

**FORMULIR RENCANA STUDI**

S2 TEKNIK ELEKTRO
PROGRAM PASCASARJANA MAGISTER TERAPAN
POLITEKNIK ELEKTRONIKA NEGERI SURABAYA

Persetujuan Dosen Pembimbing Utama,

Koordinator Prodi S2 Teknik Elektro

Nama : Tahun Ajaran : 2015/2016
 NRP : Semester : Genap
 Tahun Masuk : No. Terbit : 03 / 15.02.16

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Alridjajis, S.T., M.T., Ph.D.

| SEMESTER 1 | | | | | | | ✓ |
|------------|----------|--|-----------|---------|-----------|---------|---|
| No | No. Kode | Mata Kuliah | Kredit | | Jam | | |
| | | | Teori | Praktek | Teori | Praktek | |
| 1 | VE201101 | Advanced Mathematics | 2 | | 2 | | |
| 2 | VE201102 | Signals and Systems | 2 | | 2 | | |
| 3 | VE201103 | Research Methodology and Scientific Writing | 2 | | 2 | | |
| 4 | VE201104 | Algorithm & Programming | | 1 | | 3 | |
| 5 | VE201301 | Proposal Tesis | | 1 | | 3 | |
| 6 | VE201201 | Instrumentation and Measurement System | 2 | | 2 | | |
| 7 | VE201202 | Praktikum Instrumentation and Measurement System | | 1 | | 3 | |
| 8 | | Mata Kuliah Pilihan 1 | 2 | | 2 | | |
| 9 | | Praktikum Mata Kuliah Pilihan 1 | | 1 | | 3 | |
| | | | 10 | 4 | 10 | 12 | |
| | | JUMLAH | 14 | | 22 | | |

| SEMESTER 2 | | | | | | | ✓ |
|------------|----------|---|-----------|---------|-----------|---------|---|
| No | No. Kode | Mata Kuliah | Kredit | | Jam | | |
| | | | Teori | Praktek | Teori | Praktek | |
| 1 | VE202101 | Standardization and Intellectual Property | 2 | | 2 | | |
| 2 | VE202301 | Progres Tesis 1 | | 2 | | 6 | |
| 3 | VE202201 | Advanced Sensor and Actuator | 2 | | 2 | | |
| 4 | VE202202 | Praktikum Advanced Sensor and Actuator | | 1 | | 3 | |
| 5 | VE202203 | Advanced Communication | 2 | | 2 | | |
| 6 | VE202204 | Praktikum Advanced Communication | | 1 | | 3 | |
| 7 | | Mata Kuliah Pilihan 2 | 2 | | 2 | | |
| 8 | | Praktikum Mata Kuliah Pilihan 2 | | 1 | | 3 | |
| | | | 8 | 5 | 8 | 15 | |
| | | JUMLAH | 13 | | 23 | | |

| SEMESTER 3 | | | | | | | ✓ |
|------------|----------|--|-----------|---------|-----------|---------|---|
| No | No. Kode | Mata Kuliah | Kredit | | Jam | | |
| | | | Teori | Praktek | Teori | Praktek | |
| 1 | VE203301 | Progres Tesis 2 | | 2 | | 6 | |
| 2 | VE203201 | Mechatronics & Industrial Automation | 2 | | 2 | | |
| 3 | VE203202 | Praktikum Mechatronics & Industrial Automation | | 1 | | 3 | |
| 4 | | Mata Kuliah Pilihan 3 | 2 | | 2 | | |
| 5 | | Praktikum Mata Kuliah Pilihan 3 | | 1 | | 3 | |
| | | Mata Kuliah Pilihan 4 | 2 | | 2 | | |
| 6 | | Praktikum Mata Kuliah Pilihan 4 | | 1 | | 3 | |
| | | | 6 | 5 | 6 | 15 | |
| | | JUMLAH | 11 | | 21 | | |

| SEMESTER 4 | | | | | | | ✓ |
|------------|----------|---------------|----------|---------|-----------|---------|---|
| No | No. Kode | Mata Kuliah | Kredit | | Jam | | |
| | | | Teori | Praktek | Teori | Praktek | |
| 1 | VE204301 | Tesis Akhir | | 6 | | 18 | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| | | | 0 | 6 | 0 | 18 | |
| | | JUMLAH | 6 | | 18 | | |

Mata Kuliah Pilihan yang ditawarkan

| Kode | Mata Kuliah | Semester | Kredit | | Jam | | ✓ |
|----------|--|----------|--------|---------|-------|---------|---|
| | | | Teori | Praktek | Teori | Praktek | |
| VE200005 | Advanced Electronic Devices | 2 | 2 | | 2 | | |
| VE200006 | Praktikum Advanced Electronic Devices | 2 | | 1 | | 3 | |
| VE200009 | Applied Power Electronic | 2 | 2 | | 2 | | |
| VE200010 | Praktikum Applied Power Electronic | 2 | | 1 | | 3 | |
| VE200015 | Dynamic Control System | 2 | 2 | | 2 | | |
| VE200016 | Praktikum Dynamic Control System | 2 | | 1 | | 3 | |
| VE200027 | Advanced Electric Machine | 2 | 2 | | 2 | | |
| VE200028 | Praktikum Advanced Electric Machine | 2 | | 1 | | 3 | |
| VE200029 | Probability and Random Process | 2 | 2 | | 2 | | |
| VE200030 | Praktikum Probability and Random Process | 2 | | 1 | | 3 | |
| VE200033 | Kinematika Robot | 2 | 2 | | 2 | | |
| VE200034 | Praktikum Kinematika Robot | 2 | | 1 | | 3 | |
| VE200035 | Intelligent Control | 2 | 2 | | 2 | | |
| VE200036 | Praktikum Intelligent Control | 2 | | 1 | | 3 | |
| VE200041 | Medical Instrumentation | 2 | 2 | | 2 | | |
| VE200042 | Praktikum Medical Instrumentation | 2 | | 1 | | 3 | |
| VI200005 | Knowledge Discovery | 2 | 2 | | 2 | | |
| VI200006 | Praktikum Knowledge Discovery | 2 | | 1 | | 3 | |
| VI200009 | Web Design and Service Engineering | 2 | 2 | | 2 | | |
| VI200010 | Praktikum Web Design and Service Engineering | 2 | | 1 | | 3 | |
| VI200025 | Cross-Cultural Communication | 2 | 2 | | 2 | | |
| VI200026 | Praktikum Cross-Cultural Communication | 2 | | 1 | | 3 | |
| VI200027 | Medical Image Processing | 2 | 2 | | 2 | | |
| VI200028 | Praktikum Medical Image Processing | 2 | | 1 | | 3 | |
| VI200029 | Internet of Things | 2 | 2 | | 2 | | |
| VI200030 | Praktikum Internet of Things | 2 | | 1 | | 3 | |
| VI200031 | Cyber-Physical-Human Systems | 2 | 2 | | 2 | | |
| VI200032 | Praktikum Cyber-Physical-Human Systems | 2 | | 1 | | 3 | |
| VI200033 | Bioinformatics | 2 | 2 | | 2 | | |
| VI200034 | Praktikum Bioinformatics | 2 | | 1 | | 3 | |
| VI200035 | Evolutionary Computing | 2 | 2 | | 2 | | |
| VI200036 | Praktikum Evolutionary Computing | 2 | | 1 | | 3 | |