



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET, DAN TEKNOLOGI

UNIVERSITAS JEMBER

Jalan Kalimantan 37 Kampus Tegalboto Kotak Pos 159 Jember 68121  
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Alamat Kantor : Gedung Program Studi Profesi Insinyur Fak. Teknik  
UNEJ

## PENDIDIKAN

- S.T., INSTITUT TEKNOLOGI SEPULUH NOPEMBER, INDONESIA, 1994
- Master of Engineering, Asian Institute of Technology, Thailand, 2000
- Dr., ASIAN INSTITUTE OF TECHNOLOGY, THAILAND, 2014
- Ir, Universitas Jember, Indonesia, 2018

## MATA KULIAH YANG DIAMPU

Tahun	Semester	Mata Kuliah	SKS	Program Studi
2024	Ganjil	Kode Etik dan Etika Profesi Insinyur	2	Profesi Insinyur
2024	Ganjil	Elemen Mesin 1	2	Teknik Mesin
2024	Ganjil	Ergonomi	2	Teknik Mesin
2024	Ganjil	Gambar Teknik	2	Teknik Mesin
2024	Ganjil	Matematika 3	2	Teknik Mesin
2024	Ganjil	Matematika 1	3	Teknik Mesin

## PENGALAMAN PENELITIAN

Tahun	Judul Penelitian	Status	Sumber Dana	Besarnya Dana
2023	Investigasi Numerik Dan Eksperimen Pengaruh Bentuk Camber Foil Dan Asymmetry Foil Terhadap Kinerja Turbin Arus Laut Tipe Darrieus	Anggota	Hibah Dosen Pemula	13.600.000



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2021	Pengembangan Biopellet Dari Kulit Kopi Dan Limbah Pertanian/perkebunan Lainnya Menggunakan Bioaktivator Dan Torefaksi Serta Aplikasinya Pada Kompor Rendah Emisi Berbasis Rotary Airflow Pressure	Anggota	Hibah Penelitian Percepatan Guru Besar (PGB)	67.500.000
2021	Study Of Mild Steel Surface Integrity On Surface Grinding With Nyamplung (calophyllum Inophyllum ) Oil Cooling Media	Ketua	Hibah Reworking Skripsi/Tesis	13.000.000
2019	Pengukuran Realtime Kondisi Hidrodinamika Terintegrasi Sebagai Upaya Peningkatan Kinerja Pelabuhan	Anggota	Hibah KeRis - DiMas	27.500.000
2017	Produksi Bio-pelet Dan Aplikasinya Pada Kompor Beremisi Rendah Sebagai Energi Terbarukan Berbasis Zero Waste Pada Sentra Produksi Kopi Rakyat	Anggota	Produk Terapan	75.000.000

## PENGALAMAN PENGABDIAN

Tahun	Judul Pengabdian	Status	Sumber Dana	Besarnya Dana
2024	Mekanisasi Pembuatan Kompos Untuk Mendukung Pertanian Organik Di Desa Kuwon, Kecamatan Karas, Kabupaten Magetan	Anggota	Program Dosen Mengabdi di Desa Asal	35.000.000
2023	Peningkatan Produksi Dan Mutu Ternak Dengan Pakan Fermentasi Yang Didukung Oleh Mesin Pencacah Pakan	Anggota	Hibah Pengabdian Desa Binaan	35.000.000
2023	Upaya Pengembangan Desa Panduan Menjadi Sentra Produk Kopi Unggulan Jember	Anggota	Hibah Pengabdian Desa Binaan	35.000.000
2022	Penerapan Teknologi Produksi Biopellet Dari Limbah Kulit Kopi Sebagai Sumber Energi Terbarukan Pada Sentra Produk Kopi Rakyat Di Desa Sukorejo Kecamatan Sumber Wringin Kabupaten Bondowoso	Anggota	Hibah Pengabdian Berbasis Penelitian	25.000.000
2020	Pengembangan Usaha Krupuk "rawis" Sebagai Usaha Membangkitkan Umkm Produk Ekspor	Ketua	DRPM - Program Kemitraan Masyarakat(PKM)	44.300.000

## LUARAN PENELITIAN DAN PENGABDIAN



## A. Jurnal Nasional

- Robertoes Koekoeh Koentjoro Wibowo, . 2024. DUAL-FUNCTIONCOFFEE SKIN PEELING MACHINE TO IMPROVE THE WELFARE OF SUMBERCANDIK COFFEE FARMERS JELBUK JEMBER. ABDI DOSEN. 8(1). <https://pkm.uika-bogor.ac.id/index.php/ABDIDOS/article/view/2266>
- Robertoes Koekoeh Koentjoro Wibowo, Ahmad Yasim, Hery Indria Dwi Puspita, Rudianto, . 2023. PENGARUH PENAMBAHAN SKEG TERHADAP OLAH GERAK DAN HAMBATAN KAPAL NELAYAN DI PELABUHAN PERIKANAN PUGER, JEMBER. Jurnal Teknologi Perikanan dan Kelautan. 14(2). <https://journal.ipb.ac.id/index.php/jtpk/article/view/45568>
- Rahma Rei Sakura, Agus Triono, Sumarji, Dedi Dwilaksana, Robertoes Koekoeh Koentjoro Wibowo, Hary Sutjahjono, Mochamad Asrofi, . 2023. PENGARUH LAJU TEMPERATUR SOLIDIFIKASI TERHADAP KRISTALINITAS NANO SENG OKSIDA DENGAN METODE SIMULASI MOLEKULAR DINAMIK. STATOR. 6(1). <https://jurnal.unej.ac.id/index.php/STATOR/index>
- Ahmad Yasim, Robertoes Koekoeh Koentjoro Wibowo, . 2021. Kajian Resistance dan Re-Propeller Matching Pada Kapal Perikanan Pasca Reparasi Lambung dan Penggantian Mesin (Studi Kasus KM. Nelayan 2017-572). Wave : Jurnal Ilmiah Teknologi Maritim. 15(01). <https://doi.org/10.29122/jurnalwave.v15i1.4724>
- Robertoes Koekoeh Koentjoro Wibowo, Ahmad Yasim, Kusnindar Prihutomo. 2021. KAJIAN SINKRONISASI MESIN UTAMA DAN PROPELLER PADA KAPAL PERIKANAN PASCA REPARASI (STUDI KASUS KM. NELAYAN 2017-572). Wave: Jurnal Ilmiah Teknologi Maritim . 15(1). <https://ejurnal.bppt.go.id/index.php/jurnalwave/article/view/4724>
- Robertoes Koekoeh Koentjoro Wibowo, Dwi Djumhariyanto, . 2017. Optimasi Produksi Tutup Botol 500 ml Pada Proses Injection Moulding Menggunakan Metode Response Surface. ROTOR (Jurnal Ilmiah Teknik Mesin). 10(1). <https://jurnal.unej.ac.id/index.php/RTR/index>

## B. Jurnal Internasional

- Robertoes Koekoeh Koentjoro Wibowo, Hari Arbiantara Basuki, Dwi Djumhariyanto, Gaguk Jatisukanto, Mochamad Edoward Ramadhan, Mahros Darsin, Moch. Agus Choirom, DANAR M. RAMADHAN. 2023. THE EFFECT OF 3D PRINTING FILAMENT EXTRUSION PROCESS PARAMETERS ON DIMENSIONAL ACCURACY AND STRENGTH USING PLA-BRASS FILAMENTS. Journal of Engineering Science and Technology (JESTEC)jestec. 18(Special Issue). [https://jestec.taylors.edu.my/Special%20Issue%20ICIST%202022\\_1.htm](https://jestec.taylors.edu.my/Special%20Issue%20ICIST%202022_1.htm)
- Robertoes Koekoeh Koentjoro Wibowo, Mahros Darsin, Bambang Sri Kaloko, Hari Arbiantara Basuki, Prof. Joko Triono, Abdul Rais. 2023. The Design of Appropriate Technology of an Egg Tray Machine. International Journal Of Engineering Research And Development. 19(1). <http://www.ijerd.com/current%20issue.html>
- Tasliman, Mukhammad Fauzi, Edy Supriyanto, Robertoes Koekoeh Koentjoro Wibowo, Soni Sisbudi Harsono, . 2022. Biomass Stove with Low Carbon Monoxide Emission Fueled by Solid



Fuel Coffee-Husk Biopellet. Sustainability . 12(18).  
<https://www.mdpi.com/journal/sustainability>

- Robertoes Koekoeh Koentjoro Wibowo, Irwan Ramadana, Ahmas Syaifuddin. 2022. REDESIGN AND MANUFACTURING OF CHOPPER FOR CATTLE FEED PREPARATION PRIOR TO FERMENTATION. Proceeding of th ASIA PACIFIC International Modern Sciences Congress. 11(2022). [https://en.iksadasia.org/\\_files/ugd/614b1f\\_0479fdd00053467589ef55462f4634fc.pdf](https://en.iksadasia.org/_files/ugd/614b1f_0479fdd00053467589ef55462f4634fc.pdf)
- Hari Arbiantara Basuki, Robertoes Koekoeh Koentjoro Wibowo, Mochamad Edoward Ramadhan, Gaguk Jatisukamto, Mahros Darsin, Dwi Djumhariyanto, Prof. Dr. Eng. Moch. Agus Choiron, S.T., M.T.. 2022. THE EFFECT OF 3D PRINTING FILAMENT EXTRUSION PROCESS PARAMETERS ON DIMENSIONAL ACCURACY AND STRENGTH USING PLA-BRASS FILAMENTS. Journal of Engineering Science and Technology (JESTEC). 18(1). <https://jestec.taylors.edu.my/>
- Robertoes Koekoeh Koentjoro Wibowo, Salahuddin Junus, , Ali Aqsho Hudzaifi . 2022. Effect of Disk Rotation Speed and Diameter of Grinding Ball with Planetary Ball Mill Method on the Characteristics of ZnO Nanoparticles. Gongcheng Kexue Yu Jishu/Advanced Engineering Science Journal. 54(-).
- Ahmad Yasim, Robertoes Koekoeh Koentjoro Wibowo, Dedi Dwilaksana, Hery Indria Dwi Puspita, Wazirotus Sakinah, R. Puranggo Ganjar Widityo, Rudianto, . 2022. Hydrodynamics Comparison of V-shaped and U-shaped Hulls of 5 GT Fishing Vessels Based on the Characteristics of Southern Java Waters. International Journal Of Engineering Research And Development. 18(3). <https://www.ijerd.com/paper/vol18-issue3/D18031624.pdf>
- Mahros Darsin, Robertoes Koekoeh Koentjoro Wibowo, Wahyu Nuri Wulandari. 2022. Study of Mild Steel Surface Integrity on Surface Grinding with Nyamplung (Calophyllum Inophyllum) Oil Cooling Media. Gongcheng Kexue Yu Jishu/Advanced Engineering Science. 54(Issue 01). <https://www.gkyj-aes-20963246.com/article/study-of-mild-steel-surface-integrity-on-surface-grinding-with-nyamplung-calophyllum-inophyllum-oil-cooling-media>
- Robertoes Koekoeh Koentjoro Wibowo, Salahuddin Junus, Fabrobi Ridha, Agung Budi Cahyono. 2021. The Effect of Production Parameters on DC Thermal Plasma Nanomaterial Synthesis. ARPN Journal of Engineering and Applied Sciences. 16(13). [http://www.arpnjournals.com/jeas/volume\\_13\\_2021.htm](http://www.arpnjournals.com/jeas/volume_13_2021.htm)
- Robertoes Koekoeh Koentjoro Wibowo, Soni Sisbudi Harsono, . 2021. Energy Balance and Green House Gas Emission on Smallholder Java Coffee Production at Slopes Ijen Raung Plateau of Indonesia . Journal of Ecological Engineering. 22(7). [jeeng.net](http://jeeng.net)
- Robertoes Koekoeh Koentjoro Wibowo, Edy Supriyanto, . 2021. Energy Balance and Green House Gas Emission on Smallholder Java Coffee Production at Slopes Ijen RAung Plateau of Indonesia. Journal of Ecological Engineering. 22(7). <https://doi.org/10.12911/22998993/138997>
- Salahuddin Junus, Robertoes Koekoeh Koentjoro Wibowo, Fabrobi Ridha, Agung Budi Cahyono. 2021. THE EFFECT OF PRODUCTION PARAMETERS ON DC THERMAL PLASMA NANOMATERIAL SYNTHESIS. ARPN Journal of Engineering and Applied Sciences. 16(13). [http://www.arpnjournals.com/jeas/volume\\_13\\_2021.htm](http://www.arpnjournals.com/jeas/volume_13_2021.htm)
- Agus Triono, Robertoes Koekoeh Koentjoro Wibowo, , . 2020. Analysis of Screwed Shaft



- Failure using the Process Simulation of Loaded Torsion. JEMMME (Journal of Energy, Mechanical, Material, and Manufacturing Engineering). 5(2).  
<http://ejournal.umm.ac.id/index.php/JEMMME>
- Robertoes Koekoeh Koentjoro Wibowo, Mahros Darsin, . 2020. Study on characteristics of calophyllum inophyllum oil as a new alternative cutting fluid. AIP Conference Proceedings. 978-0-7354-4008-1/\$30.0( 2278). <https://aip.scitation.org/toc/apc/2278/1?size=all>
  - R. Puranggo Ganjar Widityo, Robertoes Koekoeh Koentjoro Wibowo, Dedi Dwilaksana, Wazirotus Sakinah, Hery Indria Dwi Puspita, Rudianto, Ramli Firdaus Kusnadi, Immanuel Tito Samosir, Aisyah Divya Aproditha. 2019. Realtime Measurement Integrated Hydrodynamic Conditions for Improving Port Performance. International Journal of Scientific & Technology Research. 8(12).
  - Nasrul Ilminnafik, Robertoes Koekoeh Koentjoro Wibowo, Moh. Tarom, . 2019. EFFECTS OF AMBIENT PRESSURE IN A CONSTANT VOLUME SPRAY CHAMBER ON THE CHARACTERISTICS OF BIODIESEL . INTERNATIONAL JOURNAL OF CURRENT RESEARCH. 10(4). <https://www.journalcra.com/>
  - Muammar Kadhafi, R. Puranggo Ganjar Widityo, Dedi Dwilaksana, Robertoes Koekoeh Koentjoro Wibowo, Robertoes Koekoeh Koentjoro Wibowo, Dedi Dwilaksana, R. Puranggo Ganjar Widityo, Hery Indria Dwi Puspita, Muammar Kadhafi, Hery Indria Dwi Puspita, . 2019. Ergonomic Ship Chair Design for Indonesian People. International Journal of Innovative Research & Development. 8(1). [www.ijird.com](http://www.ijird.com)
  - Robertoes Koekoeh Koentjoro Wibowo, Dedi Dwilaksana, Muammar Khadafi. 2019. Ergonomic Ship Chair Design for Indonesian People . International Journal Of Innovative Research and Development. 8(1).  
[http://www.internationaljournalcorner.com/index.php/ijird\\_ojs/article/view/141720](http://www.internationaljournalcorner.com/index.php/ijird_ojs/article/view/141720)
  - Dedi Dwilaksana, R. Puranggo Ganjar Widityo, Hery Indria Dwi Puspita, Robertoes Koekoeh Koentjoro Wibowo, . 2019. Ergonomic Ship Chair Design for Indonesian People. International Journal Of Innovative Research and Development. 8(1).  
[http://internationaljournalcorner.com/index.php/ijird\\_ojs/article/view/141720](http://internationaljournalcorner.com/index.php/ijird_ojs/article/view/141720)
  - R. Puranggo Ganjar Widityo, Hery Indria Dwi Puspita, Robertoes Koekoeh Koentjoro Wibowo, Dedi Dwilaksana, . 2019. Ergonomic Ship Chair Design for Indonesian People . International Journal of Innovative Research and Development. 8(1).  
[http://www.internationaljournalcorner.com/index.php/ijird\\_ojs/article/view/141720](http://www.internationaljournalcorner.com/index.php/ijird_ojs/article/view/141720)
  - Robertoes Koekoeh Koentjoro Wibowo, Ahmad Syuhri, Siswoyo Soekarno, Dwi Devi Vayendra. 2018. Analysis and Design of Bus Chair for Economic Class Using Ergonomic Function Deployment (EFD) Method. International Journal of Advances in Scientific Research and Engineering. 4(10). <https://ijasre.net/index.php/Home/archiveissue?issueid=426>
  - Nasrul Ilminnafik, Robertoes Koekoeh Koentjoro Wibowo, . 2018. Effects of Ambient Pressure in a Constant Volume Spray Chamber on the Characteristics of Biodiesel-Mixed Sprays. International Journal of Current Research. 10(4).  
<http://www.journalcra.com/sites/default/files/issue-pdf/29756.pdf>
  - Robertoes Koekoeh Koentjoro Wibowo, Siswoyo Soekarno, . 2018. Anthropometry Of Indonesian Male And Its Use For The Design Of Train Passenger Seats.. International Journal



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<http://www.journalcra.com/article/anthropometry-indonesian-male-and-its-use-design-train-pasenger-seats>

- Robertoes Koekoeh Koentjoro Wibowo, Siswoyo Soekarno, . 2017. Analysis of Train Passenger Seat Using Ergonomic Function Deployment Method. World Academy of Science, Engineering and Technology, International Journal of Transport and Vehicle Engineering Vol. 11, No. 10, 2017. 11(10). <https://waset.org/Publications/Transport-and-Vehicle-Engineering>
- Robertoes Koekoeh Koentjoro Wibowo, . 2017. An Ergonomic Analysis of Indonesian Farmers in Using Agricultural Hand Tools in Relation to Their Comfort and Satisfaction. International Journal of Research in Agricultural Sciences. 4(2). <http://ijras.org/index.php/issue?view=publication&task=show&id=234>
- Robertoes Koekoeh Koentjoro Wibowo, Peeyush Soni. 2016. Farmer's Injuries, Discomfort and Its Use in Design of Agricultural Hand Tools: A Case Study from East Java, Indonesia. Agriculture and Agricultural Science Procedia. 9(2016). <https://reader.elsevier.com/reader/sd/pii/S2210784316301425?token=8BC7610C0B16C3D01F49F84B852051218E4D8ABD3A943D1F2ACE1C71A7DAA96A8B73400DA9084E19A08172985E0D0DD4>
- Robertoes Koekoeh Koentjoro Wibowo, . 2016. Farmers' Injuries, Discomfort and Its Use in Design of Agricultural Hand Tools: A Case Study From East Java, Indonesia. Agriculture and Agricultural Science Procedia. 9(-). <http://dx.doi.org/10.1016/j.aaspro.2016.02.142>

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### C. Prosiding Nasional

- Robertoes Koekoeh Koentjoro Wibowo, . 2016. ANTHROPOMETRI PEKERJA INDUSTRI DAN PERTANIAN DI BERBERAPA NEGARA TERTENTU : SEBUAH STUDI LITERATUR . .
- Robertoes Koekoeh Koentjoro Wibowo, . 2008. Pengaruh Inhibitor Asam Askorbat (Vitamin C) Terhadap Baja Karbon AISI 1045 Dan AISI 4140 Dalam Media Larutan HCl (Asam Klorida). Rekayasa Dan Inovasi Desain Melalui Kerjasama Riset Perguruan Tinggi dan Industri Untuk Terus Membangun dan Memajukan Bangsa.
- Robertoes Koekoeh Koentjoro Wibowo, . 2007. Pengaruh Perlakuan Panas Pada Baja Type AISI 304 Terhadap Kekerasan dan Laju Korosi Pada Media Asam Klorida (35%). Seminar Nasional Teori dan Aplikasi Teknologi Kelautan 2007 (SENTA 2007).

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### D. Prosiding International

- Hari Arbiantara Basuki, Dwi Djumhariyanto, Mahros Darsin, Muhammad Trifiananto, Triana Lindriati, Danang Yudistiro, Robertoes Koekoeh Koentjoro Wibowo, Rahma Rei Sakura, M Fahrur Rozy Hentihu, . 2024. Strength analysis of coffee huller machine blade using finite element method . THE 7TH INTERNATIONAL CONFERENCE OF COMBINATORICS, GRAPH THEORY, AND NETWORK TOPOLOGY 2023.



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- Mahros Darsin, Hari Arbiantara Basuki, Hary Sutjahjono, Robertoes Koekoeh Koentjoro Wibowo, Danang Yudistiro, Dwi Djumhariyanto, Dhika Rachmad Julyanda . 2024. Analysis of Extrusion Process Parameters in The Manufacture of Bioplastic Pellets on Water Resistance and Biodegradation Test. International Conference of Food, Agriculture and Natural Resource.
  - Robertoes Koekoeh Koentjoro Wibowo, Dwi Djumhariyanto, Mahros Darsin, Hari Arbiantara Basuki, Mochamad Asrofi, Moch. Agus Choiron, M. Khoirur Rifky. 2024. The effect of 3D printing parameter variations on tensile strength using filament made of PLA-Titanium. THE INTERNATIONAL CONFERENCE ON ADVANCED TECHNOLOGY AND MULTIDISCIPLINE (ICATAM2022).
  - Robertoes Koekoeh Koentjoro Wibowo, Hari Arbiantara Basuki, , Priyo Agung Wicaksono. 2021. Design of Ergonomic Chairs for Railroads Installation Workers. Proceeding of the International Conference on Climate Change and Sustainability Engineering in ASEAN (CCSE-ASEAN)2019.
  - Robertoes Koekoeh Koentjoro Wibowo, Hari Arbiantara Basuki, , Priyo Agung Wicaksono. 2021. Design of Ergonomic Chairs for Railroads Installation Workers. Proceeding of the International Conference on Climate Change and Sustainability Engineering in ASEAN (CCSE-ASEAN)2019.
  - Hari Arbiantara Basuki, Robertoes Koekoeh Koentjoro Wibowo, Priyo Agung Wicaksono. 2021. Design of Ergonomic Chairs for Railroads Installation Workers. Ergonomi.

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## **E. Naskah Akademik/*Legal Opinion*/Memorandum**

- Robertoes Koekoeh Koentjoro Wibowo, . 2017. Analisis Kursi Penumpang Kereta Api Kelas Ekonomi dan Kursi Kuliah Yang Egonomis. Jurusan Teknik Mesin Fakultas Teknik Universitas Jember