

MAGISTER TEKNIK ELEKTRO



Akreditasi A



Visi Program Magister Teknik Elektro

Menjadi pusat unggulan dalam penyelenggaraan Pendidikan Program Magister Teknik Elektro dengan konsentrasi Teknik Telekomunikasi khususnya dalam bidang komunikasi Nirkabel, Rekayasa Jaringan serta Regulasi dan Manajemen Telekomunikasi, dalam lingkup nasional dan Internasional.



Misi Program Magister Teknik Elektro

1. Menyelenggarakan dan menyebarluaskan pendidikan Program Magister berstandar Internasional dalam bidang telekomunikasi, khususnya bidang Sistem Komunikasi Nirkabel, Rekayasa Jaringan dan dalam bidang regulasi dan manajemen telekomunikasi;
2. Menciptakan lingkungan akademik yang kondusif serta proses belajar mengajar yang tertata dan berkualitas sehingga mengoptimalkan potensi dan kreatifitas seluruh sivitas akademik;
3. Melakukan kegiatan penelitian dan mengembangkan inovasi dalam bidang Telekomunikasi baik secara mandiri maupun kerja sama dengan industri dalam dan luar negeri;
4. Memanfaatkan teknologi Telekomunikasi untuk kesejahteraan dan kemajuan masyarakat

Persyaratan Khusus:

1. Lulusan : Teknik Telekomunikasi, Teknik Elektro, Teknik Fisika, Sistem Komputer, Teknik Informatika, Ilmu Komputasi, Fisika, Matematika.
2. Wawancara

Persyaratan Umum:

1. TPA Bappenas $\geq 450^*$
2. EPRT $\geq 450^*$ / TOEFL-ITP $\geq 450^*$
3. Tes Potensi Keahlian (TPK) [Khusus Prodi Teknik]
4. Rekomendasi Akademik/ Perusahaan
5. Proposal Rencana Thesis

Ket: *disertai sertifikat



PEMINATAN WIRELESS COMMUNICATION

Semester 1

MATA KULIAH	SKS
- Information Theory and Coding	3
- Stochastic Processes	3
- Advanced Digital Communication Systems	3
- Research Methodology	3
- ICT Regulation	2

Semester 2

MATA KULIAH	SKS
- Advanced Digital Signal Processing & Application	3
- Pre-Thesis	2
- Advanced Wireless Communications	3
- ICT Business and Management	2
- Engineering Elective (Major)	3

Semester 3

MATA KULIAH	SKS
- Thesis Proposal	3
- Engineering Elective (Mayor)	3
- Engineering Elective (Minor)	3

Semester 4

MATA KULIAH	SKS
- Thesis	4
- Seminar	2
- Publication	3

Total SKS : 45 SKS

PEMINATAN NETWORK & CYBER SECURITY (NCS)

Semester 1

MATA KULIAH	SKS
- Information Theory and Coding	3
- Advanced Network Security	3
- Telecom Networks and Performance	3
- Research Methodology	3
- ICT Regulation	2

Semester 2

MATA KULIAH	SKS
- Data Networks and Protocols	3
- Pre-Thesis	2
- Network Mathematics	3
- ICT Business and Management	2
- Cyber Security	3

Semester 3

MATA KULIAH	SKS
- Thesis Proposal	3
- Security for Internet of Things (IoT)	3
- Engineering Elective (Minor)	3

Semester 4

MATA KULIAH	SKS
- Thesis	4
- Seminar	2
- Publication	3

Total SKS : 45 SKS

PEMINATAN REGULATIONS & MANAGEMENT OF TELECOMMUNICATIONS

Semester 1

MATA KULIAH	SKS
- Fundamentals of Telecommunication Regulation	3
- Broadband Communication Networks	3
- Applied Mathematics	3
- Research Methodology	3
- Management of Technology	2

Semester 2

MATA KULIAH	SKS
- Telecom Network & Performance	3
- Pre Thesis	3
- Regulation of Telecommunications Delivery	2
- Telecommunication Business and Management	2
- Regulation of Telecommunication Resources	2
- Engineering Elective (Major)	3

Semester 3

MATA KULIAH	SKS
- Thesis Proposal	3
- Engineering Elective	3
- ICT Regulation and Standar	2

Semester 4

MATA KULIAH	SKS
- Thesis	9

Total SKS : 45 SKS

PEMINATAN CONTROL ENGINEERING & ELECTRONICS

Semester 1

MATA KULIAH	SKS
- Stochastic Processes	3
- Research Methodology	3
- Linear Systems	3
- Embedded Systems	3
- Modelling and System Identifications	2

Semester 2

MATA KULIAH	SKS
- Advanced Robotics	3
- Pre-Thesis	2
- Expert Systems	3
- ICT Business and Management	2
- Engineering Elective (Major)	3

Semester 3

MATA KULIAH	SKS
- Thesis Proposal	3
- Engineering Elective I	3
- Engineering Elective II	3

Semester 4

MATA KULIAH	SKS
- Thesis	4
- Seminar	2
- Publication	3

Total SKS : 45 SKS