


Proyek Akhir <i>Final Project</i>	
COMP6360 Algorithm and Programming	
Teknik Informatika <i>Computer Science</i>	
Periode Berlaku Mulai Semester Ganjil 2019/2020 <i>Valid on Odd Semester Year 2019/2020</i>	Revisi 00 <i>Revision 00</i>

Learning Outcomes

- LO 1: Explain kind of algorithms in problem solving
- LO 2: Apply syntax and functions in C language in problem solving
- LO 3: Construct a program using C language in problem solving
- LO 4: Design a program with file processing using C language in problem solving
- LO 5: Choose the best sorting and searching algorithm in problem solving

Topic

- IDE and I/O instruction Syntax I/O and Variable
- Arithmetic Operation
- Selection
- Repetition
- Array 1 D, Array 2 D
- Function
- Recursive
- File
- Sorting
- Searching

Project Description

- Every 2 or 3 students will do a team project that contain all practicum topics above (10 topics) or 9 topics above.
- Project theme can be various for example making a library program, online retail program, offline retail program, text editor program, explorer program, and so on. Student can choose one of these theme or propose another theme that can be approved by each practicum class lecturer.
- Each team must submit two types of report =
 - softcopy that have to submitted in binusmaya 1 day before last practicum class
 - hardcopy that have to submitted to each class lecturer in last practicum class
- Student need to being guided at least two times during project making.

- In the first assistance session, each group must already have:
 - (1) a plan or idea for the project theme that will be done, (2) the division of tasks in the group, and (3) scope of the project.
- In the second assistance session, each group must have done at least 50% of the project assignments.
- Student must randomly present their project result in the last practicum class.
- At the presentation session, all students must not absent unless they will get penalty -10 point except for (1) sick student that bring illness letter from a doctor, (2) student that bring family grief letter listed on a family card or (3) student that bring letter of assignment from the department.
- Student that absent in his/her team presentation time will get 0 in individual scoring.

Assessment

Component	Weight (%)
Report	20%
Product	20%
Knowledge	24%
Solution	36%

Notes :

- Project type : Group (min 2 student and max 3 student)
- Scoring : Team and individual

Scope

- I. Background
 - Planning
 - Program Definition
- II. References
 - Algorithm and Programming
 - General (teori umum sesuai sektor pembahasan)
- III. Program definition
 - Pseudocode atau flowchart dari program yang akan dibangun
 - Gambaran umum program yang diusulkan
 - penjelasan program yang akan dibangun
 - penjelasan tampilan program yang diinginkan
 - fitur-fitur program yang ingin direalisasikan
 - penjelasan semua proses yang ada dalam program yang akan dibangun, misalnya proses perhitungan.
- IV. Result
 - Screenshot program (tampilan hasil program) and its explanation
 - Source code program

Format

- Font
 - Type : Times New Romance
 - Size : 11
 - Space : 1.5
 - Duplex Printout
- Layout
 - I. Cover (Judul) **(Appendix 01)**
 - II. Approval (Persetujuan Dosen) **(Appendix 02)**
 - III. Content (Isi)
 - BAB 1 Background (Latar Belakang)
 - BAB 2 References (Daftar Pustaka)
 - Minimum 2 sumber
 - BAB 3 Program Definition (Gambaran Umum Program)
 - BAB 4 Result (Hasil)
 - IV. Assessment **(Appendix 03)**

Appendix

<JUDUL>

LAPORAN PROYEK AKHIR
MATA KULIAH COMP6360 – ALGORITHM AND PROGRAMMING
KELAS < KELAS>



Oleh :

<NIM 01> - <NAMA MAHASISWA 01>
<NIM 02> - <NAMA MAHASISWA 02>
<NIM 03> - <NAMA MAHASISWA 03>

Semester [Ganjil, Genap] <tahun akademik>

MALANG

Appendix 01. Template of cover for project report

LEMBAR PERSETUJUAN PROYEK AKHIR

<JUDUL>

**MATA KULIAH COMP6360 – ALGORITHM AND PROGRAMMING
KELAS < KELAS>**

Semester [Ganjil, Genap] <tahun akademik>

Laporan akhir proyek ini adalah benar karya kami :

<ttd>

**(<NAMA MAHASISWA 01>)
<NIM 01>**

<ttd>

**(<NAMA MAHASISWA 02>)
<NIM 02>**

<ttd>

**(<NAMA MAHASISWA 03>)
<NIM 03>**

Malang, -

<ttd>

**(<NAMA DOSEN LAB>)
<KODE DOSEN>**

Appendix 02. Template of cover for project report

LEMBAR PENILAIAN

<JUDUL>

MATA KULIAH COMP6360 – ALGORITHM AND PROGRAMMING
KELAS < KELAS>

Semester [Ganjil, Genap] <tahun akademik>

DAFTAR MAHASISWA	NILAI				BOBOT				KREDIT				TOTAL KREDIT
	1	2	3	4	1	2	3	4	1	2	3	4	
<NIM 01> - <NAMA MAHASISWA 01>					20%	20%	24%	36%					
<NIM 02> - <NAMA MAHASISWA 02>					20%	20%	24%	36%					
<NIM 03> - <NAMA MAHASISWA 03>					20%	20%	24%	36%					
TOTAL													

KETERANGAN :

- **Skala Penilaian : 0 sd 100**
- **Komponen**
 - 1 : Laporan
 - 2 : Produk
 - 3 : Pengetahuan
 - 4 : Solusi

Malang, -

<ttd>

(<NAMA DOSEN LAB>)
<KODE DOSEN>

Appendix 03. Template of project assessment form