Active Desalination Mode, 2019, 5 IDR</i></li> </ul>		
<b>Industry collaborations over the last 5 years</b>	<i>Organization for Industrial, Spiritually, Culture and Advancement (OISCA), PT. Etos Agro, Banyuwangi.</i>		
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>- <i>Organic planting ribbons for rice fields and the manufacturing process. Application Number: P20010061. Filing Date, 23 January 2001. Patent Number: ID 0031001 B. Date, 01 June 2012.</i></li> <li>- <i>The Process of Making an Organic Planting Bag as a Media for Organic Plant Nursery and Organic Plant Bag Products. Application Number: P00200100062. Filing Date, 23 January 2001. Patent Number: ID P0027532 B. Date, 07 February 2011.</i></li> <li>- <i>Push System Granular Fertilizer Immersion Tool. Application Number: P00200100063. Filing date, January 23, 2001. Patent Number: ID P0026865 B. Date, November 4, 2010.</i></li> </ul>		
<b>Important publications over the last 5 years</b>	<p><i>Selected recent publications:</i></p> <ul style="list-style-type: none"> <li>- <i>J Koehuan, B Suharto, G Djoyowasito, L Susanawati. 2020. Water total factor productivity growth of rice and corn crops using data envelopment analysis–malmquist index (West Timor, Indonesia). Agricultural Engineering International: CIGR Journal 22 (4), 20-30</i></li> <li>- <i>A Iriany, M Chanan, G Djoyowasito. 2018. Organic mulch sheet formulation as an effort to help plants adapt to climate change. International Journal of Recycling of Organic Waste in Agriculture 7 (1), 41-47</i></li> <li>- <i>G Djoyowasito, WH Utomo, B Suharto, N Basuki. 2014. The Organic Planting Ribbon (OPR) Made of Banana Sheath and Its Effect on Rice Growth in Direct Seedling System. Journal of Agricultural Science 6 (6), 10</i></li> </ul>		

Activities in specialist bodies over the last 5 years
---

-
---

<b>Name</b>	<b>Danial Fatchurrahman, STP., M.Sc. Agr</b>		
<b>Position</b>	<i>Teaching area: Discriminant Analysis and Prediction Model Lecturer in Bachelor of Bioprocess Engineering Study Programme</i>		
<b>Academic career</b>	<b>Initial academic appointment</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2016</i>
	<b>Master degree</b>	<i>Bio-sensing Engineering, Kyoto University, Japan</i>	<i>2016</i>
	<b>Undergraduate degree</b>	<i>Agricultural Engineering, Universitas Brawijaya Indonesia</i>	<i>2012</i>
<b>Employment</b>	<b>Lecturer</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2016-Now</i>
	<b>Doctoral Program</b>	<i>Postharvest Biology and Technology Laboratory, University of Foggia, Italy</i>	<i>2018-Now</i>
	<b>Doctoral Research Fellow</b>	<i>Postharvest Biology and Technology Group, University of Miguel Hernandez Elche</i>	<i>2018-Now</i>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>• <i>Comparison Performance of Visible-NIR and Near-Infrared Hyperspectral Imaging for Nutritional Quality Prediction of Goji Berry (Lycium barbarum L.) and Aronia (Aronia melanocarpa) ;</i></li> <li>• <i>Physico-chemical and Sensory Evaluation of Goji Berry (Lycium barbarum L.) Fruits Stored Under Different Temperatures; Classification of Common Defective of Goji Berry (Lycium barbarum L.) by Using Vis-NIR Hyperspectral Imaging Method;</i></li> <li>• <i>Vis-NIR and NIR Hyperspectral Mapping for the Quality Prediction of Goji Berry Berry Fruits (Lycium barbarum L.) and Aronia (Aronia melanocarpa);</i></li> <li>• <i>Postharvest Characterization and Metabolic Behavior of Goji Berry (Lycium barbarum L.) and Aronia (Aronia melanocarpa) During Ripening;</i></li> <li>• <i>Effect of Modified Atmosphere Packaging on the Sensorial and Nutritional Quality of Goji Berry (Lycium barbarum L.);</i></li> <li>• <i>Effect of Controlled Atmosphere with High Carbon Dioxide on Quality of Goji Berry Fruits (Lycium Barbarum L.);</i></li> <li>• <i>Effect of Ethylene on Physical and Nutritional Quality of Goji Berry Fruits During Storage; Comparison Performance of Visible-NIR and Near-Infrared Hyperspectral Imaging for Nutritional Quality Prediction of Aronia (Aronia melanocarpa);</i></li> <li>• <i>Physico-chemical and Sensory Evaluation of Aronia (Aronia melanocarpa) Stored Under Different Temperatures;</i></li> <li>• <i>Effect of High Carbon Dioxide Treatments on the degree of Astringency of Aronia (Aronia melanocarpa).</i></li> </ul>		
<b>Industry collaborations over the last 5 years</b>	<i>Masseria Fruttirossi SRL <a href="https://lomesuperfruit.com/it/home/">https://lomesuperfruit.com/it/home/</a></i>		
<b>Patents and proprietary rights</b>	-		

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"> <li>- <b>D Fatchurrahman</b>, M Kuramoto, DF Al Riza, Y Ogawa... - <i>Computers and Electronics in Agriculture</i>, 2020. Fluorescence time series monitoring of different parts of green pepper (<i>Capsicum annuum L.</i>) under different storage temperatures. (Elsevier, SCI Impact Factor 3.858)</li> <li>- <b>D Fatchurrahman</b>, ML Amodio, MLV de Chiara, MMA Chaudhry, G Colelli- <i>Postharvest Biology and Technology</i>, Volume 169, November 2020 Early discrimination of mature- and immature-green tomatoes (<i>Solanum lycopersicum L.</i>) using fluorescence imaging method. (Elsevier SCI Impact factor 4.303)</li> </ul>
Activities in specialist bodies over the last 5 years	-

<b>Name</b>	<b>Ubaidillah, STP., M.Si</b>
<b>Position</b>	<i>Teaching area: Farm Power and Machinery System Lecturer in Agricultural Engineering Department Homebase: Bachelor of Agricultural and Biosystem Engineering Study Programme</i>
<b>Academic career</b>	<p><b>Initial academic appointment</b> Agricultural Engineering Department, Universitas Brawijaya 2019</p> <p><b>Master degree</b> Mechanical and Biosystem Engineering, Institut Pertanian Bogor, Indonesia 2016</p> <p><b>Undergraduate degree</b> Agricultural and Biosystem Engineering, Universitas Brawijaya, Indonesia 2011</p>
<b>Employment</b>	<b>Lecturer</b> Agricultural Engineering Department, Universitas Brawijaya 2019-Now
<b>Research and development projects over the last 5 years</b>	- Development of multipurpose drying simulator with integrated online measurement system for agricultural product, 2020, 110M IDR
<b>Industry collaborations over the last 5 years</b>	-
<b>Patents and proprietary rights</b>	-
<b>Important publications over the last 5 years</b>	<p><i>Selected recent publications from a total of approx. 8 papers:</i></p> <ul style="list-style-type: none"> <li>- LC Hawa, <b>Ubaidillah</b>, SA Mardiyani, AN Laily, NIW Yosika, FN Afifah. 2021. Drying kinetics of cabya (<i>Piper retrofractum</i> Vahl) fruit as affected by hot water blanching under indirect forced convection solar dryer. <i>Solar Energy</i> 214,588-598 (Elsevier, SCI Impact Factor: 4.608)</li> <li>- LC Hawa, <b>Ubaidillah</b>, R Damayanti, Y Hendrawan. 2020. Moisture sorption isotherms of modified cassava flour during drying and storage. <i>Heat and Mass Transfer/Waerme- und Stoffuebertragung</i> 56(8), 2389-2396. (Springer Verlag, SCI Impact Factor: 1.867)</li> <li>- BD Argo, <b>Ubaidillah</b>. 2020. Thin-layer drying of cassava chips in multipurpose convective tray dryer: Energy and exergy analyses. <i>Journal of Mechanical Science and Technology</i> 34(1), 435-442. (Springer Verlag, SCI Impact Factor: 1.345)</li> <li>- BD Argo, S Sandra, <b>Ubaidillah</b>. 2018. Mathematical modeling on the thin layer drying kinetics of cassava chips in a multipurpose convective-type tray dryer heated by a gas burner. <i>Journal of Mechanical Science and Technology</i> 32(7), 435-442. (Springer Verlag, SCI Impact Factor: 1.345)</li> </ul>

Activities in specialist bodies over the last 5 years
---

-
---



<b>Name</b>	<b>Darmanto, ST., MT.</b>		
<b>Position</b>	<i>Teaching area: Mechanics of Material, Mechanical Engineering Lecturer in Agricultural Engineering Department Homebase: Bachelor of Agricultural and Biosystems Engineering Study Programme</i>		
<b>Academic career</b>	<b>Initial academic appointment</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2014</i>
	<b>Master degree</b>	<i>Mechanical Engineering, Universitas Brawijaya-National Central University Taiwan</i>	<i>2013</i>
	<b>Undergraduate degree</b>	<i>Mechanical Engineering Universitas Brawijaya, Indonesia</i>	<i>2007</i>
<b>Employment</b>	<b>Lecturer</b>	<i>Agricultural Engineering Department, Universitas Brawijaya</i>	<i>2012-Now</i>
	<b>Postdoctoral scholar</b>	<i>Bio-sensing Engineering, Kyoto University, Japan</i>	<i>2019-2020</i>
	<b>Engineer</b>	<i>PT. Federal Nittan Industries, Bekasi, Indonesia</i>	<i>2008</i>
<b>Research and development projects over the last 5 years</b>	- <i>Powder Grinder Mill Performance Test on The Industrialization of Konjac-based Composite Flour, 2019,</i>		
<b>Industry collaborations over the last 5 years</b>	-		
<b>Patents and proprietary rights</b>	-		
<b>Important publications over the last 5 years</b>	<p><i>Selected recent publications from a total of 5 papers:</i></p> <ul style="list-style-type: none"> <li>- <b>Darmanto, F A Alfiansah.</b> 2019. <i>Prediksi Kegagalan Statis Pipa Saluran Uap (Vapor Line) Akibat Tekanan Kerja. JKPTB Vol . 8 (3), 291-298.</i></li> <li>- <b>Zaqlul Iqbal, Gunomo Jowowasito, Fenty Ika Wardani, Rizki Adha Lubis, Mustofa Lutfi, Darmanto.</b> 2019. <i>Designing small-medium scale groundnut (Arachis hypogea L.) shelling machine for local merchant in Tuban, East Java. Proceeding ICGAB 2018.</i></li> <li>- <b>Y Wibisono, Y Migunani, MA Choiron, Darmanto.</b> 2020. <i>Computational fluid dynamics analysis of mini membrane module flow behaviour. Proceeding ICGAB 2019.</i></li> </ul>		
<b>Activities in specialist bodies over the last 5 years</b>			