1. **DISTRIBUSI MATA KULIAH PER SEMESTER**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Klp.  MK | Mata Kuliah | T1 | T2 | T3 |  | No | Klp.  MK | Mata Kuliah | T1 | T2 | T3 |
| 1  2  3  4  5  6  7 | MKK  MKK  MKK  MKB  MPK  MPK  MPK | **Semester 1**  Calculus  Discrete Mathematics  ICT Life Cycle  Introduction to Programming Env.  Reading Skills  Learning and Communication Skill  Religion  Total sks | 4  4  3  4  2  2  4  23 | 4  4  3  4  2  2  4  23 | 4  4  3  4  2  2  4  23 |  | 1  2  3  4  5  6  7 | MKK  MKB  MKB  MKB  MPK  MPK  MPK  B | **Semester 2**  Advanced Calculus  Data Structures  Java Programming Technology  Database Systems  Character Development  Academic Writing  Ethics  Total sks | 4  3  4  4  2  2  3  22 | 4  3  4  4  2  2  3  22 | 4  3  4  4  2  2  3  22 |
| 1  2  3  4  5  6  7  8 | MKK  MKB  MKB  MKB  MPK  MPK  MPK  MPK | **Semester 3**  Computer Org. And Architecture  Object Oriented Programming  Computer Communication & Network  System Programming and Design  Civics  Critical Thinking  Theology I  Humanities group & Elective  Total sks | 4  3  4  4  3  2  4  -  24 | 4  3  4  4  3  2  4  -  24 | 4  3  4  4  3  2  0  3  23 |  | 1  2  3  4  5  6  7  8 | MKB  MKK  MKB  MPK  MPK  MPK  MKK  MKB | **Semester 4**  Software Engineering  Statistics  Operating Systems  Theology II  Fine Arts & Music group & Elective  Leadership  Management Information Systems  Network Programming & Security  Total sks | 4  3  3  4  -  2  2  4  22 | 4  3  3  4  -  2  2  4  22 | 4  3  3  -  3  2  2  4  21 |
| 1  2  3  4  5  6 | MPK  MPK  MKK  MKK  MKK  MKK  MKB  MPK  MKB | **Semester 5**  Theology III  Philosophy group and Elective  Numerical Methods  Research Operation  Language theory & compilers  Computer & Human Interaction  Linier Algebra and Matrices  Liberal Arts electives (Group 1)  Liberal Arts electives (Group 2)  Total sks | 4  -  3  3  4  3  3  -  -  20 | -  -  3  3  4  3  3  2  2  20 | -  3  3  3  4  3  3  -  -  19 |  | 1  2  3  4  5  6  7 | MKB  MKB  MPK  MPK MPK | **Semester 6**  Capita Selecta  Artificial Intelligence  *iBT Preparation*  Multimedia Systems  Indonesian Language  Elective Subjects  Total sks | 3  2  2  3  3  4  17 | 3  2  2  3  3  4  17 | 3  2  2  3  3  7  20 |
| 1  2 | MKB | **Semester 7**  Computer Graphic & Image Processing  Elective subjects  Total sks | 4  6  10 | 4  6  10 | 4  6  10 |  | 1 | MPB | **Semester 8**  Skripsi  Total sks | 6  6 | 6  6 | 6  6 |

**Matakuliah Pilihan Untuk Rekayasa Piranti Lunak**

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Klp. MK | Matakuliah | sks |
| 1 | MKB | UML Dynamic | 3 |
| 2 | MKB | Object Constrains Languages | 3 |
| 3 | MKB | Formal Methods | 3 |
| 4 | MKB | Principles of Programming Languages | 2 |
| 5 | MKB | Modeling and Simulation | 3 |
| Total sks | | | 14 |

**Matakuliah Pilihan Untuk Database dan Sistem Informasi**

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Klp. MK | Matakuliah | sks |
| 1 | MKB | Oracle Database | 3 |
| 2 | MKB | Data Mining & Data Warehouse | 3 |
| 3 | MKB | Online Analytical Processing | 2 |
| 4 | MKB | Object Oriented Database Systems | 2 |
| 5 | MKB | Spatial Database Systems | 2 |
| 6 | MKB | Temporal Database Systems | 2 |
| 7 | MKB | Database Administrator | 2 |
| Jumlah sks | | | 16 |

**Matakuliah Pilihan Untuk Telematika (Telematics)**

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Klp. MK | Matakuliah | sks |
| 1 | MKB | Advanced Operating Systems | 3 |
| 2 | MKB | Computer Networks Design | 4 |
| 3 | MKB | Parallel and Distributed Systems | 4 |
| 4 | MKB | Wireless & Broadband Communication | 3 |
| 5 | MKB | Concurrent Programming | 3 |
| 6 | MKB | Web Services | 3 |
| 7 | MKB | Network Management | 4 |
| 8 | MKB | Web Programming & Development | 3 |
| Total sks | | | 27 |

**Matakuliah Pilihan Untuk Kecerdasan Buatan**

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Klp. MK | Matakuliah | sks |
| 1 | MKB | Computer Vision | 2 |
| 2 | MKB | Voice Recognition Systems | 2 |
| 3 | MKB | Natural Languages Processing | 2 |
| 4 | MKB | Artificial Neural Networks | 2 |
| 5 | MKB | Logic Programming | 3 |
| 6 | MKB | Formal Methods | 3 |
| Total sks | | | 14 |

**Matakuliah Pilihan Untuk Semua konsentrasi**

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Klp. MK | Matakuliah | sks |
| 1 | MKB | Analysis of Algorithms | 2 |
| 2 | MKB | Lotus Domino | 3 |
| 3 | MKB | Universal Database DB2 | 3 |
| 4 | MKB | Websphere Studio | 3 |
| 5 | MPB | Industry Placement | 2 |
| 6 | MKB | Graph Theory | 3 |
| 7 | MKB | Mathematics Logic | 3 |
| 8 | MKB | Ordinary Differential Equations | 3 |
| 9 | MKB | Partial Differential Equations | 3 |
| 10 | MKB | Probability Theory | 3 |
| 11 | MKB | Mathematics Statistics | 3 |
| 12 | MKB | Analysis and Complex Variable | 3 |
| 13 | MKB | Analysis Real | 3 |
| 14 | MKB | Advanced Algebra | 3 |
| Total sks | | | 40 |