STAFF HANDBOOKS

MECHANICAL ENGINEERING EDUCATION STUDY PROGRAM

"Growing with Character"

2020

UNESA

ASIIN

Faculty of Engineering
Universitas Negeri Surabaya

pendidikan-mesin.ft.unesa.ac.id | Campus UNESA Ketintang Surabaya 60227 | East Java - Indonesia

Staff Handbook



Dr. A. Grummy Wailanduw, M.Pd., M.T.

POSITION	**Lecturer**		
	Doctor of Mechanical Engineering		
	Lecturer on Department of Mechanical Engineering	Lecturer on Department of Mechanical Engineering	1986 - now
ACADEMIC CAREER	**Degree**	**University**	**Year**
	Bachelor of Mechanical Engineering Education	Institut Keguruan dan Ilmu Pendidikan (IKIP) Surabaya	1980 - 1985
	Master of Vocational Education	Institut Keguruan dan Ilmu Pendidikan (IKIP) Yogyakarta	1991 - 1996
	Master of Enginnering	Institut Teknologi Sepuluh Nopember (ITS) Surabaya	1998 - 2002
	Doctor of Mechanical Engineering	Institut Teknologi Sepuluh Nopember (ITS) Surabaya	2010 - 2016
EMPLOYMENT	**Position**	**Place**	**Year**
	Chairman of the Education Planning and Development Team (TP3)	Department of Mechanical Enginnering, Faculty of Engineering Universitas Negeri Surabaya (Unesa)	2002-2009
	Head Sub of Aerodynamics Laboratory	Department of Mechanical Enginnering, Faculty of Engineering Universitas Negeri Surabaya (Unesa)	2013 - now
	Head of Center for Community Service and Science and Technology Marketing	Lembaga Penelitian dan Pengabdian pada Masyarakat (LPPM) Universitas Negeri	2016 - 2019

		Surabaya (Unesa)	
	Chief Editor of the Journal "Otopro"	Department of Mechanical Enginnering, Faculty of Engineering Universitas Negeri Surabaya (Unesa)	2012 - now

RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Development of a flow visualization tool learning module in the Automotive Aerodynamics Laboratory Department of Mechanical Engineering FT-Unesa (2019, as head)
	2. Effect of the "G/D" ratio gap on the flow characteristics across an arrangement of four circular in-line cylinders near the wall (Year Two) (2019, as head)
	3. Development of flow visualization tools in the automotive aerodynamics laboratory, majoring in Mechanical Engineering FT-Unesa (2018, as head)
	4. Effect of "G/D" ratio gap on flow characteristics across an arrangement of four circular in-line cylinders near the wall (Year One) (2018, as head)
	5. Development of a 3-R machine learning module in the AC laboratory, Department of Mechanical Engineering FT-Unesa (Survey) (2017, as head)
	6. Effect of the array "L / D" ratio on the flow characteristics across an in-line circular arrangement of four cylinders near the wall (2016, as head)
	7. Numerical simulation of flow across an arrangement of four circular in-line cylinders near the wall (2015, independent)

PATENTS AND PROPRIETARY RIGHT	**Judul**	**Tahun**
	Alat Recovery dan Recycle Refrigeran	2015 (ditolak)

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. A. Grummy Wailanduw, Triyogi Yuwono, Priyo Heru Adiwibowo, Force coefficient characteristics on a four circular cylinders in an in-line square configuration near a plane wall at "small gap", AIP Conference Proceedings **2187**, 020025 (2019), https://doi.org/10.1063/1.5138280
	2. A. Grummy Wailanduw, Triyogi Yuwono, Numerical simulation of cross-flow around four circular cylinders in an in-line square configuration with the critical spacing ratio "L/D" near a plane wall, AIP Conference Proceedings **1984**, 020001 (2018); https://doi.org/10.1063/1.5046585
	3. A. Grummy Wailanduw, Triyogi Yuwono, Numerical simulation of cross-flow around four circular cylinders in-line square configuration near a plane wall at supercritical Reynolds number AIP Conference Proceedings **1983**, 020024 (2018); https://doi.org/10.1063/1.5046220
	4. A. Grummy Wailanduw, Priyo Heru Adiwibowo, Simulasi numerik

	aliran melintasi susunan empat silinder sirkular pada rasio L/D= 3,0 dekat dinding, Jurnal Mesin, ITB, Vol. 25, No. 1, (2016), 29-40 http://journals.itb.ac.id/index.php/jtms/issue/view/305
	5. A. Grummy Wailanduw, Triyogi Yuwono , Wawan Aries Widodo, Numerical simulation of cross-flow around four circular cylinders in-line square configuration near a plane wall, ARPN Journal of Engineering and Applied Sciences, Vol.11, No.2, January 2016 www.arpnjournals.com/jeas/volume_02_2016.htm
	6. A. Grummy Wailanduw, Triyogi Yuwono , Wawan Aries Widodo, Flow around two side-by-side circular cylinders with intermediate spaced near a plane wall, Journal of Advances and Application in Fluid Mechanics, Vol.18, No.2, October 2015 http://dx.doi.org/10.17654/AAFMOct2015_277_290 http://pphmj.com/abstract/9350.htm
	7. A. Grummy Wailanduw, Triyogi Yuwono , Wawan Aries Widodo, Simulasi numerik dengan pendekatan 3D-URANS aliran yang melintasi susunan empat silinder sirkular dekat dinding pada “small-gap” Jurnal “Teknik Mesin” Vol.15, No.1, April 2014 Universitas Kristen Petra http://jurnalmesin.petra.ac.id/index.php/mes/article/view/19252 DOI: https://doi.org/10.9744/jtm.15.1.20-25
	8. A. Grummy Wailanduw, Triyogi Yuwono , Wawan Aries Widodo, Flow characteristics around four circular cylinders in equispaced arrangement near a plane-wall Applied Mechanics and Materials, Vol.493, 2014, https://www.scientific.net/AMM.493/5 https://doi.org/10.4028/www.scientific.net/AMM.493

ACTIVITIES IN SPECIALIST BODIES	Organization	Position	Period
	Ikatan Peduli Otomotif “OTOpoint”, Jawa Timur	R & D	2008 - 2014

Staff Handbook



Agung Prijo Budijono, S.T., M.T.

POSITION	**Lecturer of Mechanical Engineering Department**		
	Master of Engineering Design and Manufacture		
	Degree	**University**	**Year**
	Lecturer of Mechanical Engineeing Department	Universitas Negeri Surabaya - Indonesia	2000 - now
ACADEMIC CAREER	Bachelor of Mechanical Engineering	ITS Surabaya - Indonesia	1991 - 1995
	Master of Mechanical Engineering	ITS Surabaya - Indonesia	2002 - 2004
EMPLOYMENT	**Position**	**The place**	**Year**
	Lecturer of Mechanical Engineering Department	Universitas Negeri Surabaya	2000 - now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Productivity optimalization of tempeh small and medium enterprise (SME) by designing the production equipment, "*Optimalisai Produktivitas UKM Tempe Melalui Rancang Bangun Peralatan Proses Produksi*" (2015 as a member).		
	2. Designing a semi-automatic drying machine to cope with a Brem SME's problem. "*Rancang Bangun Mesin Pengering Semi Otomatis Untuk Mengatasi Permasalahan UKM Brem*" (2015 as a leader)		
	3. Productivity optimalization of tempeh small and medium enterprise (SME) by designing the production equipment, "*Optimalisai Produktivitas UKM Tempe Melalui Rancang Bangun Peralatan Proses Produksi*" (2016 as a member).		
	4. WEB development as an information and promotion medium of S1 Mechanical engineering education program, Department of Mechanical Engineering. "*Pengembangan WEB sebagai Media Informasi dan Promosi Program S1 Pendidikan Teknik Mesin Jurusan Teknik Mesin*" (2016 as a member)		
	5. Designing a semi-automatic drying machine to cope with a Brem SME's problem. "*Rancang Bangun Mesin Pengering Semi Otomatis Untuk Mengatasi Permasalahan UKM Brem*" (2016 as a leader)		

	6. Development of Computer Assisted Relay Control Trainer and Practicum Guide to Support Control / Control System Lectures. *"Pengembangan Trainer dan Panduan Praktikum Kontrol Relay Berbantuan Komputer untuk Menunjang Perkuliahan Sistem Kendali/Kontrol"* (2017 as a member)
	7. Implementation of Microcotroller-based Shadow training tools to improve agility of Badminton athletes. *"Implementasi Alat Latihan Shadow Berbasis Microcontroller Dalam Meningkatkan Kelincahan Atlet Bulutangkis"* (2017 as member).
	8. Learning Tools Development for Integrated courses of designing techniques, machine elements and machine drawing based on contextual learning. *"Pengembangan Perangkat Pembelajaran Teknik Merancang Terintegrasi Dengan Elemen Mesin Dan Menggambar Mesin Berbasis Pembelajaran Kontekstual"* (2017 as a member)
	9. Bed Grain Dryer Inovation using Hybrid Energy (Solar energy and biomass) equipped with an IoT Monitoring System. *"Inovasi Bed Grain Dryer Menggunakan Hybrid Energy (Solar Energy Dan Biomasa) Dilengkapi IoT Monitoring System"* (2019 as a leader)
	10. Analysis of induction electromagnetic heating effect in the Ferrous and Non-Ferrous Metal Friction Welding Process. "*Analisa Pengaruh Pemanasan Menggunakan Metode Induksi Elektromagnetik Pada Proses Pengelasan Friksi Logam Ferro Dan Non-Ferro*" (2019 as member).
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. IbM for Shoe Entrepreneur Group. *"IbM KELOMPOK PENGUSAHA SEPATU"* (2015 as a leader)
	2. IbIKK for TTG equipment supplier and Food producer SME, *"IbIKK Penyedia Peralatan TTG Untuk UKM Produsen Makanan"* (2016 as member)
	3. SMK teacher training for machining course based on CNC Technilogy. "*Pelatihan Guru SMK Pemesinan Berbasis Teknologi CNC*" (Computer Numerically Controled) (2016 as member)
	4. IbM for Wates village farmer group, Panekan District, Magetan Regency. *"IbM Kelompok Tani Desa Wates Kecamatan Panekan Kabupaten Magetan"* (2016 as leader).
	5. Skills oriented Lathe Training for Vocational School Students. *"Pelatihan Mesin Bubut Berorientasi Keterampilan Siap Kerja Bagi Siswa SMK"* (2017 as member)
	6. IbIKK for TTG equipment providers for food-producing SMEs. *"IbIKK Penyedia Peralatan TTG Untuk UKM Produsen Makanan"* (2017 as a member)
	7. IbIKK for TTG equipment providers for food-producing SMEs. *"IbIKK Penyedia Peralatan TTG Untuk UKM Produsen Makanan"* (2018 as a member)
	8. PKM for SME Group of Tempe Producer in Sepande Village, Candi District, Sidoarjo Regency, East Java Province, *"PKM Kelompok UKM Produsen Tempe Desa Sepande Kecamatan Candi Kabupaten Sidoarjo Provinsi Jawa Timur"* (2018 as a member).

	9. Traditional healty dring processing machine to enhance productivity of healty dring SME in Sruni Village, Gedangan Sidoarjo, *"Mesin Pengolah Jamu Tradisional untuk Meningkatkan Produktivitas UKM Jamu Desa Sruni Gedangan Sidoarjo"* (2019 as a member)	
	10. Programmable Logic Controller (PLC) Training for SMKN 1 student , Bendo Magetan, *"Pelatihan Programmable Logic Controller (PLC) Bagi Siswa SMKN 1 Bendo Magetan"* (2019 as a member)	
PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	1. The process of making helmet from sugar cane waste, *"Proses Pembuatan Helm Limbah Ampas Tebu"* (registered)	2017
	2. The process of making Fish Scales cleaning machine using AUTOWAW-Automatic Water Washer- technology. *"Proses Pembuatan Mesin Pembersih Sisik Ikan Dengan Menggunakan Teknologi AUTOWAW "Automatic Water Washer""* (registered)	2017
	3. The process of making a semi-aitomatic multipurpose gadung chip slicer machine with hybrid energy saving-Gading Chip Slicer-. *"Proses Pembuatan Mesin Pengiris Keripik Gadung Serbaguna Semi Otomatis Hybrid Hemat Energi "Gadung Chip Slicer""* (registered)	2017
	4. The proces of making quail egg peeler and adding autowasher to increase production capacity, *"Proses Pembuatan Alat Pengupas Kulit Telor Puyuh Serta Penambahan Autowasher Untuk Meningkatkan Kapasitas Produksi"*(registered)	2017
	5. Loprec-Lower Power Cosumption- minimalist Onion Slicer Machine, *"Mesin Pengiris Bawang Minimalis Loprec (Low Power Comsumption)"* (registered)	2017
	6. Semi-automatic egg cracker and yolk spliting machine, *"Mesin Pemecah dan Pemisah Kuning Telor Semi Otomatis Loprec (Low Power Comsumption)"*	2018
IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. **Agung Prijo Budijono**, Sudarso. The design of rice husk grinder as an effort to empower the farmer groups of Wates village, Panekan District, Magetant Regency,*"Rancang Bangun Mesin Penggiling Sekam Padi Sebagai Upaya Pemberdayaan Kelompok Tani Desa Wates Kecamatan Panekan Kabupaten Magetan"* Proceeding of the 2016 PPM Unesa National Seminar	
	2. Budihardjo Achmadi Hasyim, **Agung Prijo Budijono**, Djoko Suwito, Any Sutiadiningsih, Implementation of appropriate-technology based production equipment to increase productivity of SME food producer.	

	"Implementasi Peralatan Produksi Berbasis Teknologi Tepat Guna Untuk Meningkatkan Produktivtas UKM Produsen Makanan." Proceeding of the 2016 PPM National Seminar
	3. **Agung Prijo Budijono**, Bidya Nur Habib, Nandha Setiyawan. The Effect Of Angle Slope Variation And Dark Light Chimney For Humidity And Temperature Full Transparent Walled Dryer Chamber. AIP Conference Proceedings 2016.
	4. Wahyu Dwi Kurniawan, **Agung Prijo Budijono**. Developing Computer Assisted Media of Pneumatic System Learning Oriented to Industrial Demands. Journal of Pendidikan Teknologi dan Kejuruan, Volume 23 Number 3 Year 2017.
	5. Budihardjo Achmadi Hasyim, **Agung Prijo Budijono**, Djoko Suwito, Any Sutiadiningsih, Application of appropriate-technology based production equipment to increase productivity of SME food producer *"Penerapan Peralatan Produksi Berbasis Teknologi Tepat Guna Untuk Meningkatkan Produktivitas UKM Produsen Makanan."* Proceeding of the 2017 PPM National Seminar
	6. **Agung Prijo Budijono**, Wahyu Dwi Kurniawan. Efficiency of Batik Production Process through the Application of a Batik Drying Machine and a Semi-Automatic Batik Wax Heating Stove. *"Efisiensi Proses Produksi Batik Melalui Penerapan Mesin Pengering Batik Dan Kompor Pemanas Lilin Batik Semi Otomatis."* Jurnal Otopro, Volume 13 Number 1 Year 2017.
	7. **Agung Prijo Budijono.** Design of Shadow Trainer Equipment to Measure the Agility of Badminton Player. Journal of Advanced Science Letters Volume 23 Issue 12, 2017.
	8. Haikal Fikri Abdi Rachman, Yosha Dima Distya, Anita Wahyuningtias, **Agung Prijo Budijono**. Smaizer (Smart Agility Speed Analyzer) Innovation Shadow Exercise Tool In Increasing Athlete Disclosure. Journal of International Conference Proceedings 2018
	9. **Agung Prijo Budijono**, The Effectiveness of the Production Process of Sepande Tempe Smasher Through the Application of a Screw System Soybean Crusher, *"Efektivitas Proses Produksi Ukm Tempe Sepande Melalui Penerapan Mesin Pemecah Kedelai Sistem Screw."* Proceeding of the 2018 PPM National Seminar .
	10. Budihardjo Achmadi Hasyim, **Agung Prijo Budijono**, Djoko Suwito, Any Sutiadiningsih, Application of Production Equipment Based on Appropriate Technology for Food Producers SMEs. *"Penerapan Peralatan Produksi Berbasis Teknologi Tepat Guna Pada UKM Produsen Makanan."* Proceeding of the 2018 PPM National Seminar.
	11. **Agung Prijo Budijono**, Djoko Suwito, Wahyu Dwi Kurniawan. Application of Animal Feed Mixer Machine to Increase the Effectiveness and Efficiency of the Animal Feed Stirring Process *211`* Jurnal Otopro, Volume 14 Nomor 1 Tahun 2018.
	12. Wahyu Dwi Kurniawan, **Agung Prijo Budijono**. Implementation of Project Based Learning Model to Increase Students' Competence in Machining Work. Prosiding Internasional Terindeks Thomson. International Conference Asosiasi Pendidikan Teknologi dan

	Kejuruan Indonesia (APTEKINDO) 2018.
	13. **Agung Prijo Budijono**, Wahyu Dwi Kurniawan. Implementation of Pneumatic Module Based on Interactive Computer Learning. Prosiding Internasional Terindeks Thomson. International Conference Asosiasi Pendidikan Teknologi dan Kejuruan Indonesia (APTEKINDO) 2018.
	14. Budihardjo Achmadi Hasyim, **Agung Prijo Budijono**, Djoko Suwito, Any Sutiadiningsih. Implementation of appropriate-technology based production equipment to increase productivity of SME food producer. *"Implementasi Peralatan Produksi Berbasis Teknologi Tepat Guna Pada UKM Produsen Makanan."* Proceeding of the 2018 PPM National Seminar.
	15. Bidya Nur Habib, **Agung Prijo Budijono** . Analysis of Energy Management of Garnesa Electric Car Based Numerical Simulation Modeling 2019. Proceeding of World Conference 2019
	16. Soeryanto, **Agung Prijo Budijono,** Redy Ardiansyah. Analysis of Determination of Motor Power Requirements in Cassava Shredding Machines. *"Analisa Penentuan Kebutuhan Daya Motor Pada Mesin Pemarut Singkong."* Jurnal Otopro Volume 14 No.02 Year 2019
	17. Wahyu Dwi Kurniawan, **Agung Prijo Budijono**, Imami Arum Tri Rahayu. Development of an Arduino-based Sensor Practicum Guide with a Collaborative Teamwork Learning Model Approach *"Pengembangan Panduan Praktikum Sensor Berbasis Arduino Dengan Pendekatan Collaborative Teamwork Learning Model."* Journal of Vocational and Technical Education (JVTE) Volume 01 Nomor 02 Tahun 2019
	18. Wahyu Dwi Kurniawan, Muhamad Arif Irfai, **Agung Prijo Budijono.** Validation of Sensor Practicum Guide Based on Arduino with Collaborative Teamwork Learning Model. International Conference on Research and Academic Community Services (ICRACOS) 2019
	19. **Agung Prijo Budijono**, I Nyoman Sutantra, Agus Sigit Pramono . Development of Flywheel Regenerative Capture System to Improve Electric Vehicle Energy Captured System. 2019 International Conference on Information and Communications Technology (ICOIACT)
	20. **Agung Prijo Budijono**, Wahyu Dwi Kurniawan, Arda Widyatama. Development of Technical Drawing Module Based On Projection and Sectional Views Equipped with Lego Block Assembly Media Assistance. Proceeding of World Conference 2019
	21. **Agung Prijo Budijono**, I Nyoman Sutantra, Agus Sigit Pramono. Ratchet Flywheel Regenerative System To Enhance Energy Captured For Electric Vehicle. AIP Conference Proceedings 2019

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**

Staff Handbook



Prof. Dr. Ir. Aisyah Endah Palupi, M.Pd.

POSITION	**Lecturer**		
	Professor of Chemical Engineering		
	Lecturer on Department of Mechanical Engineering	Universitas Negeri Surabaya-Indonesia	1998 - now
	Degree	**University**	**Year**
ACADEMIC CAREER	Bachelor of Chemical Engineering	Universitas Pembangunan Nasional "Veteran" Surabaya	1987 - 1992
	Master of Science Education (Chemistry)	Universitas Negeri Surabaya (UNESA)	1997 - 1999
	Doctor of Chemical Engineering	Institut Teknologi Sepuluh Nopember (ITS) Surabaya	2002 - 2007
EMPLOYMENT	**Position**	**Place**	**Year**
	Professor of Chemical Engineering	Universitas Negeri Surabaya-Indonesia	2015 - now
	Attache of Educational and Cultural	KBRI Manila Filipina	2014 - 2015
	Attache of Educational and Cultural	KBRI Singapura	2015 - 2018
	Head of the Higher Education Floating Unit (SP2T)	Universitas Negeri Surabaya- Indonesia	2019 - now
RESEARCH AND DEVELOPMENT PROJECT OVER	1. Perbaikan Kualitas Biodiesel Biji Karet Metode Non-Katalis Melalui Proses Pendahuluan De-Gumming Serta Uji Kinerja Mesin dan Emisi Gas Buang (2014, as head)		
	2. Studi Pelacakan (*Tracer Study*) Lulusan Prodi S-1 Teknik Mesin FT Unesa (FT Unesa, 2018, as member)		

THE LAST 5 YEARS	3. Desain Alat Pelapisan Logam Untuk Peralatan Praktik Di Laboratorium Pelapisan Logam Jurusan Teknik Mesin FT Unesa (, 2019, as head)
	4. Rancang Bangun Alat Blackening Benda Kerja Pada Proses Pelapisan Logam (multi years), 2019, as member
	5. Mengembangkan Kreatifitas Berpikir Sebagai Hasil Belajar Siswa Kelas XI Teknik Gambar Bangunan SMKN 1 Nganjuk Dengan Model Pembelajaran Langsung Pada Mata Pelajaran Pekerjaan Dasar Survei, 2019, as member
	6. Optimasi Sintesis *Graphene Oxide* dari Limbah Baterai Dengan Metode *Electrochemical Exfoliation* Sebagai Material Dasar Superkapasitor, 2019, as head
	7. Analisis Kebutuhan Sumber Daya Manusia Pendidik dan Tenaga Kependidikan Universitas Negeri Surabaya, 2019, as member

PATENTS AND PROPRIETARY RIGHT	**Judul**	**Tahun**
	-	-

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. Polina Dobromirova Peeva, **Aisyah Endah Palupi**, Mathias Ulbricht, "Ultrafiltration of Humic acid Solutions Through Unmodified and Surface Functionalized low-fouling Polyethersulfone Membranes-Effects of Feed Properties, Pore Size and Membrane Chemistry on Fouling Behavior and Cleanability", *Separation and Purification Technology*, *Elsevier Journal*, Vol. 81, 124-133, 22 Sept (2011)
	2. **Aisyah E. Palupi**, Ali Altway, Arief Widjaja, "The Application of Membrane Bio-Reactor for East Java Domestic Waste Water Treatment", *Songklanakarin Journal of Science and Technology Research and Development*, Prince of Songkla University Hat Yai, Songkla 90112 Thailand, 30 (1), 131-134, Jan-Feb (2008)
	3. Buku Ajar: Teknik Korosi (2014), ISBN: 978-979-028-723-5, University Press Unesa
	4. Teknik Korosi, Petunjuk Praktikum Elektroplating (2014), University Press Unesa
	5. Buku Panduan: Bagi Pelajar Indonesia Untuk Belajar di Filipina, (2015), ISBN: 978-602-74755-1-9, Madril Pustaka Production Surabaya
	6. Sekilas Pendidikan di Singapura (2016), ISBN: 978-602-74755-0-2 Madril Pustaka Production Surabaya
	7. Sekilas Pendidikan di Singapura, Edisi 2 (2018), ISBN: 978-602-74755-0-2, Madril Pustaka Production Surabaya.
	8. *Rising 50 Goes to Campus* (2018), ISBN: 978-602-74755-5-7, Madril Pustaka Production Surabaya
	9. Perempuan Indonesia Dulu dan Kini: Membangun Kecerdasan Bangsa di Bumi Nusantara (Perempuan Ternyata Bisa: Seimbang antara Tugas, Kodrat & Tanggungjawab), 2019, ISBN: 978-602-439-558-2, Pustaka Pelajar Yogyakarta

ACTIVITIES IN SPECIALIST BODIES	Organization	Position	Period
	Asosiasi Profesor Indonesia (API)	Secretary of Education and Human Resources Development Cluster	2019 - now
	Forum Dewan Guru Besar Indonesia (FDGBI)	Member	2018 - now
	Ikatan Sarjana Wanita Indonesia (ISWI)	Member	2011 - now

Staff Handbook



Akhmad Hafizh Ainur Rasyid, S.T., M.T.

POSITION	**Lecturer of Education of Mechanical Engineering**		
	Master in Manufacturing System		
	Degree	**University**	**Year**
	Lecturer in Mechanical Engineering Department	State University of Surabaya - Indonesia	2014 - present
ACADEMIC CAREER	Bachelor of Mechanical Engineering	University of Brawijaya - Indonesia	2006 - 2010
	Master of Mechanical Engineering	State University of Surabaya - Indonesia	2010 - 2013
EMPLOYMENT	**Position**	**Institution**	**Year**
	Lecturer in Mechanical Engineering Department	State University of Surabaya	2014 - present
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. The Effect Of Distance Spray and Painting Machine Velocity To The Surface Quality and Painting Thickness (2017)		
	2. The Development Of Air Conditioner Trainer Machine For Learning Media Of Thermodynamic Experiment (2018)		
	3. Effect Of Specimen Pre-Heating On The Welding Quality Using Electromagnetic Induction Method On The Friction Welding Of Ferro and Non-Ferro Material (2019)		
	4. The Implementation of Tracer Study on Bachelor's Degree Program (Education of Mechanical Enginering and Mechanical Engineering) and Associate Degree of Mechanical Engineering during COVID-19 Pandemic (2020)		
SOCIETY'S DEDICATION	1. Training of Automotive Body Painting (2016)		
	2. Design of a Waste Shredder as a Waste Management Tool at Rewwin Housing Estate Sidoarjo (2018)		

OVER THE LAST 5 YEARS	3. Application of Water Purification Equipment to Improve Clean Water Quality at SMKN 1 Bendo Magetan (2019)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. *Journal of Otopro, Vol. 11, year 2015* *Design of Heat Exchanger Tools on Steam Rankine Cycle Condenser equipped with Cooling Tower Plant*
	2. *Proceeding National Conference PPM, Year 2018* *Implementation Of Shoes press machine with electric thread system for small and medium business of leather shoes in Magetan*
	3. *Journal of Otopro Vol. 13, Year 2019* *Effect Of Adding Free and Fix Drag Reducing On The Propeller For The Efficiency Savonius Wind Turbine*
	4. *Journal of Otopro Vol. 12, Year 2019* *The Selecting Of Painting Parameter For Optaining Painting Thickness On The Rough Surfacess*
	5. *International Conference On Research and Academic Community Services Hosted by Institute for Research and Community Services Universitas Negeri Surabaya, year 2019* *A Design Of Semi Automatic Frying Machine For Tempe Chip Entrepeneurs*
	6. *International Conference on Research and Academic Community Services, Year 2020* *Experimental Investigation of Double Layer Blades as Obstacle Blades on Savonius Wind Turbine Performance*

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**

Staff Handbook



Ali Hasbi Ramadani, S.Pd., M.Pd.

POSITION	**Mechanical Engineering Lecturer**		
	Degree	**University**	**Year**
ACADEMIC CAREER	Bachelor of Mechanical Engineering Education	Universitas Negeri Malang (UM)	2007 - 2011
	Master of Education	Universitas Negeri Malang (UM)	2013 – 2015
EMPLOYMENT	**Position**	**Place**	**Year**
	Lecturer in the Department of Mechanical Engineering	Universitas Hayim Asy`ari Tebuireng Jombang-Indonesia	2015 - 2019
	Lecturer in the Department of Mechanical Engineering	Universitas Negeri Surabaya-Indonesia	2019 - Now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. The Effectiveness of the Use Festo Fluidsim Program in Pneumatic and Hydraulics Practicum . (Mechanical Engineering Students of Universitas Hasyim Asy`Ari) (Personal-2016)		
	2. Feasibility study on Establishment Noodle Rice Bran Stall (PDP-2016)		
	3. Design of 5 speed Manual Transmission Trainer Toyota Kijang as a learning tool for Machine elements II S1 Mechanical Engineering student Universitas Hasyim Asy'ari Tebuireng Jombang (PDP- 2018)		
	4. Design of Welding (OAW) Oxy Acetylin Welding Fueled by Acetylin Gas to Increase Learning Interest of Mechanical Engineering Students Universitas Hasyim Asy`ari . (Internal Campus - 2017)		

	5. Design and Construction of the Charpy Method of Impact Testing Equipment to Support the Learning of Materials Science Subjects in the Mechanical Engineering Laboratory UNHASY . (Internal Campus - 2018)
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Internet Training (e-Mail, Web Browsing) for PAUD and RA Teachers at the Al-Yusufi Islamic Education Foundation (2017)
	2. Microsoft Office Training (Word and Excel) for PAUD and RA Teachers at the Al-Yusufi Islamic Education Foundation (2017)
	3. Training On The Drafting Of Paud Accreditations at PAUD QOLBUN SALIM School (2018)
	4. Training PLC (Progamable Logic Control) in SMK Negeri 1 Bendo Magetan (2019)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	1. Rancang Bangun Alat Uji *Impact* Metode *Charpy*	2019

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. Kontribusi Pengetahuan Kewirausahaan, Prestasi Prakerin, kompetensi Keahlian terhadap Minat Berwirausaha dan Kesiapan Berwirausaha Siswa SMK Paket Keahlian Teknik Pemesinan di Madura (JOURNAL TEKNOLOGI DAN KEJURUAN UM-2015)
	2. Efektifitas Penggunaan Program Festo Fluidsim Dalam Praktikum Pneumatika Dan Hidrolika. (Mahasiswa Teknik Mesin Universitas Hasyim Asy`Ari) (JURNAL REKTOM UNHASY- 2017)
	3. Rancang Bangun Las (OAW) Oxy Acetylin Welding Berbahan Bakar Gas Acetylin Untuk Meningkatkan Minat Belajar Mahasiswa Teknik Mesin Universitas Hasyim Asy`ari (JOURNAL REKTOM UNHASY- 2018)
	4. Feasibility study on Establishment Noodle Rice Bran Stall (INTERNASIONAL SEMINAR – ICOVET 2017)
	5. Studi Kelayakan Perencanaan Pendirian Usaha Mie Ayam Bekatul Kemasan Berlokasi Di Tebuireng Jombang (NASIONAL SEMINAR – UPN 2017)
	6. Rancang Bangun Las (OAW) Oxy Acetylin Welding Berbahan Bakar Gas Acetylin Untuk Meningkatkan Minat Belajar Mahasiswa Teknik Mesin Universitas Hasyim Asy`ari (NASIONAL SEMINAR – UNHASY 2017)
	7. Rancang Bangun Alat Uji Impact Metod Charpy Sebagai Pendukung Pembelajaran Matakuliah ilmu Bahan Pada Laboratorium Teknik Mesin UNHASY (NASIONAL SEMINAR – UNHASY 2018)
	8. Prototype Design of Transmission Trainer as Learning Media to Support Student`s Learning Interest (INTERNASIONAL SEMINAR – ICRACOS 2019)
	9. PERANCANGAN SISTEM PENGGERAK TRAINER TRANSMISI MANUAL 5 PERCEPATAN TOYOTA KIJANG (NASIONAL SEMINAR – SAINSTEKNOPAK 2019)

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**

Staff Handbook



Ayunita Leliana, S.S., M.Pd.

POSITION	**Mechanical Engineering Lecturer**		
	Master of Language Education and Literature		
	Degree	**University**	**Year**
	Lecturer in English Literature Study Program	Universitas Negeri Surabaya-Indonesia	2008 - Now
ACADEMIC CAREER	Bachelor degree in English Literature	Universitas Negeri Surabaya-Indonesia	2000 - 2005
	Masters in Language and Literature Education	Universitas Negeri Surabaya-Indonesia	2005 – 2008
EMPLOYMENT	**Position**	**Place**	**Year**
	Lecturer in English Literature Study Program	Universitas Negeri Surabaya	2008 - Now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Implementation of the 5 Effective Traits Strategy to Improve Paragraph Writing Ability (Faculty Research, 2016)		
	2. Development Of An English Phonology Module To Improve Competency Of English Phonology Material (Faculty Research , 2017)		
	3. Development Of Vi-Learning-Based English Phonology Teaching Materials (Faculty Research, 2018)		
	4. Development Of An English Phonology Module Containing		

	Cross Culture Understanding (Faculty Research, 2019)
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Developing The Ability Of Teachers To Optimize The Role Of Language Laboratories In Improving The Quality Of Language Learning In Unesa Partner Schools (2016)
	2. Introduction To Literacy For SDLB Teacher Wira Kusuma, Ngemplak (2017)
	3. The Use Of Bilingual Booklets To Promote Surabaya Zoo Library To The Public (2018)
	4. Training On Making Disaster Response Literacy Materials For Families BPBD East Java Staff (2019)
	5. Fulfillment Of Basic Needs of People Affected Covid-19 Pandemic Around The Universitas Negeri Surabaya (2020)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	-	

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	
	1. English Friction Consonants Produced by Millenials in Rural Community: Sociophonetic Perspective (Anthology on Linguistics vol 1, 2019)

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**
	Indonesian Linguistic Society	Member	2019 - Now

Staff Handbook



Bellina Yunitasari, S.Si., M.Si.
NIP. 198706242015042001

POSITION	**Mechanical Engineering Lecturer**		
	Lecturer in the Department of Mechanical Engineering		
	Degree	**University**	**Year**
ACADEMIC CAREER	Bachelor of Chemistry (S.Si.)	Universitas Negeri Surabaya (UNESA)	2005 - 2009
	Master of Chemistry (M.Si.)	Institut Teknologi Sepuluh Nopember (ITS)	2011 - 2014
EMPLOYMENT	**Position**	**The place**	**Year**
	Lecturer in the Department of Mechanical Engineering	Department of Mechanical Engineering, FT-Unesa	2015 - Present
	Editor of Mechanical Engineering Journal	Department of Mechanical Engineering, FT-Unesa	2016 - Present
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Design of Friction Loss Trainer in a Piping System as a Learning Media in the Fluid Mechanics Laboratory in the Department of Mechanical Engineering, Unesa (2015/2016)		
	2. Web Development as an Information Media and Promotion of the Department of Mechanical Engineering, S1 Mechanical Engineering Study Program (2016/2017)		
	3. Design and Build of Cooling Tower on Engine Water Brake Dynamometer (2017/2018)		

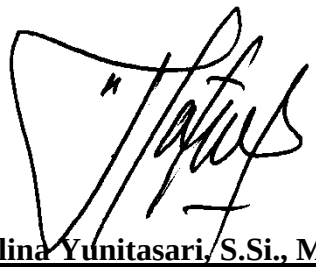
	4. Design of a Renewable Energy Power Plant Based on TiO2 Solar Cell, Biogas PLT and Fuel Cell Using Local Raw Materials to Create Independent Electrical Energy in Rural / Remote Areas (2017/2018)
	5. Trainer Design for Converting Heat Energy into Electrical Energy Based on a Thermoelectric Generator (2018/2019)
	6. Design of a Renewable Energy Power Plant Based on TiO2 Solar Cell, Biogas-PLT and Fuel Cell Using Local Raw Materials to Create Independent Electrical Energy in Rural / Remote Areas (Continued - 2018/2019)
	7. Optimization of the Synthesis of Graphene Oxide from Battery Waste Using the Electrochemical Exfoliation Method as a Base Material for Supercapacitors (2019/2020)
	8. Design of the Hooke Law Application Trainer (2019/2020)

SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Cultivation Skills Training Using Hydroponics for Retired Civil Servants in Gayungan Village (2017/2018)
	2. Increasing the Economic Value of Tofu Dregs Waste Using Rotary Technology Dryers to Make Food Flour and Animal Feed in Tawangsari Village, Sidoarjo Regency (2018/2019)
	3. Design of a Waste Shredder as a Waste Management Tool at Rewwin Sidoarjo Housing (2018/2019)
	4. Semi-Automatic Flour Mixing And Weighing Machine (Foodgrade Standard) To Increase The Productivity And Effectiveness Of Crispy Flour SMEs Sidoarjo City (2019/2020)
	5. Training on Making Processed Soap Products as Business Opportunities at SMKN 1 Bendo Magetan (2019/2020)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	-	-

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. Diastian Vinaya Wijanarko, I Made Arsana, Bellina Yunitasari. "Design of Trainer Friction Loss in Piping Systems as a Learning Media in the Fluid Mechanics Laboratory in the Department of Mechanical Engineering, Unesa". Otopro Vol 13, No 1 (2017). DOI: http://dx.doi.org/10.26740/otopro.v13n1.p1-8
	2. Aris Ansori, Bellina Yunitasari, Soeryanto Soeryanto, Muhaji Muhaji. "Hybrid Model of Rural Power Generation". Otopro Vol 13, No 2 (2018). DOI: http://dx.doi.org/10.26740/otopro.v13n2.p58-62
	3. **Bellina Yunitasari**, Dwi Heru Sutjahjo, Trio Sandi Putra "Standardization of Bioethanol Alloys of Sugarcane Topping, Pineapple Skin, and Corn Stalks". PPM National Seminar Proceedings (2018). http://prosiding.lppm.unesa.ac.id/index.php/semnasppm2018/article/view/146
	4. Aris Ansori, Bellina Yunitasari, Soeryanto and Muhaji "Environmentally Friendly Power Generation Technology with Solar PV-Biogas in Rural Areas of Eastern". IOP Conference Series: Earth and Environmental Science, Volume 239, The 12th International Interdisciplinary Studies Seminar -

	Environmental Conservation and Education for Sustainable Development November 14-15 2018, Ijen Suites Hotel, Malang, Indonesia. DOI: 10.1088 / 1755-1315 / 239/1/012030		
	5. Bellina Yunitasari. " The Potential of Coal Liquefaction in East Kalimantan as Liquid Fuel Based on the Study of Organic Geochemistry of Degradation of the Polar Coal Fraction, Pit Kancil, East Kalimantan ". Otopro Vol 13, No 1 (2017), DOI: http://dx.doi.org/10.26740/otopro.v13n1.p9-22		
ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**
	Association of Experts and Lecturers of the Republic of Indonesia_ Perkumpulan Ahli Dan Dosen Republik Indonesia (ADRI)	Member	06 May 2017



Bellina Yunitasari, S.Si., M.Si.
NIP. 198706242015042001

Staff Handbook



Dany Iman Santoso, S.T., M.T.

POSITION	**Lecturing Staff**		
	Energy conversion engineering field		
	Degree	**University**	**Year**
ACADEMIC CAREER	Bachelor of Eng.	Sepuluh Nopember Inst. of Tech.	2004 – 2009
	Master of Eng.	Sepuluh Nopember Inst. of Tech.	2010 – 2012
EMPLOYMENT	**Position**	**Place**	**Year**
	Lecturing staff	State Univ. of Surabaya	2014 – present
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Analysis on heating effect using electromagnetic induction method on friction welding process to ferrous and non-ferrous metals (2019).		
	2. Automotive technology training in SMK Negeri 1 Bendo Magetan (2019).		
	3. Development on air conditioner engine trainer as thermodynamics practice media (2018).		
	4. Motorcycle workshop management training in SMK YPM 4 Taman Sidoarjo (2018).		
	5. Spraying distance and swing step speed of painting effects on surface quality and paint thickness (2017).		
	6. Work base training on office building energy audit for high school students (2017).		
	7. Heat exchanger design on Rankine cycle condenser equipped by cooling tower (2015).		

PATENTS AND PROPRIETARY RIGHT	Title	Year
	-	-

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	
	01. **Santoso, D.I.**, Romadhoni, I.F., Yogaswara, R.R. (2020) Effect of egg freshness on baking temperature, moisture content, and water activity of pastry process. *Annals of Agric. Sci*. (received article)
	02. **Santoso, D.I.**, Antoko, B., Sasongko, H., Yuwono, T. (2020) Study of the phenomenon of droplet movement along with the height of the cooling tower. *IIUM Eng. J*. (accepted article)
	03. **Santoso, D.I.**, Antoko, B., Prabowo, Ichsani, D. (2020) Study of the evaporation process in the spray zone on a mechanical draft wet cooling tower. *J of Eng. and Technol. Sci*. (accepted article)
	04. Antoko, B, **Santoso, D.I.,** Putra, A.B.K., Sutardi. (2020) A study of air velocity in a cooling tower that affects the diameter of the droplet. *J. of Mech. Eng.* (accepted article)
	05. **Santoso, D.I.**, Antoko, B., & Ichsani, D. (2020) Optimizing solar dish performance using analytical flux distribution in focal region. *Int. J. of Renew. Energy Development* 9(1).
	06. **Santoso, D.I.**, Adiwibowo, P.H., & Rasyid, A.H.A. (2019) Analysis on Diploma III of mechanical engineering lecturing staff to university responsibility in 2014–2016 period. *Journal of Vocational and Technical Education* 1(2): 11–18.
	07. Rasyid, A.H.A., **Santoso, D.I.**, & Utama, F.Y. (2017) Election on painting parameters to get precision paint thickness for roughness surfaces. *Otopro journal* 12(2): 82–87.
	08. Arsana, I.M. and **Santoso, D.I.** (2016) Application on corn beard grinding machine to improve dairy cattle productivity in Desa Senden Kediri. *PPM Semnas Proc.* 3: 55–60.
	09. **Santoso, D.I.** and Antoko, B. (2016) The impacts of water capacity and air capacity to condensation temperature in cooling tower. *AIP Conf. Proc.* 1778: 030002.
	10. **Santoso, D.I.** and Rasyid, A.H.A. (2015) Effects of cooling water capacity variation to condensation temperature in cooling tower. *Otopro journal* 10(1): 6–18.
	11. **Santoso, D.I.** and Ichsani, D. (2015) Analysis of dish collector focal shape in vertical and horizontal direction of concentrating solar power system. *IPTEK journal of proc. series* 1: A112.

ACTIVITIES IN SPECIALIST BODIES	Organization	Position	Period

Staff Handbook



Dr. Dewanto, M.Pd.

POSITION	**Lecturer of Education of Mechanical Engineering**		
	Doctor of Vocational Education		
	Degree	**University**	**Year**
ACADEMIC CAREER	Bachelor of Education of Mechanical Engineering	IKIP Yogyakarta	1985 - 1990
	Master of Education of Mechanical Engineering	IKIP Yogyakarata	1994 – 1997
	Doctor of Vocational Education	State University of Malang	2012 - 2018
EMPLOYMENT	**Position**	**Institution**	**Year**
	Lecturer in Mechanical Engineering Department	State University of Surabaya (Unesa)	1991 - Present
	Chairman of the Cooperative	State University of Surabaya (Unesa)	2010 - 2016
	Head of the Department of Education of Mechanical Engineering	State University of Surabaya (Unesa)	2008 - 2012
	Head of Sub-Laboratory of Welding	State University of Surabaya (Unesa)	2013 - 2016
	Head of Sub-Laboratory of Fabrication	State University of Surabaya (Unesa)	2017 – present
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Development of the Department's WEB as an Information Media and Promotion of the Mechanical Engineering Department for the Diploma III Mechanical Engineering Study Program (2016)		
	2. Development of Metacognition Skills, Communication Skills and Collaboration Skills on Vocational Education Program Students, Department of Mechanical Engineering, Faculty of Engineering, State University of Surabaya (2017)		
	3. Development of E-Portfolio-Based Assessment Tools to Improve Metacognition, Collaboration, and Communication Ability of		

	Students in the Vocational Education Program of the Mechanical Engineering Department of Unesa (2017)
	4. Understanding of Civitas Academica of Engineering Faculty of Unesa on the Vision and Mission of the Faculty (2018)
	5. Effect of Number of Blades on Centrifugal Pump Performance
	6. The Effect of Fiber Orientation Direction on the Bending Strength of Carbon Fiber Reinforced Polyaster Composites - Glas Fiber (2019)
	7. Service Quality of the Engineering Faculty, State University of Surabaya (Unesa) and its Effect on Customer Satisfaction
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. IbM of Bendul Merisi and Ketintang Villages Facing Productivity and Service Quality Problems (2016)
	2. Science and Technology for Entrepreneurship at Surabaya State University (2016-2018)
	3. Optimization of the Utilization of TTG Research Results to Improve Bakery Business Productivity (2018)
	4. PPK Technopreneurship Development at Unesa Ketintang Campus, Surabaya (2019)

Staff Handbook



Diah Wulandari, S.T., M.T.

POSITION	**Lecturer of Mechanical Engineering Faculty of Engineering, Unesa**		
	Master of Science in Mechanical System Design		
	Degree	**University**	**Years**
	Lecturer in the Department of Mechanical Engineering, Faculty of Engineering	Surabaya State University (Unesa) - Indonesia	2006 - Present
ACADEMIC CAREER	Bachelor of Engineering Physics	Institut Teknologi Sepuluh Nopember (ITS) Surabaya	2001 - 2003
	Master Techniques	Institut Teknologi Sepuluh Nopember (ITS) Surabaya	2008 – 2010
EMPLOYMENT	**Position**	**Workplace**	**Yaers**
	Lecturer in the Department of Mechanical Engineering, Faculty of Engineering	Surabaya State University (Unesa) - Indonesia	2006 - Present
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Development of Regulatory Technique Teaching Module Using Delphi Software with Industry-Oriented Inquiry Based Learning (Competitive Research, 2015 and 2016, as Chair)		
	2. Engineering and Manufacturing of Fiber Reinforced Polyester Composites for Applications on Fishing Boat Walls (Pekerti Research, 2015, as Member)		
	3. Analysis of Length of Study of Graduates of D3 Mechanical Engineering Department of Mechanical Engineering FT - UNESA (Faculty Policy Research, 2016, as Chair)		
	4. Environmental Based Productivity Improvement Model in Small Coffee Processed Industries to Strengthen the Java Corridor Beverage Industry (R & D Applied Research (Saintek), 2017,		

	2018 and 2019, as Members)
	5. Utilization of Mount Kelud Sand as Printed Sand in the Metal Casting Process to Improve the Quality of Casting Products at Hume Industri (Applied Research R & D (Saintek), 2017 and 2018, as Members)
	6. Tracer Study of Graduates of the D3 Mechanical Engineering Study Program, FT Unesa (Faculta Policy Research, 2017, as Chair)
	7. Development of a Physics Lab to Support Practical Learning Process (Faculty Policy Research, 2017, as Member)
	8. Curriculum Development for DIII Mechanical Engineering Study Program FT-Unesa based on SKKNI (Faculty Policy Research, 2018, as Chair)
	9. Trainer Design for Converting Heat Energy into Electrical Energy Based on a Thermoelectric Generator (Faculty Policy Research, 2018, as a member)
	10. Design of Hooke Law Application Trainer (Faculty Policy Research, 2018, as chairman)
	11. The Effectiveness of Using Various Handwashing Models during the Covid-19 Pandemic (Faculty Policy Research, 2020, as member)
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Sandal Product Business Group in Wedorotimpian Village, Sidoarjo Regency (2015 as member)
	2. IBM Fruit Juice Business Group in Surabaya (2015 as Member)
	3. Mastercam Training as Support for CNC Courses for Undergraduate Program Students - Mechanical Engineering Department of Mechanical Engineering (2016, as a member)
	4. Welding and Casting Work Based Training for Vocational School Students (2017 as members)
	5. Optimization of the Utilization of Appropriate Technology Results Research to Increase Bakery Business Productivity (2018 as Member)
	6. Smart Lemon Auto Maker System (StaM's) Based on the Internet of Things (loT) to Increase the Production of Orange luice at MSMEs "es Jeruk 99" in Sidoarjo Regency (2019 as Member)
	7. SolidWork Training on Bagr Drawing Techniques for Students of SMKN 1 Bendo Magetan (2019 as Member)
	8. Development of Face Shield as Personal Protection for Health Workers in Handling Covid-19 Patients (2020, as chairman)
	9. Program for Making Places to Wash Hands in Strategic Public Places in the Context of Preventing the Spread of Covid-19 in Surabaya (2020, as Member)

PATENTS AND PROPRIETARY RIGHT	**Tittle**	**Years**

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. Development of learning management techniques using Delphie Software with Inquiry-Based Learning. Proceedings of the 2015 PPM Unesa National Seminar
	2. Effect of Palm Fiber Volume Fraction on Bending Strength of Fiber-Reinforced Polyester Composites. Proceedings of the 2015 PPM Unesa National Seminar
	3. Effect of Fiber Volume Fraction and Soaking Time of Naoh on the Impact Strength of Fiber-Reinforced Polyester Composites. Rotation Journal, Diponegoro University. Vol. 18, No 1, January 2016: 1-7
	4. Implementation of Inquiry-Based Learning Strategies in Engineering Physics Subjects with the Help of Matlab Software. Aptekindo National Seminar Proceedings 2016
	5. Development of learning management techniques using Delphie Software with Inquiry-Based Learning. Proceedings of the 2016 PPM Unesa National Seminar
	6. The Influence of Inquiry Based Learningon Students' Knowledge of Control System. Prosiding Seminar Nasional PPM Unesa 2016
	7. The Influence of Inquiry Based Learning on Students' Knowledge of Control System. Proceedings of the 2016 PPM Unesa National Seminar
	8. Experimental Study of Vibration Energy Harvesting (VEH) Simulator. 2017 FPTVI National Seminar
	9. Development of a Physics Laboratory to Support Practical Learning Process. Proceedings of the 2017 PPM Unesa National Seminar
	10. Application of Quality Function Deployment Method to Improve Service Quality in the Field of Painting. Flywheel Journal, Sultan Ageng Tirtayasa University. Volume III Number 1, April 2017, 109-115
	11. The Effect Of Variation Of Diameter And Long Housing In Silencers With Green Wool Diamond Materials On Noise And Air Pressure Levels Of Blow Cleaning Machines. 1st International Conference on Vocational Innovation and Applied Science (ICVIAS 2018).
	12. The effect of pouring temperature on the porosity of sand casted Al – Si alloy , 2017. International Conference of Mechanical Engineering Research and Application (ICOMERA 2018)
	13. An Analysis of Feasibility of The Appropriate Technology Investment and Green Supply Chain Management Planning on Moringa Products. 18/10/20118, ISBN 978-94-6252-588-7, ISSN 2352-5398, DOI doi:10.2991/icss-18.2018.325. Thompson Reuters - The 1st International Conference On Social Sciences (ICSS 2018)
	14. The potential of constructed wetland as wastewater treatment technology for sustainable small industry of Coffee processing in Indonesia. Eco. Env. & Cons. 24 (2) : 2018; pp. (598-606) Copyright@ EM International ISSN 0971–765X. Scopus Q4 - Ecology, Environmental and Conservation. Vol 24 (2) : 2018.
	15. Improving The Productivity And Environmental Performance On

	Small Industry Of Coffee Production. Asian Jr. of Microbiol. Biotech. Env. Sc. Vol. 20 (2): 2018 : 689-694 © Global Science Publications ISSN-0972-3005. Scopus Q4 - Asian Jr.of Microbiol. Biotech. Env. Sc. Vol. 20 (2) : 2018: 689-694		
	16. Work Based Training Pengelasan Dan Pengecoran Untuk Meningkatkan Keterampilan Siswa Smk Islam Al-Amal Surabaya. Jurnal Abdi: Media Pengabdian Kepada Masyarakat. Vol 5, No 2 (2020), e-ISSN: 2502-6518. P-ISSN: 2460-5514		
ACTIVITIES IN SPECIALIST BODIES	**Organisation**	**Position**	**Period**
	Indonesian Vocational Higher Education Forum (FPTVI)	Members of the Student Competition Development Committee	2019 - present

Staff Handbook



Dr. Djoko Suwito, M.Pd.

POSITION	**Lecturer in Mechanical Engineering Education**		
	Doktor Bidang Ilmu Pendidikan Kejuruan		
	Gelar	**Universitas**	**Tahun**
	Dosen di Jurusan Teknik Mesin, Fakultas Teknik	Universitas Negeri Surabaya-Indonesia	1991 - now
ACADEMIC CAREER	Sarjana Pendidikan Teknik Mesin	Institut Keguruan dan Ilmu Pendidikan (IKIP) Yogyakarta	1985 - 1990
	Magister Pendidikan Teknologi Kejuruan	Pascasarjana IKIP Jakarta di Universitas Negeri Yogyakarta	1994 – 1997
	Doktor Pendidikan Kejuruan	Pascasarjana Universitas Negeri Malang	2011 - 2018
MPLOYMENT	**Posisi**	**Tempat**	**Tahun**
	Dosen Jurusan Teknik Mesin	Universitas Negeri Surabaya-Indonesia	1991- now
	Kepala Laboratorium Jurusan Teknik Mesin FT-Unesa	Universitas Negeri Surabaya-Indonesia	1997-2001
	Ketua Jurusan Teknik Mesin FT-Unesa	Universitas Negeri Surabaya-Indonesia	2002-2006
	Pembantu Dekan 3 FT-Unesa	Universitas Negeri Surabaya-Indonesia	2007-2011
	Ketua Devisi Monitoring dan Evaluasi Bidang Penjamin Mutu Unesa	Universitas Negeri Surabaya- Indonesia	2018 - now
RESEARCH AND DEVELOPMENT PROJECT OVER	1. Design of an Efficient and Economical Shielded Metal Arc Welding (SMAW) Welding Machine (FT-Unesa Policy Research, 2018, as Chair).		

THE LAST 5 YEARS	2. Development of a Flow Visualization Tool Learning Module in the Automotive Aerodynamics Laboratory of the Department of Mechanical Engineering, FT-Unesa (FT Unesa Policy Research, 2019, as a Member). 3. Development of Learning Tools for Integrated Designing Techniques with Machine Elements and Machine Drawing Based on Contextual Learning (Second Year 2017 Higher Education Excellence Research, as Chair) 4. Development of Learning Tools for Integrated Designing Techniques with Machine Elements and Machine Drawing Based on Contextual Learning (Higher Education Excellence Research 2016 1st year, as Chair) 5. Development of Teaching Technique Module Designing Sub-Topics of Integrated Transmission with Machine Elements (Superior Basic Research of Higher Education, 2018, as Chair). 6. Production of Hygienic Tempe Processing Machines (CPPBT Applied Research, 2017, as Chair). 7. Optimization of Filler Machine Design Based on Load Characteristics and Control System Design to Increase Filling Accuracy. (Penelitian Pengembangan Prototype Produk Industri, 2019, sebagai Ketua).

PATENTS AND PROPRIETARY RIGHT	**Judul**	**Tahun**
	-	-

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. The Development of the Entrepreneurship Mindset for Vocational High School Student in Term of Technology by Learning Productive Side of Industry, Vocational Skill and Locus of Control (The International Journal Of Science & Technoledge (ISSN 2321 – 919X), November 2017) 2. Development Of Learning Media Design Engineering Integrated With Machinery Element And Drawing Machine Based On Contextual Learning. (International Conference on Science and Technology (ICST), 2019). 3. Optimization of Filler Machine Design Based on Load Characteristics and Control System Design to Increase Filling Accuracy.

	(International Conference On Research And Academic Community Service (ICRACOS), 2019).

ACTIVITIES IN SPECIALIST BODIES	Organisasi	Posisi	Periode
	-	-	-

SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	
	1. Workshop on Implementing Applied Undergraduate Program at the Faculty of Engineering UNESA in the Context of Implementing the Revitalization of Vocational Education, (Faculty of Engineering, UNESA, 2019) 2. Higher Education Internal Quality Audit Training (AMI-PT), (Bogor Agricultural University, 11-16 February 2019) 3. Training for Academic and Non-Academic Internal Quality Assurance System Documents for Higher Education, (Bogor Agricultural University, 11-12 February 2019) 4. Self Improvement Program Valuable Leader Training, (MIC The Transformer, 25-28 July 2019) 5. Blilingual Textbook Preparation Workshop, (Department of Mechanical Engineering, Faculty of Engineering UNESA, 2017) 6. Workshop on Preparation of BUku Practicum Guide, (Department of Mechanical Engineering, Faculty of Engineering UNESA, 2017)

Staff Handbook



Dyah Riandaari, S.T., M.T.

POSITION	**Mechanical Engineering Lecturer**		
	Degree	**University**	**Year**
ACADEMIC CAREER	Bachelor of Engineering (B. Eng) Physics technic	Sepuluh Nopember Institute of Technology (ITS)	1996 - 2002
	Master of Engineering (M. Eng) Industrial Engineering	Sepuluh Nopember Institute of Technology (ITS)	2003 – 2006
EMPLOYMENT	**Position**	**Place**	**Year**
	Lecturer in the Department of Mechanical Engineering	Majoring in mechanical engineering, Department of Engineering - Surabaya State University	2008-Now
	Mechanical Engineering Reading Room Coordinator	Majoring in mechanical engineering, Department of Engineering - Surabaya State University	2015-Now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Design of Controlled System Metal Coating Workpiece Cleaning Tool (2015)		
	2. Design of Controlled Metal Plating Workpiece Cleaning Tools (2016) (continued)		
	3. Design of Robotics Learning Devices with Contextual-Based Learning to Improve Students' Skills (2016)		
	4. Design of Portable System Metal Coating Tools (2017)		
	5. Development of a Physics Lab to Support Practical Learning Process		

	(2017)
	6. Tracer Study of Graduates of the D3 Mechanical Engineering Study Program, FT Unesa (2017)
	7. Design of Portable System Metal Coating Tools (2018) (continued)
	8. Trainer Design for Converting Heat Energy into Electrical Energy Based on a Thermoelectric Generator (2018)
	9. Design and Build a Hooke Law Application Trainer (2018)
	10. Design of Workpiece Blackening Tool in Metal Coating Process (2019)
	11. The Effect of the Use of Different Types of Mask Models Used during the COVID-19 Pandemic (2020)
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Ice Crusher Machine to Increase Productivity of Gedangan Fruit Juice (2017)
	2. Application of Soybean Grinding Machines to Increase Saridele Production for Small Entrepreneurs Saridele (2018)
	3. Application of Water Purification Equipment to improve Clean Water Quality at SMKN 1 Bendo Magetan (2019)
	4. Development of Hand Sanitizer Products Based on Local Wisdom in anticipation of community members against the Covid 19 attack (2020)
	5. Development of Face Shield as Personal Protection for Health Workers in Handling Covid-19 Patients (2020)
	6. Program for Providing Handwashing Soap to the Community in the Context of Preventing the Spread of Covid 19 in Surabaya (2020)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	-	-

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. Arya Mahendra Sakti, Aisyah Endah Palupi, **Dyah Riandadari,"**The *Effect of Heating Time and Heating Temperatures to Layer Thickness and The Glossiness Level of A Surface in Blackening Coating Process*", International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-3S, January 2020. 2. A R Sakti*, **D Riandadari**, H Zakiyya, A Prapanca, **"***The Effect of Process Variables on Work Piece Thickness and Glossiness from Metal Coating in Nickel-Chrome Metal CoatingProcess"*. International Conference on Mechanical Engineering Research and Application. IOP Conf. Series: Materials Science and Engineering (2019) 012057doi:10.1088/1757-899X/494/1/012057
	3. Arya Mahendra Sakti, **Dyah Riandadari**, Theodorus Wiyanto, Priyo Heru Adiwibowo, Aisyah Endah Palupi.*"The Use of Soybean Grinding Machines to Increase Saridele's Business Productivity"*. 2018. Proceedings of the National Seminar on Research and Community Service, Surabaya State University.
	4. Arya Mahendra Sakti, **Dyah Riandadari**, Hanna Zakiyya, Aditya

	Prapanca *"Application of Entrepreneurship-Based Practice Learning Media in the Coating Engineering Course in the Department of Mechanical Engineering Education, Department of Engineering - Surabaya State University"*. 2018. Proceedings of the National Seminar on Research and Community Service, Surabaya State University.
	5. Arya Mahendra Sakti, Aditya Prapanca, **Dyah Riandadari.** *" Analysis of Anode-Cathode Distance and Immersion Time Against Thickness of Nickel-Chrome Metal Coating Process "*. 2017. Proceedings of the National Seminar on Research and Community Service, Surabaya State University.

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Periode**
	Association of Experts and Lecturers of the Republic of Indonesia (ADRI)	Member	06 Mei 2017
	Indonesian Vocational Lecturer Professional Academics (APDOVI)	Member (AB-0348)	Agustus 2020



Dyah Riandadari, ST., MT
NIP. 197803272008012016

Staff Handbook



Ferly Isnomo Abdi, S.T., S.Pd., M.T.

POSITION	**Lecturer of Mechanical Engineering, Faculty of Engineering UNESA**		
	Master of Mechanical Design		
	Degree	**University**	**Year**
	Lecturer in Mechanical Engineering Department	Universitas Negeri Surabaya-Indonesia	2019 - present
ACADEMIC CAREER	Associate in Mechanical Engineering	Institut Teknologi Sepuluh Nopember	2011 - 2014
	Bachelor of Mechanical Engineering	Institut Teknologi Sepuluh Nopember	2014 - 2016
	Bachelor of Mechanical Engineering Education	Universitas Negeri Surabaya	2012 - 2018
	Master of Mechanical Design in Mechanical Engineering	Institut Teknologi Sepuluh Nopember	2016 - 2018
EMPLOYMENT	**Position**	**Place**	**Year**
	Lecturer in Mechanical Engineering Department	Universitas Negeri Surabaya-Indonesia	2019- present
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Design of the Hydraulic Control System on a 1-DoF Motorcycle Suspension Test Rig (2016)		
	2. Design and Analysis of the Active Suspension System for a Quarter Model Vehicle with PID (Proportional Integral Derivative) Control (2018)		
	3. Dynamic Analysis of Variable Geometry Suspensions with LQR and LQG Control (2018)		
PATENTS AND PROPRIETARY RIGHT	**Title**		**Year**
	-		-
IMPORTANT PUBLICATIONS	-		

OVER THE LAST 5 YEARS			
ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**
	APDOVI	Member	2019

Staff Handbook



Firman Yasa Utama, S.Pd., M.T.

POSITION	**Lecturer in Mechanical Engineering Education**		
	Gelar	**Universitas**	**Tahun**
	Dosen di Jurusan Teknik Mesin, Fakultas Teknik	Universitas Negeri Surabaya-Indonesia	2014 - now
ACADEMIC CAREER	Sarjana Pendidikan Teknik Mesin	Universitas Negeri Surabaya (UNESA)	1999 - 2005
	Magister Sistem Manufaktur	Institut Teknologi Sepuluh Nopember (ITS) Surabaya	2009 – 2012
EMPLOYMENT	**Posisi**	**Tempat**	**Tahun**
	Dosen Jurusan Teknik Mesin	Jurusan Teknik Mesin FT-Unesa	2014-now
	Editor Jurnal INAJET	Fakultas Teknik -Unesa	2018-now
	Kasublab Pengecatan dan Perbaikan Bodi	Jurusan Teknik Mesin FT-Unesa	2015-2017
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Optimization of Machining Parameters with Turning Process on the Response of Surface Roughness and Surface Hardness of Material St 45 Using the Taguchi Method and Fuzzy Logic (FT Unesa, 2015, as Chair)		
	2. The Effect of Direction Variations of Fiberhybrid Hybrid Reinforced Composite Fibers on Tensile Strength and Material Density in Car Body Part Applications (DIPA Unesa, 2015, as Chair)		
	3. Characteristics of Academic and Non Academic Achievements of D3 Mechanical Engineering Students, Faculty of Engineering, State University of Surabaya (Policy Research, Faculty of Engineering, Unesa, 2016, as Member)		

	4. The Influence of Non-Academic Achievement on Academic Achievement of Unesa Faculty of Engineering Students (FT Unesa, 2017, as Member)
	5. The Effect of Spraying Distance and Speed of Painting Swing Steps on Surface Quality and Paint Thickness (FT Unesa, 2017, as Member)
	6. Position of Influence of Heaters and Fans on the Media for Making Laboratory Ovens (FT Unesa, 2018, as Member)
	7. Improving Student Soft Skills by Optimizing Laboratory-Based Potentials in the Department of Mechanical Engineering, Faculty of Engineering, State University of Surabaya (FT Unesa, 2019, as Member)
	8. Application of Online Learning Using the "Whatsapp Group" Application for Research Methodology Subjects during the Covid-19 Pandemic (FT Unesa, 2020, as Member)
	9. Development of Aroma Therapy Products Based on Shallots to Maintain Immunity in the Efforts to Overcome the Covid-19 Outbreak (Unesa Strategic Policy, 2020, as Member)
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Training CNC (*Computer Numerically Controlled*) and MR (Maintenance & Repair) at SMK Daaruttaqwa, Gresik (2015 as Chair)
	2. Training CNC (*Computer Numerically Controlled*) and MR (Maintenance & Repair) at SMK Dharmawirawan, Pasuruan (2015 as chair)
	3. Training CNC (*Computer Numerically Controlled*) and MR (Maintenance & Repair) at SMK YASMU, Gresik (2015 as chair)
	4. I_bM Community Groups to Solve Household Waste Problems (2015 as chair)
	5. Training of Technology-Based Machining Vocational Teachers CNC (*Computer Numerically Controlled*) (2016 as chair)
	6. I_bM Winong Village Brick Producers UKM Group, Temboro District, Magetan Regency (2017 as member)
	7. Improving the Quality of the Engineering Faculty Student Creativity Program (2017 as member)
	8. Skills-Oriented Lathe Training for Vocational School Students (2017 at member)
	9. Motorcycle Workshop Management Training at SMK YPM 4 Taman Sidoarjo (2017 as Member)
	10. Training for Student Creativity Program Proposal Preparation (2018 as Member)
	11. PKM of Wingko Producing SME Group, Babat Village, Babat District, Lamongan Regency, East Java Province (2018 as Member)
	12. Application of Injector Cleaner Technology for Motor Vehicles at SMKN 1 Bendo Magetan (2019 as Chair)

	Judul	Tahun
PATENTS AND PROPRIETARY RIGHT	1. Fish Scales Cleaning Machine uses Auto WAW (Automatic Water Washer) Technology (status: Process)	2017
	2. LOPREC (Low Power Consumption) Minimalist Onion Slicing Machine (status: Process)	2017
	3. Machine Processing and Packaging Jamu Sari Sinom Thermocollersonification	2018
	4. Merek Sweat Machinery (status:Proses)	2018
	5. Pecan Skin Breaking Tool (status: Certificate)	2019
IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. Firman Yasa Utama, Hanna Zakiyya. The Effect of Direction Variations of Fiberhybrid Hybrid Reinforced Composite Fibers on Tensile Strength and Material Density in Car Body Part Applications. (MEKANIKA, Vol.15 no.2 September 2016)	
	2. Firman Yasa Utama, Tri Hartutuk Ningsih. Optimization of Machining Parameters for Variations of Spindle Turns, Feeding Motion and Cutting Depth in the Lathe Process Against Surface Roughness and Hardness of ST.45 Material Using the Taguchi Method and Fuzzy Logic (Energy Engineering Manufacturing Journal, Junal Vol. 1 No.1, 2016)	
	3. Akhmad Hafizh Ainur Rasyid; Dany Iman Santoso; The Main Yasa Word. Selection of Painting Parameters to Get the Correct Thickness of the Paint Layer for Uneven Surfaces (Jurnal Otopro, Vol 12, No 2 (2017))	
	4. Firman Yasa Utama, Huda Mei Setio, Soeryanto. Analysis of redesign of Cement Mixer System as Coal Waste Treatment at PT. X (Journal of Otopro, Vol 12, No 2 (2017))	
	5. Muhimatul Ulya Mukasafah, Firman Yasa Utama. Analysis of maintenance on the 31L008 Hydropulper Machine (Cigarette Paper Manufacturer) using preventive maintenance in the bearing lubrication process (Jurnal Otopro, Vol 13, No. 1 (2018))	
	6. Firman Yasa Utama, Juan Ardi Kusuma. Analysis of Maintenance Centrifugal Pump Type Eta-N 125x100-40 in Industrial Wastewater Treatment Plants (INAJET, Vol.01 No.1, 2018)	
	7. Ahmad Khusnul Hidayat, Firman Yasa Utama. Shock Absorber Replacement on Honda CRV I-VTEC type RE1 at PT. X Surabaya Shock Absorber Replace on Honda CRV I-VTEC type RE1 in PT. X Surabaya (Journal of Otopro, Vol 13, No 2 (2018))	
	8. N S Drastiwati *, H Zakiyya, F Y Utama and W D Kurniawan. Preliminary Study of Failure Analysis on Tube Material Boiler Based on Pressure Aspect (AASEC, IOP Conf. Series: Materials Science and Engineering 288, 2018)	

	9. Firman Yasa Utama, Hendra Wibowo. Preventive Maintenance Analysis of Submersible Pump 100 Dlc5 7.5 T in Wastewater Treatment Plants (INAJET, Vol.01 No.1, 2018)
	10. Miftachur Rozi Ainurrochim, Firman Yasa Utama. Impeller Analysis on Centrifugal Pumps Using a Preventive Maintenance Program in a PT.SIER Wastewater Treatment Plant (Ipal) (JPTM, Vol. 9 No.1, 2019)
	11. Yan Dwi Pratama, Firman Yasa Utama. Ferrite Magnet Effect on Four Stroke Engine 125 CC Exhaust Emissions (MEKANIKA, Vol. 19, No.1, 2020)2.

ACTIVITIES IN SPECIALIST BODIES	**Organisasi**	**Posisi**	**Periode**
	Indonesian Vocational Lecturer Professional Academy	Member	2020 - now

Staff Handbook



Heru Arizal, S.Pd., M.M., M.Pd.

POSITION	**Mechanical Engineering Lecturer**		
	Degree	**University**	**Year**
ACADEMIC CAREER	Bachelor of Mechanical Engineering Education	Surabaya State University	2003 - 2007
	Master of Management	Wijaya Putra University Surabaya	2009 – 2010
	Master of Education	Surabaya State University	2012 - 2014
EMPLOYMENT	**Position**	**Place**	**Year**
	Light Vehicle Engineering Teacher	SMK PGRI 4 Surabaya	2008 - 2019
	Lecturer in the Department of Mechanical Engineering	Surabaya State University	2019 - Sekarang
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS			
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Training on Making WEB-Based Learning Media at SMK Al-Asy'ari (2019)		

PATENTS AND PROPRIETARY RIGHT	Title	Year
IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS		
ACTIVITIES IN SPECIALIST BODIES	Organization	Position	Period

Staff Handbook



Dr. I Made Arsana, S.Pd., M.T.

POSITION	**Associate Professor**		
	Heat and transfer field		
	Degree	**University**	**Year**
ACADEMIC CAREER	Bachelor of Education	Universitas Negeri Yogyakarta	1987 - 1992
	Master of Engineering	Institut Teknologi Sepuluh Nopember	2000 – 2002
	Doctor of Engineering	Institut Teknologi Sepuluh Nopember	2009 - 2016
EMPLOYMENT	**Position**	**Place**	**Year**
	Lecturer	Universitas Negeri Surabaya	1995 - present
	Head of Diploma Study Program	Universitas Negeri Surabaya	2004-2008
	Head of Laboratory	Universitas Negeri Surabaya	2008 - 2012
	Head of Heat Transfer Laboratory	Universitas Negeri Surabaya	2012 - present
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5	1. Performance simulation of the effect of the disc and doughnut baffles distance to shell and tube heat Exchanger effectivity (2018)		
	2. Double segmental baffle building on shell and tube heat exchanger trainer (2017)		
	3. Cyclone based car air filter (2017)		

YEARS	4. The development of air filter cyclone based with multi blades as Green And Clean program support (2019)
	5. The effect of volume fraction to convection heat transfer of water nanofluids – Al203 on shell and tube heat exchanger (2019)
	6. Friction loss trainer building on piping system as learning media in fluid mechanics laboratory (2015)
	7. Heat exchanger design on Rankine cycle condenser equipped by cooling tower (2015)
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. The application of injector cleaner technology for automobile in SMKN 1 Bendo Magetan. (2019)
	2. Meat ball business in Desa Begadung Nganjuk based on meat ball maker machine. (2019)
	3. Training on tire-tube repairment and tire balancing for Karang Taruna Kelurahan Ketintang Surabaya. (2016)
	4. Application on corn beard grinding machine to improve dairy cattle productivity in Desa Senden Kediri. (2016)
	5. The application of rice thresher machine on rice farming in Desa Alassumur Probolinggo. (2016)
	6. Training of proposal drafting of classroom action research for undergraduate student who study educational professional development. (2015)
	7. The application of meat ball maker technology as efforts of production quality development and production time efficiency in Desa Demak Surabaya. (2015)
	8. The application of elephant grass chopper machine to develop dairy cattle productivity in Desa Senden Kediri. (2015)
	9. Unit production group in SMK YPM 4 Taman Sidoarjo. (2015)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	1. Wires and tubes heat exchanger using woven wire arrangement.	2018
	2. Wires and tubes heat exchanger using alternating wire arrangement.	2018
	3. Car air filter cyclone-based broadcast	2017
	4. Car air filter cyclone-based brochure	2017
	5. Heat transfer on shells and tubes heat exchanger	2017
	6. Air conditioner based on semiconductor	2017
	7. Free convection heat transfer on refrigerator condenser	2017
	8. Force convection heat transfer on oil cooler	2017

	9. Force convection heat transfer on car radiator	2017

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. **Designing and Performance Testing of Meatball Forming Machine**. Januari 2020. Adavances in Social Science, Education and Humanities Research, volume 390, International Conference on Research and Academic Community
	2. **Development of Vocational Online Examination: A Case Study of Computer Systems**, Advances in Social sciences, Education and Humanities Research, volume 379, 1st Vocational Education International Conference (VEIC 2019). Publisher Atlantis Press
	3. **Effect of intraparticle diffusion-reactions at reverse flow reactors. Cases study: Methane catalytic oxidation**, IOP Conference Series: Materials Science and Engineering2019-12-1, journal-article DOI: 10.1088/1757-899x/673/1/012007, Part of ISSN: 1757-899X
	4. **Implementation of Troubleshooting Teaching Method to Develop Student's Competency in Conducting Motorcycle Tune-up**, Journal of Physics: Conference Series 2019-11 journal-article DOI: 10.1088/1742-6596/1387/1/012096, Part of ISSN: 1742-6588, Part of ISSN: 1742-6596
	5. **The development of radiator trainer modul to expand syudent learning outcomes Jurusan Teknik Mesin UNESA**, Jurnal Dinamika Vokasional Teknik Mesin, 2019-09-30, journal-article, DOI: 10.21831/dinamika.v4i2.27387, Part of ISSN: 2548-7590, Part of ISSN: 2598-392X
	6. **Heat Transfer II, ISBN: 9786024493806,** Unesa University Press 2019
	7. **The effect of fluid mass flow rate to shell and tube heat exchanger with double segmental baffle**, Jurnal Teknik Mesin, Vol. 5 Issue 032018-01-24 8. **ANALYSIS OF TIRE FILLING RESULTS ON TIRE PATCH WITH AUTOMATIC TEMPERATURE CONTROLLER,** Jurnal Penelitian Saintek, p-ISSN: 1412-3991 || e-ISSN: 2528-7036 2018. 9. **SIMULASI PERFORMANSI HEAT EXCHANGER TIPE SHELL AND TUBE DENGAN HELICAL BAFFLE DAN DISK AND DOUGHNUT BAFFLE**, Jurnal Teknik Mesin, JTM.Volume 06 Nomor 01 Tahun 2018, 61-68 2018. 10. **Comparateve study of the shell and tube heat exchanger effectivity between helical baffle and double segmental baffle**, Jurnal Teknik Mesin, Vol. 5, Issue 03 2017-12-21. 11. **The effect of the distance between the wires to free convection of the wire and tube heat exchanger**, Jurnal Penelitian Saintek 2017-05-05 12. **Modelling of The Single Staggered Wire and Tube Heat ExchangerInternational** Journal of Applied Engineering Research, Publisher Research India Publications, ISSN 0973-4562 2016.

	13. **Optimization of the Single Staggered Wire and Tube Heat Exchanger,** MATEC Web of Conferences 2016, journal-article DOI: 10.1051/matecconf/20165801017 Part of ISSN: 2261-236X 14. **The effect of baffle distance to shell and tube heat exchanger effectivity with double segmental baffle,** Jurnal Teknik Mesin, Vol. 4, Issue 03, Hal. 521-527 2016. 15. **Development of Learning Module Heat Transfer For the Department of Mechanical Engineering Education Surabaya State University,** nternational Conference On Trending Issues Of school Education In Advanced Countries, ISSN: 2443-2768 2015-06-12.
	18. Arsana, I.M. and **Santoso, D.I.** (2016) Application on corn beard grinding machine to improve dairy cattle productivity in Desa Senden Kediri. *PPM Semnas Proc.* 3: 55–60.
	19. Arsana, I.M, Susila, I.W, Cholik, Muhamad. (2019) The Effect of Using Cylone Air Filter on Power and Fuel Consumption of Gasoline Automobile. ICRACOS On September, 7th 2019.

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**
	LSPTO Jatim	Chief of accreditation	2004 - 2008
	Indonesian railway society (MASKA) Jawa Timur	Chief of human resources advisor	2017 - 2022

Staff Handbook



Ika Nurjannah, S.Pd., M.T.

POSITION	**Lecturer of Mechanical Engineering Faculty of Engineering, Unesa**		
	Masters in Energy Conversion Engineering in Mechanical Engineering		
	Degree	**University**	**Years**
	Lecturer in the Department of Mechanical Engineering, Faculty of Engineering	Surabaya State University-Indonesia	2019-Present
ACADEMIC CAREER	Bachelor of Mechanical Engineering Education	Surabaya State University-Indonesia	2008-2012
	Master Techniques	Institut Teknologi Sepuluh Nopember (ITS) Surabaya -Indonesia	2012-2014
EMPLOYMENT	**Position**	**Workplace**	**Years**
	Instructur	LCC LP3I surabaya	2011-2012
	Lecturer in the Department of Mechanical Engineering	Surabaya State University-Indonesia	2019- Present
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	**Tittle**		**Years**
	Implementation of the Tracer Study in the PTM, S1 TM Study Program and D3 TM during the COVID-19 Pandemic		2020
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	**Title**		**Years**
	Program For The Distribution Of Handsanitizer for Communities With Less Ability To Prevent The Spread Of COVID-19 in Surabaya		**2020**

PATENTS AND PROPRIETARY RIGHT	Title	Years

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	Title	Years
	The Effect of Adding FFST on Secondary Flow Characteristics Near Endwall of Asymmetry Airfoil (Case Study of different camber). (INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS & STATISTICS 53 (5), 67-72)	2015
	Study of 3D Flow Characteristics Through Endwall Junction Body Airfoil British 9C7/22.5 C50 with the Addition of Forward Facing Step Turbulator (FFST). INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS & STATISTICS 53 (4), 160-165	2015
	Optimized Hydraulic Diameter and Operating Condition of Tube Heat Exchanger for Food Industry – A Numerical Study (Journal of Mechanical Engineering Research and Developments. Vol. 43, No. 6, pp. 329-338	2020

ACTIVITIES IN SPECIALIST BODIES	Organization	Position	Period
	Indonesian Vocational Lecturer Professional Assoociation (APDOVI)	Anggota	2019-Present

Staff Handbook



Indra Herlamba Siregar, S.T., M.T.

POSITION	**Lecturer in Mechanical Engineering**		
	Lecturer in the field of energy conversion machines		
	Position	**Work unit**	**Year**
	Lecturer in the Department of Mechanical Engineering, Faculty of Engineering	Universitas Negeri Surabaya-Indonesia	2005 - sekarang
ACADEMIC CAREER	Bachelor of Mechanical Engineering	Institut Teknologi Sepuluh Nopember Surabaya (ITS)	1991 – 1997
	Masters in Mechanical Engineering	Institut Teknologi Sepuluh Nopember Surabaya (ITS)	2001 - 2004
EMPLOYMENT	**Position**	**The place**	**year**
	Lecturer in the Field of Energy Conversion	Universitas Negeri Surabaya-Indonesia	2005- sekarang
	Head of Mechanical Engineering Laboratory	Universitas Negeri Surabaya-Indonesia	2016 - 2019
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	**1.** DEVELOPMENT OF VERTICAL WIND TURBIN PROTOTYPES BASED ON DRAG FORCES, BLADES, SCALE MODELS in TEROWONGAN ANGIN **(PDUPT Research, 2018 s.d 2020, as Chair)**		
	2. Renewable Energy Power Plant Development by Utilizing Wave, Wind and Solar Energy on the Southern Coast of East Java Using Hybrid On-Grids Technology (Individual Pratama Research Insinas, 2017 s.d 2018, as Member)		
	3. DEVELOPMENT OF VERTICAL SUMBU WIND TURBIN PROTOTYPES FOR LOW WIND SPEED HYBRID HOUSEHOLD		

	BASED PERFORMANCE MODELS in TEROWONGAN ANGIN (Applied Product Research, 2015 to 2017, as Chair)
	4. Design of a Household Scale Hybrid System Power Plant Based on Fuel Cell and Solar Cell to Address Remote Area Electricity Needs and Global Warming (Research Collaboration between Universities, 2015 to 2016, as a member)
	5. THE EFFECT OF FLOW CAPACITY CONTROL WITH VALVE AND INVERTER SETTINGS ON CENTRIFUGAL PUMP ENERGY CONSUMPTION (Faculty Policy Research 2019 as Chair)
	6. THE EFFECT OF TOTAL NUMBER ON CENTRIFUGAL PUMP PERFORMANCE (2018 Faculty Policy Research as Chair)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	TWO LEVEL VERTICAL WIND TURBINE WITH HYBRID BEARING WITH WIND BEING	2019

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	
	1. Experimental Investigation of Double Layer Blades as Obstacle Blades on Savonius Wind Turbine Performance, Advances in Social Science, Education and Humanities Research, volume 390, Atlantis Press.
	2. Power Control of Grid-Connected Photovoltaic-Wind Turbin-Bouy Conversion Energy Wave Hybrid System, IOP Conference Series: Materials Science and Engineering 494 (1), 012074.
	3. The Effect of Addition of Free and Fix Drag Reducing on the Blades on the Performance of the Savonius Wind Turbine,, 2019, Jurnal OTOPRO OTOPRO 13 (2), 63-66.
	4. Renewable Energy Conversion with hybrid Solar Cell and Fuel Cell, 2017, UNEJ e-Proceeding, 188-191.
	5. Characteristics of the Darrieus Type-H Two-Stage Vertical Axis Wind Turbine Model with Modified Profile Hybrid Blades NACA 0018 and S Curve, 2017, Jurnal Ilmiah Teknik Mesin Cylinder 3 (1).

ACTIVITIES IN SPECIALIST BODIES	**Organisation**	**Position**	**Periode**

Staff Handbook



Iskandar, S.T, M.T.

POSITION	**Mechanical Engineering Lecturer**		
	Degree	**University**	**Year**
ACADEMIC CAREER	Bachelor of Marine Engineering	Institut Teknologi Sepuluh Nopember	1995
	Master of Mechanical Engineering	Universitas Brawijaya	2011
EMPLOYMENT	**Position**	**Place**	**Year**
	Head of the Diesel Motor Laboratory	Universitas Negeri Surabaya	2006 - Sekarang
	Lecturer in the Department of Mechanical Engineering	Universitas Negeri Surabaya	2000 - sekarang
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Characteristics of Horizontal Shaft Crossflow Turbines Against Power & Efficiency . (Faculty Policy Research, 2019 – research member)		
	2. Development of an Effective Machining Technique Learning Model in SMK (Applied Research , 2016, research member)		
	5. Implementation of the Review Syllabus for S1 Mechanical Engineering Education Study Program Majoring in mechanical engineering FT UNESA (Basic Research 2016, research member)		
PATENTS AND PROPRIETARY RIGHT	**Title**		**Year**
	-		-
IMPORTANT PUBLICATIONS	1. MENINGKATKAN PRODUKTIVITAS INDUSTRI KECIL KRUPUK MELALUI MANAJEMEN YANG BAIK DAN		

OVER THE LAST 5 YEARS	PENERAPAN TEKNOLOGI PRODUKSI YANG EFEKTIF DAN EFISIEN (National Seminar - PPN 2017)		
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Hydroponics Training in SMKN 1 Bendo Magetan, (PKM Faculty Policy , 2019)		
	2. Science And Technology For The Chip Entrepreneur Community (Community Partnership Program , 2017, Chairman)		
	3. Welding Training for Youth for Work Supplies (Community Partnership Program 2016, Member)		
	4. IbM Kelompok Industri Kecil Pengrajin Sandal Sepon di Sidoarjo (Program Kemitraan Masyarakat, Tahun 2015, sebagai Anggota)		
	5. IbM FRUIT JUICE BUSINESS GROUP IN SURABAYA (PKM Faculty Policy 2015, member)		
	6. IbM TO IMPROVE THE QUALITY AND QUANTITY OF PRODUCTION THROUGH IMPROVING PRODUCTION TECHNOLOGY AND MANAGEMENT IN THE SMALL MANAGEMENT INDUSTRY TA (2015, member)		
ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**

Staff Handbook



Dr. Mochamad Cholik, M.Pd.

POSITION	**Lecturer of Mechanical Engineering Department**		
	Doctor of Educational Research and Evaluation		
	Degree	**University**	**Year**
	Lecturer of Mechanical Engineeing Department	Universitas Negeri Surabaya - Indonesia	1990 - now
ACADEMIC CAREER	Bachelor of Mechanical Engineeing Education	IKIP Surabaya - Indonesia	1979 - 1984
	Master of Vocational Education	IKIP Yogyakarta - Indonesia	1984-1988
	Doctor of Educational Research and Evaluation	Universitas Negeri Jakarta	2004-2010
EMPLOYMENT	**Position**	**The place**	**Year**
	Lecturer of Mechanical Engineeing Department	Universitas Negeri Surabaya	1990 - now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Tracing Study of D3 Mechanical Engineering Department Graduates. *"Studi Pelacakan Lulusan D3 Jurusan Teknik Mesin"* – Engineering Faculty – Unesa (2015)		
	2. Development of Teacher Education Model in Science and Technology in the Digital Age. *"Pengembangan Model Pendidikan Guru Bidang Sains dan Teknologi di Era Digital."* IDB – Unesa (2016)		
	3. Development of 4C-Based Learning Evaluation for 21st Century Vocational Teacher Education. *"Pengembangan Evaluasi Pembelajaran Berbasis 4C Pendidikan Guru Vokasi Abad 21."* Pasca-Unesa (2018)		
	4. Application of Online Learning Using the "Whatsapp Group" Application for Research Methodology Subjects during the Covid-19 Pandemic. *"Penerapan Pembelajaran Online Menggunakan Aplikasi "Whatsapp Group" Mata Kuliah Metodologi Penelitian Pada Masa Pandemi Covid-19."* Engineering Faculty Unesa (2020)		

SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Item Analysis Training Using Axcel for Teachers of SMK Ketintang Surabaya. *"Pelatihan Analisis Butir dengan Menggunakan Axcel Untuk Guru SMK Ketintang Surabaya"* (2016)
	2. Item Validity and Reliability Training using axcel for teachers of SMA Hasyim As'Ary-Tebu Ireng Jombang. *"Pelatihan Validitas dan Reliabilitas Butir Menggunakan Axcel untuk Guru SMA Hasyim As' Ary – Tebu Ireng – Jombang"* (2017)
	3. Item Validity and Reliability Training Using Axcel for SAFFTA-Surabaya Middle School Teachers. *"Pelatihan Validitas dan Reliabilitas Butir Menggunakan Axcel untuk Guru SMP-SMA SAFFTA-Surabaya"* (2018)
	4. Disinfectant Spraying Program in Residential Environments in the Context of Preventing Communities from Affecting Covid-19 in Surabaya. *"Program Penyemprotan Disinfektan Pada Lingkungan Perumahan Dalam Rangka Pencegahan Masyarakat Terjangkit Covid-19 Di Surabaya."* Engineering Faculty-Unesa (2020)
	5. Automatic Electric Faucets with Motion Sensors on Hand Sanitizers to Improve Hand Hygiene during the Covid-19 Pandemic. *"Kran Elektrik Otomotis dengan Sensor Gerak pada Hand Sanitizer untuk Meningkatkan Kebersihan Tangan pada Masa Pandemi Covid-19."* KOMPETITIF PASCASARJANA Unesa (2020)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	1.	
	2.	
	3.	
	4.	
	5.	

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	
	1.
	2.
	3.
	4.
	5.

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**

Staff Handbook



Dr. Mohammad Effendy, ST., MT.

POSITION	**Lecturer in Mechanical Engineering Education**		
	Doctor Reaction Mechanism for Dynamic Condition		
	Degree	**University**	**Year**
	Lecture in Department of Mechanical Engineering	Surabaya State University - Indonesia	2016 - Now
ACADEMIC CAREER - FORMAL	Bachelor of Engineering	Institute of Technology Ten November Surabaya	1996 - 2001
	Master of Techniques	Institute of Technology Bandung	2005 - 2008
	Doctor	Institute of Technology Bandung	2008 - 2013
CERTIFICATION OF EXPERTISE	**Expertise**	**Institution**	**Year**
	Industrial Energy Auditor	National Agency for Professional Certification (BNSP)	2014 – 2017 2018 – 2020 2020 – 2023
	Assessor for Energy Management Sub Industrial Sector	National Agency for Professional Certification (BNSP)	2015 – 2018 2018 – 2021
	Industrial Energy Manager	National Agency for Professional Certification (BNSP)	2017 – 2020
	Steam System Optimization	Ministry of Energy and Mineral Resources – UNIDO	2018
	The Energy Potential Scan (EPS)	Netherlands Agency Ministry of Economic Affairs	2011
	ISO 50001 on Energy Management System	Ministry of Energy and Mineral Resources in Cooperation with UK CLIMATE CHANGE	2014
	ISO 50001:2018 Lead Auditor Energy Management System (EnMS)	International Register of Certificated Auditors (IRCA)	2020 – 2023

EMPLOYMENT	Position	Place	Year
	Lecture in Department of Mechanical Engineering	Surabaya State University	2016 - Now
	Lecture in Department of Chemistry Engineering	Adhi Institute of Technology Tama Surabaya	2001 - 2005
	Lecture in Department of Creative Media Engineering	Creative Media Polytechnic	2010 – 2015
	Employees	PT. Konservasi Energi Abadi (PT. KONEBA)	2007 - 2010
	Employees	PT. Energi Management Sistem (PT. EMI)	2010 - 2012
PROFESSIONAL WORK EXPERIENCE	**Position**	**Place**	**Year**
	Energy conservation experts	Environmental Service Long live the Surabaya City Government	2018 - Now
	Energy conservation experts, by project	PT. Tracon Industri	2012 - Now
	Energy conservation experts, by project	PT. TUV Rheinland Indonesia	2018 - Now
	Energy conservation experts, by project	PT. TUV SUD Indonesia	2015 – 2018
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. RISPRO INTERNATIONAL COLLABORATION, "Modification nanostructured agar-based nanocomposites as a smart edible coating film for postharvest preservation of milkfish", 2020 - 2023. (As Member)		
	2. DRPM, "DEVELOPMENT OF VERTICAL SUMBU WIND TURBIN PROTOTYPES BASED ON DRAG FORCES BLADES MODEL SCALE IN WIND TUNNEL", 2018 – 2020. (As Member)		
	3. FACULTY POLICY RESEARCH, "Module Development Laboratory of Mechanical Engineering Department of Thermodynamics, 2018. (As Chairman)		
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Set Up ISO 50001 versi 2018, Energy Management System di Pertamina Hulu Mahakam Site PPA-SPS, 2020. (Lead auditor ISO 50001)		
	2. Energy Audit at Husky-CNOOC Madura Limited, 2020. (Lead Auditor)		
	3. Energy Audit at Pertamina Hulu Kaltim Timur, 2019. (Lead Auditor)		
	4. Energy Audit at PT. Mubadala Petroleum, 2019. (Lead Auditor)		
	5. Energy Audit at PLTG BATANGHARI UNIT 1 DAN 2, PT. PLN (Persero) UPDK JAMBI, 2019. (Lead Auditor)		
	6. Energy audit assistance in the government building sector Surabaya City, Puskesmas, and the Industry sector, 2018 – now. (Lead Auditor).		

	7. ENERGY GAS DISTRIBUTION MANAGEMENT REGIONAL II AUDIT PGN Solution, 2019. (Lead Auditor).

INTERNATIONAL SEMINAR	**Title**
	1. International Seminar "Conference on Health, Science & Tecnology", Pemakalah, "Eco-friendly Process of Isolating Bacterial Cellulose Nano Crystals, Padang, 2018.
	2. International Seminar "in Broad Exposure to Science and Tecnology (BEST) 2019, Professional Breadth and Technical Depth in Science, Green Tecnology, and Research for Sustainable Development", Pemakalah, "Effect of intraparticle diffusion- reactions at reverse flow reactors. Cases study: Methane catalytic oxidation", Bali, 2019
IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. **M.Effendy** dan Endarto Y.W (2016), Determination of Model Kinetics for Forced Unsteady State Operation of Catalytic CH4 Oxidation, MATEC Web of Conferences 60, 03001 vol., 2016. https://doi.org/10.1051/matecconf/20166003001.
	2. Eka sari, **M.Effendy**, Nufus Kanani, Wardalia, dan Rusdi (2018), Utilization of Empty Fruit Bunch Fiber of Palm Oil Industry for Bio-Hydrogen Production, International Journal on Advanced Science, Engineering and Information Technology, Vol.8, No.3, 2018. http://dx.doi.org/10.18517/ijaseit.8.3.3985.
	3. Endarto Yu Wardhono, **Mohammad Effendy**, dan Nufus kanani (2019), Differential scanning calorimetry as a thermoanalytical technique in observing the evolution dispersed droplets of concentrated W/O emulsion, International journal on Chemical Engineering Transaction, Vol.72, 2019.
	4. **Mohammad Effendy**, Endarto Yu Wardhono, Soeryanto, and I Made Arsana (2019), Effect of intraparticle diffusion-reactions at reverse flow reactors. Cases study: Methane catalytic oxidation, IOP Conf. Ser.: Mater. Sci. Eng. 673 012007. https://iopscience.iop.org/article/10.1088/1757-899X/673/1/012007

ACTIVITIES IN SPECIALIST BODIES	**Organisasi**	**Position**	**Period**
	Expert Association Energy Conservation (HAKE)	Member	2010 - Now
	LSP Energy	Assessors	2015 – 2018 2018 – 2021

Surabaya, 07 September 2020



Dr. MOHAMMAD EFFENDY

Staff Handbook



Mochamad Arif Irfa'i, S.Pd., M.T.

POSITION	**Lecturer in Mechanical Engineering Education**		
	Degree	**University**	**Year**
ACADEMIC CAREER	Bachelor in Mechanical Engineering Education	Universitas Negeri Semarang (UNNES)	2000 - 2005
	Master of Engineering	Universitas Gadjah Mada (UGM)	2005 – 2008
EMPLOYMENT	**Position**	**Place**	**Year**
	Chairmen	Unit Penjaminan Mutu (UPM) Jurusan Teknik Mesin	2019-now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Engineering and Manufacturing of Fiber Reinforced Polyester Composites for Applications on Fishing Boat Walls (2015-2016)		
	2. Utilization of Kelud Mount Sand as Printed Sand in the Metal Casting Process to Improve the Quality of Casting Products in the Home Industry (2017-2018)		
	3. Development of Carbon Fiber Reinforced Polyester Composites-glass fibers for prosthetic applications on runner legs (2019-2020)		
	4. Study of the Effect Pour Temperature on the Hardness and Liquidity of Al-Si (2017)		
	5. Increasing the accuracy of the Welding Machine against the Heat Input generated in the Welding Laboratory of the Mechanical Engineering Department of Unesa (2018)		
	6. The Effect of Carbon Fiber Reinforced Lamina Composite Fiber Direction Orientation on Bending Strength (2019)		
	7. Development of Arduino-Based Sensor Practicum Guide with a Collaborative Teamwork Learning Model Approach (2018)		
	8. Web Development of the Department as Information Media and		

	Promotion of the Department of Mechanical Engineering, Diploma in Mechanical Engineering (2016)
	1. Design of a Waste Shredder as a Waste Management Tool at Rewwin Sidoarjo Housing (2018)
	2. Cultivation Skills Training Using Hydroponics for Retired Civil Servants in Gayungan Village (2017)
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	3. PKM with the Title Technology for Duck Farmers in Mojoroto Village, Kec. Mojowarno Kab. Jombang (2016)
	4. Community Partnership Program through Application of Burning Stoves and Training on Pottery Motive Design in Pottery Manufacturing Industry in Malang, East Java (2019)
	5. PKM with the title IbM Wingko Manukan Surabaya Business Group (2014)
	6. The Companion for the Workshop on the Development of Learning Devices in Welcoming the 2013 Curiculum(2015)
	7. Electric Welding Training Instructor (2015)
	8. Mold Making and Metal Casting Process Training Instructors (2016)
	9. Sandal Product Business Group in Wedoro Village, Waru, Sidoarjo (2015)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	-	-

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. The Effect of Fiber Volume Fraction and Immersion time of NaOH on the impact strength of fiber reinforced Polyester Composites is Published in the Rotation Journal Vol. 18 No. January 1st, 2016 ISSN. 1411-027X
	2. Analysis of MIG Welding Electric Current Variations on the impact strength and microstructure of AISI 304 stainless steel welded joints is published in the Journal of OtoPro Vol. 10 No. 2 of 2015 ISSN. 1858-411X
	3. Casting Modulus Optimization for Hardness and Microstructure using kelud mountain sand published pada International Journal of Materilas Engineering and Technology (IJMET) vol. 17 No. 1 April 2018 ISSN. 0975-0444
	4. Effect of Fiber Volume Fraction on Shear Strength of Fiber-Reinforced Composites (Random-Anyam-Random) with polyester resin published in Reaktom Journal Vol. 2 No. 1 of 2017 E-ISSN. 2548-4095
	5. Increasing the Quality and Quantity of Pottery Production in the Pottery Manufacturing Industry in Malang, East Java is accepted in the Reaktom Journal Vol. 4 No. 2 of 2019 E-ISSN. 2548-4095
	6. Influence of pouring temperature on fluidity (flowability) of the Al-5Si National Seminar Proceedings of the 2017 ISBN LPPM. 978-602-0951-17-1
	7. Analysis of the impact of training on sandal design and sandal cutting

	tools for the sandal business group in Wedoro Village, Waru, Sidoarjo in the 2015 ISBN Semnas proceedings. 978-602-0951-06.05
	8. The Effect of Fiber Volume Fraction on the Bending Strength of Polyester Composites Strengthening the Palm Fiber Proceedings of the research results and PKM 2015 ISBN. 978-602-0951-08-9
	9. Influence of Pouring Temperature on Hardness and Microstructure of Al-Si in Metal Molds proceedings of the National Seminar on Metallurgy and Materials (SENAMM) X 2017 ISBN. 978-602-51621-0-7
	10. Optimization of Fiber Volume Fraction and Soaking Time of NaOH Against Bending Strength of Fiber-Reinforced Polyester Composite panels Proceedings of the National Seminar on Research Results and PKM 2016 ISBN. 978-602-0951-13-3
	11. The Use of English Textbooks to Improve Student Competencies of the Department of Mechanical Engineering UNESA in order to welcome the ASEAN Economic Community (MEA) proceedings of the National Convention VIII and the ISBN APTEKINDO seminar. 978-602-74864-0-9

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**

Staff Handbook



Prof. Dr. Muchlas Samani, M.Pd.

POSITION	**Mechanical Engineering Lecturer**		
	Professor of Technology and Vocational Education Sciences		
	Lecturer in the Department of Mechanical Engineering, Faculty of Engineering	Universitas Negeri Surabaya	1978- Now
ACADEMIC CAREER	**Degree**	**University**	**Year**
	Bachelor of Mechanical Engineering Education	Universitas Negeri Surabaya	1970-1978
	Master of Education	Universitas Negeri Yogyakarta	1985-1987
	Doctor of Educational Evaluation	Universitas Negeri Jakarta	1987-1991
EMPLOYMENT	**Position**	**Place**	**Year**
	Professor of Vocational Education	Universitas Negeri Surabaya-Indonesia	1978-Now
	Postgraduate Secretary IKIP Surabaya	Surabaya	1995-1997
	Assistant Chancellor Planning and Cooperation section UNESA	Surabaya	2006-2007
	Director of Manpower, Directorate General of Higher Education, Ministry of Education and Culture	Jakarta	2007-2010
	UNESA Chancellor	Surabaya	2010-2014
	Member of the Madrasah School Accreditation Board	Jakarta	2018-2022

	Chairman of the Independent Accreditation Institute for Education	Jakarta	2020-2023

ESEARCH AND DEVELOPMENT PROJECT OVER HE LAST 5 YEARS	1. Development of a Science and Technology Teacher Education Model (IDB research, 2016-2017, Chairman)
	2. Development of a Teacher Education Model in the Vocational Education Sector (Postgraduate Research , 2018, Member).
	3. The Effect of Education System Components on the Quality of Vocational High School Graduates (Research Professor , 2019, Chairman).

	Title	**Year**
PATENTS AND PROPRIETARY RIGHT	Mohon Maaf Masih Compang Camping (No. 000104141)	2015
	Semua Dihandle Google, Tugas Sekolah Apa? (No.000104824)	2016

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. *Instructional Model to Improve Problem Solving, Creativity and Team Working Skills for Tvet Student Teachers*. Paper presented on on UPI International Conference onTechnical and Vocational Education and Training, Bandung-Indonesia, November 15-16, 2016.
	2. *Competence Development for Vocational High School Teachers: An Indonesia Case.* Paper presented on TVET International Conference, Rostock Unoversity, Germany, August 16, 2017.
	3. *Developing Character Education Based on Local Wisdom.* Paper presented on International Conference in Education Innovation, Surabaya, July 28, 2017.
	4. *Vocational Education in the Era of Industry 4.0:An Indonesia Case.* Paper presented on APTEKINDO International Conference, Surabaya, July 11, 2018.
	5. *Improving 4-C Skills For Senior Secondary Vocational School Graduates.* Paper presented on TVET International Conference, Valencia University, Spain, May 2-3, 2019.
	6. *Learning Strategy to Develop Critical Thinking, Creativity, and Problem-Solving Skills for Vocational School Students*. Journal of Technological dan Vocational Education. Vol 25, No 1 (2019), May.

	Organization	**Position**	**Period**
ACTIVITIES IN SPECIALIST BODIES	Indonesian Bachelor of Education Association	Deputy Chairman of the Board of Trustees	2014 - Now
	Indonesian Association of Vocational Lecturers and Teachers	Chairman of the Board of Trustees	2016 - Now
	Indonesian Educational Evaluation Association	Member	2014 - Now

Staff Handbook



Dr. Drs. Muhaji, S.T, M.T
NIP. 196109131992031001

POSITION	**Lecturer in Mechanical Engineering Education**		
	Doktor Bidang Teknik Mesin (Konversi Energi) Unesa		
	Dosen di Jurusan Teknik Mesin Fakultas Teknik	Universitas Negeri Surabaya	1992- sekarang
ACADEMIC CAREER	**Gelar**	**Universitas**	**Tahun**
	Sarjana Pendidikan Teknik Mesin	IKIP Surabaya	1986- 1991
	Sarjana Teknik Mesin	STIT Widya Darma Surabaya	1994-1997
	Magister Teknik Mesin Minat Teknologi Energi	Istitut Teknologi Sepuluh Nopember (ITS) Surabaya	2000 – 2002
	Doktor Ilmu Teknik Mesin Minat Konversi Energi	Universitas Brawijaya (UB)	2011 - 2016
EMPLOYMENT	**Posisi**	**Tempat**	**Tahun**
	Sekretaris Tem Perencanaan dan Pengembangan Pendidikan (TP3)	Jurusan Teknik Mesin FT Unesa FT UNESA	1992 - 2004
	Kepala Sub laboratorium Motor Bensin	FT UNESA	2002-20011
	Ketua Jurusan Teknik Mesin	FT UNESA	2016- 2018
	1. The Effect of Flow Capacity Regulation with Valve and Inverter Settings on Centrifugal Pump Power Consumption (Faculty Research, 2019), Member		

RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	2. Study Completion of Study Program S1 PTM, S1 TM and D3 TM Department of Mechanical Engineering, Faculty of Engineering, Unesa (Faculty Policy Research, 2018), Chairman
	3. Environmentally friendly power plant technology with biogas solar panels in rural areas in East Java (Kemenristek Dikti, 2018), Member
	4. Performance Analysis of Lecturers of the Department of Mechanical Engineering, Faculty of Engineering, Unesa (Faculty Policy Research, 2017), Member 5. Tracing Study of Field of Work and Waiting Period for Graduates of Mechanical Engineering Education Study Program, Chairman
	6. Improving the quality of the methyl ester jatropha curcas lin transesterification method with H2SO4 category and performance tests, exhaust gas emissions and opacity in the second year 4 cylinder diesel engine (Kemenristek Dikti Competitive Grant, 2016), Chairman
	7. The quality of the methyl ester jatropha curcas lin the transesterification method with H2SO4 category and performance tests, exhaust emissions and opacity in the first 4-cylinder diesel engine (Grants Competing Kemenristek Dikti, 2015), Chairman
	8. Characteristics of the Burning Flame of Methyl Ester Head Oil, Cotton and Diesel Oil (Basic Research of the Ministry of Research, Technology and Higher Education, 2014), Chairman
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Pelatihan Reduksi Limbah Oli dari Saringan Oli Mesin Bekas Menggunakan Oil Filter Cleaner di SMK Negeri Bendo Magetan (Pengabdian Kebijakan Fakultas, 2019), Anggota
	2. Pelatihan Penelitian Tindakan Kelas Bagi Guru SMK .... (Pengabdian Kebijakan Fakultas, 2018), Anggota
	3. Pelatian Tune Up dan Overhoul Sepeda Motor Bagi Anak Panti Mulim Jambangan Surabaya, (Pengabdian Kebijakan Fakultas, 2017), Ketua
	4. PKM Mesin Penetas telur di desa Kenongo Kab. Sidoarjo (Pengabdian Kebijakan Fakultas, 2016), Anggota
	5. IbM Kelompok Industri Kecil Jumbreg Desa Paciran, Kecamatan Paciran Kabupaten Lamongan (Kemenristik Dikti, 2014), Anggota

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1.Aris A, Belina Y, Soeryanto, Muhaji (2019). Environmentally Friendly Power Generation Technologywith Solar PV-Biogas in Rural Areas of Eastern Java, IOP Conf. Series: Earth and Environmental Science 239 (2019) 012030
	2. Sudirman R. A, Munoto, Supari M., Muhaji (2019). Collaborative Problem-Based Learning Models Implementation in Vocational High Schools, 1st Vocational Education International Conference (VEIC 2019)
	3. Muhaji (2018). The Performance of Multi-Cylinder Gasoline Engine Fuelled with the Mixture of Bioethanol from Solanum Lycopersicum and Premium, International Conference, Asosiasi Pendidikan Teknologi dan Kejuruan Indonesia, *Advances in Social Science, Education and Humanities Research, volume 379*, Surabaya, 11-14 July 2018
	4. Muhaji (2015). The Quality of the Production of Methyl Ester from Jatropha Curcas Linn Using Catalyst H_2SO_4. International Conference on Educational Research and Development, ISBN 978-979-028-799-0, 2015
	5. Muhaji, Dwi H. (2017). The Characteristics of Bioethanol Fuel Made of Vagetable Raw Material. The Consortium of Asia-Pacific Education Universities (CAPEU). IOP Conf. Series: Materials Science and Engineering **296** (2017) 011001 doi:10.1088/1757-899X/296/1/011001
	6. Muhaji (2016). Advantage Waste The Ceiba Pentandra Seed to Alternative Fuel Diesel Enggenes. The 8 International Convention of Technological and Vocational and 19Th Indonesia Conggres of FT/FPTK-JPTK.ISBN: 978-602-74864-1-6
	7. Muhaji, I Made Muliatna (2016) Characteristics of Physical Properties of Jatropha Curcas Linnaous Biodiesel and Its Mixtures. NATIONAL SEMINAR Research Results and Community Service, State University of Surabaya SEMNAS PPM 2016, ISBN. 9786020951133
	8. Muhaji (2016). Application of Walur Tuber Bioethanol (Amorphophallus Paenifolius) as Premium Extender in 4-stroke 1-cylinder petrol motorcycles. Proceedings of the National Seminar of the Faculty of Engineering and Arts, University of Gorontalo,
	9. Muhaji (2015) Curcas Linn Using Catalyst H2SO4, International Conference on Educational Research and Develpment, ICERD
	10. Muhaji, ING Wardana, Lilis Y, Norsasongko, (2015). The Combustion Characteristics of Vegetable Oil Methyl Esters, Int.

	Journal or Applied Enginering Research. ISSN 0973-4562 Volume 10, Number 4 (2015) pp 11209-11220
	11. Muhaji, ING Wardana, Lilis Y, Norsasongko, (2015). Combustion of Pure, Hydrolyzed and Methyl Ester form of Jatropha Curcas Lin oil, Int. Journal of Renewable Energy Development, 4(3) 2015: 211-218
	12. Muhaji (2015). The Effect of Transesterification Process with H2SO4 Catalyst on the Quality of Methyl Ester (Biodiesel) Jatropha Curcas Lin. National Seminar on Research Results and Community Service. LPPM Unesa, 2015
	13. Muhaji (2015). Physical Properties and Burning Characteristics of Vegetable Oil Methyl Ester. TECHNOLOGY NATIONAL SEMINAR 2015 Malang National Institute of Technology. ISSN: 2407 - 7534
	14. Muhaji (2015). Application of Environmentally Friendly Kenalpot in Lightweight Multi-cylinder Vehicles as National Seminar Speaker APTEKINDO communication forum FT/FTK, FPTK, JTK Universitas Se-Indonesia., Bandung, 2014

	Organisasi	Posisi	Periode
ACTIVITIES IN SPECIALIST BODIES	Experts and Lecturers of the Republic of Indonesia (ADRI)	Member	2016 - Now
	Sustainable Agriculturu, Food ang Energy (SAFE)	Member	2016 - Now

Staff Handbook



Novi Sukma Drastiawati, S.T., M.Eng

POSITION	**Mechanical Engineering Lecturer**		
	Degree	**University**	**Year**
	Mechanical Engineering Lecturer	Universitas Negeri Surabaya-Indonesia	2014- Now
ACADEMIC CAREER	Bachelor of Engineering (B.Eng) Mechanical Engineering -Metallurgy	Institut Teknologi Sepuluh Nopember	2006-2009
	Master of Engineering (M.Eng) Mechanical Engineering-Materials Engineering	Universitas Gadjah Mada	2010-2012
EMPLOYMENT	**Position**	**Place**	**Year**
	Lecturer in the Department of	Departement Of Mechanical	2014-Now

	Mechanical Engineering	Engineering Universitas Negeri Surabaya-Indoesia	
	Editor of Mechanical Engineering Journal	Department of Mechanical Engineering Universitas Negeri Surabaya	2017-Now
	Editor of OTOPRO Journal	Department of Mechanical Engineering Universitas Negeri Surabaya	2017 - Now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. 2015 : Design of Hardebility Testing with Modified Jominy Testing Using Three Cooling Media Nozzles 2. 2016 : Study of Academic Staff Activities in Research and Community Service to Support the Accreditation of Undergraduate Mechanical Engineering Education Study Programs 3. 2016 : Academic Staff Performance Contribution in Research and Community Service to the Achievement of Accreditation for Mechanical Engineering Diploma Study Programs 4. 2017 : Study of the Effect of Pouring Temperature on Hardness and Fluidity of Al-10Si Alloy 5. 2018 : Design of Plumbing and Exhaust Chimney at Metal Coating Laboratory, Department of Mechanical Engineering 6. 2019 : The Relationship Between CNC Competence and Resilience of Vocational School Students 7. 2019 : Development of Eco Friendly Motorcycle Exhaust with Metallic Catalytic Converter Technology Titanium Dioxide (TiO2) as Industrial Prototype to Support Blue Sky Program and SDGs 8. The Effectiveness of Applying Various Models of Disinfectant Spraying During the Covid-19 Pandemic **Mitra:** 1. Universitas Negeri Surabaya, Indonesia **Rata-Rata Dana Penelitian:** 1. Rp. 10.000.000/ tahun 2. Rp. 15.000.000/tahun 3. Rp. 80.000.000/tahun (tahun ke-1)		

SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	Title	
	1. 2016 : Mastercam Training as Support for CNC Courses for Mechanical Engineering Diploma Students, Department of Mechanical Engineering. 2. 2017 : Welding And Casting Worked Based Training For Vocational School Students 3. 2017 : Science and Technology for UKM Brem in Mejayan Madiun 4. 2018 : Heat Treatment Training in Basic Automotive Technology Subjects for Students of Islamic Vocational School Al Amal Surabaya 5. 2018 : Semi-Automatic Herbal Medicine Processing Machines (Food Grade Standard) To Increase Productivity And Quality UKM Jamu in Mangkujayan, Magetan Regency 6. 2019 : Solidwork Training in Drawing Subjects for Students at SMKN 1 Bendo Magetan. 7. 2019 : Traditional Herbal Processing Machines to Increase Productivity of "UKM Jamu Herbal" in Sruni Gedangan, Sidoarjo 8. 2020 : Program for Providing Handwashing Soap to the Community in the Context of Preventing the Spread of Covid 19 in Surabaya	
IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. Hanna Zakiyya, **Novi Sukma Drastiawati**, "*Sensitivity Evaluation of Stainless Steel 316 Using a Jominy Hardenability Test*", (2016) Jurnal Mekanika Universitas Sebelas Maret Volume 15 No 02	
	2. M. Arif Irfa'i, **Novi Sukma Drastiawati**, "*Effect of pouring temperature on fluidity Al-5Si alloy*", (2017) Prosiding Seminar Nasional PPM LPPM Universitas Negeri Surabaya	
	3. **Novi Sukma Drastiawati**, Pudjijuniarto, "*Design of Semi-Automatic Brem Dryer to Increase Productivity of UKM Brem Madiun*", (2017) Prosiding Seminar Nasional PPM LPPM Universitas Negeri Surabaya	
	4. **Novi Sukma Drastiawati**, H.C. Kis Agustin, "*Failure Analysis of the left waterwall tube of boiler furnace in the steam power plant based on thickness changes and pressure*", (2017) Multidiscipline in Materials and Structures Vol 13 Issue 4 pp. 539-549	
	5. **Novi Sukma Drastiawati**, Hanna Zakiyya, Firman Yasa Utama, Wahyu Dwi Kurniawan, "*Preliminary Study of Failure Analysis on Tube Material Boiler Based on Pressure Aspect*", (2018) IOP Conference Series: Materials Science and Engineering Vol 288 Januari 2018	
	6. Muhamad Syarifuddin Zuhrie, Purbodjati, **Novi Sukma Drastiawati,** "*Application of Spice Peeling Machines to Increase Productivity of UKM Traditional Herbal Medicine*", (2018) Jurnal Pengabdian Kepada Masyarakat Universitas Padjajaran Volume 2 No 4	

	7. Syeihan Syahrul Syah, **Novi Sukma Drastiawati**, Helmy Taufan, "*Calculation of Cooling Capacity Required On Tanker Ship 17500 Ltdw Cooling Capacity Calculations Required On Tanker Ship 17500 Ltdw*", (2018) Jurnal OTOPRO Vol 14 No 1 November
	8. Muhammad Rizal, M. Fairuz Zamani, **Novi Sukma Drastiawati**, "*Equipment Critically Rating Classification and Expand Process on Exchanger E-5503 at PT Petrokimia Gresik III "*, (2018) Jurnal OTOPRO Volume 14 No 1
	9. **Novi Sukma Drastiawati**, "*Discovery Learning Model with AUTOCAD Media to Improve Students Understanding of the Materials Science 1 Course Department of Mechanical Engineering, UNESA*", (2019) Journal of Vocational and Technical Education (JVTE) Vol 1 No 1
	10. Boby Xaverius, Helmi Taufan, **Novi Sukma Drastiawati**, "Study of Cooling Capacity of 60 Meter Fast Missile Boats (Case Study on Kcr 60 Batch at PT. PAL Indonesia", (2019) Jurnal OTOPRO Vol 14 No 2 May 11. Any Sutiadiningsih, Agung Prijo Budijono, **Novi Sukma Drastiawati**, " A Design of Herbal Extraction Machine" (2019) Procceeding of International Conference on Research and Academic Community Services (ICRACOS) 12. **Novi Sukma Drastiawati**, I Wayan Susila, Dwi Heru Sutjahjo, " *Study Of Research Lecturers And Community Service Activities in Mechanical Engineering Education Undergraduate Study Program"* (2020) Journal of Vocational and Technical Education (JVTE) Vol 2 No 1 March 13. I Made Arsana, AHA Rasyid, **Novi Sukma Drastiawati**, SR Ariyanto, " *The Influence of Baffle Gap To The Effectivness of Shell and Tube Heat Exchanger with Hellical Baffle*", (2020) Journal of Physics : Conference Series 1569 (4) 14. **Novi Sukma Drastiawati**, Ria Handiwi, Jarot Danang Priambodo, Warju, "*Axial Load Kiln Normalization Process and Maintenance Drag Bucket (Pan Conveyor) To Guarantee of Production Equipment in Cement Production"*, (2020*) Indonesian Journal of Engineering and Technology*" (INAJET) Vol 2 No 2 April 15. **Novi Sukma Drastiawati**, Nur Aini Susanti, Diah Wulandari, Tri Hartutuk Ningsih, Andita Nataria Fitri G, "*Solidwork Training To Improve Drawing Engineering Skills For Vocational School Students*" (2020) Journal of Character Education Society Vol 3 No 3 October 16. **Novi Sukma Drastiawati**, Nur Aini Susanti, Hanna Zakiyya, Diah Wulandari, "*Work Based Training Of Welding And Casting To Improve The Skills Of Al-Amal Islamic Vocational Schools Surabaya*" (2020) Jurnal ABDI Vol 5 No 2 January



Novi Sukma Drastiawati, S.T., M.Eng
NIP. 198411242015042003

Staff Handbook



Nur Aini Susanti, S.Pd., M.Pd.

POSITION	**Lecturer Of Mechanical Engineering Education**		
	Degree	**University**	**Year**
ACADEMIC CAREER	Bachelor of Mechanical Engineering Education	Universitas Negeri Surabaya (UNESA)	1999 - 2004
	Master of Technological and Vocational Education	Universitas Negeri Surabaya (UNESA)	2010 – 2013
EMPLOYMENT	**Position**	**Place**	**Year**
	Head of sublab CNC	Universitas Negeri Surabaya (UNESA)	2014 - Now
	Manager of ejournal JPTM (ejournal Pendidikan Teknik Mesin)	Universitas Negeri Surabaya (UNESA)	2014 - Now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Increasing Activeness and Learning Outcomes Using the CNC I Learning Module in the D3 Mechanical Engineering Study Program, Universitas Negeri Surabaya (2014)		
	2. Development of CNC II Teaching Modules Oriented to Project-Based Learning Modules (*PjBL)* Modules (2015)		
	3. Pengembangan Perangkat Pembelajaran Sistem Pneumatik Berbasis *Computer and Assisted Learning* Yang Berorientasi Kebutuhan Industri. (2015)		
	4. Development of Pneumatic Learning System Based on Computer and Assisted Learning Industry Needs Oriented (2016)		
	5. Study of Student Academic Achievement of Non Academic Achievements of Undergraduate Students of Mechanical Engineering Universitas Negeri Surabaya. (2016)		

	6. Production Based Training on CNC Courses (2017)
	7. Modification of Semi Automatic System and Addition of Spin Coating Function to Metalography Grinder Machine, Coating Laboratory of Mechanical Engineering Department . (2018)
	8. The Relationship Between CNC Competence and Resilience of Vocational School Students (2019)
	9. Design of Automatic Fish Feeding Machine Based on IOT System to Increase Productivity of Fish Cultivation Entrepreneurs
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Biobriquette Manufacturing Training and Motor Vehicle Exhaust Emission Tests Training. SMA Negeri 4 Madiun . (2014)
	2. Training of Trainer Computer Numerically Controlled dan Maintenance & Repair (MR). (2015)
	3. Mold Making and Metal Drilling Process Training. UD. Mandiri Lakarsantri Sby. (2015)
	4. Training for Preparation of Classroom Action Research Proposals for Undergraduate Students of Mechanical Engineering Education Programming the Educator Professional Development Course (P3). (2015)
	5. Mastercam Training as Support for CNC Courses for D3 Mechanical Engineering Students Department of Mechanical Engineering. (2016)
	6. Application of a Flour Mixing Machine to Increase the Production of Egg Nuts in Deyeng Village. (2016)
	7. Laundry and Dry Clean Services UKM.(2017)
	8. Item Analysis Training Using Excel for Teachers at Wachid Hasyim Tebuireng High School, Jombang .(2018)
	9. *Welding and Casting Work Based Training for Vocational School Students.* (2017)
	10. Learning Model Training for Teachers at SMK Negeri Wonosalam Jombang (2018)
	11. Metal Heat Treatment Training in Basic Automotive Technology Subjects for Vocational School Students Islam Al Amal Surabaya. (2018)
	12. Increasing the Economic Value of Tofu Dregs Waste Using a Rotary Technology Drying Machine to Make Food Flour and Animal Feed in Tawangsari Village, Regency Sidoarjo.(2018)
	13. Solidwork Training in Drawing Technique Subjects for SMKN Students 1Bendo Magetan. (2019)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	-	-

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. Pengembangan Perangkat Pembelajaran Mesin Bubut CNC TU-2A Merk EMCO Austria Berorientasi Pada Model Pembelajaran Langsung. 31 Agustus 2013. Vol.1 No.1. Unesa. Jurnal Pendidikan Vokasi: Teori dan Praktek ISSN : 2302-285X

	2. Meningkatkan Keaktifan dan Hasil Belajar Menggunakan Modul Pembelajaran CNC I Pada Program Studi D3 Teknik Mesin Universitas Negeri Surabaya. Prosiding. APTEKINDO XIX Medan. 2016.
	3. *Production Based Training* Pada Mata Kuliah CNC. International Conference (IC) Call for paper ke 13, Surabaya. Perkumpulan Ahli dan Dosen Republik Indonesia (ADRI). 2013)
	4. Efektivitas Pelayanan Jasa Laundry Melalui Penerapan Seperangkat Setrika Uap. Seminar Nasional. PPM UNESA. 2017
	5. Studi Tentang Peran Alumni Sebagai *Public Private Partnership* Pada Dunia Pendidikan. Seminar Nasional Pendidikan Vokasi ke 2. Universitas Negeri Sebelas Maret. 2017
	6. Model Assessment On CNC Learning. International Conference The 3rd Asian Education Sympossium (AES). Universitas Pendidikan Indonesia Bandung. (2018)
	7. Modification of Automatic Semi System and Addition of Spin Polishing Function on Metalography Grinder Machine. Konvensi Nasional Pendidikan Indonesia (KONASPI 2019) & International Conference. Universitas Negeri Padang. (2019)

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**

Staff Handbook



Dr. Theodorus Wiyanto, M.Pd.

POSITION	**Lecturer of Education of Mechanical Engineering**		
	Doctor of Vocational Technology Education		
	Degree	**University**	**Year**
	Lecturer in Mechanical Engineering Department	State University of Surabaya - Indonesia	1991 - present
ACADEMIC CAREER	Bachelor of Education of Mechanical Engineering	IKIP Surabaya - Indonesia	Graduated on 1990
	Master of Vocational Technology Education	IKIP Yogyakarta - Indonesia	Graduated on 1999
	Doctorate in Vocational Technology Education	State University of Yogyakarta	Graduated on 2014
EMPLOYMENT	**Position**	**Institution**	**Tahun**
	Lecturer in Mechanical Engineering Department	State University of Surabaya	1991 - present
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Design of Effective and Efficient Production Technology of Krupuk Dryer to Increase Productivity of Krupuk SMEs. Research fund of Higher Education Competitive Grant (2015)		
	2. Waiting Periode for Graduates of the Bachelor Degree of Mechanical Engineering Education Study Program. Policy Research, Faculty of Engineering, Unesa. (2016)		

	3. Implementation of Reviewing of Semester Learning Design for D-3 Mechanical Engineering Study Program, Engineering Faculty, Unesa. Policy Research of the Faculty of Unesa (2018)
	4. Implementation of Online Learning by Using the "Whatsapp Group" Application for Research Methodology Subjects during the Covid-19 Pandemic. Faculty of Engineering, Unesa (2020)
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Ibm Farmers Association "Sido Makmur" Tulungagung. Director General of Higher Education (2015)
	2. IBM Wire Bending Equipment in Buduran Area. DIPA Unesa(2015)
	3. Vocational School (SMK) Teacher Training to Improve Scientific Writing Competency. Service of Unesa Postgraduate Program Policy (2016)
	4. IBM Tempe Small Industry Entrepreneurs Group. Ditinlitabmas Dirjen Dikti(2016)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	1.	
	2.	
	3.	
	4.	
	5.	

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS			1.
			2.
			3.
			4.
			5.

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**
	State University of Surabaya - Indonesia	Head of Data & Information, Quality Assurance Center	2014-2015
	Engineering Faculty, State University of Surabaya - Indonesia	Head of Auditor, Reviewer, and Quality Assessor Group	2014-2015
	State University of Surabaya – Indonesia	Head of Academic Quality Assurance Standards Division,	2016-

		Quality Assurance Center	
	Mechanical Engineering Department, State University of Surabaya - Indonesia	Head of Laboratory of CAD-CAE	2016-present
	Postgraduate Faculty	Quality Assurance Unit	2016-

Staff Handbook



Priyo Heru Adiwibowo, S.T., M.T.

POSITION	**Lecturer in Mechanical Engineering Education**		
	Field of Mechanical Engineering		
	Degree	**University**	**Year**
	Lecturer at Mechanical Engineering Department	Universitas Negeri Surabaya-Indonesia	2005 – present
ACADEMIC CAREER	Bachelor of Mechanical Engineering	Institut Teknologi Sepuluh Nopember (ITS) Surabaya	1987 - 1992
	Master of Conversion Engineering	Institut Teknologi Sepuluh Nopember (ITS) Surabaya	2006 – 2009
EMPLOYMENT	**Position**	**Place**	**Year**
	Head of Bachelor Study Program in Mechanical Engineering / Head of Laboratory in Mechanical Engineering	Mechanical Engineering at Universitas Negeri Surabaya -Indonesia	2019- present
	Head of Bachelor Study Program in Mechanical Engineering	Mechanical Engineering at Universitas Negeri Surabaya -Indonesia	2016 - 2019
	Head of Fluid Laboratory	Mechanical Engineering at Universitas Negeri Surabaya -Indonesia	2012 - 2016
	Thesis Bureau	Mechanical Engineering at Universitas Negeri Surabaya -Indonesia	2008 - 2012

RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. The Effect of Gap Ratio "G / D" on Flow Characteristics Across the Arrangement of Four Circular Cylinders Near the Wall (Basic Research of Higher Education 2019, as Member)
	2. Design of V Notch Wier to Support Practicum in the Fluid Mechanics Laboratory (2018 Faculty Policy Research, as Chair)
	3. Tracer Study of Graduates of the S-1 Mechanical Engineering Study Program, FT-UNESA in the World of Work. (Faculty Policy Research 2017, as Chair)
	4. Kaplan Type Water Turbine Engineering for Micro Hydro Power Plant (PLTMH) Design Towards Energy Independence. (Advanced Competitive HIbah Research 2016, as Chair)
	5. The Effect of "L / D" Cylinder Arrangement Ratio on Flow Characteristics Across Four In-Line Circular Cylinders Near Wall. (2016 Advanced Competitive Grants Research, As Member).
	6. Kaplan Type Water Turbine Engineering for Micro Hydro Power Plant (PLTMH) Design Towards Energy Independence. (Competitive Grants Research 2015, As Chair)
	7. Design of Portable River Water Capacity Measuring Instrument for Mapping Potential Micro Hydro Power Plant (PLTMH). (Advanced Competitive HiIbah Research 2014, as Chair)
	8. Design of a portable system for measuring river water capacity for mapping the potential of a micro hydro power plant (MHP). (Advanced Competitive HiIbah Research 2014, as Chair)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	-	-

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. **Priyo Heru Adiwibowo,** A Grummy Wailanduw, "Experimental Performance of Turbine Reaction Flow Type Straight with Blade Ratio Variation ", International Journal of Innovative Technology and Exploring Engineering (IJITEE),Vol 9 Issue-3S Tahun 2020 hal 186-190, Blue Eyes Intelligence Engineering & Sciences Publication (2020)
	2. A Grummy Wailanduw, Triyogi Yuwono, **Priyo Heru Adiwibowo**, " Force Coefficient Characteristics On A Four Circular Cylinders In An In-Line Square Configuration Near A Plane Wall At "Small Gap" , Innovative Science and Technology in Mechanical Engineering for Industri 4.0, Hal : 020025-1 – 020025-8, AIP Conference Proceedings 2187 (2019)
	3. Irma Russanti, Yulistiana, **Priyo Heru Adiwibowo**, "Developing Of Knockdown Gawangan Batik Design", KONASPI IX 2019 & International Conference, Hal : 622-626, KONASPI 2019 & International Conference Universitas Negeri Padang (2019)
	4. Dany Iman Santoso, **Priyo Heru Adiwibowo**, Akhmad Hafizh Ainur Rasyid, " *Analisis Beban Kinerja Dosen Periode 2012-2016*

	Terhadap Pelaksanaan Tri Dharma pada Prodi III Teknik Mesin", Journal of Vocational and Technical Education No.2 Vol 1 Tahun 2019 hal 11-18, Fakultas Teknik Universitas Negeri Surabaya (2019).
	5. A. Grummy Wailanduw, **Priyo Heru Adiwibowo**, Budihardjo Achmadi Hasyim, "Numerical Simulation of Cross Flow Around Four Circular Cylinders In An In-Line Square Configuration Near A Plane Wall At Laminar Boundary Layer ",SNTTM XVII, Hal : 162-167, Program Studi Teknik Mesin Kampus UNDANA Penfui Kupang (2018)
	6. **Priyo Heru Adiwibowo**, A Grummy Wailanduw, "*Rekayasa Sudut Guide Turbin Kaplan Terhadap Daya*", Prosiding/Seminar PPM UNESA 2017, Hal : 361-364, LPPM UNESA SURABAYA (2017)
	7. Priyo Heru Adiwibowo, "*Penerapan Model Pembelajaran Berdasarkan Masalah Sebagai Upaya Prestasi Belajar Dalam Mata Kuliah Menggambar Dasar Pada Mahasiswa S1 Pendidikan Teknik Mesin FT Unesa*", The Role of Technological and Vocational Education in the Economic Community ASEAN (MEA), Hal : A-05-045 9, Faculty of Engineering, State University of Medan, Association of Indonesian Technological and Vocational Education (APTEKINDO) (2016)
	8. Priyo Heru Adiwibowo, Umar Wiwi, Diastian Vinaya Wijanarko, "*Karakteristik Sudu NACA 0012 Turbin Kaplan Terhadap Daya dan Efisiensi, PPM UNESA 2016*, page : 83-87, LPPM UNESA SURABAYA (2016)
	9. A Grummy Wailanduw, **Priyo Heru Adiwibowo**, "*Simulasi Numerik Aliran Melintasi Susunan Empat Silinder pada Rasio L/D = 3,0 Dekat Dinding*", Journal of Mechanical No.1 Vol 25 Year 2016 hal 29-40, ITB Journal Publisher (2016)
	10. **Priyo Heru Adiwibowo**, Umar Wiwi, "*Judul Rekayasa Jumlah Blade Turbin Air Kaplan Untuk Rancang Bangun Pembangkit Listrik Tenaga Mikro Hidro* (PLTMH), PPM Unesa 2015, Page : 289 – 296, LPPM UNESA SURABAYA (2015)
	11. Anif Jamaluddin, Pety Refiyanti, Dewanto Harjunowibo, Lita Rahmasari, Jamzuri, Dwi Teguh R, **Priyo Heru Adiwibowo**, " A Wireless Water Flow Monitoring in a Closed Channel Pipelline For Leakage" Jurnal Advanded Science Letters No.10 Vol 21, hal 2989-2992, American Scientific Publishers (ASP) (2015)
	12. Priyo Heru Adiwibowo, "*Upaya Peningkatan Prestasi Belajar Dalam Mata Kuliah Kinematika Dinamika Dengan Model Pembelajaran Berdasarkan Masalah (PBL) Pada Mahasiswa D3 Teknik Mesin FT Unesa, Konvensi Nasional APTEKINDO VII dan Temu Karya XVIII FPTK/FT-JPTK Se-Indonesia, Hal : 885-891*", The Faculty of Technology and Vocational Education, University of

	Education of Indonesia, collaborates with the Indonesian Association of Vocational and Technology Education (APTEKINDO) (2014)

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**
	Association of BKSTM	Member	2019 – present

Staff Handbook



Prof. Dr. Ir. I Wayan Susila, MT
NIP. 195312151980021002

POSITION	**Mechanical Engineering Lecturer**		
	Professor of science: Renewable Energy		
	Degree	**University**	**Year**
	Lecturer in the Department of Mechanical Engineering, Faculty of Engineering	Unesa	1980 - Present
ACADEMIC CAREER	BA Bachelor of Chemistry (Bachelor of Mechanical Engineering Education)	Institut Keguruan dan Ilmu Pendidikan (IKIP) Surabaya	1973 - 1976
	Drs (Bachelor of Mechanical Engineering Education)	Institut Keguruan dan Ilmu Pendidikan (IKIP) Bandung	1977 - 1979
	Ir (Bachelor of Construction Mechanical Engineering)	Sepuluh Nopember Institute of Technology (ITS)	1980 - 1984
	MT (Master in Mechanical Engineering)	Institut Teknologi Bandung (ITB)	1995 - 1997
	Doctor (Chemical Engineering, Process Technology)	Institut Teknologi Sepuluh Nopember (ITS)	2007 - 2012
EMPLOYMENT	**Position**	**The place**	**Year**
	Lecturer in the Department of Mechanical Engineering	Department of Mechanical Engineering, FT-Unesa	1980 - Present
	Assistant Dean I of the Faculty of Engineering	Department of Mechanical Engineering, FT-Unesa	2016 - Present
	Dean of the Faculty of Engineering	Unesa	2020 - 2010 (Period I - II)
	Chairman of the Institute for Research and Community Service (LPPM)	Unesa	2012 - 2016

RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Improving the Quality of Rubber Seed Biodiesel Non-catalytic method through the preliminary degumming process and engine performance tests and exhaust emissions (STRANAS 2014, Member)
	2. Cyclone Technology Based Car Air Filter (CPPBT 2017, Member)
	3. Renewable Energy Power Plant Development Using Waves, Wind and Solar Energy on the South Coast of East Java Using Hybrid On-Grid Technology (INSINAS RISET PRATAMA INDIVIDU, 2017, Member)
	4. Diesel Particulate Trap (DPT) Diesel Engine Exhaust Builder to reduce Exhaust Gas Opacity in Supporting the Blue Sky Program (STRANAS INSTITUSI 2018, Member)
	5. Efforts to Improve the Quality of Sugarcane Drops Bioethanol through Distillation Improvement Using Limestone Absorbent (Faculty Policy Research, 2018, Chair)

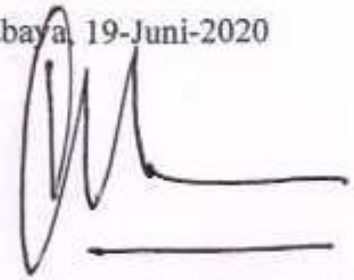
PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	1. Non-catalyst semi-continuous method of Biodiesel Production Process from rubber seeds	Registration Number P00201607470

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	
	1. Susila, I.W., Rachimoellah, Sutantra, I.N., 2012. The Performance of Diesel Engine Using Biodiesel Fuel from Rubber Seed Oil Production by Catalytic Method. International Journal of Technology. Volume 3(1), pp. 24-34. DOI : https://doi.org/10.14716/ijtech.v3i1.79
	2. I Wayan Susila, Rudiana Agustini, Setya Chendra Wibawa. The Development of Biodiesel Production Process from Rubber Seed Oil by Non Catalytic Method and Degumming. International Journal of Innovative Research in Advanced Engineering (IJIRAE) ISSN: 2349-2763 Issue 03, Volume 3 (March 2016). www.ijirae.com.
	3. I Wayan Susila, Rudiana Agustina, Dwi Heru Sutjahjo, Warju, 2015. Bioetanol Potential of Corn Waste as a Replacement of Premium Fuel. Loaded in the proceedings of the PPM Unesa national seminar on 31 October 2015 p. 432-439 ISBN: 978-602-0951-06-5 and 978-602-0951-08-93
	4. Mochamad Cholik, Soeryanto, Dwijani Ratnadewi, I Wayan Susila & Muchlas Saman. Competence Development for Vocational High School Teachers: An Indonesia Case. Social Dimension and Participation in Vocational Education and Training Proceedings of the 2nd conference "Crossing Boundaries in VET". University of Rostock, Germany ISBN: 978-3-86009-481-5 2017.
	5. Subuh Isnur Haryuda1, I Wayan Susila1, Indra Herlamba Siregar1 and Ansori Aris2. Power Control of Grid-Connected Photovoltaic-Wind Turbin-Bouy Conversion Energy Wave Hybrid System. IOP Conference Series: Materials Science and Engineering, Volume 494, International Conference on Mechanical Engineering Research and Application 23–25 October 2018, Malang, Indonesia. doi:10.1088/1757-899X/494/1/012074

	6. Eppy Yundra., Unit Tree Kartini., Galuh Datuningsih Harsono, and I Wayan Susila., (2019) Dynamically Allocation Guaranteed Time Slot Based On IEEE 802.15.4 for Wireless Sensor Networks., International Conference on Research and Academic Conference Community Service (ICRACOS)., Surabaya
	7. I Made Arsana, Susila I Wayan, Cholik Mochamad. 2020. Designing And Performance Testing Of Meatball Forming Machine. DOI: 10.2991/icracos-19.2020.49. Conference: Proceedings of the International Conference on Research and Academic Community Services (ICRACOS 2019)
	8. Novi HandayaniWayan SusilaA.Grummy WailanduwA.Grummy Wailanduw. 2019. Influence of Experience in Industrial Work Practices on Student Work Readiness Light Technology Vehicle Engineering at Indomobil Nissan Datsun East Java in 2019. International Journal for Educational and Vocational Studies (IJEVS). E-ISSN : 2684-6950. Organized by Faculty of Teachers Training and Education, DOI: 10.29103/ijevs.v1i7.1674
	9. Septian Rahman Hakim, Luthfiyah Nuelaela, IGP Asto Budi, Munoto, I Wayan Susila. Any Sutyaningsih, (2019)., Analize of Vocational School Components in Entrepreneurship Readiness., IEEE Eurasia Conference on IOT, Communication and Engineering (ECICE) October 3 – 6, YUNUN, Taiwan. Web. 2019.ecice.asia.
	10. Yeni Anistyasari, EkoHAriadi, Munoto, I Wayan Susila and Any Sutyadiningsih (2019)., An Automated Scoring Tools of Originallity for The Torrance Test of Creative Thinking Figural Form, BICMST Brawijaya International Conference on Multidiciplinary Sciences and Technology, Malang-Indonesi, http.//biecmst.ub.ac.id

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**
	Indonesian Professors Association (API)	Renewable Energy Sector Member	2019 - Now

Surabaya, 19-Juni-2020



Peof.Dr.Ir. I Wayan Susila., MT
NIP: 19531215 198002 1 002

Staff Handbook



Rachmad Syarifudin Hidayatullah S.Pd., M.Pd

NIP. 198712062019031013

POSITION	**Lecturer in Mechanical Engineering Education**		
	Master in Vocational Technology Education		
	Degree	**Universitas**	**Year**
	Lecturer at the Department of Mechanical Engineering, Faculty of Engineering	Universitas Negeri Surabaya-Indonesia	2019-Now
ACADEMIC CAREER	Bachelor of Mechanical Engineering Education	Universitas Negeri Surabaya-Indonesia	2006 - 2011
	Master of Vocational Technology Education	Universitas Negeri Surabaya-Indonesia	2011 - 2015
EMPLOYMENT	**Position**	**The place**	**Year**
	Lecturer in the Department of Mechanical Engineering	Universitas Negeri Surabaya-Indonesia	2019-Now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	Implementation of Troubleshooting Teaching Method to Develop Student's Competency in Conducting Motorcycle Tune-up 2019		
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS			
PATENTS AND PROPRIETARY RIGHT	**Title**		**Year**

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS			
ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**

Staff Handbook



Dr. Soeryanto, M.Pd.

POSITION	**Associate Professor**		
	Doctor in science vocational technology education		
	Degree	**University**	**Year**
ACADEMIC CAREER	Bachelor of Education	Institut Keguruan dan Ilmu Pendidikan (IKIP) Surabaya	1979 - 1983
	Master of Education	Pascasarjana IKIP Jakarta di Universitas Negeri Yogyakarta	1984 – 1987
	Doctor of Education	Pascasarjana IKIP Jakarta	2005 - 2010
EMPLOYMENT	**Posisi**	**Tempat**	**Tahun**
	Lecturer	Universitas Negeri Surabaya-Indonesia	1988- sekarang
	Head of Mecahanical Eng. Department	Universitas Negeri Surabaya	2019 - present
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Optimalization of industrial internship potential to develop student soft-skill. (2019)		
	2. Tracer study of mechanical engineering graduates. (2019)		
	3. Renewable power plant building based on solar cell Ti02, PLT-Biogas and Fuel Cell with the utilization of local raw materials to create the independence of electricity in remote area. 1st year (2017)		
	4. Renewable power plant building based on solar cell Ti02, PLT-Biogas and Fuel Cell with the utilization of local raw materials to create the independence of electricity in remote area. 2nd year (2018)		
	5. The development of Synchronized generator test equipment to support electrical power engineering trainer. (2017)		

PATENTS AND PROPRIETARY RIGHT	Title	Year
	-	-

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	
	1. **Soeryanto**, Tri Rijanto, and Monika Hella Anjelina, "*The Development of Practicum Modul for The Installation of Electric Motors Subject With Ekts Software to Improve Critical Thinking Skills*," Internasional Journal of Supplay Chain management, IJSCM, ISSN: 2050-7399, Vol. 2 No.1, March 2019.
	2. **Soeryanto**, Agus Wiyono, and Johan Nurfauzan, "*Productive Performance of Teacher of Vocational Secondary Schools Mecanical Engineering Major: Survei on Vocational School Teacher's Performance at The Regency and City of Mojokerto*," Proceeding at Internasional Conference: VIEIC on Semarang, Indonesia, March, 2019.
	3. Agus Wiyono, **Soeryanto**, and Dedy Rahman Prehanto, "*Determining Location of Vocational Schools Based on Area Potentials of Pasuruan Regency*," Ecology, Environment and Conservation Paper, Vol 25, Issue 4, 2019, Quarterly ISSN 0971-765 X, pp. 1.632-1.637.
	4. Supari Muslim, Erina Rahmadyanti, **Soeryanto**, Nita Kusumadewi, Euis Ismiyati, Moch. Supriyanto, "*The Effect of Industria; Work Practice to Work Readiness of Vocational High School at Indonesia*," American Journal of Humandities and Social Research (AJHSSR), e-ISSN: 2378-703X, Volume-03, Issue-10, pp. 203-210.
	5. Tri Riyanto, **Soeryanto**, Novi Handayani, "*Measurement Reliability Inter-Assessors in Industrial Practice Activities*," Internasional Conference-ICIEVE, Third in Bandung, 26 November 2019, Abs-207, p.470.
	6. Firman Yasa Utama, Huda Mei Setio, **Soeryanto**, "*Analisa Redesain Sistem Mixer Cement Sebagai Pengolahan Limbah Batubara di PT X*." Jurnal Otopro Volume 12 No.2, Mei 2017, pp. 63-73.
	7. **Soeryanto**, Agung Prijo Budijono, Redy Ardiansyah, "Analysis of determination of motor power requirements in cassava shredding machines," P-ISSN; 1858-411x, Jurnal Otopro Volume 14, No.2, Mei 2019, pp.54-58.
	8. I.M Arsana, AHA Rasyid, Soeryanto, NS Drastiawati, and SR Ariyanto, "*The Influence of Baffle Gap to The Effectiveness of Shell and Tube Heat Exchanger with Helical Baffle*," Proceding Internasional Conference IJCST on Science and Technology, October 17-19, 2019 in Sheraton Hotel Surabaya, Indonesia.

	9. **Soeryanto**, "*Nasional Teaching Industry Workshop: mplementation of the Teaching Industry in Realizing Competent and Excellent HR for D4 Study Program*," 4 Oktober 2019, di PPs Universitas Katolik Parahyangan, Bandung.
	10. **Soeryanto**, "*National CP-Meme Workshop: Designing Learning Outcomes for Meme Curriculum for D4 Study Program*," 5-6 Oktober 2019, di PPs Universitas Katolik Parahyangan, Bandung
	11. M Effendy, EY Wardhono, **Soeryanto**, IM Arsana, "*Effect of Intraparticle Diffusion-Reactions at Reverse Flow Reactors: Methane Catalytic Oxidation*," Broad Exposure to Science and Technology, 2019 (Best2019), IOP Publishing Conf. Series: Materials Science and Engineering 673 (2019) 012007.
	12. Aris Ansori, Bellina Yunitasari, **Soeryanto,** Muhaji, " *Hybrid Model of Rural Power Generation*," Jurnal Otopro, Volume 13, 2019. pp.58-62. 13. Soeryanto, " LPTK Curriculum and Learning Systems to Prepare Vocational School Teachers to Enter the MEA in the Digital Age: A Thought," Konvensi Nasional Pendidikan Indonesia (Konaspi) VIII, di Jakarta, Indonesia, 2016.

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**
	Ikatan Sarjana Pendidikan Indonesia (ISPI)	Member	2005 - sekarang

Staff Handbook



Ahmad Ajib Ridlwan, S.Pd., M.SEI.

POSITION	**Lecturer at Mechanical Engineering Department**		
	Master in Islamic Economics		
	Degree	**University**	**Year**
	Lecturerof Islamic Religious Education,	Universitas Negeri Surabaya-Indonesia	2019 - now
ACADEMIC CAREER	Bachelor of Economic Education,	Universitas Negeri Surabaya	2006-2010
	Master of Science in Islamic Economics,	Airlangga University	2011-2013
	Doctor of Sharia Economics,	UIN Sunan Ampel Surabaya	2016-present
EMPLOYMENT	**Position**	**Points**	**Year**
	Lecturer at Mechanical Engineering Department	Universitas Negeri Surabaya	2019- now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Syariah Implementation Values at Market Traders in Surabaya (BOPTN Faculty, 2016, as Member)		
	2. Evaluation Empowerment Model Poor through Zakat Management Institutions in Surabaya, (BOPTN, 2017, as Member)		
	3. Small and Medium Industry Empowerment Model (IKM) Food Products Through Halal Certification in East Java (DRPM DIKTI, 2017, as Member)		
	4. Small and Medium Industry Empowerment Model (IKM)) Food Products Through Certification Halal in East Java (DRPM DIKTI, 2018, As Member)		
	5. The Effect of the Implementation of Islamic Work Ethics on Muzakki's Loyalty at the Zakat Institution in Surabaya (BOPTN Fakultas, 2018, As Member)		
	6. The Role of Hisbah in the Implementation of Business Ethics in the Wonokromo Traditional Market in Surabaya (BOPTN, Faculty, 2019, As a		

	Member)
	7. Development of a Startup Model as an Effort to Increase the Competitiveness of College Graduates of the Ex-Educational Personnel Education Institute (LPTK) at the State University of Surabaya (BOPTN Universitas, 2019, As a Member)
	8. Strategies for Resilient MSMEs in the *Work From Home* Period (BOPTN Universitas, 2020 , As a Member)
	9. Identification of the Social Field Research Roadmap (BOPTN University, 2020, as a Member)
	10. Factors Affecting Donation Behavior during the Covid-19 Pandemic (BOPTN, 2020, As Member)
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Financial Management Training for Mustahiq Productive Zakat in Surabaya (BOPTN Fakultas, 2015, As Member)
	2. Management Training n Finance for Mosque Takmir in Surabaya (BOPTN Faculty's, 2016, As Member)
	3. Dissemination of Sharia Values to Market Traders in Surabaya (BOPTN Fakultas, 2017, As Member)
	4. IbM Group of All-in-One Retail Small and Medium Industries, Lamongan Regency which is Almost Shifted by Retail Modern Through Management Information Systems (BOPTN Universitas, 2017, As Member)
	5. Visit Wonosalam: Strengthening the Potential of Village Tourism through Sharia-Based Marketing Strategies (BOPTN Faculties, 2018, As Member)
	6. PkM Post-Disaster Public Health Counseling (BOPTN Universitas, 2019, As Member)
	7. Increased Marketing Network for Islamic Boarding School Products Through Utilization of Information Technology (BOPTN University, 2019, As Member)
	8. Strengthening the Potential of Village Leading Products Through Digital-Based Sharia Marketing Strategies in Rombia Village, Sumenep Regency (BOPTN Fakultas, 2019, As Member)
	9. Strengthening Community Food Needs During the Covid Pandemic 19
	10. Halal Food Product Education (BOPTN, Faculty, 2020, As Chair)

PATENTS AND	**Title**	**ofYear**

PROPRIETARY RIGHT	1. TextbookBasic Principles of Islamic Economics	2018
	2. SIZISKU 1.0	2020
IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. Implementation of Muzara'ah Akad in Islamic Banks: Alternative Access to Capital in the Agricultural Sector (Islamic Economic Journal Iqtishoduna Vol. 6, No. 2. 2016 *As the first author*)	
	2. Islamic Law Perspective Insurance (Adzkiya Journal Vol. 4, No. 1 2016 *As the first author)*	
	3. The Determinant Factors of Motivation to Pay Zakat in Regional Amil Zakat Agency of East Java (KARSA: Journal of Social and Islamic Culture Accredited by Dikti Sinta 2 Vol. 25, No. 2. 2017 *As the first author)*	
	4. Increasing Entrepreneurial Motivation and Simple Financial Management for Productive Mustahiq Zakat (Panrita Abdi - Journal of Community Service Vol. 1, No.2. 2017 *As the second author)*	
	5. The Problems of Halal Certification for Food Industry in Indonesia (International Journal of Civil Engineering & Technology-Indexed Scopus Vol. 9, N0. 8. 2018 *As second author)*	
	6. The Evaluation of Mustahiq Empowerment-Based Poverty Alleviation Program at Amil-Zakat Organizations (International Journal of Business and Islamic Economics (IJIBEC) Vol 2, No.1.2018 *As the second author)*	
	7. Implications of Sharia Tourism on Increased Income and Community Welfare (Accredited Muslim Heritage Dikti Sinta 4 Vol. 3, No.1 2018 *As second author)*	
	8. The Effect of Service Marketing Mix on Decisions to Stay at Hotels Andita Syariah Surabaya (Iqtishoduna: Journal of Islamic Economics Accredited by Dikti Sinta 3 Vol. 7, No. 2. 2018 *As second author)*	
	9. Influence Service Quality Towards Customer Satisfaction Islamic Banking (Al-Tijary: Journal of Islamic Economics and Business Vol. 3, No. 2. 2018 *As the second author) The*	
	10. Relationship between Organizational Culture and Employee Performance in an Islamic Economic Perspective (Expectra: Journal of Business and Management Vol. 2, No.2. 2018 *As the second author)*	
	11. Visit Wonosalam: Strengthening the Potential of Village Tourism through Sharia-Based Marketing Strategies (J -Dinamika: Dikti Sinta Accredited Community Service Journal 4 Vol. 3, No. 2. 2018 *As second author)*	
	12. Islamic Work Ethics In Zakat Institution In Indonesia: How Does It	

	Affect Customer Loyalty? (International Journal of Civil Engineering & Technology-Indexed Scopus Vol. 10, No.2.2019 *As second author)*		
	13. The Effect of Religiosity, Demography, and Motivation on Student Sharing Behavior Patterns (Journal Intellectual Sufism Research (JISR) Vol. 2, No.1.2019 *As the fifth author)*		
	14. Nazhir's Perceptions in the Registration of Waqf Land (Muqtasid: Journal of Islamic Economics and Banking Accredited by Dikti Sinta 2 Vol. 10, No.2. 2019 *As second author)*		
	15. The Contribution of Ibnu Khaldun's Economic Thoughts (Kalimah: Journal of Religious Studies and Islamic Though Accredited by Dikti Sinta 3 Vol. 17,. 2019*As the first author)*		
	16. No.1Development of the SIZISKU 1.0 application to improve management optimization of the National Zakat Institution (ZISWAF: Dikti Sinta Accredited Journal of Zakat and Waqf 3 Vol. 6 , No. 2. 2019 *As the fourth author)*		
	17. Determinants of Factors Affecting Customer Disloyalty of Islamic Rural Banks (IQTISHADIA: Journal of Accredited Islamic Economics & Banking itasi Dikti Sinta 3 Vol. 6, No. 1. 2019 *As the second author)*		
	18. The Influence of Religiosity on Income and Prosperity: The Indonesian Context (Humanities & Social Sciences Reviews Indexed Scopus Vol. 8, No.2. 2020)		
	19. The Role of Al-Hisbah In Implementation of Business Ethics in Traditional Markets (Amwaluna: Journal of Sharia Economics and Finance Accredited by Dikti Sinta 2 Vol. 4, No. 2. 2020)		
	20. Optimizing the Utilization of ZISWAF Funds in the Education Sector at LAZ Infaq Management Institute (Al-Amwal: Journal of Sharia Economic Law Vol. 3, No. 1. 2020 *As second author)*		
	21. How Ramadan and Global Pandemic Affect Religiosity and Donating Behaviors (Shirkah: Journal of Economics and Business Vol. 5, No. 2. 2021)		
ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**
	1. of the East Java Sharia Economic Community,	Treasurer	2018- 2022
	2. Sharia Business Incubator Center, Indonesian Ulema Council, East Java in the	Field of Cooperatives and SMEs	2018-2023

Staff Handbook



Diastian Vinaya W., ST, MT

POSITION	**Lecturer at Mechanical Engineering Department**		
	Field of Mechanical Engineering		
	Degree	**University**	**Year**
	Lecturer at Mechanical Engineering Department	Universitas Negeri Surabaya-Indonesia	2015 - present
ACADEMIC CAREER	Bachelor of Mechanical Engineering,	Universitas Jember	2007 - 2011
	Master of Energy Conversion Engineering	Institut Teknologi Sepuluh Nopember (ITS) Surabaya	2011 - 2013
EMPLOYMENT	**Position**	**Place**	**of**
	HeadSub-Lab of Motor Gasoline	Mechanical Engineering at Universitas Negeri Surabaya -Indonesia	2016- 2018
	HeadSub-lab of Emgine Performance	Mechanical Engineering at Universitas Negeri Surabaya -Indonesia	2016- 2018
	Secretary of LSP	Mechanical Engineering at Universitas Negeri Surabaya -Indonesia	2019 - Now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Numerical study of flow characteristics across a single circular cylinder with a disturbance body in the form of a circular cylinder on narrow channel with square section (2013)		
	2. THE EFFECT OF BLADES OVERLAPES FOR SAVONIUS WIND TURBINE TYPE U PERFORMANCE (2011)		

	3. NUMERICAL STUDY OF FLOW CHARACTERISTICS CROSSING SINGLE CIRCULAR CYLINDERS WITH DISTURBANCE BODY ON NARROW CHANNEL (2013)
	4. THE IMPLEMENTATION OF A SEMI-AUTOMATIC MILK STIRRING MACHINE IN SMEs OF SOY MILK PRODUCERS (2018)
	5. Design of Trainer Friction Loss in a Piping System as a Learning Media in the Fluid Mechanics Laboratory at the Department of Mechanical Engineering Unesa (2019)
	6. Test the Effectiveness of Diesel Particulate Trap (Dpt) Based on Brass and Glasswo ol To Reduce opacity Exhaust Diesel Engine Multi-Cylinder (2019)
	7. APPLICATION DEVELOPMENT CERTIFICATION ONLINE FOR TESTING COMPETENCE OF STUDENTS UNESA (2019)
	8. Application of semi-automatic milk boiling and stirring machine for SMEs of soy milk producers (2017)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	-	-

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	
	1. Numerical study of passive control flow on cylinder by splitter plate in narrow channel (2017)
	2.
	3.

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**

Staff Handbook



Dr. Mochamad Cholik, M.Pd.

POSITION	**Lecturer at Mechanical Engineering Department**		
	Doctorate in Research and Evaluation Science Education		
	Degree	**University**	**Year**
	Lecturer at Mechanical Engineering Department	Universitas Negeri Surabaya-Indonesia	1990 - now
ACADEMIC CAREER	Bachelor of Mechanical Engineering Education,	IKIP Surabaya - Indonesia	1979 - 1984
	Master of Vocational Technology Education	IKIP Yogyakarta - Indonesia	1984 -1988
	Doctor of Research and Evaluation of Education	Universitas Negeri Jakarta	2004-2010
EMPLOYMENT	**Position**	**Place**	**Year**
	Lecturer at Mechanical Engineering	Universitas Negeri Surabya	1990 - now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Study of Tracking D3 Graduates Department of Mechanical Engineering - Faculty of Engineering - Unesa (2015)		
	2. Development of Teacher Education Model in Science and Technology in the Digital Age. IDB - Unesa (2016)		
	3. Development of 4C-Based Learning Evaluation for 21st Century Vocational Teacher Education. Post-Unesa (2018)		
	4. Application of Online Learning Using the "Whatsapp Group" Application Research Methodology Subject during the Covid-19 Pandemic. Faculty of Engineering, Unesa (2020)		
	5.		
	6.		

SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Item Analysis Training Using Axcel for Teachers of SMK Ketintang Surabaya (201)
	2. Training of Item Validity and Reliability Using Axcel for High School Teachers Hasyim As' Ary - Tebu Ireng - Jombang (2017)
	3. Training Validity and Reliability of Items Using Axcel for SAFFTA-Surabaya Middle School Teachers (2018)
	4. Program for Spraying Disinfectants in Residential Environments in the Context of Preventing Covid-19 Affected Communities in Surabaya. Faculty of Engineering, Unesa (2020)
	5. Automatic Electric Faucets with Motion Sensors on Hand Sanitizers to Improve Hand Hygiene during the Covid-19 Pandemic. PASCASARJANA COMPETITIVE Unesa (2020)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	1.	
	2.	
	3.	
	4.	
	5.	

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1.
	2.
	3.
	4.
	5.

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**

Staff Handbook



Tri Hartutuk Ningsih, S.T., M.T.

POSITION	**Lecturer of Mechanical Engineering Department**		
	Master of Engineering Design and Manufacture		
	Degree	**University**	**Year**
ACADEMIC CAREER	Bachelor of Material & Metallurgical Engineering	Institut Teknologi Sepuluh Nopember (ITS)	2003 - 2007
	Master of Mechanical Engineering	Institut Teknologi Sepuluh Nopember (ITS)	2010 – 2012
EMPLOYMENT	**Position**	**The place**	**Year**
	Lecturer of Mechanical Engineering Department	Universitas Negeri Surabaya	2014 - now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Optimize Machining Parameters With Turning Process in the Roughness And Surface Hardness of the ST 45 material use Taguchi and Fuzzy Logic Method (2016)		
	2. Optimize Holding Time Variable & Media dyeing to Surface Hardness on the Hardening Process Linear Gear Material use Taguchi Method (2016)		
	3. The Academic Performance of a Student Academic Achievement Non S1 Students Education Course of Mechanical Engineering Department UNESA (2017)		
	4. A Mechanical System Design Bending the Hydraulic Laboratory Scale Education (2017)		
	5. The Design of Water Channel Pipe And Chimneys in A Closet Acid In The Laboratory The Coating of Metal at Mechanical Engineering Department (2018)		

	6. Production Process Superheater Tube Yoshimin Boiler H-3500 Type CAP120 T/H (2018)
	7. The Modification Screw be Gantry Conveyor Belt on Coal Ship Unloading Against Frequency of Power Consumtion and Maintenance Cost (2019)
	8. Improvement of Economy Dregs Tofu The Use of a Machine Dryer Rotary Technology as To Make The Material Flour and Feed (2019)
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Training On Preparing Biobriket and Motor Vehicle Gas Emissions SMA Negeri 4 Madiun. (2014)
	2. The increase in basic skills instructional technique (Pekerti) and Applied Approach (AA). (2014)
	3. Training of Trainer Computer Numerically Controlled dan Maintenance & Repair (MR). (2015)
	4. Workshop of National CAD-CAM Competition National. (2015)
	5. Training and the process of making molds drilling metals in UD. Mandiri Lakarsantri Sby. (2015)
	6. Electric Power System in Java and Bali. (2015)
	7. Prepare Indonesian SDM in the face of the economic community ASEAN (MEE). (2015)
	8. The workshop for Lecturers young research proposals in UNESA. (2016)
	9. Improve The Quality of Production with an Ideal Laboratory Metrology. (2016)
	10. Laboratory Management System ISO 17025. (2016)
	11. Education and Training Prajabatan CPNS Golongan III. (2016)
	12. National Competency Training Assessors BNSP. (2017)
	13. Development Device Assessment. (2017)
	14. Work based training welding and casting for students SMK. (2017)
	15. Workshop High End Technology Into The Future. (2017)
	16. Training Improve The Quality Of Production With A Measuring Instrument Heavy. (2017)
	17. Training For Organizing A Guidebook Lab Work. (2017)
	18. Professional Job Opportunities in Era of Globalization (2017)
	19. Workshop Teaching The Book Bilingual. (2017)
	20. Training Heat Treatment of Metal on The Subjects of Automotive Technology for Students SMK Islam Al Amal Surabaya. (2018)
	21. Increased Economic Value Waste Dregs Tofu Using Rotary Drying Machine Technology to Create a Starchy Food And Fodder Village Tawangsari Sidoarjo District.(2018)
	22. Training in The Subject Solidwork Techniques Draw For Students SMKN 1 Bendo Magetan. (2019)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	-	-

IMPORTANT	1. Optimize Machine Parameters by the Process Lathe Machining in

PUBLICATIONS OVER THE LAST 5 YEARS	response Roughness and Surface hardness of S45-C Material use Taguchi-Grey-Fuzzy Method. 15 Juni 2016. Vol.1 No.1. Mechanical Engineering of Muhammadiyah University Sidoarjo. R.E.M. jurnal (Rekayasa Energi Manufaktur). ISSN : 2528-3723
	2. Improve Understanding the Concept of Function Uses Software Function Analyzer In Lecture Applied Mathematics. 11 Maret 2019. Vol.1 No.1. UNESA. University Open Journal System Universitas Negeri Surabaya. ISSN : 2656-5587
	3. Production Process Superheater Tube Yoshimin Boiler H-3500 Type CAP120 T/H. 2018. Vol.14.No.1. Mechanical Engineering Department of UNESA. Otopro. Journal of Mechanical Engineering and Applications. E-ISSN: 2685-76
	4. The Modification of The Screw a Conveyor Belt at Gantry Ship Unloading Coal Power Consumtion Against Frequency Interference And Maintenance Cost. 2019. Vol.14.No.2. Mechanical Engineering Department of UNESA. Otopro. Journal of Mechanical Engineering and Applications. E-ISSN: 2685-76
	5. Optimasi Volume Fraction Composite Kersen Fibers to Tensile Strength. September 2019. Vol.2. No.2 Mechanical Engineering , Universitas Muhammadiyah Sumatera Utara (UMSU). Jurnal Rekayasa Material, Manufaktur dan Energi. E-ISSN: 2622-7398

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**

Staff Handbook



Wahyu Dwi Kurniawan, S.Pd., M.Pd.

POSITION	**Lecturer**		
	Master of Technology and Vocational Education		
	Lecturer on Department of Mechanical Engineering	Universitas Negeri Surabaya - Indonesia	2014 - now
ACADEMIC CAREER	**Degree**	**University**	**Year**
	Bachelor of Mechanical Engineering Education	Universitas Negeri Surabaya - Indonesia	2002 - 2006
	Master of Technology and Vocational Education	Universitas Negeri Surabaya - Indonesia	2010 - 2013
EMPLOYMENT	**Position**	**Place**	**Year**
	Lecturer	Universitas Negeri Surabaya	2014 - now
	Editor of Jurnal Pendidikan Teknik Mesin	Department of Mechanical Engineering	2014 - now
	Head Sub of Mechatronics Laboratory	Department of Mechanical Engineering	2016-2019
	Editor of Journal of Vocational and Technical Education	Faculty of Engineering	2019 - now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Development of Pneumatic System Learning Media Based on Computer and Assisted Learning Industry Needs Oriented (2015 as Head)		
	2. Development of CNC II Teaching Module Oriented to Project Based Learning=PjBL (2015 as Member)		
	3. Development of the WEB as an Information Media and Promotion of the Undergraduate Program Mechanical Engineering Education Mechanical Engineering Department (2016 as Head)		
	4. Study of Improvement and Distribution of Input Areas of Mechanical		

	Engineering Diploma III Study Program, Department of Mechanical Engineering, Faculty of Engineering, Universitas Negeri Surabaya (2016 as Member)
	5. Tracer Study of Graduates of the S1 Mechanical Engineering Study Program FT-Unesa in the World of Work (2017 as Member)
	6. Development of Trainer and Relay Control Practicum Computer Assisted to Support Control System Learning (2017 as Head)
	7. Development of Designing Techniques Learning Media Integrated with Machine Elements and Machine Drawing Based on Contextual Learning (2017 as Member)
	8. Development of Prototype Vertical Axis Wind Turbine Hybrid Blade Low Wind Speed Household Scale Performance Based Model in Wind Tunnel (2017 as Member)
	9. Development of Designing Techniques Learning Media Integrated with Machine Elements and Machine Drawing Based on Contextual Learning (2018 as Member)
	10. Development of Sensor Practicum Based on Arduino with a Collaborative Teamwork Learning Model Approach (2018 as Head)
	11. Website Development as Information Media and Promotion of the Department of Mechanical Engineering Universitas Negeri Surabaya (2019 as Member)
SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. Science and Technology For the Community of Small and Medium Enterprises of Snacks and Assorted Sambal Packaging (2016 as Head)
	2. Training for Teachers of Machining Vocational Schools Based on CNC Technology (2016 as Member)
	3. Lathe Training Oriented on Work Ready Skills Oriented for Vocational School Students (2017 as Members)
	4. I_bPUD Group of Brem SMEs Madiun (2017 as Member)
	5. I_bPUD Group of Brem SMEs Madiun (2018 as Member)
	6. PKM Group of Coffee SMEs, Jambangan Village, Jambangan District, Surabaya City, East Java (2018 as Head)
	7. PKM of Coffee SME Group, Jambangan Village, Jambangan District, Surabaya Municipality, East Java (2018 as Head)
	8. Milling Machine Training to Improve Competence for Vocational School Students (2018 as Member)
	9. Energy Saving Semi-Automatic Frying nd Spinner Machines To Increase The Productivity And Effectiveness Of Tempe Chips Entrepreneurs (2019 as Member)
	10. PKM of Hybrid System Semi Automatic Brem Drying Machine for SMEs Producing Brem Kaliabu Mejayan Madiun (2019 as Member)
	11. Training of Programmable Logic Controller (PLC) for Students of SMKN 1 Bendo Magetan (2019 as Head)
PATENTS AND PROPRIETARY	**Title** / **Year**
	1. Rancang Bangun Mesin Pencetak Lemper Semi — 2017

RIGHT	Otomatis (Registered)	
	2. Pengolahan Limbah Pada Pembuatan Ikan Asap Tungku Pengasap Ikan Dilengkapi Kondensor Pengolah Asap Cair. (Registered)	2017
	3. Proses Pembuatan Mesin Pengupas Serbaguna Dengan Menggunakan Teknologi AUTO WAW "Automatic Water Washer" (Registered)	2017
	4. Mesin Pengolah dan Pengemas Susu Kedelai Untuk Usaha Susu Kedelai (Registered)	2017
	5. Mesin Penyangrai Serbaguna Semi Otomatis dengan Teknologi "Oil Jacket" Dilengkapi ETC (Electronic Temperatur Control) (Registered)	2019
IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. **Wahyu Dwi Kurniawan**, Sapto Wibowo. Penerapan Mesin Penggoreng Semi Otomatis Untuk Meningkatkan Efektivitas Dan Efisiensi Proses Penggorengan Sambal. Prosiding Seminar Nasional PPM Unesa 2016 in Surabaya.	
	2. **Wahyu Dwi Kurniawan**, Agung Prijo Budijono. Developing Computer Assisted Media of Pneumatic System Learning Oriented to Industrial Demands. Jurnal Pendidikan Teknologi dan Kejuruan, Volume 23 Nomor 3 Tahun 2017.	
	3. Agung Prijo Budijono, **Wahyu Dwi Kurniawan.** Efisiensi Proses Produksi Batik Melalui Penerapan Mesin Pengering Batik Dan Kompor Pemanas Lilin Batik Semi Otomatis. Jurnal Otopro, Volume 13 Nomor 1 Tahun 2017.	
	4. **Wahyu Dwi Kurniawan**, Periyanto. Proses Sandblasting dan Coating Pada Kapal di PT. Dok Perkapalan Surabaya. Jurnal Otopro, Volume 13 Nomor 2 Tahun 2018.	
	5. Agung Prijo Budijono, Djoko Suwito, **Wahyu Dwi Kurniawan**. Penerapan Mesin Pengaduk Pakan Ternak Untuk Meningkatkan Efektivitas dan Efisiensi Proses Pengadukan Pakan Ternak. Jurnal Otopro, Volume 14 Nomor 1 Tahun 2018.	
	6. **Wahyu Dwi Kurniawan**, Agung Prijo Budijono. Implementation of Project Based Learning Model to Increase Students' Competence in Machining Work. Prosiding Internasional Terindeks Thomson. International Conference Asosiasi Pendidikan Teknologi dan Kejuruan Indonesia (APTEKINDO) 2018.	
	7. Agung Prijo Budijono, **Wahyu Dwi Kurniawan.** Implementation of Pneumatic Module Based on Interactive Computer Learning. Prosiding Internasional Terindeks Thomson. International Conference Asosiasi Pendidikan Teknologi dan Kejuruan Indonesia (APTEKINDO) 2018.	
	8. **Wahyu Dwi Kurniawan**, Any Sutiadiningsih. Penerapan Mesin Penyangrai Kopi Semi Otomatis Untuk Meningkatkan Kualitas Produksi Pada UKM Kedai Kopi. Prosiding Seminar Nasional PPM Unesa 2018 di Surabaya.	
	9. Any Sutiadiningsih, **Wahyu Dwi Kurniawan**. Efektivitas Proses Produksi Brem Melalui Penerapan Mesin Pengepres Brem Pada UKM Brem Madiun. Prosiding Seminar Nasional PPM Unesa 2018	

	di Surabaya.
	10. Agung Prijo Budijono, **Wahyu Dwi Kurniawan**, Arda Widyatama. Development of Technical Drawing Module Based On Projection and Sectional Views Equipped with Lego Block Assembly Media Assistance. Proceeding of World Conference 2019
	11. **Wahyu Dwi Kurniawan**, Sinta Putri Anisa, Zulfa Ludfi Diana Sari, Soeryanto. The Application of A Semi-Automatic Mixer Machine Equipped With An Oil Jacket For Petis Entrepreneurs. 2nd World Conference on Management Business, Accounting, Sustainibility Development, Engineering, Computer & Applied Science 2019
	12. Diastian Vinaya Wijanarko, **Wahyu Dwi Kurniawan**, Prima Vidya Asteria. A Design Semi Automatic Brem Drying Machine for Brem Entrepreneurs. Proceeding International Conference on Research and Academic Community Services (ICRACOS) 2019
	13. **Wahyu Dwi Kurniawan**, Muhamad Arif Irfai, Agung Prijo Budijono Validation of Sensor Practicum Guide Based on Arduino with Collaborative Teamwork Learning Model. Proceeding International Conference on Research and Academic Community Services (ICRACOS) 2019

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**

Staff Handbook



Dr. Warju, S.Pd., S.T. M.T.

POSITION	**Lecturer**		
	Technology Education and Vocational		
	Degree	**University**	**Year**
	Doctor	Universitas Negeri Yogyakarta (UNY)-Indonesia	2018
ACADEMIC CAREER	Bachelor of Mechanical Engineering (Automotive) Education	Universitas Negeri Surabaya (UNESA)	1999 - 2003
	Bachelor of Mechanical Engineering	Institut Teknologi Pembangunan Surabaya (ITPS)	2000 - 2003
	Magister of Mechanical Engineering	Institut Teknologi Sepuluh Nopember (ITS) Surabaya	2004 - 2007
	Doctor of Technology Education and Vocational	Universitas Negeri Yogyakarta (UNY)	2015 - 2018
EMPLOYMENT	**Position**	**Place**	**Year**
	Lecturer	Department of Mechanical Engineering, Faculty of Engineering Universitas Negeri Surabaya-Indonesia	2006 - now
	Head Sub of Engine Perform	Department of Mechanical Engineering, Faculty of Engineering Universitas Negeri Surabaya-Indonesia	2008 - 2012
	Head Sub of Engine Perform	Department of Mechanical Engineering, Faculty of Engineering	2013 - 2015

		Universitas Negeri Surabaya-Indonesia	
	Head Sub of Engine Perform	Department of Mechanical Engineering, Faculty of Engineering Universitas Negeri Surabaya-Indonesia	2019 - now
	Secretary of the center for research and innovation LPPM Unesa	LPPM Universitas Negeri Surabaya-Indonesia	2019 - now

RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Design of diesel particulate trap based on transition metal and glass wool to reduce smoke density (opacity) of exhaust gas form multi-cylinder diesel engines (Penelitian Hibah Bersaing, 2014, as a Leader)
	2. Eco-friendly motorcycle exhaust products with metallic catalytic converter technology (Technology-based startup company candidate program/CPPBT, 2017, as a Leader)
	3. Development of eco-friendly motorcycle exhaust with metallic catalytic converter titanium dioxide (TiO_2) as industrial prototype to support blue sky program and SDGs (Industrial Prototype Development Research, 2019, as a Leader)
	4. Development of a Database for research and community service for lecturers at Universitas Negeri Surabaya (University Strategic Policy Research, 2019, as a Leader)
	5. Survey of Teacher Profiles, Culture and School work achievement at Senior High School (Collaboration Research, as a team)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	1. Knalpot Sepeda Motor Ramah Lingkungan (Patent number.: IDP000053363 September 12th 2018)	2018
	2. Knalpot Sepeda Motor Ramah Lingkungan Tipe *Sport* Berteknologi *Metallic Catalytic Converter* Kuningan Berlapis Nikel (Patent Request number: P00201708760 Desember 6th 2017)	2017
	3. Knalpot Sepeda Motor Ramah Lingkungan Tipe *Matic* Berteknologi *Metallic Catalytic Converter* Tembaga (Patent Request number : P00201708761 Desember 6th 2017)	2017
	4. Penjebak Partikulat Diesel Dengan Bentuk Sarang Lebah Logam (*Metallic Honeycomb Diesel Particulate Trap*) (Patent Request number : P00201709461 Desember 21st 2017)	2017
	5. MCC *Metallic Catalytic Converter* (Brand request number: D002017064428 Tanggal: 6 Desember 2017)	2017

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. Evaluating the Implementation of Green School (Adiwiyata) Program: Evidence from Indonesia, *International Journal of Environmental & Science Education* (IJESE), E-ISSN 1483-1501/Agustus Vol. 12, No. 6, p. 1483-1501 (2017)
	2. Educational Program Evaluation using CIPP Model, *Innovation of Vocational Technology Education* (INVOTEC) invotec XII:1 (016) p. 36-42 (2016)
	3. Pengaruh *Metallic Catalytic Converter* Tembaga Berlapis Krom dan *Air Induction System* (AIS) Terhadap Reduksi Emisi Gas Buang Yamaha New Jupiter MX, *Jurnal Pendidikan Teknik Mesin* (JPTM), 3(2): 104-113 (2015)
	4. Rancang Bangun Trainer Sistem PGM-FI Honda Beat FI Sebagai Media Pembelajaran Praktek Sepeda Motor dan Motor Kecil, *Jurnal Rekayasa Mesin* (JRM), 2(2): 31-35 (2015)
	5. Pengujian Trainer Sistem PGM-FI Honda Beat FI Sebagai Media Pembelajaran Praktik Sepeda Motor dan Motor Kecil, *Jurnal Rekayasa Mesin* (JRM), 2(2): 21-30 (2015)
	6. Unjuk Kemampuan *Diesel Particulate Trap* Berbahan Tembaga dan *Glasswool* Terhadap Reduksi Opasitas Gas Buang, *Jurnal Otopro*, ISSN 1858-411X/ Mei Vol. 11 No. 2 p. 187-195 (2016)
	7. Unjuk Kemampuan *Straight Through Muffler* Dengan *Catalytic Converter* Tembaga Berlapis Mangan Terhadap Tingkat Kebisingan Sepeda Motor Empat Langkah, *Jurnal Rekayasa*, 5(2): 173-183 (2016)
	8. Uji Efektivitas *Diesel Particulate Trap* (DPT) Berbahan Dasar Kuningan dan *Glasswool* Terhadap Reduksi Opasitas Gas Buang Mesin Diesel Multi Silinder, *Jurnal Otopro*, 13(1): 35-43 (2019
	9. Pengembangan Modul *Smoke Opacity Meter Tecnomotor* Tipe G-820 Untuk Menunjang Mata Kuliah Analisa Performa Mesin Pada Mahasiswa S1 Pendidikan Teknik Mesin FT Unesa, *Jurnal Pendidikan Teknik Mesin* (JPTM), 8(2): 111-122 (2019)
	10. Pengembangan Modul Pembelajaran Mata Pelajaran Pekerjaan Dasar Teknik Otomotif Kompetensi Dasar Alat Ukur Elektronik Kelas X di SMKN 1 Madiun, *Jurnal Pendidikan Teknik Mesin* (JPTM), 8(2): 159-165 (2019)
	11. Efektivitas *Muffler* Tipe *Resonant, Three Pass Tube* dan *Off-Set Tube* Terhadap Reduksi Konsumsi Bahan Bakar Pada Mesin Bensin Multi Silinder, *Jurnal Pendidikan Teknik Mesin* (JPTM), 9(1): 128-133 (2019)
	12. Kemampuan *Muffler* Tipe *Baffle* dan *Louvre* Terhadap Reduksi Kebisingan Pada Mesin Toyota Kijang Tipe 5K, *Jurnal Pendidikan Teknik Mesin* (JPTM), 9(1): 111-118 (2019)
	13. Pengaruh Variasi Ukuran *Wiremesh Stainless Steel* Pada *Diesel Particulate Trap* Terhadap Opasitas Gas Buang Mesin Isuzu Panther Tahun 2005, *Jurnal Teknik Mesin* (JTM), 7(3): 85-91 (2019)
	14. Pengaruh Variasi Bentuk *Exhaust Manifold* Pada *Diesel Particulate Trap* Berbahan Dasar Kuningan dan *Wire Mesh Stainless Steel* Terhadap Performa Mesin Diesel 4 Langkah, *Jurnal Teknik Mesin* (JTM), 7(3): 65-72 (2019)

	15. The Evaluation of The Implementation of The Adiwiyata Program (Green School Program) in SMK Semen Gresik, *Proceeding of 1st International Conference on Vocational Education and Electrical Engineering* (ICVEE), November 18th 2015 at UNESA
	16. The Performance of Copper Metallic Catalytic Converter as Catalyst to Reduce Exhaust Emission From Yamaha Vega Motorcycle, *Proceeding of Joint International Seminar on Green Religion, Science and Technology: Prospect and Challenge for Sustainable Life*, November 19-20th 2015 at Hotel Pandanaran Semarang
	17. Developing Integrated Curriculum with Environmental Education at Vocational High School, *Proceeding of International Conference on Indonesian Technical Vocational Education and Association* (APTEKINDO), July 11-14th 2018 at Rich Palace Hotel Surabaya
	18. The Effect of Titanium Dioxide Catalytic Converter to Reduce Exhaust Gas Emissions from Four-Stroke Motorcycle Engine, *Proceeding of International Conference on Research and Academic Community Services* (ICRACOS), September 7th 2019 at Golden Tulip Hotel Surabaya

ACTIVITIES IN SPECIALIST BODIES	**Organization**	**Position**	**Period**
	Automotive Care Association (OTOPoint)	Member	2004 - 2008
	Automotive Care Association (OTOPoint)	Head of Organizational Affairs	2008 - 2012
	Automotive Care Association (OTOPoint)	Head of Organizational Affairs	2012 - 2016

Staff Handbook



Dr. Yunus, M.Pd.

POSITION	**Mechanical Engineering Lecturer**		
	Degree	**University**	**Year**
ACADEMIC CAREER	Bachelor of Construction Mechanical Engineering Education	Institut Keguruan dan Ilmu Pendidikan (IKIP) Negeri Surabaya	1991
	Master in Technical and Vocational Education	Universitas Negeri Yogyakarta (UNY)	2000
	Doctor of Technical and Vocational Education	Universitas Negeri Yogyakarta (UNY)	2018
EMPLOYMENT	**Position**	**Place**	**Year**
	Coordinator of the Laboratory of Mechanical Engineering Department	Universitas Negeri Surabaya	2004- 2008
	Sub-Coordinator of Metal and Casting Laboratory	Universitas Negeri Surabaya	2019 - Now
	Secretary of the Engineering Faculty Development Unit	Universitas Negeri Surabaya- Indonesia	2019 - Now
RESEARCH AND DEVELOPMENT PROJECT OVER THE LAST 5 YEARS	1. Development of Learning Tools for Designing Techniques Integrated with Machine Elements and Drawing Machine Based on Contextual Learning (2018, 2nd year)		
	2. Development of Learning Tools for Designing Techniques Integrated with Machine Elements and Drawing Machine Based on Contextual Learning (2017, 1st year)		
	3. Design of an Efficient and Economical Shielded Metal Arc Welding (SMAW) (2018)		
	4. Development of an Effective Machining Technique Learning Model in Vocational High School (2016)		

	5. Implementation of a Syllabus Review for the Undergraduate Program of Mechanical Engineering Education, Department of Mechanical Engineering, Faculty of Engineering, Universitas Negeri Surabaya (2016)
	6. Design of Integrated Production Machines for Effective and Efficient Soybean Raw Materials Processing (2013)
	7. Development of Computer Assisted Welding Technique Learning Model (2013)

PATENTS AND PROPRIETARY RIGHT	**Title**	**Year**
	-	-

IMPORTANT PUBLICATIONS OVER THE LAST 5 YEARS	1. Designing and Fabrication of Integrated Soybean Machine (3 In 1 Process) to Optimize of Tempe Producers Productivity (ICRACOS, 2019, sebagai Ketua)
	2. The Effectiveness of the Brem Production Process Using the Brem Pressing Machine at UKM Brem Madiun (Vol 1 No 1 (2018): Prosiding Semnas PPM 2018)
	3. Development of Teaching Technique Module Designing Sub-Subjects Integrated Transmission with Machine Elements (Vol 1 No 1 (2018): Prosiding Semnas PPM 2018)
	4. Development of Learning Media for Effective Computer Assisted Machining Techniques in Vocational High School (2016), ISBN: 978-602-0951-13-3, Prosiding Semnas PPM-LPPM Universitas Negeri Surabaya

SOCIETY'S DEDICATION OVER THE LAST 5 YEARS	1. IbPUD UKM Brem in Madiun (Regional Product Development Program 2018, 2nd Year)
	2. IbPUD UKM Brem in Madiun (Regional Product Development Program, 2017, 1st Year)
	3. IbM to Development The Productivity Of The Tempe in Small Industry Entrepreneur Community (Community Partnership Program , 2017)
	4. Welding Training for Youth for Work Skill (Non Insidental Activities, 2016)
	5. IbM The Farmers Association "Sido Makmur" Tulungagung (Community Partnership Program ,2015)
	6. IbM Small Industry Group of Sponge Sandal in Sidoarjo (Community Partnership Program , 2015)
	7. IbM Small Business Group of Patisserie Equipment (Community Partnership Program , 2015)

ACTIVITIES IN SPECIALIST	**Organization**	**Position**	**Period**

BODIES			