



KEMENTERIAN PENDIDIKAN,
KEBUDAYAAN, RISET
DAN TEKNOLOGI



POLITEKNIK NEGERI
MADIUN

JOKASI
KUAT, MENGUATKAN
INDONESIA



**PROGRAM STUDI
SARJANA TERAPAN
(D-IV) PERKERETAAPIAN**
Rollingstock Engineering

Akreditasi Baik / Good

(Berdasarkan SK BAN-PT No. 9660/SK/BAN-PT/Akred/ST/VII/2021)
*(Based on National Accreditation Body for Higher Education (BAN-PT) Decree
No. 9660/SK/BAN-PT/Akred/ST/VII/2021)*

POLITEKNIK NEGERI MADIUN (PNM)
MADIUN STATE POLYTECHNIC





GAMBARAN UMUM

About Study Program

Program Studi Sarjana Terapan (D-IV) Perkeretaapian Politeknik Negeri Madiun berdiri sejak tahun 2018 dan mulai menerima mahasiswa pada tahun ajaran 2018/2019. Dasar pendirian program studi ini adalah surat mandat/penugasan dari Direktorat Jenderal Kelembagaan Ilmu Pengetahuan, Teknologi, dan Pendidikan Tinggi Kementerian Riset, Teknologi, dan Pendidikan Tinggi nomor 1795/C.C/KL/2018. Penugasan tersebut dikuatkan dengan terbitnya Keputusan Menteri Riset, Teknologi, dan Pendidikan Tinggi Republik Indonesia nomor 624/KPT/I/2018 tentang Izin Pembukaan Program Studi

Applied Bachelor (D-IV) of Rollingstock Engineering Study Program Madiun State Polytechnic was established in 2018 and began accepting students in the academic year 2018/2019. The basic establishment of this study program is a mandatory letter from the Directorate General for Sciences, Technology, and Higher Education Institutional Research, Technology, and Higher Education Ministry number 1795/C.C/KL/2018. The duty was strengthened by the issuance of the decree from the Minister of Research, Technology and Higher Education Republic of Indonesia number 624/KPT/I/2018 on the permit for

Perkeretaapian Program Sarjana Terapan Pada Politeknik Negeri Madiun. Alasan lain dari pendirian prodi ini adalah adanya industri perkeretaapian (PT INKA) di kota Madiun serta adanya potensi tenaga kerja pada bidang perkeretaapian di Indonesia yang hingga tahun 2025 akan mencapai 30.000 orang.

Program Studi Sarjana Terapan (D-IV) Perkeretaapian Politeknik Negeri Madiun telah mendapatkan Akreditasi Baik dari Badan Akreditasi Nasional Perguruan Tinggi (BAN-PT) pada tahun 2021 yang disahkan dengan terbitnya SK BAN-PT No. 9660/SK/BAN-PT/Akred/ST/VII/2021. Secara struktural, Program Studi Perkeretaapian merupakan program

the opening of Applied Bachelor of Rollingstock Engineering Study Program at Madiun State Polytechnic. Another reason for the establishment of this study program is the existence of the rollingstock industry (PT INKA) in Madiun city and the potential workers in this sector in Indonesia will reach 30,000 people in 2025.

Applied Bachelor (D-IV) of Rollingstock Engineering Study Program Madiun State Polytechnic has received Good Accreditation from the National Accreditation Body for Higher Education (BAN-PT) in 2021 which was approved by the issuance of BAN-PT Decree No. 9660/SK/BAN-PT/Akred/ST/VII / 2021. Structurally, the





Sarjana Terapan berada di bawah naungan Jurusan Teknik beserta 5 (lima) program studi lain yaitu D-III Teknik Listrik, Program Studi Sarjana Terapan (D-IV) Perkeretaapian, Teknologi Rekayasa Otomotif, D-III Teknik Komputer Kontrol, D-III Teknologi Informasi, dan D-II Teknik Pembentukan Logam. Prodi Perkeretaapian pertama kali menerima mahasiswa dengan membuka 2 (dua) kelas pada tahun 2018. Kemudian pada tahun 2020 sampai sekarang telah berkembang menjadi 4 (empat) kelas.

Rollingstock Engineering Study Program is an applied bachelor program under the part of the Engineering Department along with 5 (five) other study programs, namely D-III Electrical Engineering, Applied Bachelor (D-IV) of Rollingstock Engineering Study Program, D-III Computer Control Engineering, D-III Information Technology, and D-II Metal Forming Engineering. The Rollingstock Engineering Study Program accepted students and opened 2 (two) classes in 2018. In 2020 until now, it expanded to 4 (four) classes.

VISI DAN MISI

Vision and Mission

Visi

Vision

“Menjadi Pendidikan Tinggi Vokasi bidang industri perkeretaapian yang berkualitas, berbasis ilmu pengetahuan dan teknologi, inovasi, dan berdaya saing nasional.”

“To be a vocational higher education in rollingstock technology with high quality, innovative and have national competitiveness.”

Misi

Mission

1. Menyelenggarakan dan mengembangkan pendidikan vokasi bidang industri perkeretaapian yang relevan, inovatif, dan berkualitas;
2. Menyelenggarakan penelitian terapan dan pengabdian kepada masyarakat yang bermanfaat bagi pengembangan ilmu pengetahuan dan teknologi serta kesejahteraan masyarakat;
3. Menyelenggarakan penguatan kerja sama dalam mendukung keberlanjutan pemanfaatan sumber daya terampil; dan
4. Menyelenggarakan sistem pengelolaan pendidikan tinggi berdasar pada prinsip-prinsip tata kelola yang baik.

- 1. To conduct and develop vocational education on rollingstock technology which is relevant, innovative and highly qualified*
- 2. To conduct applied research and community service to give benefit to the development of science and social welfare*
- 3. Strengthen cooperation works to support the usage and its implementation of skilled human resources*
- 4. To conduct higher education management system based on good governance principles*



CAPAIAN PEMBELAJARAN

Learning Outcomes

Capaian pembelajaran yang ingin dicapai oleh Program Studi Sarjana Terapan (D-IV) Perkeretaapian adalah sebagai berikut:

1. Penguasaan bidang pengembangan teknologi perkeretaapian
2. Berpikir kritis, kreatif, inovatif, serta taat kaidah ilmiah.
3. Kecakapan menggunakan keilmuan dan keterampilan untuk meyelesaikan masalah-masalah dalam bidang teknologi perkeretaapian.
4. Aktif terlibat secara profesional dan sosial.
5. Komunikasi yang efektif (Effective communications).
6. Pembelajaran sepanjang hayat (Lifelong Learning).
7. Kepemimpinan dan kerja tim lintas disiplin.
8. Cakap berwirausaha dengan memanfaatkan teknologi.

The learning outcomes to be achieved by the Applied Bachelor (D-IV) of Rollingstock Engineering Study Program are :

- 1. Mastering in the rollingstock technology development.*
- 2. Thinking critically, creatively, innovatively, and obeying scientific rules.*
- 3. Having ability to use knowledge and skills to solve problems in the rollingstock technology.*
- 4. Engaging the program professionally and socially.*
- 5. Producing effective communication.*
- 6. Being a lifelong learning.*
- 7. Having leadership and cross-disciplinary teamwork.*
- 8. Being a capable entrepreneur by utilizing technology.*

PROFIL LULUSAN

Graduate Profiles

Fokus utama dari kurikulum prodi ini adalah untuk menghasilkan profil lulusan seorang Rollingstock Engineer, yang mampu melakukan perancangan dan pengembangan komponen ataupun sistem mekanikal dan elektrikal pada konstruksi kereta api (kereta, gerbong, dan lokomotif) dengan memperhatikan aspek teknis terkait keamanan konstruksi, keselamatan pengguna dan aspek lingkungan sehingga mampu menyelesaikan permasalahan terkait dengan perencanaan dan pengembangan teknologi perkeretaapian, serta memahami proses dan sistem manufaktur dalam proses produksi kereta api.

The main focus of this study program curriculum is to produce graduate profiles of Rollingstock Engineers, who are able to design and develop mechanical and electrical components or systems in train construction (trains, wagons, and locomotives) by paying attention to technical aspects related to construction and user safety and environmental aspects so that they can solve the problems pertained to planning and development of rollingstock technology, as well as understanding the manufacturing systems and its process to the train's production process.

Tahun 2022 menjadi tahun pertama bagi Prodi Perkeretaapian untuk meluluskan mahasiswa. Lulusan Program Studi D-IV Perkeretaapian ini nantinya dapat bekerja pada bidang-bidang pekerjaan seperti berikut:

1. Rollingstock Designer
2. Rollingstock Production Engineer
3. Rollingstock Inspector
4. Researcher and Academician
5. Leader
6. Entrepreneur

2022 will be the first year for the Rollingstock Engineering Study Program to graduate the students. Graduates of the D-IV Rollingstock Engineering Study Program can work in these areas, such as:

- 1. Rollingstock Designer*
- 2. Rollingstock Production Engineer*
- 3. Rollingstock Inspector*
- 4. Researcher and Academician*
- 5. Leader*
- 6. Entrepreneur*



KOMPETENSI LULUSAN

Graduates' Competence

1. Mampu mengembangkan teknologi perkeretaapian dan bekerja di bidang yang berkaitan dengan teknologi perkeretaapian.
 2. Mampu merancang dan mendesain elemen struktur sistem perkeretaapian.
 3. Mampu merancang sistem kendali kereta api berdasar standart SNI dan ISO dengan memperhatikan faktor-faktor ekonomi, K3, dan lingkungan.
 4. Mampu melakukan pengujian dan pengukuran instrumentasi secara sistem kendali kereta api berdasar prosedur dan standar SNI.
 5. Memiliki kemampuan profesional di bidang propulsi perkeretaapian.
 6. Mampu merancang sistem kelistrikan kereta api.
 7. Mampu mengendalikan peralatan sistem gerak dan pembangkitan listrik KA.
 8. Mampu melaksanakan manajemen proses produksi, pengendalian proses produksi, dan pengendalian kualitas pada industri kereta api.
1. *Able to develop rollingstock technology and work in fields that related to rollingstock technology.*
 2. *Able to make a draft and design structural elements of the rollingstock system.*
 3. *Able to design a train control system based on SNI and ISO standards by paying attention to economic, safety, and environmental factors.*
 4. *Capable of testing and measuring instrumentation in train control systems based on SNI procedures and standards.*
 5. *Have professional abilities in the field of rollingstock propulsion.*
 6. *Able to design rollingstock electrical systems.*
 7. *Able to control the motion system equipment and rollingstock power generation.*
 8. *Able to carry out production process management, production process control, and quality control in the rollingstock industry.*

FASILITAS PENDUKUNG

Supporting Facilities

- Ruang Kelas Ber-AC
Air-conditioned classroom
- Ruang Kelas Industri di PT INKA
Industrial classrooms at PT INKA
- Ruang Kuliah Bersama
Sharing classrooms
- Laboratorium Vokasi di PT INKA
Vocational laboratory at PT. INKA
- Laboratorium Komputer Gambar Desain Kereta Api
Rollingstock computer drawing laboratory
- Laboratorium Kontrol Industri
Control Industry Laboratory
- Laboratorium Manufaktur Perkeretaapian
Rollingstock Manufacturing Laboratory
- Laboratorium Pemrograman & Simulasi Komputer
Computer programming & simulation Laboratory





- Laboratorium CAD (Computer Aided Design)
CAD (Computer Aided Design) Laboratory
- Laboratorium Pengujian Material
Material testing Laboratory
- Workshop Kerja Bangku dan Pengelasan
Welding & bench work Laboratory
- Musala
Moslem prayer room
- Lapangan Olahraga
Sports field
- Auditorium
Auditorium
- Perpustakaan
Library
- BI Corner
BI Corner

FASILITAS DALAM PEMBANGUNAN

Facilities in construction

Lantai 1 Peruntukan Ruang Lab dan Bengkel

First floor is designed for Workshop and Laboratories

- Laboratorium Mikroprocessor & Mikrokontroller
Microprocessor and Microcontroller Laboratory
- Laboratorium Kendali Otomatis
Automatic Control Laboratory
- Laboratorium Uji Bahan
Material Test Laboratory
- Laboratorium CNC & 3D Printing
CNC and 3D Printing Laboratory
- Laboratorium Manufaktur Kereta Api
Rollingstock Manufacturing Laboratory
- Laboratorium Propulsi Kereta Api
Rollingstock Propulsion Laboratory
- Laboratorium Pneumatik & Hidraulik
Pneumatic and Hydraulics Laboratory
- Laboratorium Dinamika Getaran & Dinamika Boge
Vibration Dynamics and Rouge Dynamics Laboratory

Lantai 2 Peruntukan Ruang Kelas dan Lab

Second floor is designed for classrooms and other laboratories

- R. Kuliah
Classroom
- Lab. Pemrograman & Simulasi
Simulation and Programming Laboratory



DOSEN PRODI SARJANA TERAPAN (D-IV) PERKERETAAPIAN

Rollingstock Engineering Lecturer

Dosen Internal *Internal Lecturer*



Mohammad Erik Echsony, S.ST., M.T.
Bidang Keahlian: Desain Instrumen dan Kendali
Expertise Areas: Instrument and control design



Indarto Yuwono, S.T., M.T.
Bidang Keahlian: Rekayasa Konversi Energi
Expertise Areas: Energy Conversion Engineering



Wahyu Pribadi, S.ST., M.T.
Bidang Keahlian: Desain Instrumen dan Kendali
Expertise Areas: Instrument and control design



Adiratna Ciptaningrum, S.T., M.T.
Bidang Keahlian: Computer Science
Expertise Areas: Computer Science



Alfi Tranggono Agus Salim, S.Si., M.T.
Bidang Keahlian: Rekayasa Konversi Energi
Expertise Areas: Energy Conversion Engineering



Agus Susanto, S.Pd., M.T.
Bidang Keahlian: Proses Manufaktur
Expertise Areas: Manufacturing Process



Drs. Dahris Shahab, M.Pd.
Bidang Keahlian: Sistem Pendidikan
Expertise Areas: Education System



R. Akbar Nur Apriyanto, S.Tr.T., M.Tr.T.
Bidang Keahlian: Elektronika
Expertise Areas: Electronics



Rahayu Mekar Bisono, S.ST., M.T.
Bidang Keahlian: Rekayasa Manufaktur
Expertise Areas: Manufacturing Process



R. Gaguk Pratama Yudha, S.ST., M.T.
Bidang Keahlian: Elektronika
Expertise Areas: Electronics



Wida Yuliar Rezika, S.T., M.Sc.
Bidang Keahlian: Sistem & Manajemen Transportasi
Expertise Areas: Transportation Systems & Management



Darma Alif Wicaksono, M.T.
Bidang Keahlian: Elektronika
Expertise Areas: Electronics



Dosen Kalangan Praktisi dari Industri (PT. INKA) *Practitioner Lecturer from Industry (PT. INKA)*



Agung Sedaju, S.T., M.T.

Bidang Keahlian:
Manufaktur Perkeretapiian
Expertise Areas:
Rollingstocks Manufacture



Sukoroto, S.T., M.MT.

Bidang Keahlian:
Manufaktur Perkeretapiian
Expertise Areas:
Rollingstocks Manufacture



Amron Baiturrozaq, S.T.

Bidang Keahlian:
Teknik Elektro
Expertise Areas:
Electrical Engineering



Toto Isdarto, S.T.

Bidang Keahlian:
Teknik Mesin
Expertise Areas:
Mechanical Engineering



Yanto, S.T.

Bidang Keahlian:
Teknik Elektro
Expertise Areas:
Electrical Engineering

KURIKULUM

Curriculum

Mata kuliah pembentuk kurikulum pada Program Studi D-IV Perkeretaapian terdiri dari mata kuliah teori dan praktik. Total SKS yang ditempuh mahasiswa adalah 147 SKS dengan sebaran mata kuliah sebagai berikut :

Curriculum forming courses in the D-IV Rollingstock Engineering Study Program consist of theoretical and practical courses. The total credits taken by students are 147 credits with the courses distribution as follows :

Semester 1

2 SKS	Bahasa Inggris <i>English</i>	3 SKS	Konstruksi Kereta Api <i>Rollingstock Construction</i>
2 SKS	Aljabar dan Trigonometri <i>Algebra and Trigonometry</i>	2 SKS	Keselamatan dan Kesehatan Kerja <i>Occupational Health and Safety</i>
3 SKS	Infrastruktur Perkeretaapian <i>Rollingstock Infrastructure</i>	2 SKS	Bahasa Pemrograman Komputer <i>Computer Programming</i>
2 SKS	Elektronika Analog <i>Analog Electronics</i>	2 SKS	Agama <i>Religions</i>
2 SKS	Praktikum Gambar Teknik <i>Engineering Drawing Practicum</i>	2 SKS	Pancasila <i>Five Principles</i>

Semester 2

- 2 SKS Praktikum CAD-CAM
CAD-CAM Practicum
- 2 SKS Bahasa Inggris Teknik
English for Engineering
- 2 SKS Aritmatika
Arithmetic
- 2 SKS Analisis Rangkaian Listrik
Electrical Circuit Analysis
- 3 SKS Proses Manufaktur
Manufacturing Process
- 3 SKS Fisika Terapan
Applied Physics
- 2 SKS Praktikum Pemrograman Komputer
Computer Programming Practicum
- 2 SKS Elektronika Digital
Digital Electronics
- 2 SKS Statistik dan Probabilitas
Statistics and Probability
- 2 SKS Sensor dan Aktuator
Sensors and Actuators

Semester 3

- 2 SKS Praktikum Proses Manufaktur
Manufacturing Process Practicum
- 2 SKS Praktikum Analisis Rangkaian Listrik
Electrical Circuit Analysis Practicum
- 2 SKS Praktikum Elektronika
Electronics Practicum
- 2 SKS Praktikum Sensor dan Akuator
Sensors and Actuators Practicum
- 2 SKS Kalkulus
Calculus
- 2 SKS Sistem Kendali Otomatis
Automatic Control System
- 3 SKS Statika dan Dinamika Teknik
Engineering Statics and Dynamics
- 3 SKS Motor Diesel
Diesel Engine
- 2 SKS Praktikum Gambar Komponen Kereta Api
Rollingstock Component Drawing Practicum

Semester 4

- 3 SKS Elemen Mesin
Machining Elements
- 2 SKS Praktikum Motor Diesel
Diesel Engine Practicum
- 2 SKS Mikroprosesor dan Mikrokontroler
Microprocessor and Microcontroller
- 2 SKS Praktikum Sistem Kendali Otomatis
Automatic Control System Practicum
- 3 SKS Ilmu Bahan
Material Knowledge
- 2 SKS Mesin Listrik
Electrical Machine
- 2 SKS Praktikum Mesin Listrik
Electrical Machine Practicum
- 2 SKS Sistem Proteksi
Protection Systems
- 3 SKS Teknologi Pengelasan
Welding Technology
- 3 SKS Pengendalian Kualitas
Quality Control

Semester 5

- 3 SKS Pneumatik dan Hidraulik
Pneumatic and Hydraulic
- 3 SKS Kontrol Cerdas
Intelligent Control
- 3 SKS Mekanika Getaran
Vibration Mechanics
- 2 SKS Praktikum Perancangan Elemen Kereta
Rollingstock Element Design Practicum
- 2 SKS Manajemen Operasional Produksi Kereta Api
Rollingstock Production Operational Management
- 2 SKS Sistem Manufaktur Kereta Api
Manufacturing System
- 2 SKS Gambar Desain Kelistrikan Kereta Api
Rollingstock Electrical Design Drawing
- 3 SKS Sistem Daya Listrik Kereta Api
System of Rollingstock Electrical Power
- 3 SKS Pemodelan dan Simulasi
Modelling and Simulation

Semester 6

8 SKS Program Magang
Internship Program

Semester 7

2 SKS Praktikum Mikroprosesor dan Mikrokontroler
Microprocessor and Microcontroller Practicum

2 SKS Praktikum Troubleshooting PLC
Troubleshooting PLC Practicum

2 SKS Praktikum Pneumatik dan Hidraulik
Pneumatic and Hydraulics Practicum

2 SKS Metodologi Penelitian
Research Methodology

2 SKS Praktikum Kontrol Cerdas
Intelligent Control Practicum

2 SKS Manajemen Pemeliharaan Kereta Api
Rollingstock Maintenance Management

2 SKS Praktikum Mekanika Getaran dan Dinamika Bogie
Vibration Mechanics and Bogie Dynamics Practicum

2 SKS Praktikum Bahan
Material Practicum

Semester 8

2 SKS Bahasa Indonesia
Bahasa Indonesia

2 SKS Kewirausahaan
Entrepreneurship

2 SKS Kewarganegaraan
Citizenship

6 SKS Tugas Akhir
Final Project

KEGIATAN PERKULIAHAN PRODI SARJANA TERAPAN (D-IV) PERKERETAAPIAN

Rollingstock Engineering Lecturing Activity



Pelaksanaan Kuliah oleh Dosen Internal PNM untuk Mata Kuliah Praktikum

The lecturing implementation by PNM Internal lecturers

Pelaksanaan Kuliah oleh Dosen dari PT. INKA untuk Kelas Teori di Laboratorium Vokasi PT INKA

Lecturing implementation by lecturers from PT. INKA for theoretical classes conducted at PT. INKA vocational Laboratory



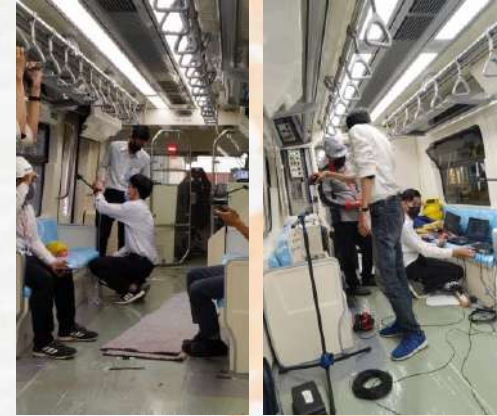
Pelaksanaan Kuliah di Lab Vokasi PT. INKA Kelas Praktik

Lecturing implementation in PT. INKA vocational laboratory, practical class



**Penjelasan K3
Terkait Kuliah
lapangan PT. INKA**
*The explanation of
K3 related to field
lecture at PT. INKA.*

Kuliah lapangan PT. INKA di Area Test Track
PT. INKA field lectures in the test track area



Kegiatan Magang
Internship Program



**Pengenalan
terkait Rel
& Wesel
Kereta Api**
*Introduction
to rail and
rollingstock
switch*



KEGIATAN PENGEMBANGAN MAHASISWA

Student Development Activities

Kegiatan pengembangan mahasiswa terdiri dari kegiatan pengembangan di bidang akademik yang menunjang perkuliahan maupun kegiatan non-akademik yang memberikan soft-skill tambahan. Beberapa kegiatan pengembangan mahasiswa tersebut di antaranya sebagai berikut:

- Webinar series mata kuliah Teknologi Pengelasan dan Fisika Terapan.
- Terlibat dalam kegiatan penelitian dengan dosen.

Student development activities consist of elaboration activities in academic field that support academic and non-academic exercise that provide additional soft-skills. Some of the student development activities are as follow:

- Webinar series for Welding Technology and Applied Physics.*
- Involved in research activities with lecturers.*



- Program mobilitas internasional (IISMAVO) untuk belajar ke universitas/instansi luar negeri.
 - Kegiatan PkM (Pengabdian kepada Masyarakat) yang turut mengoptimalkan peran aktif mahasiswa untuk ikut serta dalam kontribusi nyata membantu masyarakat.
 - Kegiatan P2MD (Program Pemberdayaan Masyarakat Desa).
 - Kegiatan PKM (Program Kreativitas Mahasiswa)
 - HIMA-TKA atau Himpunan Mahasiswa Teknik Perkeretaapian yang mewadahi mahasiswa untuk mengasah skill kepemimpinan dan berorganisasi.
- *International mobility program (IISMAVO) to study at universities/ agencies abroad.*
 - *PkM (Community Service) activities that help optimize the active role of students to participate in real contributions to help the community.*
 - *P2MD (Village Community Empowerment Program) activities.*
 - *PKM Activities (Student Creativity Program)*
 - *HIMA-TKA or Rollingstock Engineering Student Association which accommodates students to hone leadership and organizational skills.*

PRESTASI MAHASISWA

Students' Achievement

2020

- Juara Harapan 1 Lomba Inovasi Teknologi Pemerintah Kabupaten Magetan Tahun 2020
3rd Runner Up Of Technology Innovation Competition, Magetan Regency in 2020
- Juara 1 Lomba Desain Poster Nasional - Politeknik Negeri Padang
The winner of National Poster Design Competition, State Polytechnic of Padang
- Juara 1 Lomba Desain Poster Nasional - Universitas Sriwijaya
The winner of National Poster Design Competition, Sriwijaya University
- Juara 1 Lomba Desain Poster Nasional - Universitas Trilogi Jakarta
The winner of National Poster Design Competition, Trilogi Jakarta University
- Juara 1 PODCAST - SEMARAK PGSD 2022 UNIVERSITAS MULAWARMAN
The winner of PODCAST - SEMARAK PGSD 2022, Mulawarman University
- Juara 1 SPEECH CONTEST ENGLIS EXPO
The winner of Speech Contest English Expo
- Juara 1 Lomba Poster Kesehatan RSUD Bangil
The winner of Health Poster Competition, BANGIL Regional Hospital





2021

- Juara 1 Lomba Essay Ilmiah Sub Tema Industrial And Green Technology
The winner of Scientific Essay Competition Sub Theme Industrial And Green Technology: Smart Innovation and Ideas for Indonesia Transformation in Pandemic Era
- Juara 2 Lomba Poster Ilmiah Sub Tema Industrial And Green Technology
1st Runner Up of Scientific Poster Competition Sub Theme Industrial And Green Technology: Smart Innovation and Ideas for Indonesia Transformation in Pandemic Era
- Juara 1 Essay Competition Peduli Lingkungan PGSD UNJ 2021
The winner of Environmental Caring Essay Competition, PGSD UNJ 2021
- Juara 2 KMIPN di Bidang TIK - Politeknik Negeri Malang
1st Runner Up of KMIPN at TIK Field - State Polytechnic of Malang

- Juara 3 VOCAL SOLO SHARIA
ECONOMIC LAW FAIR UIN JAKARTA
*2nd Runner Up of Solo Vocal SHARIA
ECONOMIC LAW FAIR UIN JAKARTA*
- Juara 1 E-Open Tournament “SABURAI
CUP XII” (Taekwondo) Pomsae
Pasangan Senior
*The Winner of E-Open Tournament
“SABURAI CUP XII” (Taekwondo)
Pomsae Senior Couple*
- Juara 2 E-Open Tournament “SABURAI
CUP XII” (Taekwondo) Pomsae Beregu
Senior
*1st Runner Up of E-Open Tournament
“SABURAI CUP XII” (Taekwondo)
Pomsae Seniouir Grouping*

2022

- Duta Persahabatan PNM 2022/2023
PNM Friendship Ambassadors 2022/2023
- Lolos Seleksi Program IISMAVO Tahun
2022 ke Bachelor of Technology in
Industrial Machining, University of
Malaysia Pahang.
*Pass The IISMAVO Program Selection
in 2022 to the Bachelor of Technology
in Industrial Machining, University of
Malaysia Pahang*
- Lolos PKM-RE. Judul: Efektivitas Distribusi
Udara Pendingin Reefer Container
Ikan Pada Kereta Api Menggunakan
Computational Fluid Dynamics.
*Pass PKM-RE. Title: The Effectiveness
of Fish Reefer Container Cooling
Air Distribution on Trains Using
Computational Fluid Dynamics.*

- Juara 3 Pencak Silat Kelas C (>55 - 60Kg)
Putri Porseni Politeknik XIII Banjarmasin 2022
2nd Runner Up of Martial Art C Class (>55 - 60 kilograms) Putri Porseni Politeknik XIII Banjarmasin 2022
- Juara 3 Pencak Silat Kelas B (>50 - 55Kg)
Putra Porseni Politeknik XIII Banjarmasin 2022
2nd Runner Up of Martial Art B Class (>50-55 kilograms) Putra Porseni Politeknik XIII Banjarmasin 2022
- Juara 3 Taekwondo Pomsae Individu Putri Porseni Politeknik XIII Banjarmasin 2022
2nd Runner Up of Individual Taekwondo Pomsae Putri Porseni Politeknik XIII Banjarmasin 2022
- Juara 3 Taekwondo Pomsae Beregu Putri Porseni Politeknik XIII Banjarmasin 2022
2nd Runner Up of Grouping Taekwondo Pomsae Putri Porseni Politeknik XIII Banjarmasin 2022
- Juara 2 Taekwondo Under 68 Kg Putra Porseni Politeknik XIII Banjarmasin 2022
1st Runner Up of Taekwondo Under 68Kg Putra Porseni Politeknik XIII Banjarmasin 2022



KERJA SAMA

Cooperation

Sebagai sarana pengembangan keilmuan, Prodi Sarjana Terapan (D-IV) Perkeretaapian membentuk kerja sama dengan PT. INKA yang bergerak di bidang pengajaran dan magang industri. Kolaborasi tersebut berperan penting guna menjaga keselarasan kurikulum. Proses pembentukan iklim industri di lingkungan kampus pun akan lebih mudah sehingga kurikulum dan kompetensi lulusan dapat terus terjaga.

As a means of scientific development, Applied Bachelor (D-IV) of Rollingstock Engineering Study Program forms a partnership with PT. INKA which is engaged in teaching and joining industrial internships. This collaboration plays an important role in maintaining curriculum alignment. The process of establishing an industrial climate in the campus environment will also be easier so that the curriculum and the graduates' competence can be maintained.





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