LAMPIRAN

Lampiran 1. Proses wawancara bersama kaprodi

Lampiran 2. Hasil konversi kaprodi secara manual

Sisa Matakuliah pada semester 7 yang harus ditempuh

Kode	Matakuliah	SKS	Semester	Jadwal	Ruang
KKTI4153	Metode Penelitian II (Skripsi)	2	7		
		2			

Konversi

	Kode	Matakuliah Asal	SKS	Semester	Matakuliah Tujuan	SKS	Nilai
input semester 7 - 2024/2025 Ganjil	KKTI4166	Jaringan Syaraf Tiruan	3	7	Tensorflow: Advanced Techniques Specialization	3	
					Build Basic Generative Adversarial Networks	2	
input semester 7 - 2024/2025 Ganjil	KPTI4155	Managemen Teknologi Informasi	2	7	Tensorflow Data and Deployment	3	
input semester 7 - 2024/2025 Ganjil	KKTI4154	Multimedia	3	7	Structure ML Project	2	
input semester 7 - 2024/2025 Ganjil	KPTI4157	Pengujian Perangkat Lunak	3	7	Capstone / Final Project	5	
					Soft Skill & Carrier Development	5	
		11				20	

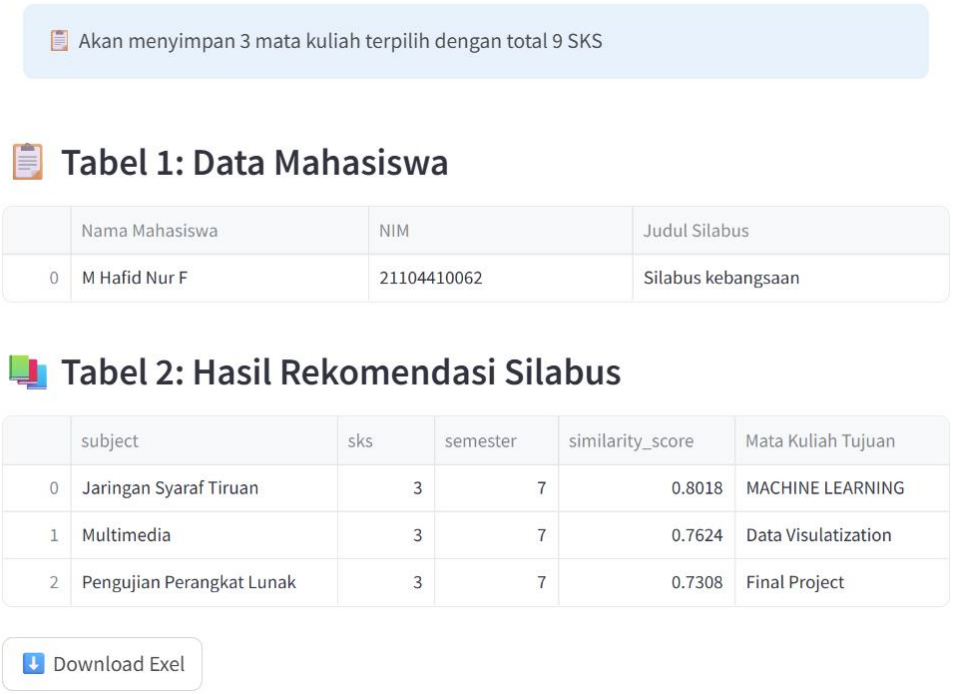
Sisa Matakuliah pada semester 7 yang harus ditempuh

	Kode	Matakuliah	SKS	Semester	Jadwal	Ruang
input semester 7 - 2024/2025 Ganjil	KPTI4152	Etika Profesi Teknologi Informasi	3	7		
input semester 7 - 2024/2025 Ganjil	KKTI4153	Metode Penelitian II (Skripsi)	2	7		
			5			

Konversi

	Kode	Matakuliah Asal	SKS	Semester	Matakuliah Tujuan	SKS	Nilai
input semester 7 - 2024/2025 Ganjil	KPTI4155	Managemen Teknologi Informasi	2	7	Foundation for Data Science	4	
					Data Preprocessing	4	
input semester 7 - 2024/2025 Ganjil	KKTI4166	Jaringan Syaraf Tiruan	3	7	Machine Learning	4	
input semester 7 - 2024/2025 Ganjil	KKTI4154	Multimedia	3	7	Data Visualization	3	
input semester 7 - 2024/2025 Ganjil	KPTI4157	Pengujian Perangkat Lunak	3	7	Final Project and Showcase	5	
			11			20	

Lampiran 3. Hasil rekomendasi konversi di website



Lampiran 4. *Source Code* Tampilan Website Konversi Matakuluah

```
import streamlit as st
import pandas as pd
import json
from conversionData import conversionData
from ConvetFileToText import uploadFile

st.markdown(
    """
    <style>
        /* General styling */
        body {
            background-color: #f0f7f4;
            font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
        }
        .main-container {
            background-color: #ffffff;
            padding: 2rem;
            border-radius: 12px;
            box-shadow: 0 4px 20px rgba(0, 100, 0, 0.08);
            margin: 1rem;
            max-width: 1200px;
            margin-left: auto;
            margin-right: auto;
            min-height: 400px;
        }
```

```
h1 {
    color: #2e7d32;
    font-size: 2.2rem;
    margin-bottom: 1rem;
    text-align: center;
}
h2, h3 {
    color: #2e7d32;
    font-size: 1.5rem;
}
p {
    color: #4a4a4a;
    font-size: 1.1rem;
}

/* Input section styling */
.input-section {
        background-color: #f9fcf9;

    padding: 1.5rem;
    border-radius: 10px;
    border: 2px solid #c8e6c9;
    margin: 1.5rem 0;
}

/* Radio button styling */
.stRadio > label {
    color: #2e7d32;
    font-weight: 500;
    font-size: 1.1rem;
    padding: 0.5rem;
    border-radius: 8px;
    transition: background-color 0.3s ease;
}
.stRadio > label:hover {
    background-color: #c8e6c9;
}

/* Text area and file uploader styling */
.stTextArea textarea, .stFileUploader {
    border: 2px solid #c8e6c9;
    border-radius: 8px;
    background-color: #ffffff;
    transition: border-color 0.3s ease;
}
.stTextArea textarea:focus, .stFileUploader:hover {
    border-color: #2e7d32;
}
```

```
        /* Button styling */
        .stButton>button {
            background-color: #2e7d32;
            color: white;
            border-radius: 10px;
            padding: 0.6rem 1.5rem;
            font-weight: 500;
            transition: all 0.3s ease;
            width: 100%;
        }
        .stButton>button:hover {
            background-color: #1b5e20;
            transform: translateY(-2px);
        }

        /* Success and warning messages */
        .stAlert {
            border-radius: 8px;
            padding: 1rem;
            font-size: 1rem;
        }

        /* TABLE STYLING - ENHANCED */
        .dataframe {
            border: none !important;
            border-radius: 12px !important;
            overflow: hidden !important;
            box-shadow: 0 4px 20px rgba(0, 100, 0, 0.15) !important;
            font-family: 'Segoe UI', sans-serif !important;
        }

        .dataframe thead tr {
            background: linear-gradient(135deg, #2e7d32 0%, #4caf50 100%)
!important;
        }

        .dataframe thead th {
            color: white !important;
            font-weight: 600 !important;
            padding: 15px 20px !important;
            text-align: left !important;
            border: none !important;
            font-size: 1rem !important;
        }

        .dataframe tbody td {
            padding: 15px 20px !important;
```

```
    border-bottom: 1px solid #e8f5e9 !important;
    color: #424242 !important;
    font-size: 0.95rem !important;
    line-height: 1.5 !important;
}

.dataframe tbody tr:nth-child(even) {
    background-color: #f9fcf9 !important;
}

.dataframe tbody tr:hover {
    background-color: #e8f5e9 !important;
    transform: scale(1.01) !important;
    transition: all 0.2s ease !important;
}

.result-header {
    background: linear-gradient(135deg, #2e7d32 0%, #4caf50 100%);
    color: white;
    padding: 1rem 1.5rem;
    border-radius: 10px;
    margin-bottom: 1.5rem;
    text-align: center;
    font-size: 1.3rem;
    font-weight: 600;
}

/* Metric Cards */
.metric-row {
    display: flex;
    gap: 20px;
    margin: 20px 0;
    flex-wrap: wrap;
}

.metric-card {
    background: white;
    padding: 1.5rem;
    border-radius: 12px;
    text-align: center;
    box-shadow: 0 4px 15px rgba(0, 100, 0, 0.1);
    border-top: 4px solid #4caf50;
    fle
    width:full;
    transition: all 0.3s ease;
}

.metric-card:hover {
```

```
    transform: translateY(-5px);
    box-shadow: 0 8px 25px rgba(0, 100, 0, 0.2);
}

.metric-number {
    font-size: 2rem;
    font-weight: bold;
    color: #2e7d32;
    margin-bottom: 0.5rem;
}

.metric-label {
    color: #666;
    font-size: 0.9rem;
    text-transform: uppercase;
    letter-spacing: 1px;
}

/* Download Button Special Styling */
.download-section {
    text-align: center;
    margin: 2rem 0;
    padding: 1.5rem;
    background: linear-gradient(135deg, #e8f5e9 0%, #f1f8e9 100%);
    border-radius: 12px;
    border: 2px dashed #4caf50;
}

/* Animations */
@keyframes fadeIn {
    from { opacity: 0; transform: translateY(10px); }
    to { opacity: 1; transform: translateY(0); }
}
.main-container, .result-section {
    animation: fadeIn 0.6s ease-in;
}

/* Hide sidebar completely */
.css-1lcbmhc.e1fqkh3o0 {
    display: none;
}
.css-1d391kg.e1fqkh3o1 {
    padding-left: 1rem;
}

/* Status Badge */
.status-badge {
    display: inline-block;
```

```
            padding: 5px 12px;
            border-radius: 20px;
            font-size: 0.8rem;
            font-weight: 600;
            text-transform: uppercase;
            letter-spacing: 0.5px;
        }
        .status-wajib {
            background: #ffebee;
            color: #c62828;
            border: 1px solid #ef5350;
        }
        .status-pilihan {
            background: #e3f2fd;
            color: #1565c0;
            border: 1px solid #42a5f5;
        }
        .status-praktek {
            background: #f3e5f5;
            color: #7b1fa2;
            border: 1px solid #ab47bc;
        }
    </style>
""",
    unsafe_allow_html=True,
)

# Initialize session state for form submissions
if "text_submitted" not in st.session_state:
    st.session_state.text_submitted = False
if "file_submitted" not in st.session_state:
    st.session_state.file_submitted = False
if "input_text" not in st.session_state:
    st.session_state.input_text = ""
if "uploaded_file" not in st.session_state:
    st.session_state.uploaded_file = None

# Hasil dari Konversi Akan Ditampilkan Disini
def create_sample_results():
    """Create sample data for demonstration"""
    sample_data = {
        "Nama Mata Kuliah": [
            "Algoritma dan Pemrograman I",
            "Matematika Diskrit",
            "Struktur Data",
            "Basis Data",
            "Rekayasa Perangkat Lunak",
        ],
```

```
        "SKS": [3, 3, 3, 3, 4],
        "Semester": [1, 1, 2, 2, 3],
        "Deskripsi": [
            "Pengenalan konsep algoritma dan pemrograman dasar",
            "Konsep matematika diskrit untuk ilmu komputer",
            "Implementasi struktur data dalam pemrograman",
            "Desain dan implementasi basis data",
            "Metodologi pengembangan perangkat lunak",
        ],
    }
    return pd.DataFrame(sample_data)

def display_conversion_results():
    """Display beautiful conversion results with tables and metrics"""
    st.markdown('<div class="result-section">', unsafe_allow_html=True)
    st.markdown(
        '<div class="result-header">📊 Hasil Konversi Silabus</div>',
        unsafe_allow_html=True,
    )

    # Create sample data
    df = conversionData(st.session_state.input_text or
st.session_state.input_text_file)
    df = df[df["semester"] == semester]
    total_mata_kuliah = len(df)
    total_sks = df["sks"].sum()

    # Display metrics
    col1, col2, col3 = st.columns(3)

    with col1:
        st.markdown(
            f"""
    <div class="metric-card">
        <div class="metric-number">{total_mata_kuliah}</div>
        <div class="metric-label">Total Mata Kuliah</div>
    </div>
    """,
            unsafe_allow_html=True,
        )

    with col2:
        st.markdown(
            f"""
        <div class="metric-card">
            <div class="metric-number">{total_sks}</div>
            <div class="metric-label">Total SKS</div>
        </div>
```

```
        """,
            unsafe_allow_html=True,
        )

    with col3:
        st.markdown(
            f"""
        <div class="metric-card">
            <div class="metric-number">{semester}</div>
            <div class="metric-label">Semester</div>
        </div>
        """,
            unsafe_allow_html=True,
        )

    st.markdown("---")

    # Display main conversion table
    st.subheader("📋 Tabel Konversi Mata Kuliah")

    # Display the main table
    st.dataframe(
        df,
        use_container_width=True,
        hide_index=True,
        column_config={
            "Nama Mata Kuliah": st.column_config.TextColumn(
                "Nama Mata Kuliah", width="large"
            ),
            "SKS": st.column_config.NumberColumn("SKS", width="small"),
            "Semester": st.column_config.NumberColumn("Semester",
width="small"),
            "Deskripsi": st.column_config.TextColumn("Deskripsi", width="large"),
        },
    )
    # Download section
    st.markdown('<div class="download-section">', unsafe_allow_html=True)
    st.markdown("### 💾 **Unduh Hasil Konversi**")
    st.markdown(
        "Klik tombol di bawah untuk mengunduh hasil konversi dalam format yang
diinginkan:"
    )

    col1, col2, col3 = st.columns(3)
    with col1:
        csv = df.to_csv(index=False)
        st.download_button(
            label="📄 Download CSV",
```

```
            data=csv,
            file_name="hasil_konversi_silabus.csv",
            mime="text/csv",
        )

    st.markdown("</div>", unsafe_allow_html=True)
    st.markdown("</div>", unsafe_allow_html=True)

# Main app layout
st.title("🎓 Konversi Silabus Matakuliah 2025")
st.markdown("---")

# Input section in main content
st.subheader("📝 Pilih Mode Input")

# Mode selection
input_mode = st.radio(
    "Bagaimana Anda ingin memasukkan silabus?",
    ["📄 Deskripsi Teks", "📁 Unggah File"],
    index=0,
)

st.markdown("---")

# Form for text input
if input_mode == "📄 Deskripsi Teks":
    st.subheader("✍️ Masukkan Deskripsi Silabus")
    with st.form("form_text"):
        text_input = st.text_area(
            "Deskripsi Silabus:",
            height=200,
            placeholder="Contoh: Mata kuliah ini membahas tentang pemrograman
dasar, algoritma, dan struktur data. Mahasiswa akan mempelajari konsep-konsep
fundamental dalam pemrograman menggunakan bahasa Python...",
            help="Masukkan deskripsi lengkap silabus mata kuliah Anda",
        )

        semester = st.number_input(
            "Semester Mahasiswa:", min_value=1, max_value=14, step=1
        )

        col1, col2, col3 = st.columns([1, 1, 1])
        with col2:
            submit_text = st.form_submit_button("🚀 Konversi Deskripsi Teks")

        if submit_text:
            if text_input.strip():
```

```
            st.session_state.input_text = text_input
            st.session_state.text_submitted = True
            st.session_state.file_submitted = False
            st.session_state.uploaded_file = None
            st.session_state.semester = semester
            st.session_state.input_text_file = ""
            st.rerun()
        else:
            st.error(" ⚠️ Harap masukkan deskripsi silabus terlebih dahulu!")

# Form for file upload
elif input_mode == " 📁 Unggah File":
    st.subheader(" 📩 Unggah File Silabus")
    with st.form("form_file"):
        uploaded_file = st.file_uploader(
            "Pilih File Silabus:",
            type=["txt", "pdf", "docx"],
            help="Format yang didukung: .txt, .pdf, .docx (maksimal 200MB)",
        )
        semester = st.number_input(
            "Semester Mahasiswa:", min_value=1, max_value=14, step=1
        )

        col1, col2, col3 = st.columns([1, 1, 1])
        with col2:
            submit_file = st.form_submit_button(" 🚀 Konversi File Silabus")

        if submit_file:
            if uploaded_file is not None:
                st.session_state.uploaded_file = uploaded_file
                st.session_state.file_submitted = True
                st.session_state.text_submitted = False
                st.session_state.input_text = ""
                st.session_state.semester = semester
                # function to Upload File
                data = uploadFile(uploaded_file)
                print(data)
                st.session_state.input_text_file = data
                st.rerun()
            else:
                st.error(" ⚠️ Harap pilih file untuk diunggah!")

# Results section
st.markdown("---")

# Display results based on submission
if st.session_state.text_submitted and st.session_state.input_text:
```

```
    st.success("☑ Deskripsi berhasil diterima")

    # Show conversion results
    display_conversion_results()

    # Add a reset button
    if st.button("🔄 Input Baru"):
        st.session_state.text_submitted = False
        st.session_state.input_text = ""
        st.rerun()

elif st.session_state.file_submitted and st.session_state.uploaded_file:
    st.success("☑ File berhasil diunggah dan sedang diproses!")

    with st.expander("📁 Detail File yang Diunggah", expanded=False):
        st.write(f"**Nama File:** {st.session_state.uploaded_file.name}")
        st.write(f"**Ukuran:** {st.session_state.uploaded_file.size} bytes")
        st.write(f"**Tipe:** {st.session_state.uploaded_file.type}")

    # Show conversion results
    display_conversion_results()

    # Add a reset button
    if st.button("🔄 Input Baru"):
        st.session_state.file_submitted = False
        st.session_state.uploaded_file = None
        st.rerun()

else:
    st.info(
        "👋 Selamat datang! Silakan pilih mode input di atas dan masukkan data silabus untuk memulai konversi."
    )

# Footer
st.markdown("---")
st.markdown(
    """
    <div style='text-align: center; color: #666; padding: 1rem;'>
        <small>🎓 Sistem Konversi Silabus Matakuliah 2025 | Dibuat dengan M HAFID NUR FIRMANSYAH ❤️</small>
    </div>
    """,
    unsafe_allow_html=True,
```