

Staff Handbook



Name	Mustaqimah., S.TP, M.Sc		
Post (teaching area and designation)	energy and Agricultural machinery		
Academic career	Initial academic appointment	Institution	Year
	Doctoral of Agricultural science	Universitas Syiah Kuala	2020-present
	Master degree-Energy technology	Universiti Kebangsaan Malaysia	2010-2012
	Undergraduate degree-Agricultural Engineering	Universitas Syiah Kuala	1999-2004
Employment	Position Lecturer	Employer Universitas Syiah Kuala	Period 2005-present
Research and development projects over the last 5 years	<p>1. Name of project or research focus: Precision Agriculture: Design Metering Device of fertilizer Adaptive Spectra Data Near Infrared Spectroscopic Period and any other information: 2022-2023 Amount of financing: IDR 50,000,000,-</p> <p>2. Name of project or research focus: Design a Rapid Test System for Precision Farming for Macro Nutrient Evaluation in Soil Period and any other information: 2020-2021 Amount of financing: IDR 67,000,000,-</p> <p>3. Name of project or research focus: Metering Device Design for N (Urea), P(SP36) and K (KCl) Fertilizers Based on NIRS Spectrum Data. Period and any other information: 2023-2024 Amount of financing: IDR 183,000,000,-</p>		
Industry collaborations over the last 5 years	<p>1. Project title: Teknologi Pengolahan Ikan sebagai Produk Unggulan Daerah Pantai Lhok Seudu di Kecamatan Leupung Aceh Besar Partners: Usaha Kelompok kamboja</p> <p>2. Project title: Aplikasi Alsin Pengolah Kolang Kaling Untuk Meningkatkan Kuantitas, Kualitas Dan Higienitas Serta Aspek K3 Bagi Masyarakat Indrapuri Aceh Partners: Kolang kaling Kak Fit</p>		

	<p>3. Project title: Pkw Aplikasi Teknologi Pertanian Tepat Guna Di Gampong Kuala Bubon Mewujudkan Sentra Produksi Olahan Ikan Berbasis Ekonomi Kerakyatan <i>Partners: Usaha Kareung Boh Gadong dan Aron Meubanja</i></p> <p>4. Project title: Teknologi Pengolahan Ikan sebagai Produk Unggulan Daerah Pantai Lhok Seudu di Kecamatan Leupung Aceh Besar <i>Partners: Usaha Kelompok Kamboja</i></p> <p>5. Project title: Masyarakat Kota Banda Aceh melalui Produksi Makanan Kekinian Basreng Ikan Laut sebagai Upaya Peningkatan Ekonomi di Masa <i>Partners: UMKM Sea Cuba basreng</i></p> <p>6. Project title: Pemberdayaan Ekonomi Masyarakat Berbasis Potensi Lokal Buah Aren menjadi Kolang Kaling melalui Aplikasi Mesin Pengupas dan Perbaikan Kemasan <i>Partners: kolang kaling indrapuri</i></p>				
Patents and proprietary rights	<table border="1"> <thead> <tr> <th data-bbox="536 808 1038 842">Title</th> <th data-bbox="1038 808 1374 842">Year</th> </tr> </thead> <tbody> <tr> <td data-bbox="536 842 1038 875"><i>Soil SPEC Model.1</i></td> <td data-bbox="1038 842 1374 875">2022</td> </tr> </tbody> </table>	Title	Year	<i>Soil SPEC Model.1</i>	2022
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<i>Soil SPEC Model.1</i>	2022				
Important publications over the last 5 years	<p>Selected recent publications from a total of approx. Total number: 17 in Scopus Publications (https://www.scopus.com/authid/detail.uri?authorId=57211600887)</p> <p>Articles:</p> <ol style="list-style-type: none"> 1. Development of a chopper with performance optimization for areca nut frond using response surface methodology 2. Sensory Analysis of Pliek U Using the Analytical Hierarchy Process (AHP) Method 3. Near Infrared Technology in Agricultural Sustainability: Rapid Prediction of Nitrogen Content from Organic Fertilizer 4. Chemical Characteristics of Dryland Soils from Aceh Besar Regency As A Fertilizer Design Reference 5. Design and performance testing of areca nut thresher machine using solid triangle spike tooth type 6. Performance test of greenhouse effect (GHE) vent dryer with the addition of paraffin as a heat storage medium 7. The Finite Element Method (FEM) Approach to Determine Wire Loop Tooth and the Shaft of the Areca Nut Thresher Machine 8. Investigation on the Fouling and Heat Transfer Characteristics of Novel EGR Cooler (Semi-spiral) for Diesel Engine Fueled with Biodiesel 9. Modification and performance improvement of chopper palm frond (AE03-Type) 10. Quality study of dried Peda fish using a greenhouse effect vent dryer 11. Development Of Tuna Fish Shredder For Small And Medium Enterprises 12. Analysis Of The Performance Of A Plastic Mulch Punching Machine 				

Activities in specialist bodies over the last 5 years (Membership without a specific role need not be mentioned)	Organisation	Role	Period
	<i>Indonesian Association of Agricultural (Perteta) Engineering</i>	<i>Member</i>	<i>2021-2023</i>
	<i>Indonesian Engineers Association (PII)</i>	<i>Member</i>	<i>2022-2023</i>