



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,  
RISET, DAN TEKNOLOGI

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

**PENDIDIKAN**

- S.T., UNIVERSITAS BRAWIJAYA, INDONESIA, 1994
- M.T., INSTITUT TEKNOLOGI SEPULUH NOPEMBER, INDONESIA, 2001
- Doktor, Universitas Brawijaya, Indonesia, 2019

**MATA KULIAH YANG DIAMPU**

Tahun	Semester	Mata Kuliah	SKS	Program Studi
2023	Genap	Praktikum Mesin Konversi Energi	1	Teknik Mesin
2023	Ganjil	Research Methode	2	Magister Teknik Mesin
2023	Genap	Proposal Tesis	2	Magister Teknik Mesin
2023	Ganjil	Energi Surya	2	Teknik Mesin
2023	Ganjil	Heat Exchanger	2	Teknik Mesin
2023	Ganjil	Perpindahan Panas	2	Teknik Mesin
2023	Ganjil	Turbin Gas	2	Teknik Mesin
2023	Genap	Mesin Konversi Energi	2	Teknik Mesin
2023	Ganjil	Teknologi Pembakaran dan Dinamika Fluida Reaktif	3	Magister Teknik Mesin
2023	Genap	Aerodinamika	3	Magister Teknik Mesin
2023	Ganjil	Thermodynamika	3	Teknik Mesin
2023	Genap	Mekanika Fluida	3	Teknik Mesin



## PENGALAMAN PENGABDIAN

Tahun	Judul Pengabdian	Status	Sumber Dana	Besarnya Dana
2023	Pelatihan Perawatan Solar Cell Untuk Menjaga Unjuk Kerja Pembangkit Listrik Tenaga Surya (plts) Di Rt 04 / Rw021 Perum Graha Citra Mas , Kelurahan Tegal Besar, Kecamatan Kaliwates, Kabupaten Jember	Ketua	Mandiri	1.000.000
2021	Pelatihan Cara Penggunaan Dan Perawatan Baterai Dengan Aman	Ketua	Mandiri	840.000
2021	Pelatihan Teknologi Solar Cell Sebagai Pembangkit Listrik Tenaga Surya (plts). Di Rt 04 / Rw021 Perum Graha Citra Mas , Kelurahan Tegal Besar, Kecamatan Kaliwates, Kabupaten Jember	Ketua	Mandiri	1.805.000
2020	Penyuluhan Dan Bimbingan Teknis Operasional Dan Perawatan Mesin Pengolahan Kopi Pada Gabungan Kelompok Tani Suka Maju Desa Pace Kecamatan Silo Kabupaten Jember Tahun 2022	Anggota	Mandiri	942.000
2018	Pengaplikasian Kesehatan Dan Keselamatan Kerja Dan Lingkungan Pada Kelompok Perajin Kayu Gantungan Kunci Desa Ambulu, Kecamatan Wringin, Kabupaten Bondowoso	Anggota	Mandiri	2.000.000
2017	Pelatihan Cara Pembuatan Instalasi Biogas Di Desa Jetis Kecamatan Curahdami Kabupaten Bondowoso.	Ketua	Mandiri	1.000.000

## LUARAN PENELITIAN DAN PENGABDIAN

### A. Jurnal Nasional

- Mahros Darsin, Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, Ahmad Iqbal fawaud. 2023. Pelatihan Pembuatan Bahan Bakar Minyak Nyamplung (*Calophyllum inophyllum*) bagi Masyarakat Banyuwangi Jawa Timur. JAMSI. 2(1). <https://www.jamsi.jurnal-id.com/index.php/jamsi/article/view/154>
- Nasrul Ilminnafik, Salahuddin Junus, Yuni Hermawan, Muh. Nurkoyim Kustanto, . 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, Dwi Djumhariyanto, Nasrul Ilminnafik, Digdo Listyadi Setyawan, . 2023. ANALISIS ERGONOMI PADA OPERATOR HAND TRACTOR MENGGUNAKAN METODE



RAPID UPPER LIMB ASSESMENT (RULA). Stator. 6(1).  
<https://jurnal.unej.ac.id/index.php/STATOR>

- Muh. Nurkoyim Kustanto, Salahuddin Junus, Yuni Hermawan, Nasrul Ilminnafik, . 2023. Study of Premix Combustion Flame Characteristics with Magnetic Field Induction. Polimesin. 2(21). <https://e-jurnal.pnl.ac.id/polimesin/article/view/3497>
- Salahuddin Junus, Yuni Hermawan, Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, . 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>
- Dedi Dwilaksana, Muhammad Trifiananto, Hari Arbiantara Basuki, Muh. Nurkoyim Kustanto, Intan Hardiatama, . 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>
- Dedi Dwilaksana, Muhammad Trifiananto, Santoso Mulyadi, Muh. Nurkoyim Kustanto, -. 2023. Desain Chassis Mobil Urban TITEN EV-2 Akibat Beban Dinamis. ROTASI. 25(1). <https://ejournal.undip.ac.id/index.php/rotasi/article/view/52681/23583>
- Muh. Nurkoyim Kustanto, . 2022. Training on How to Use and Maintenance of The Battery Safely. ABDI DOSEN. 6(4). <http://pkm.uika-bogor.ac.id/index.php/ABDIDOS/article/view/1395>
- Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, Dony Perdana. 2022. Pengaruh Orientasi Medan Magnet Terhadap Karakteristik Nyala Api Pembakaran Droplet *Calophyllum Inophyllum*. Jurnal Keteknikan Pertanian. 10(3). Doi: <https://doi.org/10.19028/jtep.010.3.215-225>
- 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-Proteksion>
- Nasrul Ilminnafik, Muh. Nurkoyim Kustanto, Doni Perdana. 2022. Karakteristik Pembakaran Droplet Minyak Nabati Indonesia. Dinamika. 12(2). <https://dinamika.unram.ac.id/index.php/DTM/article/view/540>
- Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, Doni Perdana. 2022. Karakteristik pembakaran droplet minyak nabati Indonesia. Dinamika teknik mesin. 12(2). <https://dinamika.unram.ac.id/index.php/DTM/article/view/540/pdf>
- Nasrul Ilminnafik, Andi Sanata, Muh. Nurkoyim Kustanto, Gaguk Jatisukamto, . 2022. Karakteristik Spray Diesel dan Campuran Biodiesel Nyamplung pada Ruang Chamber dengan Variasi Temperatur Ambient. Turbo. 11(1). <http://ojs.ummetro.ac.id/index.php/turbo/article/view/1925>
- Muh. Nurkoyim Kustanto, . 2022. Analisis Front Crash Impact Desain Rangka Mobil Listrik Jenis Spaceframe Untuk Kendaraan Kompetisi. Majalah Ilmiah Momentum. Vol 18,( No 1).
- Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, Agus Triono, . 2021. Spray Characteristics at Preheating Temperatur of Diesel-Biodiesel-Gasoline Fuel Blend. JMEST. 5(2). <http://journal2.um.ac.id/index.php/jmest/article/view/22552>
- Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, Agus Triono, . 2021. Effect of Biodiesel B100 and



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Ethanol Blends on the Performance of Small Diesel Engine. MECHTA. 2(2).  
<https://mechta.ub.ac.id/index.php/mechta/article/view/32>

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## B. Jurnal Internasional

- Yuni Hermawan, Salahuddin Junus, Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, . 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/>
- Mahros Darsin, Gaguk Jatisukanto, Muh. Nurkoyim Kustanto, Andi Sanata, . 2023. Analysis of Ash Content on Bagasse Drying Agent and the Effect on Combustion at Sugarcane Mill. International Journal of Emerging Trends in Engineering Research(IJETER). 11(2). <http://www.warse.org/IJETER/>
- Yuni Hermawan, Nasrul Ilminnafik, Salahuddin Junus, Muh. Nurkoyim Kustanto, . 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))
- Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, 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>
- Santoso Mulyadi, Gaguk Jatisukanto, 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/>
- Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, Rima zidni karimatan nisak, Atlanta iwananda. 2022. PERFORMANCE AND EMISSIONS OF A DIESEL POWER GENERATOR FUELLED BY BIODIESEL CALOPHYLLUM INOPHYLLUM - ETHANOL BLENDS. Gongcheng Kexue Yu Jishu/Advanced Engineering Science. 54(4). <https://www.gkyj-aes-20963246.com/article/performance-and-emissions-of-a-diesel-power-generator-fuelled-by-biodiesel-calophyllum-inophyllum-ethanol-blends>
- Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, Rima zidni karimatan nisak, Atlanta iwananda. 2022. Performance and Emissions of a Diesel Power Generator Fuelled by Biodiesel Calophyllum Inophyllum - Ethanol Blends. Gongcheng Kexue Yu Jishu/Advanced Engineering Science. 54(4). <https://www.gkyj-aes-20963246.com/article/performance-and-emissions-of-a-diesel-power-generator-fuelled-by-biodiesel-calophyllum-inophyllum-ethanol-blends>
- Muh. Nurkoyim Kustanto, Agus Triono, Nasrul Ilminnafik, . 2021. Effect of Biodiesel B100 and Ethanol Blends on the Performance of Small Diesel Engine. MECHTA. 2(2). <https://mechta.ub.ac.id/index.php/mechta/issue/archive>
- Muh. Nurkoyim Kustanto, Salahuddin Junus, Nasrul Ilminnafik, . 2021. Experimental Study on



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the Effect of Nano Additives  $\gamma\text{Al}_2\text{O}_3$  and Equivalence Ratio to Bunsen Flame Characteristic of Biodiesel from Nyamplung (*Calophyllum Inophyllum*). *Automotive Experiences*. 4(2).  
<https://journal.unimma.ac.id/index.php/AutomotiveExperiences/article/view/4569>

- Nasrul Ilminnafik, Muh. Nurkoyim Kustanto, Salahuddin Junus, . 2021. Experimental Study on the Effect of Nano Additives  $\gamma\text{Al}_2\text{O}_3$  and Equivalence Ratio to Bunsen Flame Characteristic of Biodiesel from Nyamplung (*Calophyllum Inophyllum*). *Automotive Experiences*. 4(2).
- Salahuddin Junus, Nasrul Ilminnafik, Muh. Nurkoyim Kustanto, . 2021. Experimental Study on the Effect of Nano Additives  $\gamma\text{Al}_2\text{O}_3$  and Equivalence Ratio to Bunsen Flame Characteristic of Biodiesel from Nyamplung (*Calophyllum Inophyllum*). *Automotive Experiences*. 4(2).  
<https://doi.org/10.31603/ae.4569>
- Muh. Nurkoyim Kustanto, Mega Nur Sasongko, I Nyoman Gede Wardana , Lilis Yuliati . 2019. ROLE OF SMALL ADDITION OF LIQUEFIED PETROLEUM GAS (LPG) ON LAMINAR BURNING VELOCITY OF HYDROUS ETHANOL. *Eastern European Journal of Enterprise Technologies*. 3(8). <http://journals.urau.ac.id/eejet/article/view/161227>
- Muh. Nurkoyim Kustanto, , I Nyoman Gede Wardana, Mega Nur Sasongko, Lilis Yuliati. 2017. Laminar burning velocity of ethanol premixed combustion enriched with Liquefied Petroleum Gas (LPG).. *Energetika*. 63(1).  
<http://www.lmaleidykla.lt/ojs/index.php/energetika/article/view/3505>

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### C. Prosiding Nasional

- Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, Lukman Hakim. 2020. Karakteristik Penyemprotan Campuran Diesel-Biodiesel Minyak Nyamplung dan Etanol dengan Variasi Tekanan Injeksi. *Energi*.
- Muh. Nurkoyim Kustanto, Nasrul Ilminnafik, . 2020. Karakteristik Penyemprotan Campuran Diesel-Biodiesel Minyak Nyamplung dan Etanol Dengan Variasi Tekanan Injeksi. *Industrial Research Workshop and National Seminar*.

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### D. Prosiding International

- Boy Arief Fachri, Muh. Nurkoyim Kustanto, . 2021. Heating Treatment of Air in Combustion Chamber For The Use of Mixture Ethanol and Gasoline Fuel. *International Conference on Advanced Science and Technology (ICAST 2020)*.