**LABORATORIUM RISET ELEKTRONIKA INDUSTRI & SISTEM TERSEMAT**

**(LAB. ELITE)**

*Kepala Lab:* Dr.-Ing. Faizal Arya Samman, S.T., M.T.

Mata kuliah yang dan Paket mata kuliah yang ditawarkan di **Lab Riset ELITE** (**ELektronika Industri dan Sistem TErsemat**) atau INTELS Lab (*Industrial Electronics and Embedded Systems Laboratory*) pada Semester 5, 6 dan 7.

|  |  |  |  |  |  |  |  |  |  |  |  |
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| **SEMESTER 5 – Mikrokomputer dan Aplikasinya** | | | | |  | **SEMESTER 6 – Paket Sistem Tersemat** | | | | | |
| **Kode** | **Mata Kuliah** | **K** | **P** | **T** |  | **Kode** | **Mata Kuliah** | **K** | | **P** | **T** |
|  | Perancangan Sistem Digital | 2 | 1 | 3 |  |  | Perancangan Sistem Tersemat | 2 | | 1 | 3 |
|  | Sistem Berbasis Mikroprosesor | 2 | 1 | 3 |  |  | Sistem On-Chip | 2 | | 1 | 3 |
| *Pilih MK berikut dgn total sks min. 3:* | |  |  | 3\* |  | *Pilih MK berikut dgn total sks min. 3:* | |  | |  | 3\* |
|  | Sistem Instrumentasi Elektronik | 2 | 1 | 3 |  |  | Sistem Kendali Digital | 2 | | 1 | 3 |
|  | Jaringan Komputer dan SCADA | 2 | 0 | 2 |  |  | Pengolahan Isyarat Digital | 2 | | 0 | 2 |
|  | Otomasi Industri | 1 | 1 | 2 |  |  | Elektronika Industri | 2 | | 1 | 3 |
|  | Robotika Industri | 2 | 0 | 2 |  |  | Pengolahan Citra | 2 | | 0 | 2 |
|  |  |  |  |  |  |  |  |  | |  |  |
| **SEMESTER 7 – Paket Elektronika Biomedik** | | | | |  | **SEMESTER 6 – Paket Sistem Elektronika** | | | | | |
| **Kode** | **Mata Kuliah** | **K** | **P** | **T** |  | **Kode** | **Mata Kuliah** | **K** | **P** | | **T** |
|  | Elektronika Biomedik | 1 | 1 | 2 |  |  | Elektronika Daya | 2 | 1 | | 3 |
| *Pilih MK berikut dengan total SKS min. 2:* | |  |  | 2\* |  |  | Elektronika Industri | 2 | 1 | | 3 |
|  | Sistem Instrumentasi Elektronik | 2 | 1 | 3 |  | *Pilih MK berikut dgn total sks min. 3:* | |  |  | | 3\* |
|  | Robotika Industri | 2 | 0 | 2 |  |  | Perancangan Sistem Tersemat | 2 | 1 | | 3 |
|  | Perancangan Sistem Digital | 2 | 1 | 3 |  |  | Sistem On-Chip | 2 | 1 | | 3 |
|  | Sistem Berbasis Mikroprosesor | 2 | 1 | 3 |  |  | Elektronika Telekomunikasi | 2 | 1 | | 3 |
|  |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  |  |  | **SEMETER 6 –Paket Divais Elektronika** | | | | | |
|  |  |  |  |  |  | **Kode** | **Mata Kuliah** | **K** | **P** | | **T** |
|  |  |  |  |  |  |  | Sistem On-Chip | 2 | 1 | | 3 |
|  |  |  |  |  |  |  | Teknologi Rangkaian Terintegrasi | 2 | 0 | | 2 |
|  |  |  |  |  |  | *Pilih MK berikut dgn total sks min. 4:* | |  |  | | 4\* |
|  |  |  |  |  |  |  | Divais Mikroelektronika | 2 | 0 | | 2 |
|  |  |  |  |  |  |  | Perancangan Sistem Tersemat | 2 | 1 | | 3 |
|  |  |  |  |  |  |  | Rangkaian Penguat Operasional | 2 | 0 | | 2 |
|  |  |  |  |  |  |  |  |  |  | |  |

\* Jumlah minimal SKS yang bisa diambil, tergantung pada jumlah SKS dari mata kuliah yang dipilih.

Mata kuliah yang diampu oleh FAS pada semester 1, 2, 3, 4, 5, 6 dan 7.

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| ***No.*** | ***MK*** | ***Pengampu*** | ***Semester*** |
| 1 | Dasar Elektronika | FAS | 3 (ganjil) |
| 2 | Dasar Sistem Kendali | FAS | 4 (genap) |
| 3 | Elektronika Terintegrasi | FAS | 4 (genap) |
| 4 | Perancangan Sistem Digital | FAS (Penanggungjawab) | 5 (ganjil) |
| 5 | Elektronika Biomedik | FAS | 7 (ganjil) |
| 6 | Perancangan Sistem Tersemat | FAS (Penanggungjawab) | 6 (genap) |
| 7 | Sistem On-Chip | FAS (Penanggungjawab) | 6 (genap) |