



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,
RISET, DAN TEKNOLOGI

UNIVERSITAS JEMBER

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Prof. Ir. Mahros Darsin S.T., M.Sc., Ph.D, IPM.

Profesor

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

PENDIDIKAN

- S.T., INSTITUT TEKNOLOGI SEPULUH NOPEMBER, INDONESIA, 1993
- M.Sc., UNIVERSITY OF PORTSMOUTH, INGGRIS, 1999
- Ph.D., Auckland University of Technology, Selandia Baru, 2018

MATA KULIAH YANG DIAMPU

Tahun	Semester	Mata Kuliah	SKS	Program Studi
2023	Ganjil	Research Methode	2	Magister Teknik Mesin
2023	Genap	Proposal Tesis	2	Magister Teknik Mesin
2023	Ganjil	Metrologi	2	Teknik Mesin
2023	Ganjil	Proposal Penelitian	2	Teknik Mesin
2023	Ganjil	Proses Manufaktur 2	2	Teknik Mesin
2023	Ganjil	Teknik Kemasan dan Penyimpanan	2	Teknik Mesin
2023	Genap	Praktikum Proses Produksi	2	Teknik Mesin
2023	Genap	Proposal Penelitian	2	Teknik Mesin
2023	Genap	Proses Manufaktur 1	2	Teknik Mesin
2023	Ganjil	Publikasi Ilmiah	3	Magister Teknik Mesin
2023	Genap	Aerodinamika	3	Magister Teknik Mesin
2023	Genap	Product Design and Development	3	Magister Teknik Mesin



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PENGALAMAN PENELITIAN

Tahun	Judul Penelitian	Status	Sumber Dana	Besarnya Dana
2022	Pengembangan Komposit Aluminium Berbasis Nano Al ₂ O ₃ Sebagai Material Alternatif Yang Ringan Dan Berkekuatan Tinggi	Anggota	Hibah Program Pascasarjana	42.500.000
2021	Adhesivity Optimization In Electroplating Of Ss400 Steel With Chrom Using Taguchi Method	Ketua	Hibah Reworking Skripsi/Tesis	12.500.000
2021	Rekayasa Metal 3d Printing Dari Bahan Titanium Alloy Untuk Membuat Bahan Implant Yang Biocompatible	Ketua	Hibah Penelitian Percepatan Guru Besar (PGB)	70.000.000
2021	Study Of Mild Steel Surface Integrity On Surface Grinding With Nyamplung (calophyllum Inophyllum) Oil Cooling Media	Anggota	Hibah Reworking Skripsi/Tesis	13.000.000
2013	Teknologi Pembuatan Briket Ampas Tebu Dan Serbuk Gergajian Kayu Sebagai Bahan Alternatif Yang Ramah Lingkungan	Anggota	Unggulan Perguruan Tinggi	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	Ketua	Hibah Pengabdian Desa Binaan	35.000.000
2023	Upaya Pengembangan Desa Panduman Menjadi Sentra Produk Kopi Unggulan Jember	Ketua	Hibah Pengabdian Desa Binaan	35.000.000
2021	Ipteks Bagi Kelompok Tani Lahan Kritis Menuju Pertanian Swasembada Pupuk	Ketua	Hibah Pengabdian Kemitraan (PPK)	25.000.000
2021	Pembinaan Penambal Ban Melalui Penerapan Prototipe Tambal Ban Sistem Pneumatik Dengan Kontrol Berbasis Arduino	Anggota	Hibah Pengabdian Kemitraan (PPK)	25.000.000



2020	Ipteks Bagi Produk Ekspor Krupuk Kromoleyo	Ketua	Hibah Pengabdian Kemitraan (PPK)	20.000.000
2020	Optimalisasi Pemanfaatan Lahan Sempit Dengan Pembuatan Kolam Aquaponic Sebagai Sumber Gizi Masyarakat Urban Di Kelurahan Karangrejo Jember	Anggota	Hibah Pengabdian Kemitraan (PPK)	25.000.000
2019	Pengenalan Aplikasi Ilmu Fisika Sebagai Dasar Pengembangan Teknologi Di Industri Migas (di Smp Negeri 1 Wuluhan, Jember, Jawa Timur)	Anggota	Mandiri	2.000.000

LUARAN PENELITIAN DAN PENGABDIAN

A. Jurnal Nasional

- Mahros Darsin, . 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>
- Mochamad Edoward Ramadhan, Ahmad Syuhri, Mahros Darsin, Sumarji, Agit Yoga Yulio, I Made Ivan W.C.S.. 2024. Characterization of FDM 3D Printed Parts Using TPU+PETG Filaments For Shin Guard Products . POLIMESIN. 22(1). <https://e-jurnal.pnl.ac.id/polimesin/article/view/4122>
- Hari Arbiantara Basuki, Mahros Darsin, Gaguk Jatisukanto, Hary Sutjahjono, 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>
- Muh. Nurkoyim Kustanto, Mahros Darsin, 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>
- Mahros Darsin, R. Puranggo Ganjar Widityo, Sumarji, Wazirotus Sakinah, Danny Febriansyah. 2023. The effect of SiC and Cu weight fraction on the characteristics of Al 6061 composite. Jurnal Polimesin. 21(1). <https://e-jurnal.pnl.ac.id/polimesin/article/view/3280>
- Mahros Darsin, Sumarji, Wazirotus Sakinah, R. Puranggo Ganjar Widityo, Danny Febriansyah. 2022. The Effect of SiC and Cu Weight Fraction on the Characteristics of Al 6061 Composite. Polimesin. 23(1). <https://e-jurnal.pnl.ac.id/index.php/polimesin/>
- Santoso Mulyadi, Muh. Nurkoyim Kustanto, Gaguk Jatisukanto, Rika Dwi Hidayatul Qoryah, Yuni Hermawan, Mahros Darsin, Agus Triono, Nasrul Ilminnafik, , . 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, Dedi Dwilaksana, Mahros Darsin, Aris Zainul Muttaqin, . 2022. The Effect of Nozzle Temperature, Infill Geometry, Layer Height and Fan Speed on Roughness Surface in PETG Filament. *Journal of Mechanical Engineering Science and Technology*. 6(2). <http://journal2.um.ac.id/index.php/jmest/article/view/29359>
- Yuni Hermawan, Mochamad Asrofi, Mahros Darsin, Ahmad Adib Rosyadi, 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>
- Rahma Rei Sakura, Sumarji, Mahros Darsin, Andi Sanata, Naufal Fardio Albajili. 2022. Effect of Variation of SiC and Mg Mass Fraction on Mechanical Properties of Al-SiC Composite Using Stir Casting Method. *Journal of Mechanical Engineering Science and Technology* . 6(1). <http://journal2.um.ac.id/index.php/jmest/index>
- Danang Yudistiro, Mochamad Edoward Ramadhan, Mahros Darsin, , Sains Ilham Akbar. 2022. Akurasi Dimensi Produk Filamen 3D Printing Berbahan Polipropilen Menggunakan Mesin Ekstrusi. *Teknosains*. 11(2). <https://jurnal.ugm.ac.id/teknosains/article/view/63878>
- Mahros Darsin, Mochamad Edoward Ramadhan, Boy Arief Fachri, Intan Hardiatama, Renald Rochman Mauludy, Doddy Parningotan. 2022. Analysis of the effect 3D printing parameters on tensile strength using Copper-PLA filament. *SINERGI*. 26(1). <http://doi.org/10.22441/sinergi.2022.1.013>
- Aris Zainul Muttaqin, Danang Yudistiro, Mahros Darsin, , , . 2021. Implementation of Internet of Things (IoT) in a Plastic Blow Moulding Machine and Its Performance Measurement . *Journal of Mechanical Engineering Science and Technology*. 5(2). <http://journal2.um.ac.id/index.php/jmest/article/view/23879/8795>
- Rika Dwi Hidayatul Qoryah, Mahros Darsin, Santoso Mulyadi, Herninda Ayu Meylinda Sari. 2021. SIMULASI GAYA PEMOTONGAN PADA PROSES BUBUT DENGAN SOFTWARE THIRD WAVE ADVANTEDGE. *Rekayasa Mesin*. 12(2). <https://doi.org/10.21776/ub.jrm.2021.012.02.17>
- Mahros Darsin, Mochamad Asrofi, Joni Anggianto, Soesatijono. 2020. Upaya mengatasi cacat produksi botol kemasan air 600 ml dengan metode Statistical Process Control. *Jurnal Litbang Industri*. 10 Desember 2020 : 129 - 137(2). <http://ejournal.kemenperin.go.id/jli/article/view/6139>
- Digdo Listyadi Setyawan, Mahros Darsin, khamdan khavivi. 2020. UNJUK KERJA KOLEKTOR TABUNG PEMANAS AIR PADA SAAT CHARGING MENGGUNAKAN PHASE CHANGE MATERIAL (PCM) DENGAN DAN TANPA REFLEKTOR. *Multitek Indonesia : Journal Ilmiah*. 14(1). <http://jurnal.umpro.ac.id/index.php/multitek>
- Mahros Darsin, Digdo Listyadi Setyawan, . 2020. 2020.7_MUNJUK KERJA KOLEKTOR TABUNG PEMANAS AIR PADA SAAT CHARGING MENGGUNAKAN PHASE CHANGE MATERIAL (PCM) DENGAN DAN TANPA REFLEKTOR. *MULTITEK*. 14(1). <http://journal.umpro.ac.id/index.php/multitek/article/view/1679>
- Aris Zainul Muttaqin, Mahros Darsin, . 2020. RANCANG BANGUN DAN UJI PERFORMASISTEM KENDALI PEMBERIAN FLUIDA PERMESINAN MQL BERBASIS ARDUINO. *Rekayasa Mesin*. 11(1). <https://rekayasamesin.ub.ac.id/index.php/rm/article/view/634>
- Mahros Darsin, Rika Dwi Hidayatul Qoryah, . 2020. Pengaruh Metode Minimum Quantity



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- Lubrication (MQL) Terhadap Nilai Kekasaran Permukaan. REKAYASA. 13(2).
<https://journal.trunojoyo.ac.id/rekayasa/article/view/6259>
- Mahros Darsin, Hari Sutjahjono. 2020. Pengaruh model reflektor terhadap performa kolektor tabung dengan phase change material. *Dinamika Teknik Mesin*. 10(1).
 - Mahros Darsin, Hary Sutjahjono, . 2020. Pengaruh model reflektor terhadap performa kolektor tabung dengan phase change material. *Dinamika Teknik Mesin*. 10(1).
<http://dinamika.unram.ac.id/index.php/DTM/article/view/312>
 - Mochamad Edoward Ramadhan, Mahros Darsin, . 2019. Aplikasi Overall Equipment Effectiveness (OEE) Dalam Upaya Mengatasi Tingginya Downtime Pada Stasiun Ketel di PG X Jawa Timur. *Multitek Indonesia: Jurnal Ilmiah*. 13(2).
<http://journal.umpo.ac.id/index.php/multitek/article/view/1614/1192>
 - Mahros Darsin, Rahma Rei Sakura, . 2019. ANALISIS KETEBALAN LAPISAN PADA PENGECATAN BAJA KARBON RENDAH MENGGUNAKAN METODE RESPONS PERMUKAAN. *SINTEK JURNAL: Jurnal Ilmiah Teknik Mesin*. 13(2).
<https://jurnal.umj.ac.id/index.php/sintek/article/view/4394>
 - Mahros Darsin, Santoso Mulyadi, Tri Surya Utama. 2019. OPTIMASI VARIASI DIAMETER NOZZLE, TEKANAN UDARA, DAN SUHU PENDINGINAN PADA PELAPISAN BAJA St37 MENGGUNAKAN METODE RESPONSE SURFACE. *Jurnal SIMETRIS*. 10(2).
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 - Mahros Darsin, Santoso Mulyadi, . 2019. OPTIMASI VARIASI DIAMETER NOZZLE, TEKANAN UDARA, DAN SUHU PENDINGINAN PADA PELAPISAN BAJA St37 MENGGUNAKAN METODE RESPONSE SURFACE. *SIMETRIS*. 10(2).
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 - Mahros Darsin, Mochamad Edoward Ramadhan, . 2019. Optimasi kekilapan pada pengecatan pelat St37 dengan metode respon permukaan. *Polimesin*. 17(2).
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 - Ahmad Adib Rosyadi, Mahros Darsin, . 2019. Optimasi kekilapan pada pengecatan pelat St37 dengan metode respon permukaan (Optimization of shine in St37 plate painting with the response surface method). *Polimesin*. 17(2).
<http://e-jurnal.pnl.ac.id/index.php/polimesin/issue/view/183>
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B. Jurnal Internasional

- Mahros Darsin, Anggra Fiveriati, Akhmad Afandi, I Gusti Ngurah Bagus Catra Wedarma, Herman Yuliandoko, Syed Qutaba. 2023. Predictive Modelling On Machining Performance of ECDM Using Artificial Neural Network and Particle Swarm Optimization . *Manufacturing Technology*. 23(5). <https://journalmt.com/pdfs/mft/2023/05/11.pdf>
- Mahros Darsin, Boy Arief Fachri, Haidzar Nurdiansyah, S.T., M.T.. 2023. EFFECT OF PARTICLE SIZE ON IGNITION AND OXIDATION OF SINGLE ALUMINUM: MOLECULAR DYNAMICS STUDY. *EUREKA: Physics and Engineering*. 46(3).



<https://journal.eu-jr.eu/engineering/article/view/2653/2220>

- Danang Yudistiro, Mochamad Asrofi, Mahros Darsin, Ahmad Rendi Maulana. 2023. Effect of Temperature, Holding Time, and Addition of Sn on Density on Metal Injection Molding Sintering Process. Journal of Engineering and Technological Science. 55(2). <https://journals.itb.ac.id/index.php/jets/article/view/18780/6211>
- Hari Arbiantara Basuki, Mahros Darsin, Gaguk Jatisukamto, Mochamad Edoward Ramadhan, Dwi Djumhariyanto, Robertoes Koekoeh Koentjoro Wibowo, 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, Mahros Darsin, Robertoes Koekoeh Koentjoro Wibowo, 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>
- Mahros Darsin, Andi Sanata, Gaguk Jatisukamto, Muh. Nurkoyim Kustanto, . 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/>
- Mahros Darsin, 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
- Mochamad Edoward Ramadhan, Robertoes Koekoeh Koentjoro Wibowo, Dwi Djumhariyanto, Hari Arbiantara Basuki, Mahros Darsin, Gaguk Jatisukamto, 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/>
- Mahros Darsin, Mochamad Edoward Ramadhan, Danang Yudistiro, Sains Ilham Akbar. 2022. Fabrication of Polypropylene Filament Using a Single Extruder and Measurement of Its Dimensional Accuracy . Advanced Engineering Science. 54(8). <https://www.gkyj-aes-20963246.com/article/fabrication-of-polypropylene-filament-using-a-single-extruder-and-measurement-of-its-dimensional-accuracy>
- Mochamad Edoward Ramadhan, Mahros Darsin, Danang Yudistiro, Sains Ilham Akbar. 2022. Fabrication of Polypropylene Filament Using a Single Extruder and Measurement of Its Dimensional Accuracy. Advanced Engineering Science. 54(8). <https://www.gkyj-aes-20963246.com/article/fabrication-of-polypropylene-filament-using-a-single-extruder-and-measurement-of-its-dimensional-accuracy>
- Mahros Darsin, Agus Triono, . 2022. DESIGN, MANUFACTURING, AND PERFORMANCE ANALYSIS OF DOUBLE EXTRUDER 3D PRINTER MACHINE FOR PLA□ABS FILAMENT MATERIALS. Gongcheng Kexue Yu Jishu/Advanced Engineering Science. 54(6).



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- Salahuddin Junus, Mahros Darsin, Nasrul Ilminnafik, Gaguk Jatisukamto, Aidin Bentar, Fabrobi F.Ridha. 2022. Analysis of Rice Straw and Ijuk Fiber Composite for Lightweight Material Applications. *Gongcheng Kexue Yu Jishu/Advanced Engineering Science Journal*. 54(-).
- Santoso Mulyadi, Mahros Darsin, Agus Triono, Nasrul Ilminnafik, . 2022. Optimization of the structure of bionic finger segment prosthesis using generative design. *F1000Research*. (). <https://f1000research.com/articles/11-613/v1>
- Hary Sutjahjono, Mahros Darsin, Yuni Hermawan, Mochamad Edoward Ramadhan, 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>
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- Hari Arbiantara Basuki, Yuni Hermawan, Dedi Dwilaksana, Robertus Sidartawan, Rika Dwi Hidayatul Qoryah, Mochamad Asrofi, Mahros Darsin, Dwi Djumhariyanto, Ahmad Syuhri, 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>
- Rika Dwi Hidayatul Qoryah, Hari Arbiantara Basuki, Salahuddin Junus, Yuni Hermawan, Mahros Darsin, . 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>
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- Robertoes Koekoeh Koentjoro Wibowo, Mahros Darsin, 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>



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- Boy Arief Fachri, Gaguk Jatisukamto, Mahros Darsin, Mochamad Edoward Ramadhan, Mohd Sabri Hussin, Nurcholis Alfian Mahardika. 2021. Effect of 3D Printing Parameters on Dimensional Accuracy Using eSteel Filaments. *Journal of 3D Printing and Additive Manufacturing*. 1(1). https://crgjournals.com/journal/downloadPdf/200612112710_24/effect-of-3d-printing-parameters-on-dimensional-accuracy-using-esteel-filaments.pdf
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- Mahros Darsin, Sanusi Hamat, Syamir Alihan Showkat Ali, Muhammad Aiman Ahmad Fozi, Yuzairi Abd Rahim, Mohd Syedi Imran Mohd Dawi. 2020. Experimental and finite element modeling of partial infill patterns for thermoplastic polymer extrusion 3D printed material using elasto-plastic method. *AIP Conference Proceedings c. 2278(020011 (2020))*. <https://aip.scitation.org/doi/epdf/10.1063/5.0014978>
- 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>
- Mahros Darsin, . 2020. Drillability Of Titanium 6246 From Chips Formation Perspective. *Journal of Mechanical Engineering Research and Developments*. 43(2). [https://jmerd.net/Paper/Vol.43.No.2\(2020\)/40-48.pdf](https://jmerd.net/Paper/Vol.43.No.2(2020)/40-48.pdf)
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F. Narasumber, Pemakalah dan/atau Pelatihan

Tahun	Nama Kegiatan	Penyelenggara	Status
2023	Reviewer sebuah manuskrip pada jurnal POLIMESIN	Politeknik Negeri Lhokseumawe	Berperan serta aktif dalam pertemuan ilmiah (SRD) - Tingkat internasional/nasional/regional sebagai anggota/peserta