



YAYASAN BRATA BHAKTI  
DAERAH JAWA TIMUR  
**UNIVERSITAS BHAYANGKARA**  
Kampus : Jl. A. Yani 114 Surabaya Telp. 8285602, 8285601, 8291055 FAK. 8285601

**JURNAL PERKULIAHAN**

MATAKULIAH : **4TI4021 - PEMOGRAMAN INTERNET OF THINGS**  
KELAS : **D**  
DOSEN : **R DIMAS ADITYO ST, MT**

PRODI : **Teknik Informatika**  
SEMESTER/SKS : **4 / 3**  
TH AKADEMIK : **2024- Genap**

| NO | PERTEMUAN KE/TGL | TOPIK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MEDIA      | TUGAS | KULIAH | DOSEN | JUMLAH MAHASISWA |
|----|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|--------|-------|------------------|
| 1  | I/13-02-2025     | KONTRAK KULIAH, PENGENALAN KULIAH , DAN PENYAMPAIAN REFERENSI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | E-learning |       | Hybrid | Hadir |                  |
| 2  | II/19-02-2025    | BASIC KNOWLEDGE IOT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | E-learning |       | Hybrid | Hadir |                  |
| 3  | III/25-02-2025   | KOMPONEN KOMPONEN DALAM IMPLEMENTASI IOT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | E-learning |       | Hybrid | Hadir |                  |
| 4  | IV/06-03-2025    | FEATURE-1: CONNECT : DEVICE VIRTUALIZATION &NDASH; IT STANDARDIZES THE INTEGRATION OF DEVICES WITH THE IOT ENTERPRISE. HIGH-SPEED MESSAGING &NDASH; IT ENABLES RELIABLE, SECURE, AND BI-DIRECTIONAL COMMUNICATION BETWEEN DEVICES AND THE CLOUD. ENDPOINT MANAGEMENT &NDASH; MANAGE DEVICE ENDPOINT IDENTITY, METADATA, AND LIFECYCLE STATES FOR ALL DEVICES (IN SIMPLE WORDS FROM WHICH DEVICE WHICH DATA IS COMING AND WHAT NEEDS TO BE DONE WITH THAT DATA AS WELL). FEATURE-1: CONNECT : DEVICE VIRTUALIZATION &NDASH; IT STANDARDIZES THE INTEGRATION OF DEVICES WITH THE IOT ENTERPRISE. HIGH-SPEED MESSAGING &NDASH; IT ENABLES RELIABLE, SECURE, AND BI-DIRECTIONAL COMMUNICATION BETWEEN DEVICES AND THE CLOUD. ENDPOINT MANAGEMENT &NDASH; MANAGE DEVICE ENDPOINT IDENTITY, METADATA, AND LIFECYCLE STATES FOR ALL DEVICES (IN SIMPLE WORDS FROM WHICH DEVICE WHICH DATA IS COMING AND WHAT NEEDS TO BE DONE WITH THAT DATA AS WELL). | E-learning |       | Hybrid | Hadir |                  |
| 5  | V/13-03-2025     | OPEN CV PYTHON DAN LIBRARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | E-learning |       | Hybrid | Hadir |                  |
| 6  | VI/18-03-2025    | BELAJAR BAHASA PEMROGRAM PYTHON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | E-learning |       | Hybrid | Hadir |                  |
| 7  | VII/08-04-2025   | PEMBAHASAN MATERI UTS : SOAL 1. JELASKAN APA YANG ANDA KETAHUI DARI PERBEDAAN IOT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | E-learning |       | Hybrid | Hadir |                  |

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|    |                 | MENGGUNAKAN PERANGKAT ARDUINO DENGAN DIBANDINGKAN DENGAN MENGGUNAKAN PERANGKAT RASPBERRY? 2. DALAM PEMROGRAMAN IOT, KITA MENGENAL ISTILAH CLOUD COMPUTING, APA YANG ANDA KETAHUI TENTANG API SERVICE MENGGUNAKAN CLOUD COMPUTING. ? 3. DALAM PROTOCOL OSI, PEMROGRAMAN PADA PERANGKAT IOT HARUS BISA MEMAHAMI TENTANG HUBUNGAN PERANGKAT IOT DENGAN LAYER OSI DIBAWAH INI, MOHON DIJELASKAN ? 4. GBR. 7 LAYER OSI 5. JELASKAN TENTANG PIN INPUT DAN OUTPUT, APAKAH YANG DIMAKSUD DENGAN GPIO PADA PERANGKAT IOT RASPBERRY ?, JIKA SAYA INGIN MENGENDALIKAN SEBUAH PERANGKAT LED DARI INPUTAN PERANGKAT SENSOR (CAHAYA), DIMANA DAN BAGAIMANA CARA MEMASANG DAN MENGGUNAKAN BAHASA |            |  |        |       |  |
| 8  | VIII/15-04-2025 | TUGAS/UJIAN/PRESENTASI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | E-learning |  | Hybrid | Hadir |  |
| 9  | IX/22-04-2025   | PEMBAHASAN UTS , PEMAHAMAN IOT PROGRAMMING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | E-learning |  | Hybrid | Hadir |  |
| 10 | X/23-04-2025    | DEMO UTS , YANG TELAH MAJU 1. HENRY ---> 2414311013 2. AISIA -->2414311017 3. ELVA --> 2414311010 4. FRINZY --> 2414311008 5. HAIDAR --> 2414311005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | E-learning |  | Hybrid | Hadir |  |
| 11 | XI/06-05-2025   | SIMULATOR IOT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | E-learning |  | Hybrid | Hadir |  |
| 12 | XII/20-05-2025  | PEMBAHASAN DASAR MQTT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | E-learning |  | Hybrid | Hadir |  |
| 13 | XIII/03-06-2025 | PEMBAHASAN JURNAL IOT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | E-learning |  | Hybrid | Hadir |  |
| 14 | XIV/10-06-2025  | TUGAS/UJIAN/PRESENTASI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | E-learning |  | Hybrid | Hadir |  |

Surabaya, 25 / Jul / 2025

Dekan



Dr. Eko Prasetyo, S. Kom., M. Kom