



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,
RISET, DAN TEKNOLOGI

UNIVERSITAS JEMBER

Jalan Kalimantan 37 Kampus Tegalboto Kotak Pos 159 Jember 68121
Telepon (0331)-330224, 334267, 337422, 333147 * Faximile (0331)-339029
Laman : www.unej.ac.id



Ir. Hari Arbiantara Basuki S.T., M.T.

Lektor

Bidang : Teknik Mesin, Manufaktur
Email : 196709241994121001@mail.unej.ac.id
Alamat : Gedung Program Studi Sarjana Terapan Rekayasa
Kantor : Perancangan Mekanik Fak. Teknik UNEJ

PENDIDIKAN

- S.T., Universitas Brawijaya, Indonesia, 1993
- M.T., INSTITUT TEKNOLOGI SEPULUH NOPEMBER, INDONESIA, 2001

MATA KULIAH YANG DIAMPU

Tahun	Semester	Mata Kuliah	SKS	Program Studi
2023	Ganjil	Praktikum CNC	1	Teknik Mesin
2023	Ganjil	Metodologi Penelitian	2	Sarjana Terapan Rekayasa Perancangan Mekanik
2023	Ganjil	Praktikum CNC	2	Sarjana Terapan Rekayasa Perancangan Mekanik
2023	Ganjil	Praktikum Perancangan Plastic Moulding	2	Sarjana Terapan Rekayasa Perancangan Mekanik
2023	Genap	Praktikum Perancangan 1	2	Sarjana Terapan Rekayasa Perancangan Mekanik
2023	Ganjil	CNC dan CAD-CAM	2	Teknik Mesin
2023	Genap	Capston Design	2	Teknik Mesin
2023	Genap	Pneumatik Hidrolik	2	Teknik Mesin
2023	Ganjil	Praktikum Gambar Teknik	3	Sarjana Terapan Rekayasa Perancangan Mekanik
2023	Genap	Praktikum Elemen Mesin 1	3	Sarjana Terapan Rekayasa Perancangan Mekanik



2023	Genap	Praktikum Gambar Mesin 1	3	Sarjana Terapan Rekayasa Perancangan Mekanik
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PENGALAMAN PENELITIAN

Tahun	Judul Penelitian	Status	Sumber Dana	Besarnya Dana
2014	Pengembangan Mesin Ekstrusi Untuk Pembuatan Plastik Biodegradabel	Ketua	Hibah Bersaing	50.000.000
2013	Rancang Bangun Motor Bldc (brushless Direct Current) Untuk Penguatan Komponen Lokal Mobil Listrik Universitas Jember	Anggota	Unggulan Perguruan Tinggi	220.000.000
2013	Rancang Bangun Kendali Digital Motor Bldc Untuk Mobil Listrik Universitas Jember	Ketua	Hibah Bersaing	150.000.000

PENGALAMAN PENGABDIAN

Tahun	Judul Pengabdian	Status	Sumber Dana	Besarnya Dana
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 Panduman Menjadi Sentra Produk Kopi Unggulan Jember	Anggota	Hibah Pengabdian Desa Binaan	35.000.000
2017	Mesin Jukung Nelayan "bali Jaya" Yang Terawat Sebagai Kemandirian Rakyat	Anggota	Mandiri	2.000.000

LUARAN PENELITIAN DAN PENGABDIAN

A. Jurnal Nasional

- Hari Arbiantara Basuki, . 2024. DUAL-FUNCTION COFFEE 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>
- Gaguk Jatisukanto, Mahros Darsin, Hary Sutjahjono, Hari Arbiantara Basuki, Moh Riski Efendi. 2024. Kuat Bending Hasil Cetak 3D printing Berbahan PLA-Kuningan Bending Strength of 3D printing PLA-Brass Printing . J-Proteksion. 8(2). <http://ejurnal.unmuhjember.ac.id/index.php/J-Proteksion/article/view/1540>
- Hari Arbiantara Basuki, Franciscus Xaverius Kristianta, M Fahrur Rozy Hentihu, Ahmad Adib



- Rosyadi, . 2023. PENGARUH PARAMETER WIRE CUT EDM TERHADAP LAJU PEMBUANGAN MATERIAL DAN KEAUSAN KAWAT. STATOR. 6(1).
<https://jurnal.unej.ac.id/index.php/STATOR/article/view/40341>
- Hari Arbiantara Basuki, Dedi Dwilaksana, Muhammad Trifiananto, Intan Hardiatama, Muh. Nurkoyim Kustanto, . 2023. Effect Of Layer Height, Infill Geometry, Nozzle Temperature, and Fan Speed On Tensile Strength Of 3D Printing PETG Specimens. INVOTEK: Jurnal Inovasi Vokasional dan Teknologi. 22(3). <http://invotek.ppj.unp.ac.id/index.php/invotek/issue/view/15>
 - Hari Arbiantara Basuki, Intan Hardiatama, Robertus Sidartawan, Franciscus Xaverius Kristianta, Norman Audi Erlangga Pradipta Yudah. 2022. Analisis Perawatan Cutter Section Dredger Dengan Metode FMEA dan OEE. MEKANOVA. 8(1).
<http://jurnal.utu.ac.id/jmekanova/article/view/5454>
 - Hari Arbiantara Basuki, Mochamad Edoward Ramadhan, . 2020. Analisis Struktural Rangka Capsule Survival Tsunami Menggunakan Aircraft Grade Aluminium 6061. JMEMME (Journal of Mechanical Engineering, Manufactures, Materials and Energy). 4(1).
<https://ojs.uma.ac.id/index.php/jmemme/issue/view/385>
 - Franciscus Xaverius Kristianta, Hari Arbiantara Basuki, Muttaqin Mar'iy Muslih. 2015. Pengaruh Tekanan Udara (Inflation Pressure) pada Ban Tipe Radial Ply terhadap Rolling Resistance. ROTOR (Jurnal Ilmiah Teknik Mesin). 8(2). .
 - Hari Arbiantara Basuki, Ahmad Adib Rosyadi, . 2015. Pengaruh Suhu dan Waktu Terhadap Kekuatan Tarik dengan Pengujian Termal Mekanis Pada Belt Conveyor 2 Ply. rotor. 8(2).
<https://jurnal.unej.ac.id/index.php/RTR/issue/view/336>
 - Hari Arbiantara Basuki, Triana Lindriati, . 2011. Pengembangan Proses Compression Molding dalam Pembuatan Edible Film dari Tepung Koro Pedang (*Canavalia ensiformis* L.) [Development of Compression Molding Process for Edible Films Production from *Canavalia ensiformis* (L.) Flour]. Jurnal Teknologi dan Industri Pangan. 22(1).

B. Jurnal Internasional

- Hari Arbiantara Basuki, Dwi Djumhariyanto, Robertoes Koekoeh Koentjoro Wibowo, Mochamad Edoward Ramadhan, Gaguk Jatisukanto, 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
- Bambang Sri Kaloko, Robertoes Koekoeh Koentjoro Wibowo, Hari Arbiantara Basuki, Mahros Darsin, 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>
- Hari Arbiantara Basuki, 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.



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- Dwi Djumhariyanto, Hari Arbiantara Basuki, Mochamad Edoward Ramadhan, Gaguk Jatisukanto, Mahros Darsin, Robertoes Koekoeh Koentjoro Wibowo, 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/>
- Dedi Dwilaksana, Mahros Darsin, Dwi Djumhariyanto, Ahmad Syuhri, Hari Arbiantara Basuki, Yuni Hermawan, Mochamad Asrofi, Rika Dwi Hidayatul Qoryah, Robertus Sidartawan, Nofa Kirana Pratama. 2022. Study of Chip Formation in Turning of AISI 4340 under Minimum Quantity Lubrication (MQL). *Gongcheng Kexue Yu Jishu/Advanced Engineering Science*. 54(2). <http://www.gkyj-aes-20963246.com/article/study-of-chip-formation-in-turning-of-aisi-4340-under-minimum-quantity-lubrication-mql>
- Hari Arbiantara Basuki, Yuni Hermawan, Mahros Darsin, Rika Dwi Hidayatul Qoryah, Salahuddin Junus, . 2022. Optimizing the Surface Roughness AISI 4340 Steel on Turning Process under Minimum Quantity Lubrication (MQL). *Materials Science Forum*. 1057(0). <https://www.scientific.net/MSF.1057.167>
- Salahuddin Junus, Mahros Darsin, Rika Dwi Hidayatul Qoryah, Hari Arbiantara Basuki, Yuni Hermawan, . 2022. Optimizing the Surface Roughness AISI 4340 Steel on Turning Process under Minimum Quantity Lubrication (MQL). *Materials Science Forum*. 1057(-). <https://www.scientific.net/MSF.1057.167>
- Hari Arbiantara Basuki, Herlina, Triana Lindriati, Mochamad Asrofi, . 2020. Optimization of Meat Analog Production from Concentrated Soy Protein and Yam (*Xanthosoma sagittifolium*) Powder using Pasta Machine. *Food Research*. 4(3).
- Mochamad Asrofi, Hari Arbiantara Basuki, Sumarji, MOCHAMAD GERINDO DWI AQSHO. 2020. Tensile Properties and Fracture Morphology of Polyethylene Terephthalate Mixed Rice Starch Particle Based Blend Composites. *Material Science Research India*. 17(1). www.materialsciencejournal.org
- Hari Arbiantara Basuki, Muammar Khadafi. 2019. Mitigasi Kecelakaan Kapal di Pelawangan Pantai Pancer Kecamatan Puger Kabupaten Jember. *Warta Pengabdian*. 13(1). <https://jurnal.unej.ac.id/index.php/W RTP/article/view/9461>
- Hari Arbiantara Basuki, Skriptyan Noor Hidayatullah Syuhri, Ahmad Syuhri, . 2016. Kinematics Analysis of a Leg Mechanism as a Motion Converter,. *International Review of Mechanical Engineering (IREME)*. 10(6). [DOI : 10.15866.v10i6.10011](https://doi.org/10.15866.v10i6.10011)

C. Prosiding Nasional

- Hari Arbiantara Basuki, Diah Ayu Retnani Wulandari, Mochamad Edoward Ramadhan, . 2018. Automatization Roaster Hopper Coffee. *Peran Ilmu Teknik Mesin yang Berorientasi Global dalam Mendukung Pembangunan Nasional Berkelanjutan*.



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- Diah Ayu Retnani Wulandari, Mochamad Edoward Ramadhan, Hari Arbiantara Basuki, . 2018. Automatization roaster hopper coffee. .
 - Triana Lindriati, Hari Arbiantara Basuki, . 2018. Analisa Tegangan Geser Pada Proses Pengadukan Bahan Plastik Biodegradabel Menggunakan CFD. Perkembangan Teknologi Sistem Otomasi dan Telekomunikasi dalam Menunjang Pembangunan Energi Baru.
 - Hari Arbiantara Basuki, . 2017. Pengujian Dan Pengendalian Putaran Screw Pada Mesin Screw Ekstruder. .
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D. Prosiding International

- Mochamad Asrofi, Mahros Darsin, Dwi Djumhariyanto, Robertoes Koekoeh Koentjoro Wibowo, Hari Arbiantara Basuki, 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).
- Rika Dwi Hidayatul Qoryah, Salahuddin Junus, Mahros Darsin, Hari Arbiantara Basuki, Yuni Hermawan, Mochamad Bayu Ramadhani. 2022. Optimizing the Surface Roughness AISI 4340 Steel on Turning Process under Minimum Quantity Lubrication (MQL). .
- Yuni Hermawan, Hari Arbiantara Basuki, Mahros Darsin, Rika Dwi Hidayatul Qoryah, Salahuddin Junus, . 2022. Optimizing the Surface Roughness AISI 4340 Steel on Turning Process under Minimum Quantity Lubrication (MQL). Engineering, Science and Technology.
- 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. 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. Ergonomi.
- Robertus Sidartawan, Ahmad Syuhri, Hari Arbiantara Basuki, Yuni Hermawan, Rika Dwi Hidayatul Qoryah, Intan Hardiatama, Danang Yudistiro, Mahros Darsin, Dwi Djumhariyanto, Maulana Muhammad Firdaus. 2021. Progression in Designing and Fabrication of Minimum Quantity Lubrication (MQL) System with an Arduino based Controller. Engineering.
- Hari Arbiantara Basuki, Triana Lindriati, . 2018. Effect of Xanthosoma Sagittifolium Powder, Water and Mixing Time on Texturized Vegetable Protein Properties. Proceeding of the International Conference on Food, Agricultural and Natural Resources (FANRes 2018).



E. Naskah Akademik/*Legal Opinion*/Memorandum

- Dwi Djumhariyanto, Yuni Hermawan, Intan Hardiatama, Ahmad Syuhri, Hari Arbiantara Basuki, Rika Dwi Hidayatul Qoryah, Robertus Sidartawan, Danang Yudistiro, Mahros Darsin, Maulana Muhammad Firdaus. 2020. Progression in Designing and Fabrication of Minimum Quantity Lubrication (MQL) System with an Arduino based Controller. Fakultas Teknik, Universitas Muhammadiyah Surakarta
- Ahmad Adib Rosyadi, Mochamad Edoward Ramadhan, Aris Zainul Muttaqin, Hari Arbiantara Basuki, Ahmad Mahrus. 2017. Pengaruh Diameter Annulus Konsentris Pada HCS (Hydrocarbon Crack System) Terhadap Torsi Motor Bensin Berbahan Bakar Bioetanol. Jurusan Teknik Mesin FT UNEJ