

**Berita Acara Pengajaran 15.4A.07-15407 Big Data (0702)**

Dosen : 201403074 - Hanggoro Aji Al Kautsar

Kelas : 15.4A.07-15407

**Berita Acara Pengajaran**

| Temu | Ruang  | Kehadiran                                                     | Bahan Kajian                                                                                                                                                                                                                            | BAP                                                                                                                                               |
|------|--------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 606-B2 | 2026-03-31<br>15:00-17:30<br>Masuk:<br>15:01:06 -<br>17:15:09 | Konsep Big Data 1. Perkembangan Data 2. Pengenalan Big Data dan karakteristiknya 3. Alur Kerja Big Data 4. Penerapan Big Data pada spesifik domain 5. Tantangan dalam mengelola Big Data                                                | Mahasiswa mampu memahami konsep data besar dengan tingkat pemahaman 70%                                                                           |
| 2    | 606-B2 | 2026-04-07<br>15:00-17:30<br>Masuk:<br>15:02:26 -<br>17:28:52 | Arsitektur Big Data 1. Pengenalan Arsitektur Big Data 2. Layer Arsitektur Big Data 3. Batch Processing vs. Stream Processing 4. Arsitektur Lambda dan Kappa Big Data                                                                    | Mahasiswa mampu melakukan Instal dan konfigurasi perangkat lunak yang diperlukan untuk membangun ekosistem Hadoop dengan tingkat keberhasilan 70% |
| 3    | 606-B2 | 2026-04-14<br>15:00-17:30<br>Masuk:<br>15:04:54 -<br>17:29:54 | Ekosistem Hadoop 1. Konsep Pengolahan Data 2. Definisi dan sejarah Hadoop 3. HDFS 4. Map Reduce Big Data                                                                                                                                | Mahasiswa mampu memahami ekosistem Hadoop dengan tingkat keberhasilan                                                                             |
| 4    | 606-B2 | 2026-04-21<br>15:00-17:30<br>Masuk:<br>15:02:27 -<br>17:16:38 | Apache Hadoop 1. Unduh dan Instal Apache Hadoop 2. Hadoop Commands Big Data                                                                                                                                                             | Mahasiswa mampu memahami ekosistem Hadoop dengan tingkat keberhasilan 70 %                                                                        |
| 5    | 606-B2 | 2026-04-28<br>15:00-17:30<br>Masuk:<br>15:08:48 -<br>17:32:03 | Basis Data NoSQL 1. Pengenalan tentang basis data NoSQL. 2. Jenis-jenis basis data NoSQL seperti Document Store, Column Store, Key-Value Store. 3. Kelebihan dan kekurangan menggunakan basis data NoSQL. 4. Instalasi MongoDB Big Data | database mongodb                                                                                                                                  |
| 6    | 606-B2 | 2026-05-05<br>15:00-17:30<br>Masuk:                           | Penggunaan MongoDB 1. Menjalankan MongoDB 2. Membuat, database NoSQL 3. Mampu menambah, merubah,                                                                                                                                        | Mahasiswa mampu membuat basis data NoSQL dengan MongoDB dengan tingkat keberhasilan 70%                                                           |

| Temu | Ruang  | Kehadiran                                                     | Bahan Kajian                                                                                                                                                                                                                                           | BAP                                                                                              |
|------|--------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|      |        | 15:02:05 -<br>17:24:32                                        | menghapus dan menampilkan database pada MongoDB Big Data                                                                                                                                                                                               |                                                                                                  |
| 7    | 606-B2 | 2026-05-12<br>15:00-17:30<br>Masuk:<br>16:01:48 -<br>17:31:59 | Review materi pertemuan 1-6 Big Data                                                                                                                                                                                                                   | Review materi pertemuan 1-6 Big Data                                                             |
| 8    | 606-B2 | 2026-05-19<br>15:00-17:30<br>Masuk:<br>16:01:48 -<br>17:31:19 | UTS                                                                                                                                                                                                                                                    | UTS                                                                                              |
| 9    | 606-B2 | 2026-05-26<br>15:00-17:30<br>Masuk:<br>15:04:16 -<br>17:16:25 | Data Ingestion 1. Konsep dan pentingnya data ingestion dalam ekosistem big data. 2. Langkah-langkah dan teknik yang terlibat dalam proses data ingestion. 3. Membuat komponen data ingestion menggunakan alat-alat dan teknologi yang sesuai. Big Data | Mahasiswa mampu membuat komponen data ingestion dengan tingkat keberhasilan 70%                  |
| 10   | 606-B2 | 2026-06-02<br>15:00-17:30<br>Masuk:<br>15:04:16 -<br>17:16:25 | Apache Spark 1. Pengenalan Apache Spark 2. Pengenalan Resilient Distributed Datasets (RDDs) 3. DataFrame dan Pengolahan Data Tabular Big Data                                                                                                          | Mahasiswa mampu menganalisis big data menggunakan tools big data dengan tingkat keberhasilan 70% |
| 11   | 606-B2 | 2026-06-09<br>15:00-17:30<br>Masuk:<br>15:04:16 -<br>17:16:25 | Apache Spark 1. Pengenalan Apache Spark 2. Pengenalan Resilient Distributed Datasets (RDDs) 3. DataFrame dan Pengolahan Data Tabular Big Data                                                                                                          | Mahasiswa mampu menganalisis big data menggunakan tools big data dengan tingkat keberhasilan 70% |
| 12   | 606-B2 | 2026-06-17<br>15:00-17:30<br>Masuk:<br>15:04:16 -<br>17:16:25 | Presentasi Proyek Analisis Big Data Big Data                                                                                                                                                                                                           | Mahasiswa mampu menganalisis big data menggunakan tools big data dengan tingkat keberhasilan 70% |



|                               |          |                           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|-------------------------------|----------|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 12                            | 15240174 | MONALISA HERMINA MOSE     | ✓         | X         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 13                            | 15240202 | SULIS SETIAWATI           | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 14                            | 15240204 | FAHREZA DANARJATI AHMAD   | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 15                            | 15240215 | MARIA KRISTINSIA MOI      | X         | ✓         | X         | ✓         | X         | ✓         | ✓         | ✓         | ✓         | ✓         | X         | X         | ✓         | ✓         | ✓         |
| 16                            | 15240233 | SABRINA AZ ZAHRA HAMIDAH  | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | X         | X         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 17                            | 15240234 | VALENVIA ROZI             | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | X         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 18                            | 15240266 | MUHAMMAD FAJAR SHODIQ     | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | X         | X         | ✓         | ✓         | ✓         |
| 19                            | 15240292 | MUAMMAR KHADAFI YUSUF     | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 20                            | 15240301 | PUTRA NAUFAL ALGHIFARI    | X         | X         | ✓         | X         | X         | X         | X         | X         | X         | X         | X         | X         | X         | X         | X         |
| 21                            | 15240323 | MOCHAMAD RICO DWI ANGGORO | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | X         | X         | ✓         | ✓         | ✓         | ✓         | X         | X         | X         |
| 22                            | 15240383 | HASNA HUMAIRA             | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | X         | ✓         | ✓         | ✓         |
| 23                            | 15240407 | FEBIYANTI                 | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | X         | ✓         | ✓         | ✓         |
| 24                            | 15240422 | SABIQ BAZLI YUSRA         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 25                            | 15240433 | NATHANIEL LEMUEL CHANDRA  | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 26                            | 15240474 | AGHNA SOELISTIAWATI       | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 27                            | 15240475 | IMAN BAGUS RAHMATULLAH    | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 28                            | 15240484 | MUHAMAD FIKRI AYATULLAH   | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | X         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 29                            | 15240501 | RIVAL MINANLARAT          | X         | ✓         | ✓         | ✓         | ✓         | X         | X         | X         | X         | X         | X         | X         | X         | X         | X         |
| 30                            | 15240509 | MAHESA FIKI PERMANA       | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | X         | ✓         | ✓         | ✓         |
| 31                            | 15240526 | RAFIIF FADHLURROHMAN      | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | X         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 32                            | 15240543 | MARLIANA SINAGA           | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 33                            | 15240565 | RADITYA DWI ARKANANTA     | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 34                            | 15240570 | MUHAMMAD KHOLISH          | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | X         | ✓         | X         | ✓         | ✓         | ✓         | ✓         |
| 35                            | 15240575 | GHALIH BAYU AGIS          | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 36                            | 15240579 | AHMAD RIZZICK             | ✓         | ✓         | ✓         | ✓         | X         | X         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 37                            | 15240586 | RAMANDA RAFI ESNAWAN      | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | X         | ✓         | ✓         | ✓         | ✓         |
| 38                            | 15240588 | FERDY APRIANSYAH          | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| 39                            | 15240600 | FARIS SYADDAD AL MUTTAQIN | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         | ✓         |
| <b>Total Kehadiran Harian</b> |          |                           | <b>33</b> | <b>33</b> | <b>37</b> | <b>34</b> | <b>33</b> | <b>32</b> | <b>36</b> | <b>35</b> | <b>32</b> | <b>33</b> | <b>29</b> | <b>30</b> | <b>35</b> | <b>35</b> | <b>35</b> |

\* Data Presensi diambil berdasarkan laman Elearning

## Penilaian

| #  | Nim      | Nama                      | Presensi | Tugas | UTS | UAS | Grade Akhir |
|----|----------|---------------------------|----------|-------|-----|-----|-------------|
| 1  | 15230344 | MUHAMMAD IRSYADILLAH      | 0        | 0     | 0   | 0   | C           |
| 2  | 15240040 | ADINDA ZALFAA KAMILA      | 0        | 0     | 0   | 0   | C           |
| 3  | 15240042 | ISMUL A'ZHAM              | 0        | 0     | 0   | 0   | A           |
| 4  | 15240052 | GEOVANI PRADIPTA NURBELEN | 0        | 0     | 0   | 0   | A           |
| 5  | 15240063 | THERESIA OKTAVIANI TITU   | 0        | 0     | 0   | 0   | A           |
| 6  | 15240092 | FAUZAN AKBAR WIJAYA       | 0        | 0     | 0   | 0   | A           |
| 7  | 15240100 | IRMA YANTI TUMANGGOR      | 0        | 0     | 0   | 0   | A           |
| 8  | 15240120 | ANDI WAHYUDIN             | 0        | 0     | 0   | 0   | A           |
| 9  | 15240145 | NURHALIZAH                | 0        | 0     | 0   | 0   | A           |
| 10 | 15240157 | TUBAGUS BAYU AYUDYA       | 0        | 0     | 0   | 0   | A           |
| 11 | 15240162 | ARYA PATIH SATRIANTO      | 0        | 0     | 0   | 0   | A           |
| 12 | 15240174 | MONALISA HERMINA MOSE     | 0        | 0     | 0   | 0   | A           |
| 13 | 15240202 | SULIS SETIAWATI           | 0        | 0     | 0   | 0   | A           |
| 14 | 15240204 | FAHREZA DANARJATI AHMAD   | 0        | 0     | 0   | 0   | A           |
| 15 | 15240215 | MARIA KRISTINSIA MOI      | 0        | 0     | 0   | 0   | A           |
| 16 | 15240233 | SABRINA AZ ZAHRA HAMIDAH  | 0        | 0     | 0   | 0   | A           |

| #  | Nim      | Nama                      | Presensi | Tugas | UTS | UAS | Grade Akhir |
|----|----------|---------------------------|----------|-------|-----|-----|-------------|
| 17 | 15240234 | VALENVIA ROZI             | 0        | 0     | 0   | 0   | A           |
| 18 | 15240266 | MUHAMMAD FAJAR SHODIQ     | 0        | 0     | 0   | 0   | A           |
| 19 | 15240292 | MUAMMAR KHADAFI YUSUF     | 0        | 0     | 0   | 0   | A           |
| 20 | 15240301 | PUTRA NAUFAL ALGHIFARI    | 0        | 0     | 0   | 0   | C           |
| 21 | 15240323 | MOCHAMAD RICO DWI ANGGORO | 0        | 0     | 0   | 0   | A           |
| 22 | 15240383 | HASNA HUMAIRA             | 0        | 0     | 0   | 0   | A           |
| 23 | 15240407 | FEBIYANTI                 | 0        | 0     | 0   | 0   | A           |
| 24 | 15240422 | SABIQ BAZLI YUSRA         | 0        | 0     | 0   | 0   | A           |
| 25 | 15240433 | NATHANIEL LEMUEL CHANDRA  | 0        | 0     | 0   | 0   | A           |
| 26 | 15240474 | AGHNA SOELISTIAWATI       | 0        | 0     | 0   | 0   | A           |
| 27 | 15240475 | IMAN BAGUS RAHMATULLAH    | 0        | 0     | 0   | 0   | A           |
| 28 | 15240484 | MUHAMAD FIKRI AYATULLAH   | 0        | 0     | 0   | 0   | A           |
| 29 | 15240501 | RIVAL MINANLARAT          | 0        | 0     | 0   | 0   | C           |
| 30 | 15240509 | MAHESA FIKI PERMANA       | 0        | 0     | 0   | 0   | A           |
| 31 | 15240526 | RAFIIF FADHLURROHMAN      | 0        | 0     | 0   | 0   | A           |
| 32 | 15240543 | MARLIANA SINAGA           | 0        | 0     | 0   | 0   | A           |

| #  | Nim      | Nama                      | Presensi | Tugas | UTS | UAS | Grade Akhir |
|----|----------|---------------------------|----------|-------|-----|-----|-------------|
| 33 | 15240565 | RADITYA DWI ARKANANTA     | 0        | 0     | 0   | 0   | A           |
| 34 | 15240570 | MUHAMMAD KHOLISH          | 0        | 0     | 0   | 0   | A           |
| 35 | 15240575 | GHALIH BAYU AGIS          | 0        | 0     | 0   | 0   | A           |
| 36 | 15240579 | AHMAD RIZZJICK            | 0        | 0     | 0   | 0   | A           |
| 37 | 15240586 | RAMANDA RAFI ESNAWAN      | 0        | 0     | 0   | 0   | A           |
| 38 | 15240588 | FERDY APRIANSYAH          | 0        | 0     | 0   | 0   | A           |
| 39 | 15240600 | FARIS SYADDAD AL MUTTAQIN | 0        | 0     | 0   | 0   | A           |

\* Data Penilaian diambil berdasarkan laman student