**Daftar Mata Kuliah Wajib dan Prasyaratnya**

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| **No** | **Kode Mata Kuliah** | **Mata Kuliah** | **Prasyarat** | |
| **Tempuh** | **Lulus** |
| **Semester 1** | | | | |
| 1 | AIF181101-03 | Computational Thinking |  |  |
| 2 | AIF181103-04 | Matematika Dasar |  |  |
| 3 | AIF181105-02 | Pengantar Informatika |  |  |
| 4 | AIF181107-03 | Matematika Diskret |  |  |
| 5 | MKU170130-02 | Bahasa Indonesia |  |  |
| 6 | MKU170110-02 | Pendidikan Kewarganegaraan |  |  |
| 7 | MKU170120-02 | Logika |  |  |
| **Semester 2** | | | | |
| 1 | AIF181100-04 | Dasar Pemograman |  | AIF181101-03 |
| 2 | AIF181202-04 | Arsitektur dan Organisasi Komputer |  |  |
| 3 | AIF181104-03 | Logika Informatika |  |  |
| 4 | AIF181106-03 | Matriks dan Ruang Vektor |  |  |
| 5 | MKU170240-02 | Etika |  |  |
| 6 | MKU170250-02 | Pancasila |  |  |
| **Semester 3** | | | | |
| 1 | AIF182101-03 | Algoritma Struktur Data |  | AIF181100-04 |
| 2 | AIF182103-04 | Struktur Diskret | AIF181107-03 |  |
| 3 | AIF182105-02 | Pemrograman Berorientasi Objek |  | AIF181100-04 |
| 4 | AIF182007-02 | Teknik Presentasi |  |  |
| 5 | AIF182109-03 | Statistika untuk Komputasi |  |  |
| 6 | MKU170370-02/MKU170380-02 | Agama Katolik/Fenomenologi Agama |  |  |
| 7 | MKU170380 | Estetika |  |  |
| **Semester 4** | | | | |
| 1 | AIF182100-04 | Analisis Desain Berorientasi Objek |  | AIF182105-02 |
| 2 | AIF182302-04 | Manajemen Informasi dan Basis Data | AIF182101-03 |  |
| 3 | AIF182204-03 | Pemograman Berbasis Web | AIF182204-03 (bersamaan atau sudah tempuh) |  |
| 4 | AIF182206-03 | Sistem Operasi | AIF182302-03 |  |
| 5 | AIF182308-03 | Pengantar Sistem Operasi | AIF182302-04 (bersamaan atau sudah tempuh) | AIF181105-02 |
| **Semester 5** | | | | |
| 1 | AIF183101-03 | Desain dan Analisis Algoritma | AIF182103-04 | AIF182101-03 |
| 2 | AIF183103-03 | Rekayasa Perangkat Lunak | AIF182100-04 |  |
| 3 | AIF183105-02 | Manajemen Proyek | AIF183303-03  (bersamaan atau  sudah tempuh) |  |
| 4 | AIF183107-02 | Teknologi Basis Data |  | AIF182302-04 |
| 5 | AIF183209-03 | Pemograman Aplikasi Bergerak | AIF182100-04 |  |
| 6 | AIF183211-04 | Jaringan Komputer | AIF182206-03 |  |
| **Semester 6** | | | | |
| 1 | AIF183100-03 | Pengantar Sistem Cerdas | AIF183101-03  AIF181104-03 |  |
| 2 | AIF183002-02 | Penulisan Ilmiah |  |  |
| 3 | AIF183104-03 | Interaksi Manusia Komputer |  |  |
| 4 | AIF183106-06 | Proyek Informatika | AIF183303-03 |  |
| AIF183308-03 | Proyek Sistem Informasi 1 | AIF183305-02 | AIF182308-03 |
| **Semester 7** | | | | |
| 1 | AIF184001-03 | Skripsi 1 |  | AIF183016-02  Sudah lulus 108  sks |
| 2 | AIF184303-03 | Proyek Sistem Informasi 2 |  | AIF183308-03 |
| 3 | AIF184005-02 | Komputer dan Masyarakat |  |  |
| **Semester 8** | | | | |
| 1 | AIF184000-02 | Etika Profesi |  |  |
| 2 | AIF184002-05 | Skripsi 2 |  | AIF184017-03  Jika diambil  bersamaan  dengan  AIF184017-03  Prasyarat: lulus  AIF183016-02  dan lulus 124 sks |

Daftar Mata Kuliah Pilihan dan Prasyaratnya

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| **No** | **Kode Mata Kuliah** | **Mata Kuliah** | **Prasyarat** | |
| **Tempuh** | **Lulus** |
| **Semester 4** | | | | |
| 1 | AIF182110-02 | Pemrograman Fungsional | AIF181107-03 |  |
| 2 | AIF182112-03 | Pemodelan Formal |  | AIF181104-03 |
| 3 | AIF182114-03 | Pemrograman Kompetitif |  | AIF182101-03  (minimum C) |
| 4 | AIF182116-02 | Dasar-dasar Java | AIF182105-02 |  |
| 5 | AIF182118-03 | Teori Bilangan | AIF181107-03 |  |
| 6 | AIF182120-02 | Teori Bahasa dan Kompilasi |  | AIF181104-03  AIF182103-04 |
| 7 | AIF182122-03 | Matematika Kombinatorial |  | AIF181107-03 |
| 8 | AIF182124-03 | Metode Numerik |  | AIF181103-04  AIF181100-04 |
| 9 | AIF182126-02 | Pemrograman Lojik |  | AIF181104-03 |
| **Semester 5** | | | | |
| 1 | AIF183013-02 | Kerja Praktek 1 |  |  |
| 2 | AIF183015-03 | Pendidikan Pengabdian kepada Masyarakat |  |  |
| 3 | AIF183117-02 | Grafika Komputer | AIF181103-04 | AIF182105-02 |
| 4 | AIF183119-02 | Keamanan Informasi |  | AIF181107-03 |
| 5 | AIF183121-03 | Pemrograman Kompetitif 2 |  | AIF182114-03 (minimum B) |
| 6 | AIF183123-02 | Topik Khusus Informatika 1 |  |  |
| 7 | AIF183225-03 | Administrasi Jaringan  Komputer 1 |  |  |
| 8 | AIF183227-03 | Pengantar Telekomunikasi | AIF183211-04 |  |
| 9 | AIF183229-02 | Topik Khusus Sistem  Terdistribusi 1 |  |  |
| 10 | AIF183331-03 | e-Commerce | AIF182308-03 |  |
| 11 | AIF183333-02 | Analisis Sistem Informasi |  | AIF182308-03 |
| 12 | AIF183335-02 | Perencanaan Sistem  Informasi |  | AIF182308-03 |
| 13 | AIF183337-02 | Topik Khusus Sistem  Informasi 1 |  |  |
| **Semester 6** | | | | |
| 1 | AIF183010-03 | Kerja Praktek 2 |  |  |
| 2 | AIF183112-02 | Pengujian Perangkat Lunak |  | AIF183303-03 |
| 3 | AIF183114-03 | Algoritma Kriptografi | AIF183119-02 |  |
| 4 | AIF183116-02 | Komputasi Paralel |  | AIF182101-03 |
| 5 | AIF183118-03 | Komputasi Geometri |  | AIF183101-03 |
| 6 | AIF183120-03 | Perancangan Permainan  Komputer | AIF183117-02 |  |
| 7 | AIF183122-03 | Pemodelan Simulasi | AIF182101-03 |  |
| 8 | AIF183124-03 | Grafika Komputer Lanjut |  | AIF183117-02 |
| 9 | AIF183126-03 | Pemrograman Kompetitif 3 |  | AIF183121-03 (minimum B) |
| 10 | AIF183128-03 | Topik Khusus Informatika 2 |  |  |
| 11 | AIF183230-03 | Jaringan Komputer Lanjut |  | AIF183211-04 |
| 12 | AIF183232-03 | Pemrograman Berbasis Web  Lanjut |  | AIF182204-03  AIF182302-04 |
| 13 | AIF183234-03 | Sistem Aplikasi Telematika |  | AIF183211-04 |
| 14 | AIF183236-03 | Administrasi Jaringan  Komputer 2 |  | AIF183225-03 |
| 15 | AIF183238-03 | Topik Khusus Sistem  Terdistribusi 2 |  |  |
| 16 | AIF183340-03 | Sistem Pendukung Keputusan |  | AIF182308-03 |
| 17 | AIF183342-03 | Kewirausahaan Berbasis  Teknologi |  | Sudah lulus 90 sks |
| 18 | AIF183346-03 | Topik Khusus Sistem  Informasi 2 |  |  |
| **Semester 7** | | | | |
| 1 | AIF184007-04 | Kerja Praktek 3 |  |  |
| 2 | AIF184109-03 | Pembelajaran Mesin |  | AIF183100-03 |
| 3 | AIF184111-02 | Algoritma Genetika | AIF183100-03 |  |
| 4 | AIF184113-02 | Jaringan Syaraf Tiruan | AIF183100-03 |  |
| 5 | AIF184115-02 | Pencarian dan Temu Kembali  Informasi |  | AIF181103-04 |
| 6 | AIF184117-02 | Metode Formal | AIF182112-03 |  |
| 7 | AIF184119-03 | Kecerdasan Buatan untuk  Permainan Komputer |  | AIF183100-03 |
| 8 | AIF184121-03 | Metode Optimisasi | AIF183100-03 | AIF183101-03 |
| 9 | AIF184123-03 | Teknologi Mesin Pencari | AIF181106-03 |  |
| 10 | AIF184125-03 | Pengolahan Bahasa Alami |  | AIF183100-03 |
| 11 | AIF184127-03 | Topik Khusus Informatika 3 |  |  |
| 12 | AIF184129-03 | Administrasi Jaringan  Komputer 3 |  | AIF183234-03 |
| 13 | AIF184231-03 | Jaringan Nirkabel |  | AIF183211-04 |
| 14 | AIF184233-03 | Teknologi Middleware |  | AIF183211-04 |
| 15 | AIF184235-03 | Layanan Berbasis Web |  | AIF182204-03  AIF182302-04  AIF183211-04 |
| 16 | AIF184237-03 | Topik Khusus Sistem  Terdistribusi 3 |  |  |
| 17 | AIF184339-03 | Pengendalian dan Audit  Teknologi Informasi | AIF182308-03 |  |
| 18 | AIF184341-03 | Penambangan Data |  | AIF182101-03 |
| 19 | AIF184343-03 | Topik Khusus Sistem  Informasi 3 |  |  |
| 20 | AIF184345-03 | Teknologi Big Data dan Cloud  Computing |  | AIF183307-02 dan  AIF183211-04 |
| **Semester 8** | | | | |
| 1 | AIF184104-03 | Bio-Inspired Computing |  | AIF183101-03 |
| 2 | AIF184106-03 | Pemrograman Permainan  Komputer |  | AIF182100-04 |
| 3 | AIF184108-03 | Kompresi Data |  | AIF183101-03 |
| 4 | AIF184110-03 | Pengolahan Citra |  | AIF181106-03 |
| 5 | AIF184112-03 | Pemrosesan Data Geografis |  | AIF182101-03 |
| 6 | AIF184114-03 | Verifikasi Formal |  | AIF184117-02 |
| 7 | AIF184116-02 | Sistem Multi Agen | AIF182206-03  AIF183100-03 |  |
| 8 | AIF184118-02 | Pemrograman Sistem | AIF182206-03 | AIF181100-04 |
| 9 | AIF184120-02 | Topik Khusus Informatika 4 |  |  |
| 10 | AIF184222-03 | Administrasi Jaringan  Komputer 4 |  | AIF184129-03 |
| 11 | AIF184224-03 | Sistem Terdistribusi |  | AIF183211-04 |
| 12 | AIF184226-03 | Teknologi Multimedia |  | AIF183104-03 |
| 13 | AIF184228-02 | Pemrograman Jaringan |  | AIF183211-04 |
| 14 | AIF184230-03 | Keamanan Jaringan | AIF183119-02 |  |
| 15 | AIF184232-02 | Topik Khusus Sistem  Terdistribusi 4 |  |  |
| 16 | AIF184334-03 | Strategi Sistem Informasi & Arsitektur Perusahaan Berskala Besar |  | AIF182308-03 |
| 17 | AIF184336-02 | Pemerintahan Berbasis  Elektronik |  |  |
| 18 | AIF184338-03 | Manajemen Proses Bisnis | AIF182105-02  AIF182204-03 |  |
| 19 | AIF184340-02 | Sistem Perusahaan Berskala  Besar |  | AIF182308-03 |
| 20 | AIF184342-02 | Topik Khusus Sistem  Informasi 4 |  |  |
| 21 | AIF184344-03 | Analisis Big Data | AIF184341-03 |  |