

UNIVERSITAS PENDIDIKAN INDONESIA
STRUKTUR KURIKULUM DAN SEBARAN MATA KULIAH

FAKULTAS : PENDIDIKAN MATEMATIKA DAN ILMU PENGETAHUAN ALAM
JURUSAN : ILMU KOMPUTER
PROGRAM STUDI : ILMU KOMPUTER
JENJANG : S1

1 - Mata Kuliah Umum (MKU)

| NO | MATA KULIAH | | SKS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------|-------------|--|-----|---|---|---|---|---|---|---|---|
| 1. | KU100 | PENDIDIKAN AGAMA ISLAM | 2 | | 2 | | | | | | |
| 2. | KU101 | PENDIDIKAN AGAMA KRISTEN PROTESTAN | 2 | | 2 | | | | | | |
| 3. | KU102 | PENDIDIKAN AGAMA KRISTEN KATOLIK | 2 | | 2 | | | | | | |
| 4. | KU103 | PENDIDIKAN AGAMA HINDU | 2 | | 2 | | | | | | |
| 5. | KU104 | PENDIDIKAN AGAMA BUDHA | 2 | | 2 | | | | | | |
| 6. | KU105 | PENDIDIKAN PANCASILA DAN KEWARGANEGARAAN | 2 | 2 | | | | | | | |
| 7. | KU106 | PENDIDIKAN BAHASA INDONESIA | 2 | 2 | | | | | | | |
| 8. | KU107 | PENDIDIKAN SOSIAL DAN BUDAYA (PSB) | 2 | | | | 2 | | | | |
| 9. | KU108 | PENDIDIKAN JASMANI DAN OLARAHAGA | 2 | | | | 2 | | | | |
| 10. | KU109 | PENDIDIKAN AGAMA KHONGHUCU | 2 | | 2 | | | | | | |
| 11. | KU300 | SEMINAR PENDIDIKAN AGAMA ISLAM | 2 | | | | | | 2 | | |
| 12. | KU301 | SEMINAR PENDIDIKAN AGAMA KRISTEN PROTESTAN | 2 | | | | | | 2 | | |
| 13. | KU302 | SEMINAR PENDIDIKAN AGAMA KATOLIK | 2 | | | | | | 2 | | |
| 14. | KU303 | SEMINAR PENDIDIKAN AGAMA HINDU | 2 | | | | | | 2 | | |
| 15. | KU304 | SEMINAR PENDIDIKAN AGAMA BUDHA | 2 | | | | | | 2 | | |
| 16. | KU309 | SEMINAR PENDIDIKAN AGAMA KHONGHUCU | 2 | | | | | | 2 | | |
| 17. | KU400 | KULIAH KERJA NYATA (KKN) | 2 | | | | | | 2 | | |
| JUMLAH SKS | | | 14 | 4 | 2 | | 4 | | 4 | | |

2 - Mata Kuliah Program Pengalaman Lapangan (MKPPL)

| NO | MATA KULIAH | | SKS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------|-------------|-----------------------------------|-----|---|---|---|---|---|---|---|---|
| 1. | IK590 | PROGRAM PENGALAMAN LAPANGAN (PPL) | 4 | | | | | | | | 4 |
| JUMLAH SKS | | | 4 | | | | | | | | 4 |

4 - Mata Kuliah Kekhususan Universitas (MKKU)

| NO | MATA KULIAH | | SKS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------|-------------|---------------------|-----|---|---|---|---|---|---|---|---|
| 1. | KD300 | LANDASAN PENDIDIKAN | 2 | | 2 | | | | | | |
| JUMLAH SKS | | | 2 | | 2 | | | | | | |

5 - Mata Kuliah Keahlian Fakultas (MKKF)

| NO | MATA KULIAH | | SKS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------|-------------|------------------|-----|----|---|---|---|---|---|---|---|
| 1. | MA100 | MATEMATIKA DASAR | 3 | 3 | | | | | | | |
| 2. | MA101 | FISIKA UMUM | 3 | 3 | | | | | | | |
| 3. | MA102 | KIMIA UMUM | 3 | 3 | | | | | | | |
| 4. | MA103 | BIOLOGI UMUM | 3 | 3 | | | | | | | |
| JUMLAH SKS | | | 12 | 12 | | | | | | | |

7 - Mata Kuliah Keahlian (MKK) Jurusan/Program Studi

| NO | MATA KULIAH | | SKS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------|-------------|--|-----|---|----|----|----|----|----|---|---|
| 1. | IK300 | PENGANTAR TEKNOLOGI INFORMASI | 2 | 2 | | | | | | | |
| 2. | IK302 | BAHASA INGGRIS | 2 | | 2 | | | | | | |
| 3. | IK310 | ALGORITMA DAN PEMROGRAMAN 1 | 2 | 2 | | | | | | | |
| 4. | IK311 | ALGORITMA DAN PEMROGRAMAN 2 | 3 | | 3 | | | | | | |
| 5. | IK320 | RANGKAIAN ELEKTRONIKA | 2 | | 2 | | | | | | |
| 6. | IK330 | BASIS DATA | 2 | | 2 | | | | | | |
| 7. | IK331 | SISTEM BASIS DATA | 3 | | | 3 | | | | | |
| 8. | IK340 | DESAIN WEB | 2 | | | 2 | | | | | |
| 9. | IK350 | KALKULUS | 3 | | 3 | | | | | | |
| 10. | IK351 | MATEMATIKA DISKRIT | 3 | | | 3 | | | | | |
| 11. | IK352 | ALJABAR LINIER DAN MATRIKS | 3 | | | 3 | | | | | |
| 12. | IK354 | PROBABILISTIK DAN STATISTIKA | 3 | | | 3 | | | | | |
| 13. | IK370 | REKAYASA PERANGKAT LUNAK | 3 | | | | 3 | | | | |
| 14. | IK407 | SISTEM DIGITAL | 3 | | | 3 | | | | | |
| 15. | IK410 | STRUKTUR DATA | 3 | | | 3 | | | | | |
| 16. | IK417 | TEORI BAHASA DAN AUTOMATA | 3 | | | | | | 3 | | |
| 17. | IK419 | MANAJEMEN PROYEK PERANGKAT LUNAK | 2 | | | | | | 2 | | |
| 18. | IK420 | ARSITEKTUR DAN ORGANISASI KOMPUTER | 3 | | 3 | | | | | | |
| 19. | IK421 | JARINGAN KOMPUTER | 3 | | | | | 3 | | | |
| 20. | IK422 | SISTEM OPERASI | 3 | | | | 3 | | | | |
| 21. | IK423 | ETIKA PROFESI TEKNOLOGI INFORMASI DAN KOMUNIKASI | 2 | | | | | | 2 | | |
| 22. | IK426 | SISTEM INFORMASI | 3 | | | | | 3 | | | |
| 23. | IK427 | INTERAKSI MANUSIA DAN KOMPUTER | 3 | | | | | 3 | | | |
| 24. | IK428 | METODOLOGI PENELITIAN | 2 | | | | | | 2 | | |
| 25. | IK430 | TEKNIK RISET OPERASI | 3 | | | | | 3 | | | |
| 26. | IK441 | ANALISIS DAN DESAIN ALGORITMA | 3 | | | | | 3 | | | |
| 27. | IK450 | LOGIKA INFORMATIKA | 2 | | 2 | | | | | | |
| 28. | IK451 | METODE NUMERIK | 3 | | | | 3 | | | | |
| 29. | IK460 | KECERDASAN BUATAN | 3 | | | | | 3 | | | |
| 30. | IK461 | PEMOGRAMAN VISUAL | 3 | | | | 3 | | | | |
| 31. | IK462 | GRAFIKA KOMPUTER | 2 | | | | | 2 | | | |
| 32. | IK480 | PEMROGRAMAN INTERNET | 2 | | | | 2 | | | | |
| 33. | IK481 | PEMROGRAMAN BERORIENTASI OBJEK | 3 | | | | 3 | | | | |
| 34. | IK491 | KAPITA SELEKTA | 2 | | | | | | 2 | | |
| 35. | IK492 | SEMINAR | 2 | | | | | | | 2 | |
| 36. | IK493 | KOMPUTER DAN MASYARAKAT | 2 | | | | | | 2 | | |
| 37. | IK494 | KEWIRAUUSAHAAN | 2 | | | | | | 2 | | |
| 38. | IK542 | PEMROGRAMAN VISUAL* | 3 | | | | | | | 3 | |
| 39. | IK564 | GRAFIKA KOMPUTER* | 3 | | | | | | | 3 | |
| 40. | IK598 | SKRIPSI | 6 | | | | | | | | 6 |
| 41. | IK599 | UJIAN SIDANG | 0 | | | | | | | | 0 |
| JUMLAH SKS | | | 107 | 4 | 17 | 20 | 17 | 20 | 15 | 8 | 6 |

A109 - REKAYASA PERANGKAT LUNAK DAN SISTEM INFORMASI

| NO | MATA KULIAH | | SKS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------|-------------|---|-----|---|---|---|---|---|---|----|---|
| 1. | IK520 | APLIKASI SISTEM FUNGSI BISNIS * | 2 | | | | | | | 2 | |
| 2. | IK526 | PERENCANAAN STRATEGIK SISTEM INFORMASI * | 3 | | | | | | | 3 | |
| 3. | IK527 | SISTEM INFORMASI GEOGRAFIS* | 3 | | | | | | | 3 | |
| 4. | IK528 | AUDIT SISTEM INFORMASI* | 3 | | | | | | | 3 | |
| 5. | IK529 | MANAJEMEN RESIKO* | 3 | | | | | | | 3 | |
| 6. | IK532 | E-BUSINESS* | 3 | | | | | | | 3 | |
| 7. | IK533 | KNOWLEDGE MANAGEMENT SYSTEM* | 3 | | | | | | | 3 | |
| 8. | IK534 | SISTEM PENDUKUNG KEPUTUSAN* | 3 | | | | | | | 3 | |
| 9. | IK535 | BASIS DATA NON RELATIONAL* | 3 | | | | | | | 3 | |
| 10. | IK536 | DATA WAREHOUSE* | 3 | | | | | | | 3 | |
| 11. | IK537 | TEKNOLOGI BASIS DATA* | 3 | | | | | | | 3 | |
| 12. | IK538 | BASIS DATA TERDISTRIBUSI* | 3 | | | | | | | 3 | |
| 13. | IK539 | SISTEM INFORMASI KORPORAT* | 3 | | | | | | | 3 | |
| 14. | IK541 | REKAYASA INFORMASI* | 3 | | | | | | | 3 | |
| 15. | IK543 | MOBILE PROGRAMMING* | 3 | | | | | | | 3 | |
| 16. | IK544 | GAME PROGRAMMING* | 3 | | | | | | | 3 | |
| 17. | IK545 | PROYEK PERANGKAT LUNAK* | 3 | | | | | | | 3 | |
| 18. | IK546 | PEMELIHARAAN PERANGKAT LUNAK* | 2 | | | | | | | 2 | |
| 19. | IK547 | METODE DAN MODEL PEMBANGUNAN PERANGKAT LUNAK* | 3 | | | | | | | 3 | |
| 20. | IK548 | TEKNIK KOMPILASI* | 3 | | | | | | | 3 | |
| 21. | IK549 | MANAJEMEN KUALITAS PERANGKAT LUNAK* | 3 | | | | | | | 3 | |
| JUMLAH SKS | | | 61 | | | | | | | 61 | |

A110 - KONTROL ROBOTIKA DAN KECERDASAN BUATAN

| NO | MATA KULIAH | | SKS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------|-------------|------------------------------------|-----|---|---|---|---|---|---|----|---|
| 1. | IK521 | TEKNIK INTERFACING* | 3 | | | | | | | 3 | |
| 2. | IK550 | JARINGAN SYARAF TIRUAN* | 3 | | | | | | | 3 | |
| 3. | IK551 | TEKNIK SIMULASI DAN PEMODELAN | 3 | | | | | | | 3 | |
| 4. | IK552 | RANCANGAN SISTEM DIGITAL | 3 | | | | | | | 3 | |
| 5. | IK553 | MIKROELEKTRONIKA* | 3 | | | | | | | 3 | |
| 6. | IK555 | KONTROL DAN ROBOTIKA* | 3 | | | | | | | 3 | |
| 7. | IK556 | SISTEM KONTROL* | 3 | | | | | | | 3 | |
| 8. | IK557 | MACHINE LEARNING* | 3 | | | | | | | 3 | |
| 9. | IK558 | SISTEM CERDAS* | 3 | | | | | | | 3 | |
| 10. | IK560 | PENGOLAHAN BAHASA ALAMI* | 3 | | | | | | | 3 | |
| 11. | IK562 | SPEECH RECOGNITION AND SYNTHESIS* | 3 | | | | | | | 3 | |
| 12. | IK563 | KECERDASAN BUATAN TERDISTRIBUSI* | 3 | | | | | | | 3 | |
| 13. | IK565 | INTERPRETASI DAN PENGOLAHAN CITRA* | 3 | | | | | | | 3 | |
| 14. | IK566 | DATA MINING* | 3 | | | | | | | 3 | |
| 15. | IK567 | COMPUTER VISION* | 3 | | | | | | | 3 | |
| JUMLAH SKS | | | 45 | | | | | | | 45 | |

A205 - MANAJEMEN PENDIDIKAN DAN TEKNOLOGI PEMBELAJARAN

| NO | MATA KULIAH | | SKS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------|-------------|------------------------------------|-----|---|---|---|---|---|---|----|---|
| 1. | IK570 | MOBILE LEARNING* | 3 | | | | | | | 3 | |
| 2. | IK571 | GAME EDUKASI* | 3 | | | | | | | 3 | |
| 3. | IK572 | INTELLIGENT TUTOR SYSTEM* | 3 | | | | | | | 3 | |
| 4. | IK573 | SISTEM INFORMASI PENDIDIKAN* | 2 | | | | | | | 2 | |
| 5. | IK574 | E-LEARNING* | 3 | | | | | | | 3 | |
| 6. | IK575 | PENGAJARAN BERBASIS KOMPUTER* | 2 | | | | | | | 2 | |
| 7. | IK576 | OPEN DISTANCE LEARNING* | 3 | | | | | | | 3 | |
| 8. | IK577 | MULTIMEDIA DAN ANIMASI* | 3 | | | | | | | 3 | |
| 9. | IK578 | TEKNIK PEMROSESAN TEKS DAN GAMBAR* | 3 | | | | | | | 3 | |
| 10. | IK579 | TEKNIK AUDIO DAN VIDEO* | 3 | | | | | | | 3 | |
| JUMLAH SKS | | | 28 | | | | | | | 28 | |

A206 - TEKNIK KOMPUTER DAN SISTEM JARINGAN

| NO | MATA KULIAH | | SKS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------|-------------|--|-----------|---|---|---|---|---|---|-----------|---|
| 1. | IK505 | KRIPTOGRAFI DAN KEAMANAN SISTRM INFORMASI* | 3 | | | | | | | 3 | |
| 2. | IK506 | ADMINISTRASI JARINGAN* | 2 | | | | | | | 2 | |
| 3. | IK507 | TEKNOLOGI NIRKABEL* | 3 | | | | | | | 3 | |
| 4. | IK508 | MOBILE NETWORKING* | 3 | | | | | | | 3 | |
| 5. | IK509 | CLOUD COMPUTING* | 3 | | | | | | | 3 | |
| 6. | IK510 | SISTEM TERDISTRIBUSI* | 3 | | | | | | | 3 | |
| 7. | IK511 | JARINGAN KOMPUTER LANJUT* | 3 | | | | | | | 3 | |
| 8. | IK512 | DIGITAL FORENSIK* | 3 | | | | | | | 3 | |
| 9. | IK513 | TEKNIK KOMUNIKASI DATA* | 3 | | | | | | | 3 | |
| JUMLAH SKS | | | 26 | | | | | | | 26 | |