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KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI
MINISTRY OF EDUCATION, CULTURE, RESEARCH, AND TECHNOLOGY

POLITEKNIK NEGERI MALANG
STATE POLYTECHNIC OF MALANG

Terakreditasi A, SK BAN-PT Nomor 409/SK/BAN-PT/Akred/PT/XII/2018
Accredited 'A' by National Accreditation Board for Higher Education Decree No. 409/SK/BAN-PT/Akred/PT/XII/2018

memberikan / has awarded

IJAZAH / DIPLOMA

kepada / to

Moch. Nur Rochman

Nomor Induk Mahasiswa / Student Registration Number 2031120066

Nomor Induk Kependudukan / National Identity Number 3523151404990004

Lahir di Tuban, tanggal 14 April 1999 / Born in Tuban, on April 14, 1999

*Pada tanggal 01 Agustus 2023 telah menyelesaikan Pendidikan Diploma III
on August 01, 2023 has successfully fulfilled all requirements of Diploma III*

Program Studi Teknik Listrik, Jurusan Teknik Elektro

Study Program of Electrical Engineering, Department of Electrical Engineering

(Terakreditasi Internasional ASIC-UK / International Accredited ASIC-UK)

Berhak menyandang gelar / Entitled the degree of

Ahli Madya Teknik (A.Md.T.) / Associate Degree in Engineering

Diterbitkan di Malang pada tanggal 07 September 2023

Issued in Malang on September 07, 2023

Ketua Jurusan / Head of Department,

Mohammad Noor Hidayat, S.T., M.Sc., Ph.D.
NIP 197409252001121003



Direktur / Director,

Supriatna Adhisuwigno, S.T., M.T.
NIP 197101081999031001



SURAT KETERANGAN PENDAMPING IJAZAH

Diploma Supplement

Nomor/Number : 17782/PL2/TE/D-III/2023

Surat Keterangan Pendamping Ijazah (SKPI) ini diterbitkan oleh Politeknik Negeri Malang untuk digunakan sebagai pelengkap ijazah yang menerangkan capaian pembelajaran dan prestasi dari pemegang ijazah selama masa studi.

This document serves to supplement the certificate issued by the State Polytechnic of Malang to describe the learning outcomes and achievement of the holder.

1. INFORMASI TENTANG IDENTITAS DIRI PEMEGANG SKPI

PERSONAL INFORMATION OF DIPLOMA SUPPLEMENT HOLDER

1.1. Nama Lengkap Full Name Moch. Nur Rochman	1.5. Tanggal Kelulusan Date of Graduation 01 Agustus 2023
1.2. Tempat dan Tanggal Lahir Place and Date of Birth Tuban, 14 April 1999	1.6. Nomor Ijazah Certificate Number 204032023000987
1.3. Nomor Induk Mahasiswa Student Identification Number 2031120066	1.7. Gelar/Sebutan Lulusan Academic Degree Ahli Madya Teknik (A.Md.T.)
1.4. Tanggal Masuk Date of Admission 01 September 2020	

2. IDENTITAS PENYELENGGARA PROGRAM

IDENTITY OF THE HIGHER EDUCATION INSTITUTION

2.1. Surat Keputusan Pendirian Program Studi Establishment Decree KEPPRES No. 59 Tahun 1982	2.7. Persyaratan Penerimaan Entry Requirements Lulus SMU/SMK/MA dan Lulus Seleksi Mahasiswa Baru
2.2. Nama Perguruan Tinggi Name of Higher Education Institution Politeknik Negeri Malang	2.8. Bahasa Pengantar Kuliah Language of Instruction Bahasa Indonesia
2.3. Nama Program Studi Name of Study Program Teknik Listrik	2.9. Sistem Penilaian Grading System A=4; B+=3,5; B=3; C+=2,5; C=2; D=1; E=0
2.4. Jenis Pendidikan Classification of Study Vokasi	2.10. Lama Studi Reguler Regular Length of Study 3 Tahun (6 Semester) dengan menempuh 120 sks
2.5. Jenjang Pendidikan Education Level Diploma III	2.11. Jenis dan Jenjang Pendidikan Lanjutan. Access to Further Study D-IV atau S1 (Sarjana Terapan atau Sarjana)
2.6. Jenjang Kualifikasi sesuai KKNi Appropriate Level of Indonesian Qualification Framework Level 5	2.12. Akreditasi Program Studi Accreditation of Study Program UNGGUL

3. KUALIFIKASI DAN HASIL YANG DICAPAI QUALIFICATION AND LEARNING OUTCOMES ACHIEVED

3.1. Capaian Pembelajaran / Learning Outcomes

3.1.1. KEMAMPUAN KHUSUS / SPECIAL SKILLS

1. Mampu menerapkan prinsip-prinsip matematika dan sains alam, serta prinsip rekayasa ke dalam prosedur dan praktek teknis (*technical practice*) untuk perawatan/pemeliharaan instalasi listrik tegangan menengah 20 KV dan penyelesaian masalah rekayasa yang terdefinisi secara jelas pada instalasi listrik tegangan rendah;
Able to implement the principles of mathematics and natural science, as well as engineering principles onto procedures and technical practice for the maintenance of medium-voltage electrical installations of 20 KV and solve the clearly defined engineering problems on the low-voltage electrical installation;
2. Mampu mengidentifikasi dan menyelesaikan masalah rekayasa pada instalasi tegangan rendah yang terdefinisi secara jelas dengan mengacu kepada *standard* SNI, IEC, dan *standard* lain yang terkait, serta memilih metode pemasangan dan perawatan instalasi listrik;
Able to identify and solve the engineering problems on the clearly defined low voltage installation by referring to the ISO, IEC, and other relevant standards, and to choose the electrical installation and maintenance methods;
3. Mampu merencanakan, dan melaksanakan pemasangan instalasi listrik tegangan rendah sesuai dengan *standard* dan persyaratan yang diperlukan dan memperhatikan faktor-faktor ekonomi, kesehatan, keselamatan, dan lingkungan;
Able to plan and carry out the low voltage electrical installation in accordance with the necessary standards and requirements by taking into account the economic, health, safety, and environment factors;
4. Mampu merencanakan dan melaksanakan operasi pemeliharaan instalasi listrik (sampai dengan tegangan menengah 20 KV) dan peralatan listrik sesuai standar operasi perawatan jaringan listrik yang berlaku dengan memperhatikan faktor-faktor ekonomi, kesehatan, keselamatan publik, dan lingkungan;
Able to plan and carry out the maintenance operation of electrical installation (up to 20 KV medium voltage) and electrical equipment in accordance with the prevailing operating standards of electrical network maintenance by taking into account the economic, health, public safety, and environment factors;
5. Mampu merancang instalasi listrik tegangan rendah dan menuangkan hasil rancangan dalam bentuk gambar teknik secara manual dan/atau piranti lunak pendukung;
Able to design the low voltage electrical installation and present the result in the form of engineering drawing manually and/or by using the supporting software;
6. Mampu mengoperasikan dan mengendalikan peralatan dan mesin listrik dengan menggunakan peralatan berbasis teknologi VSD (*Variable Speed Drive*), kendali terprogram, sistem terkomputerisasi, dan teknologi informasi;
Able to operate and control the electrical equipment and machine by using hardware-based VSD (Variable Speed Drive) technology, programmed control, computerized systems, and information technology;
7. Mampu melakukan pengujian dan pengukuran kelayakan instalasi listrik berdasarkan prosedur dan standar (SNI, IEC, SPLN), dan menyajikan hasil analisis berdasarkan metoda yang dipilih;
Able to perform testing and measuring the feasibility of electric installation based on the procedures and standards (ISO, IEC, SPLN), and present the analysis result based on the selected methods;
8. Mampu mengikuti perkembangan teknik dan teknologi terkini yang terkait di bidang teknik listrik.
Able to keep informed on the latest technique and technology development related to the field of electrical engineering.

3.1.2. PENGUASAAN PENGETAHUAN/ KNOWLEDGE MASTERY

1. Menguasai konsep teoritis sains alam, matematika terapan dan prinsip-prinsip serta perancangan rekayasa untuk analisis dan perancangan sistem proses manufaktur dan produksi;
Mastering the theoretical concepts on natural science, applied mathematics and engineering principles as well as engineering design for the analysis and designing of manufacturing and production process system;
2. Menguasai pengetahuan tentang *standard* dan prosedur yang berlaku di bidang kelistrikan;
Mastering the knowledge of the prevailing standards and procedures in the field of electrical engineering;
3. Menguasai konsep teoritis dan terampil bidang kelistrikan, serta sistem informasi dalam menyelesaikan masalah Instalasi Listrik sesuai dengan standar yang berlaku;
Mastering the theoretical concepts and skills on electrical engineering and information system to solve electrical installation problems in accordance with the prevailing standards;
4. Menguasai prinsip dan teknik perancangan Sistem Instalasi Listrik pada tataran praktis;
Mastering the principles and techniques of electrical installation system design at a practical level;
5. Menguasai pengetahuan tentang perkembangan teknologi terbaru dan terkini dalam bidang kelistrikan;
Mastering the knowledge about the latest technology and development in electrical engineering field;
6. Menguasai prinsip dan *issue* terkini dalam bidang ekonomi, sosial, ekologi secara umum untuk diterapkan pada bidang Kelistrikan;
Mastering the principles and current issues in the economic, social, ecological fields in general to be implemented in the field of electrical engineering field;
7. Menguasai pengetahuan prosedural dan operasional kerja bengkel dan kegiatan laboratorium, serta penerapan K3 dalam bidangnya;
Mastering the knowledge of procedural and operational works of the workshop as well as laboratory activities, and the implementation of SHE in their fields;
8. Menguasai pengetahuan tentang proses, tantangan, resiko dan upah serta mampu mengembangkan bisnis.
Mastering the knowledge on the processes, challenges, risks and wages and able to develop businesses.

3.2. INFORMASI TAMBAHAN / ADDITIONAL INFORMATION

1. Prestasi / Penghargaan / Awards
2. Keikutsertaan dalam Organisasi / Participation in Organization
 - a. Sosialisasi Kampus/ Ketua Panitia/ Ikatan Mahasiswa Ronggolawe Polinema (Tuban) / *Campus Socialization/ Chairman Of The Committee/ Ronggolawe Polinema Student Association (Tuban)*
 - b. Pengabdian Masyarakat/ Ketua Panitia/ Ikatan Mahasiswa Ronggolawe Polinema (Tuban) / *Community Service/ Chairman Of The Committee/ Ronggolawe Polinema Student Association (Tuban)*
 - c. Pengurus Divisi Pendidikan Dan Pelatihan/ Ikatan Mahasiswa Ronggolawe Polinema (Tuban) / *Manager Of The Education And Training Division/ Student Association Of Ronggolawe Polinema (Tuban)*
3. Sertifikasi Keahlian / Vocational Certificates
 - a. TOEFL / TOEFL
 - b. Sertifikat Kopetensi / Competence Certificate
 - c. Program Magang Mahasiswa Bersertifikat (PMMB) / *Certified Student Internship Program (PMMB)*
 - d. Sertifikasi Kompetensi / Competency Certification
4. Praktek Kerja Lapangan / Magang / Internships

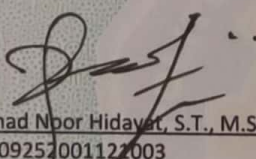
Praktek Kerja Industri (Prakerin) di PT. PLN (Persero) UP3 Situbondo / *PT. PLN (Persero) UP3 Situbondo*

Judul : Penertiban Pemakaian Tenaga Listrik (P2TL) UP3 Situbondo
 Title : *Control Of Electricity Consumption (P2TL) In The Area Situbondo*
5. Tugas Akhir / Laporan Akhir / Skripsi / Final Report

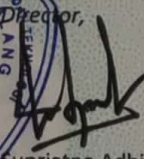
Judul : Desain dan Implementasi Trafo Satu Fasa EI Pada Aplikasi Inverter
 Title : *Design and Implementation Of Single Phase EI Transformers In Inverter Applications*

Malang, 07 September 2023

Ketua Jurusan,
Head of Department,


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