LAPORAN
PENGALAMATAN IP ADDRESS
GEDUNG AJ (BENGKEL PRODI TEKNIK ELEKTRONIKA)
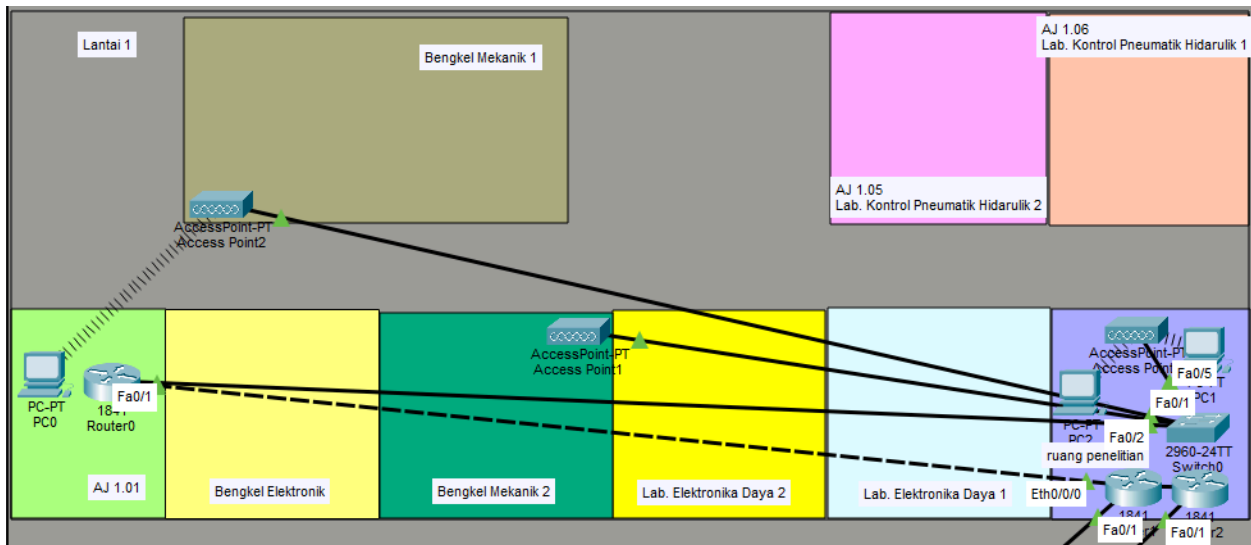**PRAKTIKUM JARINGAN KOMPUTER**

Disusun oleh:
Kelompok 6
Ailsa Sahda Garizah   244107060006
Marsya Zulfa Zahrani   244107060005
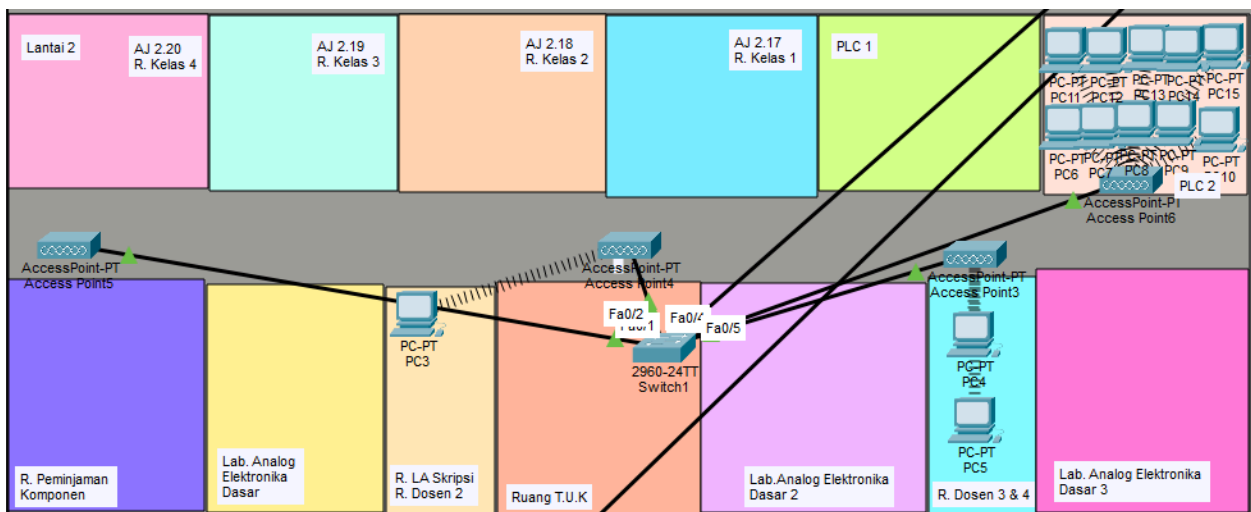Much. Nabil Haikal W.   2341760152

POLITEKNIK NEGERI MALANG
JURUSAN TEKNOLOGI INFORMASI
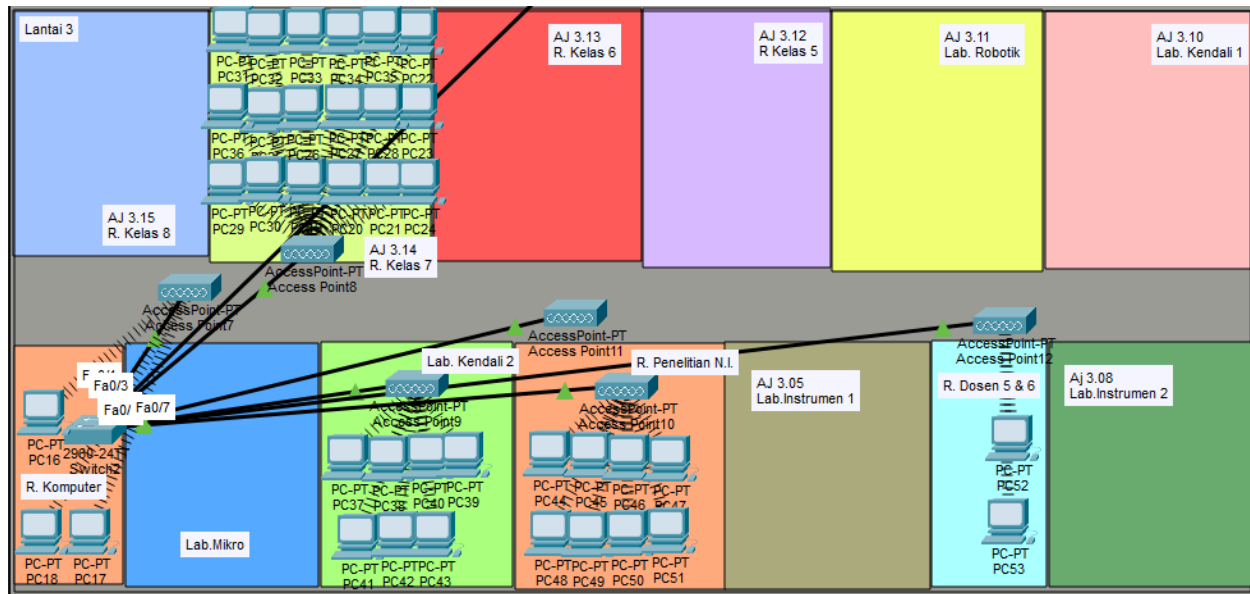**PROGRAM STUDI SISTEM INFORMASI BISNIS**
2025

Lantai 1

- 3 PC
- 3 Router di lantai 1
- 3 Access Point
- 1 Switch

Lantai 2

- 4 Access Point
- 13 PC
- 1 Switch

Lantai 3

- 6 Access Point
- 38 PC
- 1 Switch

Tabel Perhitungan IP Address Komputer

Router

Room	Ip Address	Subnet Mask	Prefix
R.Penelitian Dosen (R0)	10.10.1.1	255.255.255.0	/24
R. Penelitian Dosen (R1)	10.10.2.1	255.255.255.0	/24
R. Penelitian Dosen (R1)	10.10.1.2	255.255.255.0	/24
R. Penelitian Dosen (R2)	10.10.2.2	255.255.255.0	/24

Lantai 1

Room	Host Range	Subnet Mask	Prefix	Gateway	Broadcast	Network
AJ 1.01	192.168.11.194 - 192.168.11.206	255.255.255.240	/28	192.168.11.193	192.168.11.207	192.168.11.192
R. Penelitian Dosen	192.168.11.210 - 192.168.11.222	255.255.255.240	/28	192.168.11.209	192.168.11.223	192.168.11.208

Lantai 2

Room	Host Range	Subnet Mask	Prefix	Gateway	Broadcast	Network
R. Peminjaman Komponen dan R. Dosen 2	192.168.14.2 - 192.168.14.14	255.255.255.240	/28	192.168.14.1	192.168.14.15	192.168.14.0
R. Dosen 3 dan R. Dosen 4	192.168.14.18 - 192.168.14.30	255.255.255.240	/28	192.168.14.17	192.168.14.31	192.168.14.16
PLC 2	192.168.13.66 - 192.168.13.126	255.255.255.192	/26	192.168.13.65	192.168.13.127	192.168.13.64

Lantai 3

Room	Host Range	Subnet Mask	Prefix	Gateway	Broadcast	Network
AJ 3.14 R. Kelas 7	192.168.14.98 - 192.168.14.158	255.255.255.192	/26	192.168.14.97	192.168.14.159	192.168.14.96
R. Komputer	192.168.16.194 - 192.168.16.206	255.255.255.240	/28	192.168.16.193	192.168.16.207	192.168.16.192
Lab.Kendali 2	192.168.15.194 - 192.168.15.254	255.255.255.192	/26	192.168.15.193	192.168.15.255	192.168.15.192
R.Penelitian N.I	192.168.16.2 - 192.168.16.62	255.255.255.192	/26	192.168.16.1	192.168.16.63	192.168.16.0
R. Dosen 5 & R. Dosen 6	192.168.16.210 - 192.168.16.222	255.255.255.240	/28	192.168.16.209	192.168.16.223	192.168.16.208

Tabel Perhitungan IP Address Per Ruangan
Lantai 1

Room	Host Range	Subnet Mask	Prefix	Gateway	Broadcast	Network
Bengkel Elektronik	192.168.10.2 - 192.168.10.62	255.255.255.192	/26	192.168.10.1	192.168.10.63	192.168.10.0
Bengkel Mekanik 1	192.168.10.66 - 192.168.10.126	255.255.255.192	/26	192.168.10.65	192.168.10.127	192.168.10.64
Bengkel Mekanik 2	192.168.10.130 - 192.168.10.190	255.255.255.192	/26	192.168.10.129	192.168.10.191	192.168.10.128
Lab. Elektronika Daya 2	192.168.10.194 - 192.168.10.254	255.255.255.192	/26	192.168.10.193	192.168.10.255	192.168.10.192
Lab. Elektronika Daya 1	192.168.11.2 - 192.168.11.62	255.255.255.192	/26	192.168.11.1	192.168.11.63	192.168.11.0
Lab. Kontrol Pneumatik Hidarulik 1	192.168.11.66 - 192.168.11.126	255.255.255.192	/26	192.168.11.65	192.168.11.127	192.168.11.64
Lab. Kontrol Pneumatik Hidarulik 2	192.168.11.130 - 192.168.11.190	255.255.255.192	/26	192.168.11.129	192.168.11.191	192.168.11.128
AJ 1.01	192.168.11.194 - 192.168.11.206	255.255.255.240	/28	192.168.11.193	192.168.11.207	192.168.11.192
R. Penelitian	192.168.11.210 -	255.255.255.240	/28	192.168.11.209	192.168.11.223	192.168.11.208

Dosen	192.168.11.2 22					

Lantai 2

Room	Host Range	Subnet Mask	Prefix	Gateway	Broadcast	Network
R. Kelas 4	192.168.12.2 - 192.168.12.62	255.255.255. 192	/26	192.168.12.1	192.168.12.6 3	192.168.12.0
R. Kelas 3	192.168.12.66 - 192.168.12.12 6	255.255.255. 192	/26	192.168.12.6 5	192.168.12.1 27	192.168.12.6 4
R. Kelas 2	192.168.12.13 0 - 192.168.12.19 0	255.255.255. 192	/26	192.168.12.1 29	192.168.12.1 91	192.168.12.1 28
R. Kelas 1	192.168.12.19 4 - 192.168.12.25 4	255.255.255. 192	/26	192.168.12.1 93	192.168.12.2 55	192.168.12.1 92
PLC 1	192.168.13.2 - 192.168.13.62	255.255.255. 192	/26	192.168.13.1	192.168.13.6 3	192.168.13.0
PLC 2	192.168.13.66 - 192.168.13.12 6	255.255.255. 192	/26	192.168.13.6 5	192.168.13.1 27	192.168.13.6 4
Lab. Analog Elektronika Dasar	192.168.13.13 0 - 192.168.13.19 0	255.255.255. 192	/26	192.168.13.1 29	192.168.13.1 91	192.168.13.1 28
Lab. Analog Elektronika Dasar	192.168.13.19 4 - 192.168.13.25 4	255.255.255. 192	/26	192.168.13.1 93	192.168.13.2 55	192.168.13.1 92
R.	192.168.14.2	255.255.255.	/28	192.168.14.1	192.168.14.1	192.168.14.0

Room	Host Range	Subnet Mask	Prefix	Gateway	Broadcast	Network
Peminjaman Komponen dan R. Dosen 2	- 192.168.14.14	240			5	
R. Dosen 3 dan R. Dosen 4	192.168.14.18 - 192.168.14.30	255.255.255.240	/28	192.168.14.17	192.168.14.31	192.168.14.16

Lantai 3

Room	Host Range	Subnet Mask	Prefix	Gateway	Broadcast	Network
AJ 3.15 R. Kelas 8	192.168.14.34 - 192.168.14.94	255.255.255.192	/26	192.168.14.33	192.168.14.95	192.168.14.32
AJ 3.14 R. Kelas 7	192.168.14.98 - 192.168.14.158	255.255.255.192	/26	192.168.14.97	192.168.14.159	192.168.14.96
AJ 3.13 R. Kelas 6	192.168.14.162 - 192.168.14.222	255.255.255.192	/26	192.168.14.161	192.168.14.223	192.168.14.160
AJ 3.12 R. Kelas 5	192.168.14.226 - 192.168.14.286	255.255.255.192	/26	192.168.14.225	192.168.14.287	192.168.14.224
AJ 3.11 Lab. Robotik	192.168.15.2 - 192.168.15.62	255.255.255.192	/26	192.168.15.1	192.168.15.63	192.168.15.0
AJ 3.10 Lab. Kendali 1	192.168.15.66 - 192.168.15.126	255.255.255.192	/26	192.168.15.65	192.168.15.127	192.168.15.64
Lab. Mikro	192.168.15.130 - 192.168.15.190	255.255.255.192	/26	192.168.15.129	192.168.15.191	192.168.15.128

Lab.Kendali 2	192.168.15.194 - 192.168.15.254	255.255.255.192	/26	192.168.15.193	192.168.15.255	192.168.15.192
R.Penelitian N.I	192.168.16.2 - 192.168.16.62	255.255.255.192	/26	192.168.16.1	192.168.16.63	192.168.16.0
AJ 3.05 Lab. Instrumen 1	192.168.16.66 - 192.168.16.126	255.255.255.192	/26	192.168.16.65	192.168.16.127	192.168.16.64
AJ 3.08 Lab. Instrumen 2	192.168.16.130 - 192.168.16.190	255.255.255.192	/26	192.168.16.129	192.168.16.191	192.168.16.128
R. Komputer	192.168.16.194 - 192.168.16.206	255.255.255.240	/28	192.168.16.193	192.168.16.207	192.168.16.192
R. Dosen 5 & R. Dosen 6	192.168.16.210 - 192.168.16.222	255.255.255.240	/28	192.168.16.209	192.168.16.223	192.168.16.208