

UNIVERSITAS MEDAN AREA

KURIKULUM PENDIDIKAN TINGGI MENGACU KKNI DAN SNPT TAHUN 2019 FAKULTAS TEKNIK PRODI INFORMATIKA

| SEMESTER I | | | |
|-------------------|-----------|------------------------------------|-----------|
| No. | Kode | Mata Kuliah | sks |
| 1 | UMA10001 | Pendidikan Agama | 2 |
| 2 | UMA10002P | Responsi Pendidikan Agama | 2 |
| 3 | UMA10004 | Bahasa Indonesia | 3 |
| 4 | UMA10005 | Pengantar Teknologi & Informasi | 2 |
| 5 | UMA10006P | Prakt. Peng. Teknologi & Informasi | 1 |
| 6 | TIF16002 | Fisika Teknik | 2 |
| 7 | TIF16003P | Prakt. Fisika Teknik | 1 |
| 8 | TIF16001 | Kalkulus I | 3 |
| 9 | TIF16068 | Algoritma dan Pemrograman I | 2 |
| 10 | TIF16069P | Prak. Algoritma dan Pemrograman I | 1 |
| Jumlah SKS | | | 19 |

| SEMESTER II | | | |
|-------------------|-----------|--------------------------------------|-----------|
| No. | Kode | Mata Kuliah | sks |
| 1 | TIF16006 | English for Informatic Engineering | 2 |
| 2 | TIF16007P | Practice English for Informatic Eng. | 1 |
| 3 | TIF16008 | Kalkulus II | 3 |
| 4 | TIF16009 | Logika Informatika | 3 |
| 5 | TIF16071 | Algoritma dan Pemrograman II | 2 |
| 6 | TIF16072P | Prak. Algoritma dan Pemrograman II | 1 |
| 7 | TIF16073 | Internet dan Bisnis ICT | 2 |
| 8 | TIF16013 | Matriks dan Ruang Vektor | 3 |
| 9 | TIF16015 | Arsitektur & Organisasi Komputer | 3 |
| Jumlah SKS | | | 20 |

| SEMESTER III | | | |
|-------------------|-----------|--------------------------------|-----------|
| No. | Kode | Mata Kuliah | sks |
| 1 | FTK10002 | Statistik | 2 |
| 2 | TIF16014 | Matematika Diskrit | 3 |
| 3 | TIF16074 | Struktur Data | 3 |
| 4 | TIF16075P | Prakt. Struktur Data | 1 |
| 5 | TIF16033 | Interaksi Manusia dan Komputer | 2 |
| 6 | TIF16018 | Sistem Digital | 2 |
| 7 | TIF16019P | Prak. Sistem Digital | 1 |
| 8 | TIF16020 | Basis Data | 2 |
| 9 | TIF16021P | Prak. Basis Data | 1 |
| 10 | UMA10003 | Pendidikan Kewarganegaraan | 3 |
| Jumlah SKS | | | 20 |

| SEMESTER IV | | | |
|-------------------|-----------|--------------------------------------|-----------|
| No. | Kode | Mata Kuliah | sks |
| 1 | TIF16031 | Manajemen Basis Data | 2 |
| 2 | TIF16032P | Prak. Manajemen Basis Data | 1 |
| 3 | TIF16023 | Sistem Operasi | 3 |
| 4 | TIF16024 | Dasar Rekayasa Perangkat Lunak | 3 |
| 5 | TIF16025 | Pemrograman Berorientasi Obyek | 2 |
| 6 | TIF16026P | Prak. Pemrograman Berorientasi Obyek | 1 |
| 7 | TIF16027 | Desain dan Analisis Algoritma | 3 |
| 8 | TIF16034 | Kecerdasan Buatan | 3 |
| 9 | TIF16076P | Prak. Kecerdasan Buatan | 1 |
| 10 | UMA10007 | Kewirausahaan | 2 |
| 11 | UMA10008P | Praktikum Kewirausahaan | 1 |
| Jumlah SKS | | | 22 |

| SEMESTER V | | | |
|-------------------|-----------|----------------------------------|-----------|
| No. | Kode | Mata Kuliah | sks |
| 1 | TIF16029 | Jaringan Komputer | 2 |
| 2 | TIF16030P | Prak. Jaringan Komputer | 1 |
| 3 | TIF16036 | Manajemen Proyek Perangkat Lunak | 2 |
| 4 | TIF16037 | Sistem Informasi | 3 |
| 5 | TIF16044 | Grafika Komputer | 2 |
| 6 | TIF16058 | Sistem Berbasis Pengetahuan | 3 |
| 7 | TIF16077 | Aplikasi Berbasis Web I | 3 |
| 8 | TIF16078P | Prak. Aplikasi Berbasis Web I | 1 |
| 9 | TIF16056 | Jaringan Syaraf Tiruan | 3 |
| 10 | TIF16079P | Prak. Jaringan Syaraf Tiruan | 1 |
| Jumlah SKS | | | 21 |

| SEMESTER VI | | | |
|-------------------|-----------|--|-----------|
| No. | Kode | Mata Kuliah | sks |
| 1 | TIF16038 | Metode Riset | 2 |
| 2 | TIF16035 | Aplikasi Mobile | 3 |
| 3 | TIF16080P | Prak. Aplikasi Mobile | 1 |
| 4 | TIF16066 | Software Engineering: Object Oriented Techniques | 3 |
| 5 | TIF16081 | Aplikasi Berbasis Web II | 3 |
| 6 | TIF16082P | Prak. Aplikasi Berbasis Web II | 1 |
| 7 | TIF16074 | Kriptografi | 3 |
| 8 | TIF16051 | Pengolahan Citra Digital | 3 |
| 9 | TIF16054 | Soft Computing | 3 |
| Jumlah SKS | | | 22 |

| SEMESTER VII | | | |
|-------------------|-----------|------------------------|-----------|
| No. | Kode | Mata Kuliah | sks |
| 1 | FTK10001 | Etika Profesi Teknik | 2 |
| 2 | TIF16047 | Seminar | 2 |
| 3 | TIF16048 | Kerja Praktek | 2 |
| 4 | TIF | Mata Kuliah Pilihan I | 3 |
| 5 | TIF | Mata Kuliah Pilihan II | 3 |
| Jumlah SKS | | | 12 |

| SEMESTER VIII | | | |
|-------------------------|-----------|-------------------------|------------|
| No. | Kode | Mata Kuliah | sks |
| 1 | TIF16050 | Tugas Akhir | 6 |
| 2 | TIF | Mata Kuliah Pilihan III | 3 |
| 3 | TIF | Mata Kuliah Pilihan IV | 3 |
| Jumlah SKS | | | 12 |
| TOTAL Jumlah SKS | | | 148 |

| MATA KULIAH PILIHAN WAJIB SEMESTER GANJIL | | | |
|--|----------|----------------------------|-----|
| No. | Kode | Mata Kuliah | sks |
| Bidang Peminatan: Sistem Kecerdasan (Intelligent System) | | | |
| 1 | TIF16057 | LogikaFuzzy | 3 |
| 2 | TIF16046 | Mikrokontroler | 3 |
| 3 | TIF16083 | Machine learning | 3 |
| 4 | TIF16084 | Digital Forensic | 3 |
| 5 | TIF16085 | Kompresi Data | 3 |
| Bidang Peminatan: Rekayasa Perangkat Lunak (Software Engineering) | | | |
| 1 | TIF16086 | Requirement Engineering | 3 |
| 2 | TIF16064 | Data Mining | 3 |
| 3 | TIF16065 | Data Warehouse | 3 |
| 4 | TIF16087 | Sistem Pendukung Keputusan | 3 |
| 5 | TIF16061 | Web Engineering | 3 |

| MATA KULIAH PILIHAN WAJIB SEMESTER GENAP | | | |
|--|----------|-------------------------------------|-----|
| No. | Kode | Mata Kuliah | sks |
| Bidang Peminatan: Sistem Kecerdasan (Intelligent System) | | | |
| 1 | TIF16088 | Internet of Things | 3 |
| 2 | TIF16089 | Computer Vision | 3 |
| 3 | TIF16090 | Deep Learning | 3 |
| 4 | TIF16091 | Digital Signal Processing | 3 |
| 5 | TIF16059 | Evolutionary Computation | 3 |
| Bidang Peminatan: Rekayasa Perangkat Lunak (Software Engineering) | | | |
| 1 | TIF16092 | Internet of Things | 3 |
| 2 | TIF16093 | Software Construction and Evolution | 3 |
| 3 | TIF16094 | Sistem Informasi Geografis | 3 |
| 4 | TIF16095 | Big Data | 3 |
| 5 | TIF16096 | Information Retrieval | 3 |