



Kontrak Kuliah

Fakultas Sains dan Teknologi

Universitas PGRI Yogyakarta

Nama Dosen : R. Hafid Hardyanto, M.Pd
Mata Kuliah : Interfacing dan Pheriperel
Program Studi : Informatika
Kelas/Angkatan : 21 A2/ 2021
Semester : 5
Tahun Akademik : 2023/2024

Capaian Pembelajaran/*Learning Outcome* :

Setelah mengikuti pembelajaran dengan tuntas, mahasiswa diharapkan memiliki kemampuan membuat desain antarmuka dengan pemanfaatan perangkat peripheral dan antarmuka dalam teknologi informasi, seperti : 1. Mahasiswa dapat memahami konsep antarmuka, interkoneksi antarkomponen, sinyal dan protokol dalam antarmuka; 2. Mahasiswa dapat mengerti dasar dan mengimplementasikan teknik antarmuka untuk perangkat masukan dan keluaran secara direct I/O, program-controlled I/O maupun DMA; 3. Memahami siklus transfer I/O baik secara polling maupun interupsi; 4. Mahasiswa dapat mengerti dan mengimplementasikan teknik antarmuka memori dan flash; 5. Mahasiswa dapat mengerti antarmuka standar baik paralel maupun serial beserta peripheralnya.

Soft Skills

Setelah mengikuti pembelajaran dengan tuntas, mahasiswa diharapkan berpolapikir dan berperilaku solutif terhadap realita permasalahan yang ada, dengan menggunakan metode yang telah dikuasai secara logis, jujur, teliti, cermat, konsisten, kerjasama dan tolong menolong dengan sesama, dan memiliki komitmen yang kuat.

Bahan Kajian

1. Interfacing Layer
2. CPU dan Mikrokomputer:
 - Antarmuka CPU
 - Antarmuka RAM
3. Operasi CPU & Memori:
 - Antarmuka BUS
 - Dekoding Alamat
4. Komunikasi Paralel
5. Komunikasi Serial :
 - Asinkron
 - Sinkron
6. Desain Mikrokontroler:
 - Arsitektur
 - Memori
 - I/O
7. Teknik pemrograman antar muka:
 - Pendahuluan
 - Pemrograman Hardware & Software
8. Pemrograman antarmuka hardware :
 - Pengenalan mikrokontroler atmega328
 - Akses I/O
 - Komunikasi serial mikrokontroler
9. Pemrograman antarmuka software:
 - Pengenalan visual C

- Penggunaan label, text, button
10. Pemrograman antarmuka software : project desain antarmuka smart home
 11. Pemrograman antarmuka software & hardware : komunikasi serial software dengan peripheral

Ketentuan


1. Kehadiran perkuliahan online minimal 75%.
2. Mahasiswa wajib mengikuti UAS.
3. Wajib mengumpulkan tugas

Penilaian

No	Uraian	Bobot (%)
1	Presensi kehadiran online	5%
3	Tugas / uji kompetensi	35%
4	Kuis	35%
5	UAS	25%

Yogyakarta, 12 September 2023

Kaprodi Teknik Informatika



Puji Handayani Putri, S.T., M.Kom.
NIS. 19900222 201601 2 001

Dosen Pengampu



R. Hafid Hardyanto, M.Pd
NIS. 19871205 201604 1 012

Ketua Kelas



(Jaguar Patmayoni)
NPM. 211111 000 60



Universitas PGRI Yogyakarta

Jl. PGRI I Sonosewu No. 117 Yogyakarta Telp. 0274-376808, 373198 Fax. 0274-376808

DAFTAR HADIR KULIAH

Program Studi : INFORMATIKA
 Tahun Akademik : 2023/2024
 Semester : GASAL
 Dosen : R. HAFID HARDYANTO [0505128703]

Kode Matakuliah : TKM11141
 Matakuliah : INTERFACING DAN PERIPHERAL
 Bobot : 4 SKS
 Kelas : 21-A2

Semester : 5
 Hari : -
 Pukul : 00:00 s.d. 00:00
 Ruang :

No	NP Mahasiswa	Nama Mahasiswa	B/U/P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Jumlah Hadir	% Hadir
1	18111100030	PANJI PANGESTU		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	12	86
2	21111100033	QUIRINUS FARNO DEHU		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
3	21111100034	MUHAMMAD IHSAN RIZALDI	✓	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
4	21111100044	OCTA MIRAZ		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
5	21111100045	ACHMAD IMAM DAIROBBI		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
6	21111100046	NADIA RAHMAWATI		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
7	21111100047	RIZQI PANGESTU NUGROHO	✓	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
8	21111100048	TEGUH FAJAR NUGROHO		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
9	21111100050	DESTY NUR KUMALASARI		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
10	21111100051	ARUL KHARISMA		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
11	21111100053	RIZKY EKA FERDIANSYAH		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
12	21111100056	MAHENDRA HARUMBA		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
13	21111100058	NIRMALA ARUMNINGTYAS	✓	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
14	21111100060	JAGUAR PATMAYONI	✓	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
15	21111100065	RIZKI SULISTIYO JATI																	0	0
16	22111100003	THEO DEVANKA ORLANDO		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	12	86
17	22111100016	RISKA CHOERINI		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
18	22111100017	NORA ASYIFA		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	15	100
19	22111100020	NUR IKHSAN YOGA SAPUTRA		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	14	96
20	22111100028	MUHAMMAD SABIQ KAMAL MUJTABA		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	14	96



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 Ruang :

No	NP Mahasiswa	Nama Mahasiswa	B/U/P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Jumlah Hadir	% Hadir
21	22111100031	MUHAIMIN	-	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	15	100
22	22111100033	MELIA		MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	15	100
23	22111100035	SATRIA ANGGARA YUDHA		MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	14	96
24	22111100037	RIZAL FAHRI IRAWAN		MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	14	96
25	22111100039	M. BADRUL UMAM CHOLIDI		MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	15	100
26	22111100047	NAUFAL SYARIFUDDIN		MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	15	100
27	2111100069	Eva Indira Widha Kirana		MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	15	100
28	2111100066	IFANDA ARIEL PRADANA ARI	✓	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	14	96
29	2211100008	BUKMAWATI Kalende		MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	14	96
30	2211100023	PUTRI LUIS GANTI	✓	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	14	96
31	2111100006	Arjuna Tanjung		MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	15	100
32	2111100009	Ananda Khanu Iancoro Jati		MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	15	100
33	2211100018	Stevani G.A. Sedik		MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	14	96



PRESENSI DOSEN MENGAJAR

TA. 2023/2024 Sem. GASAL

Program Studi : INFORMATIKA
Matakuliah : INTERFACING DAN PERIPHERAL [TKM11141]
Bobot : 4 SKS
Dosen : R. HAFID HARDYANTO [0505128703]

Kelas : 21-A2
Hari : -
Pukul : 00:00 s.d. 00:00
Ruang : -

Pert	Tanggal	Pokok Bahasan	Sub-Pokok Bahasan	Jml Mhs	Paraf
I	12/9/23	Kontrak kuliah Introduction Interfacing	- Kontrak kuliah - Introduction interfacing	32	H
II	19/9/23	Interfacing layer	Interfacing layer	32	H
III	26/9/23	CPU & mikrokomputer	- antarmuka CPU - antarmuka RAM	32	H
IV	3/10/23	Operasi CPU & memori	- antarmuka Bus - Deteksi Alamat	32	H
V	10/10/23	Komunikasi Serial	Asinkron, Sinkron	32	H
VI	17/10/23	Komunikasi Paralel	Komunikasi Paralel	32	H
VII	24/10/23	Desain mikrokontroler	- Arsitektur - I/O - memori	32	H
VIII	31/10/23	UTS	CPU, mikrokomputer, memori	32	H
IX	7/11/23	Teknik Pemrograman antar muka	Pemrograman hardware dan software	32	H
X	14/11/23	Pemrograman antarmuka Hardware	- Pengenalan mikrokontroler - Akses I/O	27	H
XI	21/11/23	Pemrograman antarmuka software	- Pengenalan VB - Label, text, button	31	H
XII	28/11/23	antarmuka software	- Desain Project Smarthome	32	H
XIII	5/12/23	Pemrograman antar muka soft & hard	Komunikasi serial software dengan periperal	32	H
XIV	12/12/23	Uji kompetensi	antarmuka software & hardware	27	H
XV	2/1/24	UAS	- komunikasi serial - Pemrograman Hardware & Software	27	H



PRESENSI UJIAN AKHIR SEMESTER GASAL
TAHUN AKADEMIK 2023/2024

Program Studi : INFORMATIKA – S1
Matakuliah : INTERFACING DAN PERIPHERAL
Kode MK : TKM11141
Dosen : R. HAFID HARDYANTO, M.PD

Kelas : 21-A2
Ruang : LD
Hari/Tanggal : Selasa, 02-01-2024
Waktu : 15:00 - 16:00

No	NPM	Nama Mahasiswa	B/U/P	Tanda Tangan	Nilai
1	18111100030	PANJI PANGESTU	B		A
2	21111100033	QUIRINUS FARNO DEHU	B		A-
3	21111100034	MUHAMMAD IHSAN RIZALDI	B		A
4	21111100044	OCTA MIRAZ	B		A
5	21111100045	ACHMAD IMAM DAIROBBI	B		A
6	21111100046	NADIA RAHMAWATI	B		A
7	21111100047	RIZQI PANGESTU NUGROHO	B		A
8	21111100048	TEGUH FAJAR NUGROHO	B		A
9	21111100050	DESTY NUR KUMALASARI	B		A
10	21111100051	ARUL KHARISMA	B		A
11	21111100053	RIZKY EKA FERDIANSYAH	B		A
12	21111100056	MAHENDRA HARUMBA	B		D
13	21111100058	NIRMALA ARUMNINGTYAS	B		A
14	21111100060	JAGUAR PATMAYONI	B		A
15	21111100062	ADE SHOFI NURFANA	B		D
16	21111100065	RIZKI SULISTIYO JATI	B		A
17	22111100003	THEO DEVANKA ORLANDO	B		B+
18	22111100008	SUKMAWATI KALENDE	B		B
19	22111100016	RISKA CHOERINI	B		B+
20	22111100017	NORA ASYIFA	B		A
21	22111100018	STEVANI GABRIELLA AYUK SEDIK	B		B
22	22111100020	NUR IKHSAN YOGA SAPUTRA	B		A
23	22111100023	PUTRI LUIS SANTI	B		B
24	22111100028	MUHAMMAD SABIQ KAMAL MUJTABA	B		A-
25	22111100031	MUHAIMIN	B		B+

**PRESENSI UJIAN AKHIR SEMESTER GASAL
TAHUN AKADEMIK 2023/2024**

Program Studi : INFORMATIKA -- S1

Kelas : 21-A2

Matakuliah : INTERFACING DAN PERIPHERAL

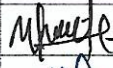




Ruang : LD

Kode MK : TKM11141

Hari/Tanggal : Selasa, 02-01-2024

Dosen : R. HAFID HARDYANTO, M.PD

Waktu : 15:00 - 16:00

No	NPM	Nama Mahasiswa	B/U/P	Tanda Tangan	Nilai
26	22111100033	MELIA	B		B+
27	22111100035	SATRIA ANGGARA YUDHA	B		B+
28	22111100037	RIZAL FAHRI IRAWAN	B		A
29	22111100039	M. BADRUL UMAM CHOLIDI	B		A
30	22111100047	NAUFAL SYARIFUDDIN	B		A

Pengawas

Yogyakarta, 02-01-2024

1. (_____)
2. (_____)
3. (_____)
4. (_____)



R. HAFID HARDYANTO, M.PD

31 20111100047 RAY NAUFAL

