

Staff Handbook of Agricultural Technology Education

1	
Name	Prof. Dr. Ir. H. Husain Syam, M.TP., IPU
Post	Introduction to Agricultural Technology; Entrepreneurship; Micro Learning
Academic Career	<ol style="list-style-type: none"> 1. Doctorate (Agricultural Industrial Technology) –IPB (2001-2005) 2. Master (Agricultural Product Processing Technology)-UGM (1993-1996) 3. Undergraduate (Machinery Engineering Education)-IKIP Ujung Pandang (1985-1989)
Employment	<ol style="list-style-type: none"> 1. Rector of UNM 2nd Period 2020-2024 2. Rector of UNM1stPeriod 2016-2020 3. Dean of the Engineering Faculty, UNM 2ndPeriod 2012-2016
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Optimization of Seaweed Cultivation Strategyfor Increasing Seaweed Production in South Sulawesi (2019) 2. Development and Application of Atmega 2560-based Trainers in Supporting Learning at the Engineering Faculty in UNM (2019) 3. Design and Build Herbal Plant Desiccant with UtilizationWasted Heat AC Condenser (2019) 4. Assessment of Postharvest Planting Techniques Analysis of Seaweed Supply Average in South Sulawesi (Study in DistrictTakalar and Jeneponto) (2019) 5. Assessment Utilization of Grass CultivationSea as One of Economic Resources (2018) 6. Filtering Engineering, Simultaneous Heat Transfer and Evaporation of Water, and Changes in Texture, Volume and Color in Starchy Foods (2016-2018) 7. Transfer Heat and Evaporation of Water Simultaneously to Starchy Food During Roasting Process Using Sand As A Heat Conducting Medium (2017). 8. Analysis of UsingVarious Fuels and Fume Room Temperature on Nutritional and Organoleptic Values (2017)
Industry Collaboration over the last 5 years	<p>Industrial cooperation</p> <ol style="list-style-type: none"> 1. Research, apprenticeship, industrial practice and student recruitment at Holland Bakery, 2017-2021 2. Research, apprenticeship, industrial practice and student recruitment at Dama Bakery, 2017-2021 3. Student industrial practice, skill and competency development at PT. Telkom Indonesia, 2018-2022 4. Student industrial practice, skill and competency development at PT. Makassar Terminal Service, 2018-2022 5. Student industrial practice, skill and competency development at CV.IT Com Perkasa Abadi, 2018-2022 6. Student industrial practice, skill and competency development at PT. Sharp Electronics Indonesia, 2019-2023 7. Student industrial practice, skill and competency development in CV. Creative Horizon, 2019-2023 8. Implementation of a certified internship program at PT. Pertamina, 2020-2022 9. IT training class at Genetic Computer School Singapore (GCSS), 2014-2019 10. IT training class at Genetic Computer School Singapore (GCSS), 2018-2023
Patents and proprietary rights	<p>Haki</p> <ol style="list-style-type: none"> 1. IPR : EC00202114973. Mars LP2M UNM (2021) 2. IPR : EC00202116006. Design of Monumental Architectural Works of Permanent Residential Houses with Modern Minimalist Style Eco-friendly Permata Hijau Lestari Makassar (2021)
Important Publication over the last 5 years	<p>Selected of recent publication in international journals from a total of approx. 5 :</p> <ol style="list-style-type: none"> 1. Husain Syam, Haedar Akib, Andi Aslam Patonangi, Muhammad Guntur. 2018. Principal Entrepreneurship Competence Based On Creativity And

	<p>Innovation In The Context Of Learning Organizations In Indonesia. Journal Of Entrepreneurship Education. 21(3):1-13</p> <ol style="list-style-type: none"> 2. M Aras, H Syam, J Jasruddin, H Akib, H Haris . 2017. The effect of service marketing mix on consumer decision making. International Conference on Education, Science, Art and Technology, 108-112 vol: issue : 2017 3. Husain Syam, Muhammad Basri, Amirullah Abduh, Andi Anto Patak, Rosmaladewi. 2019. Hybrid e-learning in Industrial Revolution 4.0 for Indonesia higher education. International Journal on Advanced Science, Engineering and Information Technology vol: 9 issue : 4 2019 4. Jamaluddin, Syam H., Mustarin A., Rivai A.A., 2019 Spatial multi-criteria approach for determining the cultivation location of seaweed <i>Euclima cottonii</i> in Takalar Regency, South Sulawesi, Indonesia. AACL Bioflux 12(4):1413-1430. 5. Jamaluddin, H Syam and K Rahman. 2019 Development and Application of ATmega 2560 Based Trainer in Supporting the Learning Process. Journal of Physics: Conference Series vol: 1387 issue : 1
<p>Activities in specialist bodies over the last 5 years</p>	<ol style="list-style-type: none"> 1. Kalam Synergy Council Expert Council - Indonesian Muslim Intellectuals Association (MASIKA ICMI) (2019-2024) 2. Chairman of the South Sulawesi Nahdatul Ulama Scholars Association (ISNU) (2018-2023) 3. Board of Trustees of Goju Ryu Karate-Do Shinbukan Indonesia (GOKASI) South Sulawesi (2018-2022) 4. Chairman the Regional Board of the Indonesian Republic Expert Lecturer Association (ADRI South Sulawesi) (2017-2021) 5. Chairman of the West Sulawesi Mandar Family Harmony (KKMSB), South Sulawesi (2017-2021) 6. Chairman of the Makassar City Front Cluster Advisory Council 08.095 / 08.096 Universitas Negeri Makassar (2017) 7. Coordinator for the Organizational and Institutional Development in the Association Teacher Education Organizers of Indonesia (IPPGI) (2017) 8. Trustee Board of PBSI in South Sulawesi (2017-2021) 9. Secretary of the ICMI Regional Organization Advisory Board, South Sulawesi (2016-2021) 10. Chairman of GPAN South Sulawesi (2017-now) 11. Association Coordinating Board Advisory Board Indonesian Campus Mosque (AMKI) UNM (2016) 12. Board Trustees of the Technology Education Association Indonesian Vocational (APTEKINDO) (2014-now)

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Name	Prof. Dr. Lahming, MS
Post	Science phylosophy; Research Methodology and Writing Scientific Papers; Ergonomics; Renewable energy; Agricultural Industrial System; Economics and Engineering Management; Daya in Agriculture
Academic Career	<ol style="list-style-type: none"> 1. Doctorate (Population and Environmental Education) –UNJ-tahun 2. Master (Agricultural Engineering/Mechanization)-UGM-tahun 3. Undergraduate (Construction Machinery Education)-IKIP Ujung Pandang-tahun
Employment	Lecture at Agricultural Technology Education
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Skills Training Methods to Increase Knowledge and Skills of Sago Commodity Agribusiness Entrepreneurs with an Environmentally Friendly Sago Commodity for Sago Farmers in Luwu Regency (2018) 2. Optimization of the Hybrid-Powered Refrigerator System (Solar Powered + Motor Drive) Against Traditional Fishing Boats in Makassar (2018) 3. Application of the Kelase Website-Based E-Learning Model in Improving Learning Outcomes Learning Media in the Agricultural Technology Education Study Program, Faculty of Engineering, Makassar State University (2018) 4. The Design of Drying Equipment for Agricultural Products Continuous Type of Environmentally Friendly Agricultural Waste Fuels (2019) 5. Internalization of the Raodatul Mujaddid Da'wah Institute on Spiritual Intelligence for Students of the Faculty of Engineering, Makassar State University (2019)
Industry Collaboration over the last 5 years	
Patents and proprietary rights	
Important Publication over the last 5 years	<ol style="list-style-type: none"> 1. Ilham, Lahming, M. Rais. 2018. Improvement of Learning Outcomes of Soil and Fertilizer through Cooperative Learning Model Learning Together in Class X Agronomy Students of SMK Negeri 1 Marioriwawo Soppeng. Journal of Agricultural Technology Education 1 (1), 30-37 2. Dendang N, Lahming, M. Rais. 2021. Effect of Drying Time and Temperature on Quality of Red Chili Powder (<i>Capsicum annum L.</i>) Using a Cabinet Dryer. Journal of Agricultural Technology Education 2, 30-39 3. Andrasari E, Lahming, R. Fadilah. 2019. Effect of the Addition of Bamboo Shoot Flour (<i>Gigantochloa apus</i>) on the Quality of Wet Noodles. Journal of Agricultural Technology Education 5 (1), 24-29. 4. Haruna, Lahming, F. Amir, AR. Asrib. 2019. Air Pollution Due To Motor Vehicle Exhaust And Its Impact On Health. UNM Environmental Journals 2 (2), 57-61. 5. Kasmira, Lahming, R. Fadilah. 2020. Analysis of Changes in Chemical Components of Green Spinach Chips (<i>Amaranthus tricolor. L</i>) Due to the Frying Process. Journal of Agricultural Technology Education 4, 49-55 6. Indrawati S, Lahming, A.Sukainah. 2020. Analysis of the physico-chemical properties of fortified chayote and pumpkin sauce. Journal of Agricultural Technology Education 4,113-123 7. Gaffar R, Lahming, M.Rais. 2021. Effect of sugar concentration on the quality of grapefruit peel jam (<i>Citrus maxima</i>). Journal of Agricultural Technology Education 3, 2021, 117-125 8. Muflih A, S. Yanto, Lahming. 2021. The Effect of Frying Media Variations on the Processing of Shredded Betok Fish (<i>Anabes testidineus</i>). Journal of Agricultural Technology Education 3, 52-59

Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none">1. Member of the Regional Board of the Indonesian Republic Expert Lecturer Association (ADRI South Sulawesi)2. Member Board Trustees of the Technology Education Association Indonesian Vocational (APTEKINDO)
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3	
Name	Prof. Dr. Patang, S.Pi., M.Si
Post	Water Quality, Planktonology, Aquaculture Technology, Fish Feed, Fish Disease, Fish Hatchery Technology
Academic Career	<ol style="list-style-type: none"> 1. Doctorate (Agriculture) –UNHAS-tahun 2007 2. Master (Agribusiness)-UNHAS-tahun 1999 3. Undergraduate (Fisheries Science)-UNCOK-tahun 1996
Employment	
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Harifuddin and Patang. 2018. Analysis of the Distribution Pattern of Lead Heavy Metal and Its Effect on Water Quality and Organisms along the Jeneberang River. PNBP of the Council of Professors. 2. Patang, Andi Alamsyah Rivai, Nur Rahmah and Andi Muhammad Akram Mukhlis. 2020. Prospect Analysis of Fish Farming development in the Coastal of Mallusetasi Barru Regency. PNBP Faculty of Engineering
Industry Collaboration over the last 5 years	-
Patents and proprietary rights	-
Important Publication over the last 5 years	<ol style="list-style-type: none"> 1. Patang. 2018. Analysis of Lead Heavy Metal has to do with water quality Around the Tallo River Estuary in Makassar Indonesia. International Journal of ChemTech Research. Vol.11 No.11, pp 146-153 2. Husain Syam and Patang. 2018. Analysis of the Use of Various Types of Fuel and Smoking Room Temperature value of Nutrition and Organoleptic Smoke Carp (<i>Cyprinus carpio</i> sp.). International Journal of ChemTech Research. Vol.11 No.05, pp 414-420 3. Patang, Harifuddin, Andi Haryanti Rukka. 2018. Analysis of cadmium (CD) and Lead (PB) Content in Losari Beach Waters and Its Relationship to Water Quality. The International Journal Of Science & Technoledge. Vol 6 Issue 9. 37-40 4. Patang and Husain Syam. 2018. Analysis of Making Shredded Carp (<i>Caprinus Carpio</i> Sp.) with Giving Heart of Banana as Additional Material. The International Journal Of Science & Technoledge. Vol 6 Issue 2. 168-175 5. Patang and Andi Puspa Sari Idris. 2018. Analysis Quantities of Cadmium and Lead Heavy Metal in Fish and Water along the Tello River Makassar, Indonesia. The International Journal Of Science & Technoledge. Vol 6 Issue 11. 41-45 6. Patang. 2019. Analysis of Fertility Rate and Water Quality in TheJeneberang River, Gowa Regency, Indonesia. International Journal of ChemTech Research. 12(2): 95-103
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Chairman of the Regional Leadership Council of South Sulawesi: Association of Indonesian Human Resource Development Institutions (Alpeksi): 2015 to present 2. Chairman of the 2018 Makassar 14 Middle Middle School Alumni Association until now 3. Chairman of the 2018 Pangkep District High School 13 Public High School Committee until now

4	
Name	Dr. Jamaluddin P, MP
Post	Applied mathematics; Cooling and Freezing Techniques; Heat Transfer/Thermodynamics; Programming and Computer Applications; Statistics; Agricultural Equipment and Machinery; Agricultural Production Machinery; Engineering Mechanics; Agricultural Workshop; Engineering Experiment Design; Applied Technology; Drying Technique; New Product Processing Technology;
Academic Career	<ol style="list-style-type: none"> 1. Doctorate (Agricultural Product processing Technology) –UGM (2005-2011) 2. Master (Agricultural Product Processing Technology)-UGM (1995/1998) 3. Undergraduate (Machinery Engineering Education)-IKIP Ujung Pandang (1987-1991)
Employment	<ol style="list-style-type: none"> 1. Vice Dean of Engineering Faculty 2nd Period (2020-now) 2. Vice Dean of Engineering Faculty 1st Period (2016-2020) 3. Head of Agricultural Technology Education Programme 2nd Period (2015-2016) 4. Head of Agricultural Technology Education Programme 1st Period (2011-2015)
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Baglog Position manipulation and Combination of Sveral Planting Media On The Growth of White Oyster Mushroom (<i>Pleurotus ostreatus</i>) 2. The Use of Led Grow Light in the Development of Microcontroller-Based Mini Hydroponic Simulator Learning Media at Agricultural Vocational Schools 3. Effect of harvest time on <i>eucheuma cottonii</i> seaweed production in Takalar Regency during East Monsoon 4. Design And Test Of Unmanned Aerial Vehicle (UAV) Spraying Capacity In Quadcopter Based Plant Spraying System 5. Development of Control System for Monitoring the Function of Drip Irrigation Equipment in Plant Nurseries 6. Development and Application of ATmega 2560 Based Trainer in Supporting the Learning Process 7. Spatial multi-criteria approach for determining the cultivation location of seaweed <i>Eucheuma cottonii</i> in Takalar Regency, South Sulawesi, Indonesia 8. Dangke Printer Tool Modification in Improving Dangke Product Quality and Productivity
Industry Collaboration over the last 5 years	
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Copyrights Number: 000241963 Development of Drip Irrigation Control System for Precision Farming in Cocoa Plantation 2. Copyright Number: 000163469 A book on the processing of various crackers and chips for foodstuffs 3. Copyright Number: 000163205 Book of heat and mass transfer on roasting and frying foodstuffs
Important Publication over the last 5 years	<p>Selected of recent publication in reputable international/nasional journals</p> <ol style="list-style-type: none"> 1. Rivai, A.A., H. Syam, R.F. Rauf, Jamaluddin. 2021. Effect of harvest time on <i>eucheuma cottonii</i> seaweed production in Takalar Regency during East Monsoon. <i>Jurnal Pendidikan Teknologi Pertanian</i>, 6(2), 361-371. 2. Husain Syam, Jamaluddin, Khaidir Rahman. 2020. Design And Test Of Unmanned Aerial Vehicle (UAV) Spraying Capacity In Quadcopter Based Plant Spraying System. <i>Proceeding of The International Conference on Science and Advanced Technology (ICSAT)</i> ISBN: 978-623-7496-62-5 3. Jamaluddin, J., H. Syam, R.F. Rauf, A.A. Rivai. 2020. Development of Control System for Monitoring the Function of Drip Irrigation Equipment in Plant Nurseries. <i>Proceeding of The International Conference on Science and</i>

	<p>Advanced Technology (ICSAT), 1168-1173.</p> <p>4. Jamaluddin, H Syam and K Rahman. 2019 Development and Application of ATmega 2560 Based Trainer in Supporting the Learning Process. Journal of Physics: Conference Series vol: 1387 issue : 1 </p> <p>5. Jamaluddin, A Mustarin, AA Rivai. 2019. Spatial multi-criteria approach for determining the cultivation location of seaweed <i>Eucheuma cottonii</i> in Takalar Regency, South Sulawesi, Indonesia. AACL Bioflux 12 (4), 1413-1430</p>
<p>Activities in specialist bodies over the last 5 years</p>	<p>1. Member of The Indonesian Association of Food Technology</p> <p>2. Reviewer of Agricultural Technology Education Journal. https://ojs.unm.ac.id/ptp</p> <p>3. Member of the Regional Board of the Indonesian Republic Expert Lecturer Association (ADRI South Sulawesi)</p> <p>4. Member Board Trustees of the Technology Education Association Indonesian Vocational (APTEKINDO)</p>

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Name	Dr. Andi Sukainah, S.TP., M.Si
Post	Biochemistry of Agricultural Products, Agricultural Microbiology, Postharvest Physiology, Processing and Preservation Agricultural Products Technology, Food Analysis, Nutritional Evaluation of Agricultural Products, Fermentation Technology, Herbal Food Processing Technology, Food Fortification Technology, Functional Food Development, Enzyme Technology, Sensory Evaluation
Academic Career	<ol style="list-style-type: none"> 1. Doctorate (Agricultural Technology) –UNHAS (2009-2014) 2. Master (Agricultural Industrial Technology)-IPB (2000-2003) 3. Undergraduate (Agricultural Product Technology)-UNHAS (1990-1995)
Employment	<ol style="list-style-type: none"> 1. Lecturer at Makassar State University (August 1998 – present) 2. Head of Agricultural Technology Education Programme 2nd(.... to now) 3. Head of Agricultural Technology Education Programme 1st (222-222)
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Analysis of the Digestibility of Modified Corn Starch and Its Application in several Low Digestibility Products (2020-2022) 2. Application of Modified Corn Flour in the Development of Food Products with a Low Glycemic Index as an Effort to Reduce Diabetes Mellitus (2019-2020) 3. Analysis of Bioactive Components of Mangrove Leaf Extract in South Sulawesi as a Source of Antioxidants and Antimicrobials in Functional Food Development (2019-2020) 4. Development and Implementation of Multiple Choice Questions as Evaluation Instruments E-Learning at Agricultural Technology Education Department during the Covid-19 Pandemic (2020) 5. Development Quality of Evaluation Instruments E-Learning at Agricultural Technology Education Department (2019) 6. Application and Analysis College Student Acceptance Rate at Agricultural Technology Education Department in Universitas Negeri Makassar against the Kelase using the Technology Acceptance Model (2018) 7. Development of E-learning Media as an Effort to Improve the Quality Learning of Microbiology Course at Agricultural Technology Education Department in Universitas Negeri Makassar (2017)
Industry Collaboration over the last 5 years	-
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Patent :IDP000067084. Method of making modified Sosoh Corn Flour 2. IPR :EC00202114979. Application and Method of Making Herbal Sanitizer from Mangrove Leaf to Prevent the Spread of the Covid-19 Virus
Important Publication over the last 5 years	<p>Selected of recent publication in international/national journals :</p> <ol style="list-style-type: none"> 1. A Sukainah, R Fadilah, RP Putra. 2021. Analysis Quality of Soft Cheese Cottage with Additional of Pineapple Juice (Ananas Comusus (L.) Merr) and Lactobacillus fabifermentans. IOP Conference Series: Earth and Environmental Science 709 (1), 012021 2. A Sukainah, R Fadilah, A Mustarin, RP Putra, NAS Taufieq. 2019. Changes in Lactobacillus fabifermentans Population and Biochemical Changes during The Process of Controlled Corn Flour Fermentation and The Rheological Properties of Corn Flour. Journal of Physics: Conference Series 1244 (1), 012025 3. A Sukainah, E Johannes, R Fadilah, A Mustarin, RP Putra. 2019. Isolation and identification of indigenus lactic acid bacteria on corn flour BISI-16 during spontaneous fermentation process. IOP Conference Series: Earth and Environmental Science 347 (1), 012068 4. A Sukainah, RP Putra. 2019. Analysis of College Student Acceptance Rate at

	<p>Agricultural Technology Education Department Against Kelase Using the Technology Acceptance Model. Indonesian. Journal of Educational Studies 22 (1) (Indonesian Version)</p> <p>5. A Sukainah, RP Putra, R Fadilah, A Mustarin. 2019. Validation of Learning Evaluation Instruments at Biochemistry of Agricultural Products Course in Agricultural Technology Education Department, Universitas Negeri Makassar. Indonesian Journal of Educational Studies 22 (2), 94-101 (Indonesian Version)</p>
<p>Activities in specialist bodies over the last 5 years</p>	<ol style="list-style-type: none"> 1. Member of The Indonesian Association of Food Technology 2. Reviewer Journal of Pendidikan Teknologi Pertanian https://ojs.unm.ac.id/ptp 3. Member of the Regional Board of the Indonesian Republic Expert Lecturer Association (ADRI South Sulawesi) 4. Member Board Trustees of the Technology Education Association Indonesian Vocational (APTEKINDO)

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Name	Dr. Muhammad Rais, MP., MT
Post	Learning Strategy, Learning Design, Blended Learning, Technical and Vocational Education, Educational Technology
Academic Career	<ol style="list-style-type: none"> 1. Doctorate (Learning Technology) at Universitas Negeri Malang (2007-2011) 2. Master (Mechanical Engineering) at Universitas Brawijaya (2006-2008) 3. Master (Agricultural Mechanization) at Universitas Gadjah Mada (2001-2004) 4. Undergraduate (Mechanical Engineering Education)-IKIP Ujung Pandang (1994-1999)
Employment	<ol style="list-style-type: none"> 1. Lecturer at Universitas Negeri Makassar (January 2005 - present) 2. Head of Mechanical Engineering Education Study Program (2011-2015) 3. Head of the Laboratory of Multimedia Studio FT UNM (2019-2022) 4. Secretariat of the Online Learning Team and SYAM OK UNM Application (2020-present)
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Strengthening of New Student Character Values Based on Reflective Learning : A Model of Inculcating Anti-Violence and Preventing Brawl (2016) 2. Development of Application Model (Edu-Games) "My Profession": A Media of Introducing Early Career Interests and Future Early Childhood Education Students (2017) 3. Future E-Kompas: A Service Model Development of Specialization for High School Students to Improve Knowledge of Higher Education Elections (2018) 4. Survey on the Availability of Productive Teachers, Teaching Factory, DU-Di Partnership, Infrastructure and Waiting Period for Vocational School Graduates as Efforts to Prepare SMK Towards the Industrial Revolution 4.0 in South Sulawesi (2019) 5. The Effect of Project-Based Learning Blended Learning on Students' Digital Literacy Ability in Different Cognitive Styles (2020)
Industry Collaboration over the last 5 years	-
Patents and proprietary rights	<ol style="list-style-type: none"> 1. EDU-GAME PROFESSION (Getting to Know Early Childhood Career and Future Interests) Computer Program EC00201820365, 9 July 2018 2. The Future of E-Kompas Application: A Service Model Development of Specialization for High School Students to Increase Knowledge of College Selection for Computer Programs. EC00201944199, 28 Juny 2019
Important Publication over the last 5 years	<ol style="list-style-type: none"> 1. Application of Career Assessment Model to Assist Students in Choosing Department in Senior High School. International Journal of Sciences: Basic and Applied Research (IJSBAR). Vol. 30 Issue 5, 2016. 403-415 2. Reflective learning model in improving student critical thinking skills. Global Journal of Engineering Education, World Institute for Engineering and Technology Education (WIETE). Vol. 19 Issue 1, Maret, 2017. 19-23 3. The Influence of the Inquiry Learning Model and Learning Style on the Drawing Technique of Students. Global Journal of Engineering Education, World Institute for Engineering and Technology Education (WIETE). Volume 20, Number 1, 2018, page:64-68. 4. Skill Competency Test Model (UKK) Graduates of Partnership-Based Vocational High School: Preparing Graduates Facing the Fourth Industrial Revolution. Advances in Social Science, Education and Humanities Research (ASSEHR), Atlantis Press. Volume 201. 2018, Pages:339-343. 5. The Development of Edu-games as a Learning Media. 1st International Conference on Advanced Multidisciplinary Research (ICAMR). Atlantis Press. Vol. 227. 2019. Page 286-289.

	<ol style="list-style-type: none"> 6. The Effectiveness of Blended Learning in Improving Media Literacy on Different Self-Regulated Learning. <i>Journal of Educational Science and Technology (EST)</i> 5 (3). 2019. 277-285 7. Blended Learning on the Development of Instructional Videos to Improve Abilities in Learning About Concepts and Procedures. <i>Proceedings of the International Conference on Online and Blended Learning (ICOBL)</i>. 2020. Vol. 440. Page 114-117 8. The Effectiveness of Project-Based Blended Learning in Accommodating Digital Literacy Skills. <i>Proceeding of The International Conference on Science and Advanced Technology (ICSAT)</i>. 2020. Page 1727-1736.
<p>Activities in specialist bodies over the last 5 years</p>	<ol style="list-style-type: none"> 1. As Invited Speaker at the International Conference on Online and Blended Learning 2019 (ICOBL 2019) Yogyakarta State University 2. Reviewer on the <i>Journal of Energy and Manufacturing Technology</i> Malang State Polytechnic in 2020. http://jetm.polinema.ac.id/index.php/JETM 3. As the PEKERTI/AA Training Team for Makassar State University 2020

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Name	Dr. Subari Yanto, M.Si
Post	Civic education; Pancasila education; Sanitation and Handling of Agricultural Waste; Sanitation and Handling of Agricultural Waste; Coastal and Marine Management; Ecotourism; Oceanography; Fish Processing Industry Management
Academic Career	<ol style="list-style-type: none"> 1. Doctorate (Coastal and Marine Environment) –Universitas Brawijaya (2006-2009) 2. Master (National Defence)- Universitas Gadjah Mada (1996-1999) 3. Undergraduate (Pancasila Moral Education)-IKIP Ujung Pandang (1984-1989)
Employment	Lecture at Universitas Negeri Makassar
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. The Influence of Population Behavior on the Conservation of the Crab Habitat (<i>Portunus pelagicus</i>) (2018) 2. Bioavailability and the Impact of Eutropication on the Level of Lead and Cadmium Pollution in the Coast of Makassar City (2018) 3. Development and Study on the Implementation of Multiple Choice Questions as Quality Evaluation Instruments in E-Learning Learning in the Agricultural Technology Education Study Program during the Covid-19 Pandemic (2020)
Industry Collaboration over the last 5 years	<ol style="list-style-type: none"> 1. Empowerment of Village-Owned Enterprises (BUMDES) BLM Makassar 2. DUDI Development Expert (Balai PAUDNI) Makassar
Patents and proprietary rights	
Important Publication over the last 5 years	<ol style="list-style-type: none"> 1. Rammang-Rammang Ecotourism 2. Handling Critical Land with the Goddess Fortuna Approach 3. Utilization of Gold Snail (<i>Pomacea canaliculata</i> L) and Crab Shell Waste (<i>Portunus pelagicus</i>) as Animal Feed to Increase Duck Egg Production. Journal of Agricultural Technology Education 3 (2), 2018, 137-147 4. Utilization of Bantotan Weeds as Vegetable Pesticides for Control of Kuya Lice Pests on Cucumber Plants. Journal of Agricultural Technology Education 2 (1), 2018, 77-85 5. Analysis of the physical and chemical properties of crab (<i>Portunus pelagicus</i>) nuggets with various types of flour as fillers. Journal of Agricultural Technology Education 3 (2), 2018, 148-155 6. The Effect of Drying Using a Room Dryer on the Quality of Sago Flour. Journal of Agricultural Technology Education 4, 2020, 104-112
Activities in specialist bodies over the last 5 years	

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Name	Dr. Ernawati Syahrudin Kaseng, S.Pi., M.Si
Post	Fish Hatchery Technology;Aquaculture Technology;Planktonology;Aquatic Ecology;Water Conservation;Ecotourism;
Academic Career	1. Doctorate (Agricultural Sciences) –UNHAS-tahun 2. Master (Biological Conservation)-UI-tahun 3. Undergraduate (Fisheries)-UNHAS-tahun
Employment	Lecturer at Agricultural Technology Education Study Programme
Research and Development Projects over the last 5 years	1. Changes in the Structure of the Macrozoobenthic CommunityMangrove Ecosystem Succession Process Rehabilitation andNatural (2016) 2. Bacterial Activity and Glucose Level TrackingBlood from Black Raw Leaf Extract (<i>Rhizophoramucronata</i>) (2016) 3. The making of bamboo roasted pepes goldfish inBarru Regency (2016) 4. Diversity of Molluscs and FactorsEnvironment on Mangrove Vegetation in Muara SungaiPancana, Barru Regency (2017) 5. Improving the Quality of Toddler Biscuits with AdditionsAnchovy Powder (2017) 6. Mangrove Ecosystem Management Strategy and StudiesBioecology: Study case in Tanete Rilau DistrictBarru Regency (2017) 7. Seaweed Flour Substitution (<i>Eucheuma Cottonii</i>) In Making Ekadorula Dumplings As an Alternative Foods High in Iodine in Elementary School Children UNM - Makassar (2017) 8. Innovation of basic traditional cakes yellow Gastain for improving the quality of cakes (2018) 9. <i>Eucheuma cottoni</i> Seaweed Development in the making of high fiber and iodium Meat Ball (2018) 10. Environmental factors in nursery and Giving Organic Feed to Catfish (<i>Clarias batracus</i>) Pancana village in Tanete Rilau DistrictBarru (2019) 11. Consumer Sensory on Seaweed Dodol (<i>Eucheuma cottoni</i>) with the addition of starch and Glutinous Rice Flour (2019)
Industry Collaboration over the last 5 years	
Patents and proprietary rights	1. IPR: EC00202112292. Training Model for Making Nira Preservative from Guava Leaves (2021) 2. IPR: EC00202112293. Diversification Model of Marine Fish Processed in Pancana Village, Barru Regency (2021) 3. IPR: EC00202112294. Coastal Community Empowerment Model through Natural Resource-Based Development and Processing in TaneteRilau District, Barru Regency (2021)
Important Publication over the last 5 years	1. Gastropod Diversity in Natural Mangrove Forest Area in Kuri Beach Area, Nisombalia Village, Marusu District, Maros Regency. Bionature 18 (1), 2018. 2. The Influence of the Discovery Learning Learning Model on the Understanding of Biological Concepts and the Scientific Attitude of Students at SMA Negeri 3 Takalar. UNM Journal of Biological Education 1 (1), 2018, 31-46 3. Analysis of water quality in nursery ponds for African catfish (<i>Clarias gariepinus</i>) with the addition of cassava leaf flour (<i>Manihot utilisima</i>) as artificial feed. Journal of Agricultural Technology Education 5, 2019, 131-144
Activities in specialist bodies over the last 5 years	

9	
Name	Dr. Ir. Nur Rahmah, M.Si
Post	Entrepreneurship, Quality Management & Food Regulation, Packaging and Storage Techniques, Food Security, Seaweed processing technology, Economics & Engineering Management, Agricultural Industrial System, Plantation Product Processing Technology.
Academic Career	<ol style="list-style-type: none"> 1. Doctorate (Agricultural Sciences, Agricultural Socio-Economics)- Hasanuddin University from 2010-2015 2. Master (Agribusiness)- Hasanuddin University from 1995-1997 3. Undergraduate (Agronomi)- Universitas Halu Oleo from 1989-1994
Employment	<ol style="list-style-type: none"> 1. Lecturer at Halu Oleo University (December 2005- July 2019) 2. Lecturer at Makassar State University (August 2019 – present)
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Reallocation of Regional Government Expenditures for the Agricultural Sector in Efforts to Increase Job Opportunities and Output and Reduce Poverty in Southeast Sulawesi Province) (tahun??) 2. (The Strategy of Bajo Women in the Sustainability of Household Livelihoods in Ranooha Raya Village, South Konawe Regency) (Tahun???) 3. (Strengthening the Women Farming Entrepreneur Institution in the Maritime Community in Moramo District, Konawe Selatan Regency) (tahun??) 4. (Application of E-Learning as a Learning Media in the Agricultural Technology Education Study Program) (Tahun)
Industry Collaboration over the last 5 years	-
Patents and proprietary rights	IPR : EC00202115529 (Zero Waste Agriculture Based Agribusiness System as an Effort for Household Food Security during the Covid-19 Pandemic)
Important Publication over the last 5 years	<ol style="list-style-type: none"> 1. Nur Rahmah, Hartina Batoa, 2017. Comparative Study of the Role of Bajo Women in Ranooha Raya Village, South Konawe Regency. Journal of Agricultural Social and Political Sciences. Halu Oleo Faculty of Agriculture ISSN: 1410-4466 2. Muhammad Aswar Limi, Putu Arimbawa, Budiyanto, Nur Rahmah, Edi Dwi Cahyono, 2018. The Roles of Local Institution to Improve Farmer Access to Foods and Production Capacities. WSEAS Transactions on Business and Economics. Print ISSN: 1108-9526 E-ISSN: 2224-2899 Vol. 15 3. Hartina Batoa, La Rianda, Weka Widayati, Dasmin Sidu, Nur Rahmah, Putu Arimbawa, 2018. The Effect of Human Capital, Social, and Competency on the Empowerment of Bajo Ethnic Community in the Regency of Muna: A Gender Perspective. Agriculture, Forestry and Fisheries 2018: 7 (1): 6-10 http://www.sciencepublishinggroup.com/j/aff doi: 10.11648j: aff.20180701.12 ISSN: 2328-563X (Print): ISSN2328-5648 (online) 4. Nur Rahmah, 2018. Strengthening of Women Farming Entrepreneur Institutions in the Maritime Community in Moramo District, Konawe Selatan Regency. Social and Social Journal Vol. 20 No.2 ISSN 1410-4466 5. Nur Rahmah, Andi Muhammad Akram Mukhlis, Andi Alamsyah Rivai, 2020. Zero Waste Agriculture-Based Agribusiness System as an Effort for Household Food Security During the Covid-19 Pandemic. National Seminar Proceedings. ISBN: 978-623-7496-57-1
Activities in specialist bodies over the last 5 years	Reviewer Journal of Pendidikan Teknologi Pertanian https://ojs.unm.ac.id/ptp

10	
Name	Indrayani, S.Pi, M.Biotech.Stu, Ph.D
Post	Microbiology, Agricultural Biochemistry, Applied Biology, Functional Food, Toxicology, Planktonology, Water Quality, Fish Feed, Enzyme Technology, Seaweed Processing Technology, Fermentation Technology
Academic Career	<ol style="list-style-type: none"> 1. Doctorate (Biological Sciences/Microalgae Biotechnology) at Murdoch University, Australia (2011-2017) 2. Master (Biotechnology Studies) at Flinders University, Australia (2004-2007) 3. Undergraduate (Aquatic Resources Management) at Hasanuddin University, Indonesia (1992-1997)
Employment	<ol style="list-style-type: none"> 1. Lecturer at Halu Oleo University (December 2001- July 2020) 2. Lecturer at Makassar State University (August 2020 – present)
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Isolation and Screening of Oleaginous Marine Microalgae Potential for Outdoor mass Cultivation in Saline-Hypersaline Media as Biodiesel feedstock (2017-2019) 2. Integrated Multi Trophic Aquaculture (Vannamei shrimp, Milk Fish and Seaweed) in Marginal Shrimp Ponds in Southesat Sulawesi Indonesia (2017) 3. Development of Integrated System of Multicomodities Aquaculture (Lobster, Mabe Pearl, Grouper) for increase productivity by 300% in Floating Net Cages (2019-2020)
Industry Collaboration over the last 5 years	-
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Halophilic Microalga <i>Skeletonema</i> sp.UHO29 as Biodiesel Feedstock (registered patent: SID201906912 / 8 Agustus 2019) 2. Integrated Aquaculture System (lobster, fish and mabe pearl) in Double Pocket Floating Cage and Hanging Rope (registered patent : SIDS00201910111/7 November 2019) 3. Oleaginous Marine Microalga <i>Nannochloropsis</i> sp. UHO3 as Biodiesel Feedstock (registered Patent : SID202002279 / 23 Maret 2020)
Important Publication over the last 5 years	<p>Selected of recent publication in reputable international journals from a total of approx. 9 :</p> <ol style="list-style-type: none"> 1. Indrayani I., Moheimani N. R., Borowitzka M. A., 2019 Long-term reliable culture of a halophilic diatom, <i>Amphora</i> sp. MUR258, in outdoor raceway ponds. <i>Journal of Applied Phycology</i> 31:2771-2778 2. Indrayani I., Moheimani N. R., de Boer K., Bahri P. A., Borowitzka M. A., 2020 Temperature and salinity effects on growth and fatty acid composition of a halophilic diatom, <i>Amphora</i> sp. MUR258 (Bacillariophyceae). <i>Journal of Applied Phycology</i> 32:977-987. 3. Indrayani, Haslianti, Asriyana, 2018 Isolation and screening of marine microalgae from Kendari waters, Southeast Sulawesi, Indonesia suitable for outdoor mass cultivation in hypersaline media. <i>AAAC Bioflux</i> 11(5):1445-1455. 4. Indrayani Indrayani, Haslianti Haslianti, Asmariansi Asmariansi, Wellem H. Muskita, Muis Balubi., 2020 Growth, biomass and lipid productivity of a newly isolated tropical marine diatom, <i>Skeletonema</i> sp. UHO29, under different light intensities. <i>Biodiversitas</i> 21 (4) : 1498-1503 DOI: 10.13057/biodiv/d210430 5. Indrayani Indrayani, Haslianti Haslianti, Asmariansi Asmariansi, Wellem H. Muskita, Ardiansyah, Herlan Hidayat., 2021 Growth and lipid production of a newly isolated microalga <i>Nannochloropsis</i> sp. UHO3 at increasing salinity.

	AAFL Bioflux 14(3): 1126-1137.
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none">1. Member of Phycological Society of Indoensia / Expert Board/2019-20242. Reviewer of the Phycological Research in 20173. Reviewer of the Journal of Applied Phycology in 20204. Editor of Journal of Fishery Science and Innovation from 2018-present

11	
Name	Dr. Ir. Muhammad Wiharto, M.Si
Post	Biology, Ecology vegetation, Biotechnology, Plant Ecology, English Language, applied Biology., Statistic, AMDAL Animal Ecology.
Academic Career	<ol style="list-style-type: none"> 1. Doctorate: Institut Pertanian Bogor 2003-2009 (Kehutanan /Teknologi Hasil Hutan) 2. Master: Universitas Gadjah Mada 1994-1998 (Biologi/ Ekologi Vegetasi) 3. Undergraduate: Universitas Hasanuddin 1986-1991 (Kehutanan /Teknologi Hasil Hutan)
Employment	Lecturer at Universitas Negeri Makassar
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Identification of Chemical Compound From Cocoa Waste and Cocoa Vinegar Resulting from the Pyrolysis Process (2020) 2. The Understory Herbaceous Vegetation at Tropical Mountain Forest of Mount Bawakaraeng, South Sulawesi (2020) 3. Determination of the Q Statistical Diversification Index Using the R Programming Language (2020) 4. Effect of application of algae sargassum sp. extract to corn plants (<i>Zea mays</i> L.) and microbial response (2020) 5. The Relationship between Socio-Economic Status and Clean and Healthy Behavior (PHBS) of the Community in Pajukukang Village, Maros Regency (2020)
Industry Collaboration over the last 5 years	-
Patents and proprietary rights	<ol style="list-style-type: none"> 1. PATENT: IDP000066432. The Process of Making Phenol from Liquid Smoked Cocoa Fruit Peel (<i>Theobroma cacao</i>) As Antiseptic 15 January 2020 2. PATENT: IDP000057663. Phenol Production Process from Kemiri Shell Liquid Smoke 02 April 2019
Important Publication over the last 5 years	<ol style="list-style-type: none"> 1. Determination of the Q Statistics Diversification Index Using the R Programming Language (Prodiding of the PKLH National Seminar-Makassar State University, 2020) 2. Effect of application of algae <i>sargassum</i> sp. extract to corn plants (<i>Zea mays</i> L.) and microbial response (IOP Conf. Series: Earth and Environmental Science 484 (2020) 012058) 3. Characteristics of Wild Orchids in Mallowa Resort at Bantimurung Bulusaraung National Park, South Sulawesi, Indonesia (Materials Science and Engineering 551 (2019) 012132) 4. Structure of The Treelets and Shrub Vegetation in Tropical Sub-Mountain Forest of Mount Salak Bogor, West Jawa, Indonesia (IOP Conf. Series: Journal of Physics: Conf. Series 1244 (2019) 012018) 5. Tree Vegetation Structure at the Realolo Village Bantimurung Bulusaraung National Park Maros District (International Journal on Advanced Science Engineering Information Technology, Vol.8 (2018) No. 3)
Activities in specialist bodies over the last 5 years	Reviewer Journal of Pendidikan Teknologi Pertanian https://ojs.unm.ac.id/ptp

12	
Name	Dr. Muhammad Wijaya M, S.Si, M.Si
Post	Applied Chemistry; Sanitation and Agricultural Waste Management; Waste treatment; Chemical environment
Academic Career	<ol style="list-style-type: none"> 1. Doctorate (PSL) at IPB University (2005-2011) 2. Master (Physical Chemistry) at Institut Teknologi Bandung (2001-2003) 3. Undergraduate (Chemistry) at Universitas Gadjah Mada (1992-1997)
Employment	Lecture at Universitas Negeri Makassar
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Cellulose Compound of Cacao Waste and Chemical Composition of Cacao Vinegar with GC-MS Method (2019) 2. Pyrolysis Thermal Decomposition Yield and Composition of Chemical Compounds in Liquid Smoke of Cocoa Pods (2019) 3. The Effect of Pyrolysis Temperature on the Yield of Cocoa Waste Liquid Smoke in Determining the Reaction Rate (2020) 4. Development of Processed Cocoa Products for Polyphenol Production based on Clean Production and Utilization of Cocoa Waste as Bio Composites, Anti Termites and Natural Disinfectants (2016) 5. Production of Bio Batteries and Bio Ethanol from Biomass Waste (Pine Wood, Cashew Skin, and Melon Fruit Skins) with Nano Carbon Technology as Biofuels for Electric Cars, Irons and Handpones (2016).
Industry Collaboration over the last 5 years	-
Patents and proprietary rights	<ol style="list-style-type: none"> 1. PATENT: IDP000066432 The Process of Making Phenol from Liquid Smoke of Cocoa Pods (Theobroma cacao) as an antiseptic. January 15, 2020 2. PATENT: IDP000057663 Production Process of Phenol from Tempurung Kemiri Liquid Smoke. April 02, 2019
Important Publication over the last 5 years	<ol style="list-style-type: none"> 1. N Sya'bania, M Anwar, M Wijaya .2020. Development of Animated Video-Based Learning Media with Guided Inquiry Learning Model to Improve Students' Motivation and Learning Outcomes. Chemistry Education Review (CER) 4 (2), 34-44 2. BS Rahayu, N Herawati, M Wijaya. 2020. Synthesis of Manganese Oxide Nanoparticles with Sol Gel Method and Test of Catalytic Activity on the Degradation of Rhodamine Chemica Dyes. Scientific Journal of Chemistry and Chemistry Education 21 (2), 190-199 3. N Nurnaningsih, R Fadilah, M Wijaya .2021. Analogue Sausage Formulation Based on Rice Bran and Oyster Mushrooms as Functional Food. Journal of Agricultural Technology Education 7 (1), 43-52 4. A Fitria, M Wijaya, M Danial.2020. Development of Student Worksheets (LKPD) Based on High Order Thinking Skills (HOTS). Chemistry Education Review (CER) 3 (2), 163-171 5. Characteristics of Physico-chemical Properties of Breadfruit Flour (<i>Artocarpus altilis</i>) with Toddo'puli Variety. Journal of agricultural technology education 3, 2020, 234-241 6. Using Pine and Cocoa Waste with Pyrolysis Technology by Liquid Smoke, Charcoal And Bio Char. Journal of Physics: Conference Series 1321 (2), 2019, 022031 7. Cellulose Compound of Cacao Waste and Chemical Composition of Cacao Vinegar with GC-MS Method. JKPK (Jurnal Kimia dan Pendidikan Kimia) 2 (3), 2018, 191-197
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Internal Research Reviewer for Kemristek/BRIN Decentralization Grants Starting 2019-Present 2. PPG Lecturer Facilitator for Science Studies. Starting Year 2020-Present

13	
Name	Dr. Yasdin Yasir, S.Pd, M.Pd
Post	Vocational Education, Health and Safety, Power Train, Ergonomic, Teaching and Learning, Automotive Industrial Management
Academic Career	<ol style="list-style-type: none"> 1. IPM Engineering Profession. Persatuan Insinyur Indonesia (2021) 2. Engineering Profession at Universitas Brawijaya (2021) 3. Doctorate (Technology and Vocational Educaion) at Universitas negeri Yogyakarta (2017) 4. Master (Industrial Engineering) at Universitas Gadjah Mada (2019) 5. Master (Technology and Vocational Education) at Universitas Negeri Makassar (2013) 6. Undergraduate (Automotive Engineering) at Universitas Negeri Makassar (2010)
Employment	<ol style="list-style-type: none"> 1. Lecturer at Universitas Negeri Makassar 2. Head of the Center for Research and Strengthening Innovation
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. The effectiveness of the corn sheller machine (2016) 2. The effectiveness of gas fired corn sheller machines (2017) 3. Comparison of the effectiveness of a diesel-fueled corn sheller machine with a gas-fired corn sheller machine (2018) 4. Application of gas fired corn sheller machine (2019) 5. Application of diesel-fueled corn sheller machine (2020)
Industry Collaboration over the last 5 years	<ol style="list-style-type: none"> 1. Design and manufacture of diesel fueled corn shelling machines (Patners: PT. Karya Teknik Gowa) 2. Design and manufacture of gas fired corn shelling machines (Patners: PT. Karya Teknik Gowa)
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Book: Application of Family Construction Model to Weak Economic Communities in Coastal Areas (2020) 2. Paper: The Application of Pucu Rebbung Motif Design Technology to Silk Woven Fabrics as an Effort to Preserve the Local Culture of the Bugis Tribe (2020) 3. Peper: Application of the Development of Caca Wali Motif Silk Woven Fabric in Wajo Regency (2020) 4. Paper: PKM of the Blacksmith Group in Tonronge, Marioriawa District, Soppeng Regency (2020) 5. Paper: Application of Design Technology for Balo Silk Weaving with Caca Wali Combination in the Silk Craft Industry in Wajo Regency (2020) 6. Design of Innovative Work of Double Hand Washing Tools from Wooden Frames using a Practical and Efficient 300 Liter Tandom Water (2021) 7. Design of Innovative Work of Double Hand Washing Tools from Wooden Frames using a 150 Liter Bucket Easy to Move (2021)
Important Publication over the last 5 years	<ol style="list-style-type: none"> 1. International Journal of Architecture, Arts and Applications Volume 6, Issue 4, December 2020, Pages: 71-74 2. International Journal of Environmental Protection and Policy Volume 8, Issue 6, November 2020, Pages: 117-122 3. Universal Journal of Educational Research 8(12): 6676-6683, 2020. Sys Rev Pharm 2020;11(12):325-329 4. International Journal of Innovation, Creativity and Change Volume 11, Issue 2, 2020 5. Journal of Physics: Conference Series 1387 (2019) 012094

	<ol style="list-style-type: none"> 6. VANOS Journal of Mechanical Engineering Education Vol.4, No.1, July 2019, Page.19-28. 7. Teknik Mesin “Teknologi” 8. Jurnal MEKOM (Media Komunikasi Pendidikan Kejuruan)
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Aptekindo 2. Indonesia Engineers Association

14	
Name	Ratnawaty Fadilah, S.TP, M.Sc
Post	Microbiology, Food Technology, Functional Food, Toxicology, Fermentation Technology,
Academic Career	<ol style="list-style-type: none"> 1. Master (Food and Science Technology) at Gadjah Mada University, Yogyakarta, Indonesia (2008-2010) 2. Undergraduate (Agriculture Postharvest Technology) at Sam Ratulangi University, Indonesia (1998-2004)
Employment	Lecturer at Makassar State University (April 2015 – present)
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Analysis of the Digestibility of Modified Corn Starch and Its Application in several Low Digestibility Products (2020-2022) 2. Application of Modified Corn Flour in the Development of Food Products with a Low Glycemic Index as an Effort to Reduce Diabetes Mellitus (2019-2020) 3. Analysis of Bioactive Components of Mangrove Leaf Extract in South Sulawesi as a Source of Antioxidants and Antimicrobials in Functional Food Development (2019-2020) 4. Scoping Study: Fisheries, Mangrove and Fisheries in Indonesia (2017- 2019) 5. Building with Nature (BwN) in Demak (2015-2020)
Industry Collaboration over the last 5 years	
Patents and proprietary rights	Patent : IDP000067084. Method of Making Modified Sosoh Corn Flour
Important Publication over the last 5 years	<ol style="list-style-type: none"> 1. Sukainah, Fadilah R, RP Putra and Akifah, 2021. <i>Quality of Soft Cheese Cottage with Additional of Pineapple Juice (Ananas Comusus (L.) Merr) and Lactobacillus Fabifermentans.</i> IOP Conf. Ser.: Earth Environ. Sci. 709 012021 2. Qurani, Fawzi, Fadilah R and Kismorodati. 2021. <i>Empowering Fish Farmer Through Farmer Field School: Toward Sustainable Aquaculture Practice.</i> IOP Conf. Ser.: Earth Environ. Sci. 750 012054 3. Adolphe O. Debrot, Fadilah.R, et., al. 2020. <i>Non-Timber Forest Product Livelihood-Focused Interventions in Support of Mangrove Restoration: A Call to Action.</i> Forests, 11, 1224; www.mdpi.com/journal/forests 4. Fadilah, R et al. 2020. <i>Development and Assessment on the Implementation of Multiple Choice Questions as Quality Evaluation Instruments in Learning Enzyme Technology through Kelase in the Agricultural Technology Education Department during the Covid-19 Pandemic.</i> ICSAT, International Conference on Science and Advance Technology. UNM 5. A Sukainah, E Johannes, R Fadilah, A Mustarin, RP Putra. 2019. Isolation and identification of indigenous lactic acid bacteria on corn flour BISI-16 during spontaneous fermentation process. IOP Conference Series: Earth and Environmental Science 347 (1), 012068 6. Fadilah, R, and Marhayati. 2018 . <i>Application E-Learning system in Education of Agricultural Technologies, Journal of Education of Agricultural Technologies</i>, Engineering Faculty 7. Yusran, NM, Arbainsyah, Fadilah R, Laila. 2020. <i>Bekantan dan Habitatnya di Sungai Hitam.</i> Environmental Learning and Initiatives Institute (ELTI) 8. M Rais, Fadilah R, and AA Rivai. The effectiveness of blended learning in improving media literacy on different self-regulated learning. Journal of Educational Science and Technology (EST) 5 (3). 2019. 277-285

Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none">1. Assessor in area of workplace assessment with qualification : assessor of competency2. Member of The Indonesian Association of Food Technology3. Reviewer Journal of Pendidikan Teknologi Pertanian https://ojs.unm.ac.id/ptp
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Name	Amirah Mustarin, S.Pi, M.Si
Post	Applied mathematics;Fish Hatchery Technology;Coastal and Marine Management;Aquaculture Technology;Fish feed;Fish Diseases;Aquatic Ecology;Project Evaluation and Business Planning;Water Conservation;Ecotourism;Fish Processing Industry Management;Ihktiology;
Academic Career	1. Master (Agribisnis)-UNHAS-tahun 2. Undergraduate (Fisheries)-UNHAS-tahun
Employment	Sekretaris prodi (July 2017 - present)
Research and Development Projects over the last 5 years	1. StudyUtilization of Seaweed Cultivation as One of the Marine Biological Resources (2018) 2. Students' Perceptions of Utilization of the LMS-based E-learning Program in Aquaculture Technology Unit (2018) 3. Development of oyster mushroom (<i>Pleurotus ostreatus</i>) cultivation technology in the conditions of the Covid-19 pandemic (2020) 4. Development of E-Learning-based learning tools and learning effectiveness in the Agricultural Technology Education Study Program during the Pandemic (2020)
Industry Collaboration over the last 5 years	
Patents and proprietary rights	
Important Publication over the last 5 years	1. Social Ecomomic Conditions of Seaweed Farmers in Jeneponto Regency: Advances in Social Science, Education and Humanities Research (ASSEHR), volume 227, 1 st International Conference onAdvanced Multidisciplinary Research (ICAMR 2018) ISBN:978-94-6252-706-5 2. Students' Perceptions of the Utilisation of the LMS-based E-learning Program in Aquaculture Technology Unit: Prosiding seminar nasional lembaga penelitian universitas negeri makassar "diseminasi hasil penelitian melalui optimalisasi sinta dan hak intelektual" ISBN : 978-602-5554-71-1 3. Texture Charecteristics of Chips Produced by Hot Sand Fryng: 3rd ICMSTEA. IOP Conf.Series: Journal of Physics: Conf. Series 1244 (2019) 4. Spatial multi-criteria approach for determining the cultivation location of seaweed <i>Eucheuma cottoni</i> in Takalar regency, South Sulawesi: AACL Bioflux Aquaculture, Aquarium, Conservation & Legislation - International Journal of the Bioflux Society 2019, Volume 12, Issue 4.
Activities in specialist bodies over the last 5 years	Assessor in area of workplace assessment with qualification : assessor of competency

16	
Name	Reski Praja Putra, S.TP, M.Si
Post	Applied Chemistry, Biochemistry of Agricultural Products, Agricultural Microbiology, Food Safety, Postharvest Physiology, Processing and Preservation Agricultural Products Technology, Design of Engineering Experiments, Food Analysis, Nutritional Evaluation of Agricultural Products, Fermentation Technology, Herbal Food Processing Technology, Quality Management and Food Regulation, Food Fortification Technology, Plantation Product Processing Technology, Functional Food Development, Enzyme Technology, New Product Processing Technology, Toxicology, Sensory Evaluation, Seaweed Processing Technology
Academic Career	<ol style="list-style-type: none"> 1. Master (Food Science) at IPB University, Indonesia (2007-2010) 2. Undergraduate (Agricultural Product Technology) at Universitas Hasanuddin, Indonesia (2002-2007)
Employment	Lecturer at Universitas Negeri Makassar (March 2019-present)
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Analysis Bioactive Components of Mangrove Leaf Extract in South Sulawesi as a Source of Antioxidants and Antimicrobials in Functional Food Development (2019-2020) 2. Development and Implementation of Multiple Choice Questions as Evaluation Instruments E-Learning at Agricultural Technology Education Department during the Covid-19 Pandemic (2020) 3. Development Quality of Evaluation Instruments E-Learning at Agricultural Technology Education Department (2019) 4. Application and Analysis College Student Acceptance Rate at Agricultural Technology Education Department in Universitas Negeri Makassar against the Kelase using the Technology Acceptance Model (2018) 5. Development of E-learning Media as an Effort to Improve the Quality Learning of Microbiology Course at Agricultural Technology Education Department in Universitas Negeri Makassar (2017)
Industry Collaboration over the last 5 years	-
Patents and proprietary rights	Patent : IDP000067084. Method of Making Modified Sosoh Corn Flour
Important Publication over the last 5 years	<ol style="list-style-type: none"> 1. A Sukainah, R Fadilah, RP Putra. 2021. Analysis Quality of Soft Cheese Cottage with Additional of Pineapple Juice (<i>Ananas Comusus (L.) Merr</i>) and <i>Lactobacillus fabifermentans</i>. IOP Conference Series: Earth and Environmental Science 709 (1), 012021 2. Putra, RP. 2021. Prebiotic Potential of Modified Banana Flour Using Autoclave Heating Followed by Retrogradation. Jurnal Pendidikan Teknologi Pertanian 6 (2), 349-360 (Indonesian Version) 3. A Sukainah, R Fadilah, A Mustarin, RP Putra, NAS Taufieq. 2019. Changes in <i>Lactobacillus fabifermentans</i> Population and Biochemical Changes during The Process of Controlled Corn Flour Fermentation and The Rheological Properties of Corn Flour. Journal of Physics: Conference Series 1244 (1), 012025 4. A Sukainah, E Johannes, R Fadilah, A Mustarin, RP Putra. 2019. Isolation and identification of indigenous lactic acid bacteria on corn flour BISI-16

	<p>during spontaneous fermentation process. IOP Conference Series: Earth and Environmental Science 347 (1), 012068</p> <ol style="list-style-type: none"> 5. A Sukainah, RP Putra. 2019. Analysis of College Student Acceptance Rate at Agricultural Technology Education Department Against Kelase Using the Technology Acceptance Model. Indonesian Journal of Educational Studies 22 (1) (Indonesian Version) 6. A Sukainah, RP Putra, R Fadilah, A Mustarin. 2019. Validation of Learning Evaluation Instruments at Biochemistry of Agricultural Products Course in Agricultural Technology Education Department, Universitas Negeri Makassar. Indonesian Journal of Educational Studies 22 (2), 94-101 (Indonesian Version) 7. A Dirpan, R Latief, A Syarifuddin, ANF Rahman, RP Putra, SH Hidayat. 2018. The use of colour indicator as a smart packaging system for evaluating mangoes Arummanis (<i>Mangifera indica</i> L. var. Arummanisa) freshness. IOP Conference Series: Earth and Environmental Science 157 (1), 012031
<p>Activities in specialist bodies over the last 5 years</p>	<ol style="list-style-type: none"> 1. Assessor in area of workplace assessment with qualification : assessor of competency 2. Member of The Indonesian Association of Food Technology 3. Reviewer Journal of Pendidikan Teknologi Pertanian https://ojs.unm.ac.id/ptp

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Name	Nunik Lestari, S.T.P, M.Si
Post	
Academic Career	<ol style="list-style-type: none"> 1. Master (Agricultural & Food Mechanical Engineering) at IPB University, Indonesia (2009-2012) 2. Undergraduate (Agricultural Engineering) at Lampung University, Indonesia (2003-2007)
Employment	Lecturer at Universitas Negeri Makassar (March 2019 – present)
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Performance Test of Greenhouse Type Dryer for Drying Chili with Blanching Treatment (2020) 2. Effect of Low Temperature Long Time (LTLT) Blanching Method Before Drying on Color and Vitamin C Content of Dried Chili (2020) 3. Cabinet Dryer Performance on Drying Red Ginger by Utilizing Wasted Heat of Air Conditioning Condenser (2020) 4. Kinetics and Mathematical Model of <i>Eucheuma cottonii</i> Drying in Processing of Alkali Treated <i>Cottonii</i> (2019) 5. Potential Wasted Heat of AC Condenser as Heating Source in Cabinet Dryer (2019)
Industry Collaboration over the last 5 years	-
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Copyrights Number: 000163206; Agricultural Tools and Machinery (Book). 2. Copyrights Number: 000221426; Research Report Title: Performance of Solar Dryer Type Greenhouse Effect For Drying Chili With Low Temperature Long Time Blanching Treatment.
Important Publication over the last 5 years	<ol style="list-style-type: none"> 1. Irfan, A. M., Lestari, N., Arimansyah, A., & Rasyid, A. R. (2021). Chilli Drying Kinetics by Low Temperature-Long-Time Blanching Treatment. <i>AGRITEKNO: Journal of Agricultural Technology</i>, 10(1), 24-35. 2. Lestari, N., Samsuar, S., Novitasari, E., & Rahman, K. (2020). The performance of the cabinet dryer on drying red ginger by utilizing the wasted heat of the air conditioning condenser. <i>Journal of Agritechno</i>, 13(1), 57-70. 3. Usman, U., Muchtar, A., Muhammad, U., & Lestari, N. (2020). Prototype and performance of hybrid solar heating and photovoltaic heater grain dryer with temperature monitoring system. <i>Journal of Electrical Engineering</i>, 12(1), 24-32. 4. Samsuar, S., Sapsal, M. T., Achmad, M., Mubarak, H., & Lestari, N. (2020). Evaluation of Land Suitability of Food Crops Commodities Based on Spatial Data in Tanete Riaja District, Barru Regency. <i>Journal of Agritechno</i>, 13(2), 90-96. 5. Lestari, N., Fadilah, R., Mukhlis, A. M. A., & Samsuar, S. (2020). Effect of Low Temperature Long Time Blanching Treatment on the Characteristics of Dried Chili. <i>Agrika</i>, 14(2), 140-156.
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Member of the Indonesian Agricultural Engineering Association (PERTETA) 2. Editor of Journal of Agricultural Technology Education https://ojs.unm.ac.id/ptp

18	
Name	Amiruddin Hambali, S.TP, M.Si
Post	Nutritional Evaluation of Agricultural Products, Evaluasi Sensory, Quality Management and Food Regulation, Microbiology, Fermentation Technology, Teknologi Pengolahan dan Pengawetan Hasil Pertanian, Herbal Food Processing Technology, Biochemistry of Agricultural Products, Postharvest Physiology, Teknik Pengemasan dan Penyimpanan, Enzyme Technology, Toxicology dan Food Safety, Herbal Food Processing Technology.
Academic Career	<ol style="list-style-type: none"> 1. Undergraduate (Agricultural Product Technology) at Hasanuddin University, Indonesia (2003-2009) 2. Master (Food Science and Technology) at Hasanuddin University, Indonesia (2010-2012)
Employment	Lecturer at Makassar State University (March 2019 – present)
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Test of Horse Manure Organic Fertilizer Combustion With Several Fertilizers Against Curly Chili Growth In Nutrient Poor Soil (2019) 2. Optimizing the use of the Learning Management System (LMS) in the Agricultural Technology Education Study Program, Faculty of Engineering, Makassar State University. (2019) 3. Development of e-learning-based learning tools and learning effectiveness in agricultural technology education study programs during the covid-19 pandemic (2020)
Industry Collaboration over the last 5 years	
Patents and proprietary rights	
Important Publication over the last 5 years	<ol style="list-style-type: none"> 1. Darmawan Risal, Amiruddin Hambali., 2020. Testing of Horse Manure Organic Fertilizer Combustion With Several Fertilizers Against Curly Chili Growth In Nutrient Poor Soil. Published in the Ecosolum Journal, Department of Soil Science, Faculty of Agriculture. Hasanuddin University (ISSN ONLINE : 2654-430X, ISSN : 2252 - 7923) 2. Ratnawaty Fadilah, Reski Praja Putra, Amiruddin Hambali., 2020. Application of the LEISA (Low External Input Sustainable Agriculture) System to Support Sustainable Agriculture in Samangki Village, Simbang District, Maros Regency. UNM.
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Member of The Indonesian Association of Food Technology 2. Editor Journal of Pendidikan TeknologiPertanian https://ojs.unm.ac.id/ptp

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Name	Andi Alamsyah Rivai, S.Pi, M.Si
Post	Water Conservation, Water Quality, Fishing Ground Analysis, Coastal and Marine Management, Aquatic Ecology, Fishing Technology, Oceanography, Planktonology, Design of Experience, Statistics, Introduction to Agricultural Technology, Information Systems and Personnel Management, Ichthyology
Academic Career	<ol style="list-style-type: none"> 1. Master (Marine Technology) at IPB University, Indonesia (2014-2017) 2. Undergraduate (Utilization of Fishery Resource) at Hasanuddin University, Indonesia (2010-2014)
Employment	Lecturer at Universitas Negeri Makassar (2019-present)
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Development of a Drip Irrigation Control System for Precision Farming in Cocoa Plant Nurseries (2020) 2. Kinetics Modeling of Seaweed Drying <i>Eucheuma cottonii</i> (2019-2020) 3. Prospect Analysis of Fish Farming Development in the Coastal of Mallusetasi Barru Regency (2020) 4. The Effect of Project-Based Learning Blended Learning on Students' Digital Literacy Ability in Different Cognitive Styles (2020) 5. Study of the Ability of Seagrass Beds in Morphological Self-Adjustment to Various Types on the Coast of Mallusetasi Beach, Barru Regency (2020) 6. Application of Blended Learning in the Development of the 4.0 Era Learning System for Lecturers in the Agricultural Technology Education Study Program, FT UNM (2019) 7. Study of the Utilization of Seaweed Cultivation as One of Marine Biological Resources (2018) 8. Spatial-Temporal Analysis of Lift Net Fisheries in the Seribu Islands, Jakarta (2016)
Industry Collaboration over the last 5 years	<ol style="list-style-type: none"> 1. Community Assistance in Zero Waste Agriculture-based Agribusiness Systems for Farmer Groups in Maros Regency (2020) 2. Collaboration with Farmer Groups in Utilizing Natural Pesticides to Support Sustainable Agriculture in Maros Regency (2020)
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Copyrights Number: EC00202115529 Zero Waste Agriculture Based Agribusiness System as an Effort for Household Food Security during the Covid-19 Pandemic 2. Copyrights Number: 000241963 Development of Drip Irrigation Control System for Precision Farming in Cocoa Plantation
Important Publication over the last 5 years	<p>Selected of recent publication from a total of approx. 15 :</p> <ol style="list-style-type: none"> 1. M Rais, R Fadillah, AA Rivai. The effectiveness of blended learning in improving media literacy on different self-regulated learning. <i>Journal of Educational Science and Technology (EST)</i> 5 (3). 2019. 277-285 2. Rivai, A.A., H. Syam, R.F. Rauf, J. Jamaluddin. 2021. Effect of harvest time on <i>eucheuma cottonii</i> seaweed production in Takalar Regency during East Monsoon. <i>Jurnal Pendidikan Teknologi Pertanian</i>, 6(2), 361-371. 3. Jamaluddin, A Mustarin, AA Rivai. 2019. Spatial multi-criteria approach for determining the cultivation location of seaweed <i>Eucheuma cottonii</i> in Takalar Regency, South Sulawesi, Indonesia. <i>AAACL Bioflux</i> 12 (4), 1413-1430 4. AA Rivai, Metusalach, Kasmiasi . 2018. Study of fresh frigate tuna (<i>Auxis thazard</i>) quality which were sold by mobile fish retailer in makassar. <i>IOP Conference Series: Earth and Environmental Science</i> 176 (1), 012039 5. AA Rivai, VP Siregar, SB Agus, H Yasuma. 2018. Analysis of habitat characteristics of small pelagic fish based on generalized additive models in Kepulauan Seribu waters. <i>IOP Conference Series: Earth and Environmental Science</i> 139 (1), 012014

	<p>6. AA Rivai, VP Siregar, SB Agus, H Yasuma. 2017. Potential fishing ground mapping based on gis hotspot model and time series analysis: a case study on lift net fisheries in Seribu Island. <i>Jurnal Ilmu dan Teknologi Kelautan Tropis</i> 9 (1), 337-356.</p>
<p>Activities in specialist bodies over the last 5 years</p>	<ol style="list-style-type: none"> 1. Member of the Regional Leadership Council of South Sulawesi: Association of Indonesian Human Resource Development Institutions 2. Member of Marine Technology Society 3. Editor on the <i>Jurnal Pendidikan Teknologi Pertanian</i>. https://ojs.unm.ac.id/ptp 4. Reviewer on the <i>Jurnal Sositologi ITB</i> https://journals.itb.ac.id/index.php/sostek. 5. Author of Questions on the Professional Teacher Education Program for the Ministry of Education and Culture of Indonesia 6. Author of Module on the Professional Teacher Education Program for the Ministry of Education and Culture of Indonesia 7. Question Reviewer on the Professional Teacher Education Program for the Ministry of Education and Culture of Indonesia

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Name	Reski Febyanti Rauf, S.TP, M.Si
Post	Fluid Mechanics, Agricultural Production Machine, Thermodynamic/Heat Transfer, Drying Engineering, Storage and Packaging Engineering, Agricultural Machinery and Equipment, Mechanical and Physical Properties of Biological Materials, Applied Physics, Drainage and Irrigation Engineering, Design of Agricultural Product Processing Machines.
Academic Career	<ol style="list-style-type: none"> 1. Master (Postharvest Technology) at IPB University, Indonesia (2013-2016) 2. Undergraduate (Agricultural Engineering) at Hasanuddin University, Indonesia (2008-2012)
Employment	Lecturer at Makassar State University (March 2019 – present)
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Development of a Drip Irrigation Control System for Precision Farming in Cocoa Nurseries (2020) 2. Development of E-Learning-Based Learning Tools and Learning Effectiveness in the Agricultural Technology Education Study Program during the Covid-19 Pandemic (2020) 3. Kinetic Modeling of Seaweed <i>Eucaema cottonii</i> Drying (2019- 2020)
Industry Collaboration over the last 5 years	-
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Patent Number: IDS000002999; Invention Title: Metode Pengurangan Rasa Sepat Kesemek Tipe Astringent. 2. Copyrights Number: 000241963; Research Report Title: Pengembangan Sistem Kontrol Irigasi Tetes untuk Precision Farming pada Pembibitan Tanaman Kakao.
Important Publication over the last 5 years	<ol style="list-style-type: none"> 1. Rauf, F.R., Y.A. Purwanto, Sobir. 2017. Postharvest Treatment of Kesemek Reundeu fruit (<i>Diosphyros kaki</i> L.) Using Carbon Dioxide Gas. <i>comm. Horticulture Journal</i>, 1(1), 14-19. 2. Rauf, F.R., A. Sukainah, M. Rais. 2019. Women's Empowerment through Training on Making Ebi Dry Noodles in Communities in Takalar Regency. <i>DEDICATION</i>, 20(1), 83-89. 3. Jamaluddin, J., H. Syam, R.F. Rauf, A.A. Rivai. 2020. Development of Control System for Monitoring the Function of Drip Irrigation Equipment in Plant Nurseries. <i>Proceedings of The International Conference on Science and Advanced Technology (ICSAT)</i>, 1168-1173. 4. Rivai, A.A., H. Syam, R.F. Rauf, J. Jamaluddin. 2021. Effect of Harvest Age on <i>Eucaema cottonii</i> Seaweed Production in Takalar Regency during the East Season. <i>Journal of Agricultural Technology Education</i>, 6(2), 361-371. 5. Rauf, R.F. 2021. Kinetic Modeling of <i>Eucaema cottonii</i> Seaweed Drying Using a Solar Dryer with the Greenhouse Effect. <i>Journal of Agricultural Technology Education</i>, 7(1), 139-152.
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Member of Perhimpunan Sarjana Pertanian Indonesia Regional South Sulawesi / Expert Board/2017-2022 2. Editor Journal of Pendidikan TeknologiPertanian https://ojs.unm.ac.id/ptp

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Name	Andi Muhammad Akram Mukhlis, ST., M.Si
Post	Drying Engineering, Food and agricultural products processing
Academic Career	<ol style="list-style-type: none"> 1. Master (Agricultural & Food Mechanical Engineering) at IPB University, Indonesia (2014-2016) 2. Undergraduate (Mechanical and Biosystem Engineering) at IPB University, Indonesia (2010-2014)
Employment	Lecturer at Universitas Negeri Makassar (March 2019 – present)
Research and Development Projects over the last 5 years	
Industry Collaboration over the last 5 years	
Patents and proprietary rights	IPR : EC00202115529 (Zero Waste Agriculture Based Agribusiness System as an Effort for Household Food Security during the Covid-19 Pandemic)
Important Publication over the last 5 years	<ol style="list-style-type: none"> 1. Mukhlis, A. M. A., Hartulistiyoso, E., & Purwanto, Y. A. (2016). Effect of Water Content on Some Physical Properties of White Pepper Seeds. <i>agriTECH</i>, 37(1), 16-22. 2. Hartulistiyoso, E., Widodo, S., & Mukhlis, A. M. A. (2018). Application of Microwave Energy for Warehouse Pest Control <i>Araecerus fasciculatus</i> (De Geer) on Cocoa Beans. <i>Journal of Agricultural Engineering</i>, 6(2), 145-150. 3. Hartulistiyoso, E., Purwanto, Y. A., & Mukhlis, A. M. A. (2019, June). Spouted Bed Drying of White Pepper (<i>Piper nigrum</i> L.) with Microwave Preheating Treatment. In <i>IOP Conference Series: Materials Science and Engineering</i> (Vol. 557, No. 1, p. 012045). IOP Publishing. 4. Lestari, N., Fadilah, R., Mukhlis, A. M. A., & Samsuar, S. (2020). Effect of Low Temperature Long Time Blanching Treatment on the Characteristics of Dried Chili. <i>Agrika</i>, 14(2), 140-156. 5. Mukhlis, A. M. A., & Fadhilah, N. (2021). Mathematical Modeling of White Pepper Drying Characteristics in Spouted Bed Dryer With Microwave Preheating Treatment. <i>Journal of Agritechno</i>, 8-17.
Activities in specialist bodies over the last 5 years	Editor Journal of Pendidikan Teknologi Pertanian https://ojs.unm.ac.id/ptp

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Name	Khaidir Rahman, S.Pd., Gr., M.Pd.
Post	
Academic Career	<ol style="list-style-type: none"> 1. Professional Education for Teachers in the Field of Agribusiness, Food Crop and Horticulture at Universitas Negeri Makassar, Indonesia (2018-2019) 2. Master (Technology and vocational education) at Universitas Negeri Makassar, Indonesia (2015-2017) 3. Undergraduate (Agricultural technology education) at Universitas Negeri Makassar, Indonesia (2011 – 2014)
Employment	Lecturer at Makassar State University (March 2019 – present)
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. Design And Test Of Unmanned Aerial Vehicle (UAV) Spraying Capacity In Quadcopter Based Plant Spraying System (2020) 2. Performance of Cabinet Dryer in the Red Ginger Drying by Utilizing the Waste Heat of Air Conditioner Condenser (2020) 3. The Effectiveness of Project-Based Blended Learning in Accommodating Digital Literacy Skills (2020) 4. Development and Application of ATMega 2560 Based Trainer in Supporting the Learning Process in the Faculty of Engineering State University of Makassar (2019)
Industry Collaboration over the last 5 years	-
Patents and proprietary rights	-
Important Publication over the last 5 years	<p>Selected of recent publication in reputable international/nasional journals from a total of approx. 4 :</p> <ol style="list-style-type: none"> 1. Husain Syam, Jamaluddin, Khaidir Rahman. 2020. Design And Test Of Unmanned Aerial Vehicle (UAV) Spraying Capacity In Quadcopter Based Plant Spraying System. Proceeding of The International Conference on Science and Advanced Technology (ICSAT) ISBN: 978-623-7496-62-5 2. Nunik Lestari, Samsuar, Ervi Novitasari, Khaidir Rahman. 2020. Performance of Cabinet Dryer in the Red Ginger Drying by Utilizing the Waste Heat of Air Conditioner Condenser. Journal : Agritechno Vol. 13 Issue : 1 3. Muhammad Rais, Andi Alamsyah Rivai, Khaidir Rahman, Ervi Novitasari. 2020. The Effectiveness of Project-Based Blended Learning in Accommodating Digital Literacy Skills. Proceeding of The International Conference on Science and Advanced Technology (ICSAT) ISBN: 978-623-7496-62-5 4. Jamaluddin, H Syam and K Rahman. 2019 Development and Application of ATMega 2560 Based Trainer in Supporting the Learning Process. Journal of Physics: Conference Series vol: 1387 issue : 1
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Secretary of the alumni association Agricultural Technology Education Study Program FT UNM (2018 - 2022) 2. Editor on the Jurnal Pendidikan Teknologi Pertanian. https://ojs.unm.ac.id/ptp 3. Author of Questions on the Professional Teacher Education Program for the Ministry of Education and Culture of Indonesia 4. Question Reviewer on the Professional Teacher Education Program for the Ministry of Education and Culture of Indonesia

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Name	Ervi Novitasari, S.Pd., Gr., M.Pd.
Post	
Academic Career	<ol style="list-style-type: none"> 1. Professional Education for Teachers in the Field of Agribusiness, Food Crops and Horticulture at Makassar State of University, Indonesia (2019-2020) 2. Master (Technology and vocational education) at Makassar State of University, Indonesia (2015-2017) 3. Undergraduate (Agricultural technology education) at Makassar State of University, Indonesia (2011 – 2014)
Employment	Lecturer at Makassar State University (March 2019 – present)
Research and Development Projects over the last 5 years	<ol style="list-style-type: none"> 1. The Use of Led Grow Light in the Development of Microcontroller-Based Mini Hydroponic Simulator Learning Media at Agricultural Vocational Schools (2019) 2. Baglog Position manipulation and Combination of Sveral Planting Media On The Growth of White Oyster Mushroom (<i>Pleurotus ostreatus</i>) (2020) 3. Performance of Cabinet Dryer in the Red Ginger Drying by Utilizing the Waste Heat of Air Conditioner Condenser (2020) 4. The Effectiveness of Project-Based Blended Learning in Accommodating Digital Literacy Skills (2020)
Industry Collaboration over the last 5 years	-
Patents and proprietary rights	Number and date of application: EC00202120651, 20 April 2021 Guidebook Instructions: Implementation of the Application Program for the Application of Drone-Based Drone Hexacopter in Efficient Spraying Process of Rice Plants
Important Publication over the last 5 years	<p>Selected of recent publication in reputable international/nasional journals from a total of approx. 4 :</p> <ol style="list-style-type: none"> 1. Jamaluddin, Amirah Mustarin, Ervi Novitasari. 2019. The Use of Led Grow Light in the Development of Microcontroller-Based Mini Hydroponic Simulator Learning Media at Agricultural Vocational Schools. PROSIDING OF UNM LP2M NATIONAL SEMINAR - 2019 "The Role of Research in Supporting the Acceleration of Sustainable Development in Indonesia" ISBN: 978-623-7496-14-4 2. Ervi Novitasari, Jamaluddin, Amirah Mustamin. 2020. Baglog Position manipulation and Combination of Sveral Planting Media On The Growth of White Oyster Mushroom (<i>Pleurotus ostreatus</i>). Proceeding of The International Conference on Science and Advanced Technology (ICSAT) ISBN: 978-623-7496-62-5 3. Nunik Lestari, Samsuar, Ervi Novitasari, Khaidir Rahman. 2020. Performance of Cabinet Dryer in the Red Ginger Drying by Utilizing the Waste Heat of Air Conditioner Condenser. Journal : Agritechno Vol. 13 Issue : 1 4. Muhammad Rais, Andi Alamsyah Rivai, Khaidir Rahman, Ervi Novitasari. 2020. The Effectiveness of Project-Based Blended Learning in Accommodating Digital Literacy Skills. Proceeding of The International Conference on Science and Advanced Technology (ICSAT) ISBN: 978-623-7496-62-5
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Member of the alumni association Agricultural Technology Education Study Program FT UNM (2018 - 2022) 2. Editor on the Jurnal Pendidikan Teknologi Pertanian. https://ojs.unm.ac.id/ptp