

# STRUKTUR DATA - 310

SKS: 3 | Kelas: 17.2A.07

Dosen: 199910474 - DMY

## Berita Acara Pengajaran

| Temu | Ruang  | Kehadiran                                                     | Bahan Kajian                                                                                                                                                                                                                                                                                                                                                                                | BAP                             |
|------|--------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1    | 602-B2 | 2026-04-02<br>07:30-10:00<br>Masuk:<br>07:32:53 -<br>09:53:37 | Data & Struktur Data 1. Pengertian Struktur Data 2. Tipe Data sederhana dan tipe terstruktur (dalam program PYTHON) 3. Operator dalam program PYTHON Array Dimensi satu dan dua 1. Definisi/pengertian 2. Klasifikasi array 3. Array dimensi satu (bentuk umum dan pemetaan ke storage) beserta contoh Array dimensi dua (bentuk umum dan pemetaan ke storage) beserta contoh Struktur Data | P1 Konsep Struktur Data & Array |
| 2    | 602-B2 | 2026-04-09<br>07:30-10:00<br>Masuk:<br>07:33:05 -<br>09:45:34 | Mengkonversikan bilangan ke dalam bilangan lain 1. Bilangan biner 2. Bilangan Oktal 3. Bilangan Hexadesimal Array dimensi dua (bentuk umum dan pemetaan ke storage) beserta contohnya Struktur Data                                                                                                                                                                                         | P2 Sistem Bilangan              |
| 3    | 602-B2 | 2026-04-16<br>07:30-10:00<br>Masuk:<br>07:31:15 -<br>09:46:08 | 1. Array dimensi banyak (bentuk umum dan pemetaan ke dalam storage) 2. triangular array 1. sparse array Struktur Data                                                                                                                                                                                                                                                                       | P3 Array Dimensi Banyak         |
| 4    | 602-B2 | 2026-04-23<br>07:30-10:00<br>Masuk:<br>07:31:43 -<br>09:49:15 | 1. Single Linked List 2. Operasi Linked List Struktur Data                                                                                                                                                                                                                                                                                                                                  | P4 Linked List                  |

| Temu | Ruang  | Kehadiran                                                     | Bahan Kajian                                                                                                                                                                                                 | BAP                                    |
|------|--------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 5    | 602-B2 | 2026-04-30<br>07:30-10:00<br>Masuk:<br>07:34:51 -<br>09:46:15 | 1. Doubly Linked List 2. Operasi Linked List<br>Struktur Data                                                                                                                                                | P5 Stack Dan Queue                     |
| 6    | 602-B2 | 2026-05-07<br>07:30-10:00<br>Masuk:<br>07:35:01 -<br>09:56:07 | Prinsip dan operasi stack (IsFull, IsEmpty, Pop, Push)<br>Struktur Data                                                                                                                                      | P6 Tree Dan Kunjungan pada pohon biner |
| 7    | 505-B2 | 2026-05-09<br>10:50-13:20<br>Masuk:<br>10:51:34 -<br>13:10:33 | Latihan Soal dari materi pertemuan 1-6<br>Struktur Data                                                                                                                                                      | P7 Graph dan matriks penyajian Graph   |
| 8    | 602-B2 | 2026-05-21<br>07:30-10:00<br>Masuk:<br>07:30:00 -<br>08:30:00 | UTS                                                                                                                                                                                                          |                                        |
| 9    | 602-B2 | 2026-06-04<br>07:30-10:00<br>Masuk:<br>07:32:06 -<br>09:51:30 | 1. Definisi queue 2. Prinsip dan operasi queue a. prinsip LIFO b. operasi queue meliputi IsEmpty, IsFull, c. Enqueue, Dequeue Clear 3. Cara kerja linear queue 4. Cara kerja circular queue<br>Struktur Data | P9 Bimbingan Project Program           |
| 10   | 602-B2 | 2026-06-11<br>07:30-10:00<br>Masuk:<br>07:31:01 -<br>09:55:57 | Tree 1. Istilah dalam tree 2. sifat utama pohon berakar 3. Istilah dan deklarasi pohon binary 4. penyajian pohon binary<br>Struktur Data                                                                     | P10 Bimbingan Project                  |
| 11   | 504-B2 | 2026-06-13<br>10:50-13:20<br>Masuk:<br>10:51:08 -<br>13:10:09 | Kunjungan pada pohon biner 1. kunjungan preorder, inorder dan postorder 2. Aplikasi pohon biner/pembentukan notasi prefix, infix dan postfix<br>Struktur Data                                                | P11 Bimbingan Project                  |

| Temu | Ruang  | Kehadiran                                                     | Bahan Kajian                                                                                                | BAP                            |
|------|--------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------|
| 12   | 602-B2 | 2026-06-18<br>07:30-10:00<br>Masuk:<br>07:31:25 -<br>09:55:09 | Graph dan matriks penyajian Graph Struktur Data                                                             | P12 Bimbingan Project Program  |
| 13   | 602-B2 | 2026-06-25<br>07:30-10:00<br>Masuk:<br>07:31:00 -<br>09:53:11 | Penyelesaian dengan menerapkan konsep array, linked list, stack, queue, binary tree dan graph Struktur Data | P13 Presentasi Project Program |
| 14   | 602-B2 | 2026-07-02<br>07:30-10:00<br>Masuk:<br>07:31:28 -<br>09:58:54 | Penyelesaian dengan menerapkan konsep array, linked list, stack, queue, binary tree dan graph Struktur Data | P14 Presentasi Project Program |
| 15   | 602-B2 | 2026-07-09<br>07:30-10:00<br>Masuk:<br>07:31:21 -<br>09:45:40 | Latihan soal dari materi 9 – 14 Struktur Data                                                               | P15 Presentasi Project Program |
| 16   | 602-B2 | 2026-07-16<br>07:30-10:00<br>Masuk:<br>07:30:00 -<br>08:45:00 | UAS                                                                                                         |                                |

### Presensi Kehadiran

| # | Nim      | Nama            | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | Total |
|---|----------|-----------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|-------|
| 1 | 17250030 | MUHAMMAD NAUFAL | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 8     |
| 2 | 17250054 | RENDI MUHAMMAD  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1  | 0  | 1  | 0  | 1  | 1  | 0  | 12    |

| #  | Nim      | Nama                             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | Total |
|----|----------|----------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|-------|
| 3  | 17250062 | ANDHIKA<br>MIFTAHUR<br>ROHMAN    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1  | 1  | 1  | 1  | 0  | 1  | 0  | 13    |
| 4  | 17250063 | NABIL FRISHANDI<br>SAPUTRA       | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 0  | 14    |
| 5  | 17250074 | RUSDAN KAFI<br>DHIYAUDDIN        | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 0  | 13    |
| 6  | 17250132 | IBRAHIM ZAHIER                   | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0  | 1  | 1  | 0  | 1  | 1  | 0  | 10    |
| 7  | 17250154 | MUHAMMAD<br>ERFAN DWI<br>PRATAMA | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0  | 1  | 1  | 1  | 1  | 1  | 0  | 13    |
| 8  | 17250159 | FAJRI RAMADHANA<br>HARAHAP       | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 9     |
| 9  | 17250169 | DEZAR AHMAD<br>RAMADHAN          | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 0  | 14    |
| 10 | 17250176 | WISNUNEGORO<br>PANGGITO          | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1  | 0  | 1  | 1  | 1  | 1  | 0  | 13    |
| 11 | 17250194 | NASYA ANGELICA<br>FIRMANSYAH     | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0  | 0  | 1  | 1  | 0  | 1  | 0  | 11    |
| 12 | 17250209 | JASON KURNIAWAN<br>WIRANATA      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1  | 1  | 1  | 1  | 1  | 1  | 0  | 14    |
| 13 | 17250230 | MUHAMMAD<br>GIBRAN BAIHAQI       | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0  | 1  | 1  | 1  | 1  | 0  | 0  | 10    |
| 14 | 17250256 | NABILA NATALIA<br>MUMTAZ SARAGIH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1  | 1  | 0  | 1  | 1  | 1  | 0  | 13    |



| #                             | Nim      | Nama                      | 1         | 2         | 3         | 4         | 5         | 6         | 7         | 8        | 9         | 10        | 11        | 12        | 13        | 14        | 15        | 16       | Total    |
|-------------------------------|----------|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|
| 28                            | 17250424 | JAMES MATTHEW UTAMA       | 1         | 1         | 1         | 1         | 1         | 0         | 0         | 0        | 1         | 1         | 0         | 1         | 1         | 0         | 0         | 0        | 9        |
| 29                            | 17250441 | FADHILLAH ACHMAD MAULANI  | 1         | 1         | 1         | 0         | 1         | 1         | 1         | 0        | 1         | 1         | 1         | 1         | 1         | 0         | 1         | 0        | 12       |
| 30                            | 17250442 | MUROBBI AHMAD TSAAQIB     | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 0        | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 0        | 14       |
| 31                            | 17250445 | MUHAMMAD RIZAL PRATAMA    | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 0        | 1         | 1         | 0         | 1         | 1         | 1         | 1         | 0        | 13       |
| 32                            | 17250446 | MUHAMMAD BAHRUDDIN BAHRI  | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 0        | 1         | 0         | 1         | 1         | 1         | 1         | 1         | 0        | 13       |
| 33                            | 17250456 | BAYU SAPUTRA              | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 0        | 0         | 1         | 1         | 1         | 1         | 1         | 0         | 0        | 12       |
| 34                            | 17250479 | NAUFAL SULAIMAN SUMANTRI  | 1         | 0         | 1         | 1         | 1         | 1         | 1         | 0        | 1         | 1         | 1         | 0         | 1         | 1         | 1         | 0        | 12       |
| 35                            | 17250484 | CHRISTIAN BRYAN ANDRIANTO | 1         | 1         | 1         | 0         | 0         | 1         | 0         | 0        | 0         | 1         | 0         | 0         | 0         | 0         | 0         | 0        | 5        |
| 36                            | 17250489 | SHARA ALDITHASARIE DEVI   | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 0        | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 0        | 14       |
| 37                            | 17250509 | HIDAYAH                   | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 0        | 1         | 1         | 0         | 1         | 0         | 0         | 1         | 0        | 11       |
| 38                            | 17250521 | RIFALDI KRISNANTO         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 0        | 1         | 0         | 1         | 1         | 1         | 1         | 1         | 0        | 13       |
| 39                            | 17250544 | RAMO RADJA                | 1         | 1         | 1         | 1         | 0         | 1         | 0         | 0        | 1         | 1         | 0         | 1         | 0         | 0         | 0         | 0        | 8        |
| 40                            | 17250546 | EGA PATRIA PAHLAWAN       | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 0        | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 0        | 14       |
| <b>Total Kehadiran Harian</b> |          |                           | <b>40</b> | <b>37</b> | <b>38</b> | <b>35</b> | <b>36</b> | <b>36</b> | <b>33</b> | <b>0</b> | <b>36</b> | <b>32</b> | <b>28</b> | <b>34</b> | <b>34</b> | <b>31</b> | <b>32</b> | <b>0</b> | <b>-</b> |

## Penilaian

| #  | Nim      | Nama                          | Presensi | Tugas | UTS | UAS | Grade Akhir |
|----|----------|-------------------------------|----------|-------|-----|-----|-------------|
| 1  | 17250030 | MUHAMMAD NAUFAL               | 0        | 0     | 0   | 0   | B           |
| 2  | 17250054 | RENDI MUHAMMAD                | 0        | 0     | 0   | 0   | A           |
| 3  | 17250062 | ANDHIKA MIFTAHUR ROHMAN       | 0        | 0     | 0   | 0   | A           |
| 4  | 17250063 | NABIL FRISHANDI SAPUTRA       | 0        | 0     | 0   | 0   | A           |
| 5  | 17250074 | RUSDAN KAFI DHIYAUDDIN        | 0        | 0     | 0   | 0   | A           |
| 6  | 17250132 | IBRAHIM ZAHIER                | 0        | 0     | 0   | 0   | B           |
| 7  | 17250154 | MUHAMMAD ERFAN DWI PRATAMA    | 0        | 0     | 0   | 0   | A           |
| 8  | 17250159 | FAJRI RAMADHANA HARAHAHAP     | 0        | 0     | 0   | 0   | B           |
| 9  | 17250169 | DEZAR AHMAD RAMADHAN          | 0        | 0     | 0   | 0   | A           |
| 10 | 17250176 | WISNUNEGORO PANGGITO          | 0        | 0     | 0   | 0   | A           |
| 11 | 17250194 | NASYA ANGELICA FIRMANSYAH     | 0        | 0     | 0   | 0   | A           |
| 12 | 17250209 | JASON KURNIAWAN WIRANATA      | 0        | 0     | 0   | 0   | A           |
| 13 | 17250230 | MUHAMMAD GIBRAN BAIHAQI       | 0        | 0     | 0   | 0   | B           |
| 14 | 17250256 | NABILA NATALIA MUMTAZ SARAGIH | 0        | 0     | 0   | 0   | A           |
| 15 | 17250258 | ADRIAN HERMAWAN PRATAMA       | 0        | 0     | 0   | 0   | B           |

| #  | Nim      | Nama                      | Presensi | Tugas | UTS | UAS | Grade Akhir |
|----|----------|---------------------------|----------|-------|-----|-----|-------------|
| 16 | 17250264 | RIZKY PUTRA AWALUDIN      | 0        | 0     | 0   | 0   | B           |
| 17 | 17250270 | OKTAVIANUS KURNIAWAN AGUN | 0        | 0     | 0   | 0   | B           |
| 18 | 17250280 | MUHAMMAD GHAI TS ABABIL   | 0        | 0     | 0   | 0   | A           |
| 19 | 17250307 | RIDWAN AWALUDIN           | 0        | 0     | 0   | 0   | A           |
| 20 | 17250334 | ARKI FATHIR ARAFI         | 0        | 0     | 0   | 0   | A           |
| 21 | 17250354 | ALFIN RIZKI ACHMAD        | 0        | 0     | 0   | 0   | A           |
| 22 | 17250364 | RADHITYA EKA DAFASHA      | 0        | 0     | 0   | 0   | B           |
| 23 | 17250377 | MUHAMMAD RIZA AZHAR       | 0        | 0     | 0   | 0   | A           |
| 24 | 17250395 | WANDI RUKMANA             | 0        | 0     | 0   | 0   | A           |
| 25 | 17250407 | KELVIN HAVIDZ APRIANO     | 0        | 0     | 0   | 0   | A           |
| 26 | 17250411 | AKMAL ARSYAD ANDIANSYAH   | 0        | 0     | 0   | 0   | A           |
| 27 | 17250417 | MUH RAIHAN NUR DZIKRI     | 0        | 0     | 0   | 0   | A           |
| 28 | 17250424 | JAMES MATTHEW UTAMA       | 0        | 0     | 0   | 0   | B           |
| 29 | 17250441 | FADHILLAH ACHMAD MAULANI  | 0        | 0     | 0   | 0   | B           |
| 30 | 17250442 | MUROBBI AHMAD TSAAQIB     | 0        | 0     | 0   | 0   | A           |
| 31 | 17250445 | MUHAMMAD RIZAL PRATAMA    | 0        | 0     | 0   | 0   | A           |

| #  | Nim      | Nama                      | Presensi | Tugas | UTS | UAS | Grade Akhir |
|----|----------|---------------------------|----------|-------|-----|-----|-------------|
| 32 | 17250446 | MUHAMMAD BAHRUDDIN BAHRI  | 0        | 0     | 0   | 0   | A           |
| 33 | 17250456 | BAYU SAPUTRA              | 0        | 0     | 0   | 0   | A           |
| 34 | 17250479 | NAUFAL SULAIMAN SUMANTRI  | 0        | 0     | 0   | 0   | A           |
| 35 | 17250484 | CHRISTIAN BRYAN ANDRIANTO | 0        | 0     | 0   | 0   | D           |
| 36 | 17250489 | SHARA ALDITHASARIE DEVI   | 0        | 0     | 0   | 0   | A           |
| 37 | 17250509 | HIDAYAH                   | 0        | 0     | 0   | 0   | A           |
| 38 | 17250521 | RIFALDI KRISNANTO         | 0        | 0     | 0   | 0   | A           |
| 39 | 17250544 | RAMO RADJA                | 0        | 0     | 0   | 0   | C           |
| 40 | 17250546 | EGA PATRIA PAHLAWAN       | 0        | 0     | 0   | 0   | A           |