



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,
RISET, DAN TEKNOLOGI

UNIVERSITAS JEMBER

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Lektor Kepala

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Alamat Kantor : Gedung Program Studi Teknik Mesin Fak. Teknik
UNEJ

PENDIDIKAN

- Sarjana Teknik, Institut Teknologi Sepuluh Nopember, INDONESIA, 2000
- Magister Teknik, Institut Teknologi Sepuluh Nopember, INDONESIA, 2007
- Doktor, Universitas Brawijaya, Indonesia, 2021

MATA KULIAH YANG DIAMPU

Tahun	Semester	Mata Kuliah	SKS	Program Studi
2023	Ganjil	Rekayasa Keteknikmesinan	2	Magister Teknik Mesin
2023	Ganjil	Metrologi	2	Teknik Mesin
2023	Ganjil	Otomasi Manufaktur	2	Teknik Mesin
2023	Ganjil	Pemodelan Manufaktur	2	Teknik Mesin
2023	Genap	Capston Design	2	Teknik Mesin
2023	Genap	Dinamika Teknik	2	Teknik Mesin
2023	Genap	Kinematika	2	Teknik Mesin
2023	Genap	Pneumatik Hidrolik	2	Teknik Mesin
2023	Genap	Praktikum Proses Produksi	2	Teknik Mesin
2023	Genap	Product Design and Development	3	Magister Teknik Mesin
2023	Ganjil	Metode Numerik	3	Teknik Mesin



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PENGALAMAN PENELITIAN

Tahun	Judul Penelitian	Status	Sumber Dana	Besarnya Dana
2022	Rekayasa Rake Angle Negatif Dan Tekanan Hidrostatik Pada Pemotongan Orthogonal Material Getas Dalam Usaha Membantu Umkm Produk Ekspor Batu Piring Di Kabupaten Jember	Ketua	Hibah Penelitian Pasca Doktor (PPD)	25.000.000
2017	Aplikasi Sistem Pemotongan Orthogonal Dan Rake Angle Negatif Pada Pembubutan Material Getas Batu Marmer.	Ketua	Hibah Disertasi Doktor	0
2017	Teknologi Komposit Partikel Semen-serat Tebu Sebagai Elemen Peredam Getaran Pada Konstruksi Mesin Perkakas	Anggota	Produk Terapan	75.000.000
2014	Manufaktur Biokomposit Laminat Serat Tebu – Polyester Sebagai Bahan Alternatif Pengganti Struktur Logam Body Mobil Listrik	Ketua	Hibah Bersaing	150.000.000

PENGALAMAN PENGABDIAN

Tahun	Judul Pengabdian	Status	Sumber Dana	Besarnya Dana
2024	Ipteks Bagi Kelompok Tani Pedesaan Lahan Pertanian Komoditas Palawija	Ketua	Program Dosen Mengabdi di Desa Asal	30.000.000
2023	Ipteks Bagi Kelompok Tani Pedesaan Lahan Pertanian Komoditas Palawija	Anggota	Program Dosen Mengabdi di Desa Asal	30.000.000
2022	Rekonstruksi Pembangkit Listrik Tenaga Mikro Hidro (pltmh) Guna Memberdayakan Masyarakat Lereng Hutan Gunung Raung Menuju Desa Mandiri Energi	Ketua	Hibah Pengabdian Kemitraan (PPK)	25.000.000
2021	Ipteks Bagi Kelompok Tani Lahan Kritis Menuju Pertanian Swasembada Pupuk	Anggota	Hibah Pengabdian Kemitraan (PPK)	25.000.000
2020	Ipteks Bagi Produk Ekspor Krupuk Kromoleyo	Anggota	Hibah Pengabdian Kemitraan (PPK)	20.000.000



2020	Optimalisasi Pembangkit Listrik Tenaga Mikro Hidro (pltmh) Menuju Desa Mandiri Energi Di Pedesaan Kabupaten Banyuwangi	Ketua	Hibah Pengabdian Kemitraan (PPK)	25.000.000
2019	Pengembangan Kelompok Usaha Bersama Krupuk Singkong Di Desa Tegalrejo Kecamatan Tegalsari - Kabupaten Banyuwangi Provinsi Jawa Timur	Anggota	Hibah Pengabdian Kemitraan (PPK)	20.000.000

LUARAN PENELITIAN DAN PENGABDIAN

A. Jurnal Nasional

- Yuni Hermawan, Salahuddin Junus, Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, . 2023. A study on Flame Characteristics Premixed Burning by Giving Magnetic Field Induction. Polimesin. 21(2). <https://e-jurnal.pnl.ac.id/polimesin/article/view/3497>
- Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, Salahuddin Junus, Yuni Hermawan, . 2023. Study of Premix Combustion Flame Characteristics with Magnetic Field Induction. Polimesin. 2(21). <https://e-jurnal.pnl.ac.id/polimesin/article/view/3497>
- Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, Salahuddin Junus, Yuni Hermawan, . 2023. Experimental Study on the Effect of Magnetic Fields on Combustion Characteristics of Biodiesel from Nyamplung (*Calophyllum Inophyllum*). Automotive Experience. 6(1). <https://journal.unimma.ac.id/index.php/AutomotiveExperiences/article/view/8328>
- Nasrul Ilminnafik, Santoso Mulyadi, Muh. Nurkoyim Kustanto, Gaguk Jatisukamto, Rika Dwi Hidayatul Qoryah, Yuni Hermawan, Mahros Darsin, Agus Triono, , . 2022. Pengukuran Gaya pada Pembebanan Statik Chasis Mobil Listrik Prototype menggunakan Sensor Strain Gauge. Proteksion. 7(1). <http://jurnal.unmuhjember.ac.id/index.php/J-Protteksion>
- Yuni Hermawan, Mochamad Asrofi, Ahmad Adib Rosyadi, Mahros Darsin, Firman gustiawan. 2022. Optimization of Electroplating Thickness Results for SS400 Steel Using the Taguchi Method. Polimesin. 20(2). <https://e-jurnal.pnl.ac.id/polimesin/issue/view/337>
- Yuni Hermawan, Santoso Mulyadi, Mochamad Asrofi, Salahuddin Junus, Sujito, Afril Priyanto, Devita Amelia. 2021. Aplikasi Serat Alam Muntingia calabura sebagai Pengisi dalam Biokomposit Bermatriks Polivinil Alkohol (PVA): Karakteristik Sifat Kuat Tarik dan Permukaan Patahan. Agroteknika. 4(1).
- Mochamad Asrofi, Sujito, Santoso Mulyadi, Salahuddin Junus, Yuni Hermawan, Devita Amelia, Afril Priyanto. 2021. Aplikasi Serat Alam Muntingia calabura sebagai Pengisi dalam Biokomposit Bermatriks Polivinil Alkohol (PVA): Karakteristik Sifat Kuat Tarik dan Permukaan Patahan. Agroteknika. 4(1). <https://doi.org/10.32530/agroteknika.v4i1.103>
- Robertus Sidartawan, Yuni Hermawan, . 2017. UJI TABRAK KOMPONEN PINTU DAN BAMPER MOBIL LISTRIK BERBAHAN KOMPOSIT SERAT TEBU DENGAN METODE ELEMEN HINGGA. ROTOR. 9(2). <http://repository.unej.ac.id/handle/123456789/80133>



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- Robertus Sidartawan, Yuni Hermawan, . 2016. UJI TABRAK KOMPONEN PINTU DAN BAMPER MOBIL LISTRIK BERBAHAN KOMPOSIT SERAT TEBU DENGAN METODE ELEMEN HINGGA. ROTOR (Jurnal Ilmiah Teknik Mesin). 9(2).
 - Yuni Hermawan, Robertus Sidartawan, . 2016. UJI TABRAK KOMPONEN PINTU DAN BAMPER MOBIL LISTRIK BERBAHAN KOMPOSIT SERAT TEBU DENGAN METODE ELEMEN HINGGA. ROTOR (Jurnal Ilmiah Teknik Mesin). 9(2).
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B. Jurnal Internasional

- Yuni Hermawan, . 2023. Design and Development of Pan Granulator Capacity 250 Kg/Hour. International Journal of Latest Engineering Research and Applications (IJLERA). 8(12). <http://www.ijlera.com/papers/v8-i12/7.202312578.pdf>
- Salahuddin Junus, Nasrul Ilminnafik, Yuni Hermawan, Muh. Nurkoyim Kustanto, . 2023. CHARACTERIZATION OF PREMIXED FLAMES WITH ETHANOL FUEL AFFECTED BY MAGNETIC FIELD INDUCTION. International Journal of Emerging Trends in Engineering Research(IJETER). 11(2). <https://www.warse.org/IJETER/>
- Nasrul Ilminnafik, Salahuddin Junus, Muh. Nurkoyim Kustanto, Yuni Hermawan, . 2023. The Effect of Magnetic Field on Premixed Flame of Biodiesel Fuel Calophyllum Inophyllum B0, B50, and B100. IJETER. 11(2). [https://www.warse.org/IJETER/archives/archivesDetiles/?heading=Volume%2011%20No.2%20\(2023\)](https://www.warse.org/IJETER/archives/archivesDetiles/?heading=Volume%2011%20No.2%20(2023))
- Nasrul Ilminnafik, Muh. Nurkoyim Kustanto, Yuni Hermawan, Salahuddin Junus, . 2023. Characterization of Premixed Flames with Ethanol Fuel affected Magnetic Field Induction. IJETER. 11(2). <https://www.warse.org/IJETER/static/pdf/file/ijeter011122023.pdf>
- Gaguk Jatisukanto, Santoso Mulyadi, Yuni Hermawan, Muh. Nurkoyim Kustanto, . 2023. Analysis of Urban Titen EV-2 Car Chassis Design On Dynamic Loading When Brakes. International Journal of Emerging Trends in Engineering Research(IJETER). 11(1). <https://www.warse.org/IJETER/>
- Yuni Hermawan, . 2022. Design and Development of Organic Material Shredder Machine Rotary Blades Model. International Journal of Latest Engineering Research and Applications (IJLERA). 7(9). <http://www.ijlera.com/papers/v7-i09/10.202209387.pdf>
- Dwi Djumhariyanto, Robertus Sidartawan, Ahmad Syuhri, Boy Arief Fachri, Ririn Endah Badriani, Syamsul Arifin, Yuni Hermawan, Santoso Mulyadi, . 2022. Design Dynamometer 3-Axial Cutting Force on Turning Process for Brittle Material. Advanced Engineering Journal (AES). 54(08). <https://www.gkyj-aes-20963246.com/volume/AES/54/08/design-dynamometer-3-axial-cutting-force-on-turning-process-for-brittle-material-6357731dc0c14.pdf>
- Syamsul Arifin, Widya Cahyadi, Ahmad Syuhri, Robertus Sidartawan, Ketut Aswatama Wiswamitra, Dwi Djumhariyanto, Erno Widayanto, Santoso Mulyadi, Yuni Hermawan, . 2022. Design and Development of Organic Material Shredder Machine Rotary Blades Model . International Journal of Latest Engineering Research and Applications (IJLERA) . 7(9).



<http://www.ijlera.com/papers/v7-i09/10.202209387.pdf>

- Mahros Darsin, Yuni Hermawan, Mochamad Edoward Ramadhan, Hary Sutjahjono, Reinaldi Luthfi Amir, Moch. Agus Choiron. 2022. The Effect of Nozzle Temperature, Layer Height, and Infill Pattern on Dimensional Accuracy and Flexural Strength of 3D Printed Cu-PLA Filaments. *Gongcheng Kexue Yu Jishu/Advanced Engineering Science*. 54(3). <https://www.gkyj-aes-20963246.com/article/the-effect-of-nozzle-temperature-layer-height-and-infill-pattern-on-dimensional-accuracy-and-flexural-strength-of-3d-printed-cu-pla-filaments>
- Yuni Hermawan, Fauzi Aldino, Erwin Renanda Wijaya, Agung Sofirullah Annas, Masrukin. 2022. Design and Fabrication of Double Actions of Agricultural Waste Chopper: a Community Empowerment Inspired. *International Journal of Emerging Trends in Engineering Research*. 10(5). Available Online at <http://www.wahttps://doi.org/10.30534/ijeter/2022/031052022>
- Yuni Hermawan, Hari Arbiantara Basuki, Dwi Djumhariyanto, Dedi Dwilaksana, Ahmad Syuhri, Mahros Darsin, Rika Dwi Hidayatul Qoryah, Mochamad Asrofi, 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>
- 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, Salahuddin Junus, Mahros Darsin, Rika Dwi Hidayatul Qoryah, 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>
- Rika Dwi Hidayatul Qoryah, Sumarji, Sujito, Mochamad Asrofi, Yuni Hermawan, Asnawi, Prof. Ir. Dr. S.M. Sapuan, R.A. Ilyas, A. Atiqah. 2021. Effect of alkali treatment of piper betle fiber on tensile properties as biocomposite based polylactic acid: Solvent cast-film method. *Materials Today: Proceedings*. xx(xx). <https://doi.org/10.1016/j.matpr.2021.02.218>
- Santoso Mulyadi, Yuni Hermawan, Dwi Djumhariyanto, Ririn Endah Badriani, Alex Tresa Elsyamba. 2020. Contact Ball Bearing On Rolling Resistance. *INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH*. 09(01). <https://www.ijstr.org/final-print/jan2020/Contact-Ball-Bearing-On-Rolling-Resistance.pdf>
- Yuni Hermawan, Prof. Dr. Ir. Rudy Soenoko, M.Eng.Sc, Dr. Eng. Yudy Surya Irawan, ST, M.Eng, Dr. Eng. Sofyan Arief Setyabudi, ST, M.Eng. 2020. Cutting Forces, Chips Formation and Surface Roughness in Rock Cutting Using Negative Rake Angle. *Manufacturing Technology*. 20(1). https://journalmt.com/artkey/mft-202001-0009_cutting-forces-chips-formation-and-surface-roughness-in-rock-cutting-using-negative-rake-angle.php
- Yuni Hermawan, , Prof. Dr. Ir. Rudy Soenoko, M.Eng.Sc, Dr.Eng. Yudy Surya Irawan, ST, M.Eng, Dr.Eng. Sofyan Arief Setyabudi, ST, M.Eng. 2019. Minimizing Temperature And Tool Wear on Rock Cutting with Negative Rake Angle. *MM - Science Journal*. April 2019(02).



<https://www.mmscience.eu/journal/issues/june-2019/articles>

- Yuni Hermawan, Prof. Dr. Ir. Rudy Soenoko, M.Eng.Sc, Dr. Eng. Yudy Surya Irawan, ST, M.Eng, Dr. Eng. Sofyan Arief Setyabudi, ST, M.Eng. 2019. Minimizing Temperature and Tool Wear on Rock Cutting with Negative Rake Angle. MM-Science Journal (MMSJ). 2019(2). <https://www.mmscience.eu/journal/issues/june-2019/articles/minimizing-temperature-and-tool-wear-on-rock-cutting-with-negative-rake-angle>
- Yuni Hermawan, Dwi Djumhariyanto, Robertus Sidartawan, Santoso Mulyadi, Triwahju Hardianto, . 2018. Analysis of Effect Principal Cutting Angle to Stability of Tools Vibration with Cement-Sugar Cane Fiber Composite Damping. International Journal of Latest Engineering Research and Applications (IJLERA). 3(11). www.ijlera.com
- Yuni Hermawan, Triwahju Hardianto, Dwi Djumhariyanto, Robertus Sidartawan, Santoso Mulyadi, . 2018. Analysis of Tool Vibration with Composite Damper of Cement-Sugar Cane Fiber on Turning Process Without Tailstock. International Journal of Mechanical Engineering and Technology (IJMET). 9(11). <http://www.iaeme.com/IJMET/index.asp>
- Santoso Mulyadi, Yuni Hermawan, . 2017. Influence of Addition Steel Powder on Characteristics Biocomposite cements-Fiber Sugarcane Powder. International journal of Latest Engineering Research and Application (IJLERA). 02(09).

C. Prosiding Nasional

- Alfredo Bayu Satriya, Yuni Hermawan, . 2020. plikasi Pembangkit Listrik Mikrohidro Dengan Memanfaatkan Sisa Aliran Sungai Lahan Pertanian. Peningkatan Daya Saing Hasil Pertanian Menuju Revolusi Industri 4.0.
- Mahros Darsin, Yuni Hermawan, . 2020. Desain Dan Pengembangan Mesin Pengolah Krupuk Singkong Untuk Meningkatkan Nilai Tambah Produk Olahan Singkong di Kabupaten Banyuwangi. Peningkatan Daya Saing Hasil Pertanian Menuju Revolusi Industri 4.0.
- Yuni Hermawan, . 2017. Pemodelan Pemotongan Longitudinal Material Getas Batumarmer Pada Proses Bubut Tanpa Tailstock. Inovasi penemuan terbaru di bidang keteknikan.
- Yuni Hermawan, Prof. Dr. Ir. Rudy Soenoko, M.Eng.Sc, Dr. Eng. Yudy Surya Irawan, ST, M.Eng, Dr. Eng. Sofyan Arief Setyabudi, ST, M.Eng. 2017. Neutral Rake Angle Effect to the Surface Roughness on Turning Process Brittle Material Marble Stone. Kajian multi disiplin ilmu dalam pemberdayaan potensi daerah untuk meningkatkan sektor pariwisata dan industri kreatif.
- Yuni Hermawan, Prof. Dr. Ir. Rudy Soenoko, M.Eng.Sc, Dr. Eng. Yudy Surya Irawan, ST, M.Eng, Dr. Eng. Sofyan Arief Setyabudi, ST, M.Eng. 2017. PENGARUH RAKE ANGLE NETRAL TERHADAP KEKASARAN PERMUKAAN PADA PROSES BUBUT MATERIAL GETAS BATU MARMER. Kajian multi disiplin ilmu dalam pemberdayaan potensi daerah untuk meningkatkan sektor pariwisata dan industri kreatif.



D. Prosiding International

- Yuni Hermawan, Mahros Darsin, Hari Arbiantara Basuki, Salahuddin Junus, Rika Dwi Hidayatul Qoryah, . 2022. Optimizing the Surface Roughness AISI 4340 Steel on Turning Process under Minimum Quantity Lubrication (MQL). Engineering, Science and Technology.
 - Mahros Darsin, Hari Arbiantara Basuki, Yuni Hermawan, Rika Dwi Hidayatul Qoryah, Salahuddin Junus, Mochamad Bayu Ramadhani. 2022. Optimizing the Surface Roughness AISI 4340 Steel on Turning Process under Minimum Quantity Lubrication (MQL). .
 - Dwi Djumhariyanto, Robertus Sidartawan, Danang Yudistiro, Mahros Darsin, Yuni Hermawan, Intan Hardiatama, Ahmad Syuhri, Hari Arbiantara Basuki, Rika Dwi Hidayatul Qoryah, Maulana Muhammad Firdaus. 2021. Progression in Designing and Fabrication of Minimum Quantity Lubrication (MQL) System with an Arduino based Controller. Engineering.
 - Santoso Mulyadi, Robertus Sidartawan, Dwi Djumhariyanto, Yuni Hermawan, Triwahju Hardianto, . 2018. Analysis Stress and Displacement Cement Composite of 3-Axial Force Effect On Turning Process Aluminium 6061. -.
 - Yuni Hermawan, Santoso Mulyadi, Salahuddin Junus, . 2017. Desain and Stress Analysis Cement Composite On Turning Tools Structure. .
-

E. Naskah Akademik/Legal Opinion/Memorandum

- Intan Hardiatama, Mahros Darsin, Danang Yudistiro, Robertus Sidartawan, Dwi Djumhariyanto, Rika Dwi Hidayatul Qoryah, Hari Arbiantara Basuki, Ahmad Syuhri, Yuni Hermawan, 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
- Robertus Sidartawan, Yuni Hermawan, . 2017. Analisa Sifat Mekanis Biokomposit Laminat Serat Tebu - Polyester .