

DAFTAR ISI

KATA PENGANTAR.....	i
DAFTAR ISI.....	ii
DAFTAR GAMBAR.....	v
DAFTAR TABEL	vii
BAB 1 PENDAHULUAN	1
1.1. Latar Belakang	1
1.2. Pokok Permasalahan	2
1.3. Pembatasan Masalah	4
1.4. Tujuan Penelitian	6
1.5. Metode Penelitian.....	7
1.5.1. Metode Pengumpulan Data.....	7
1.5.2. Metode Pemecahan Masalah.....	7
1.5.3. Tinjauan Pustaka Penelitian	8
1.5.4. <i>Time Frame</i>	8
1.6. Sistematika Penulisan	10
BAB 2 LANDASAN TEORI	12
2.1. <i>System Life Cycle</i> (SLC)	12
2.1.1. Fase Perencanaan	12
2.1.2. Fase Analisis	13
2.1.3. Fase Desain	13
2.1.4. Fase Implementasi.....	13
2.1.5. Fase Penggunaan.....	15
2.2. <i>Data Flow Diagrams</i> (DFD).....	16
2.2.1. Simbol DFD	16
2.2.2. Tingkatan diagram pada DFD	17
2.3. Basis Data (<i>Database</i>).....	18
2.3.1. <i>Database Management System</i> (DBMS)	18

2.3.2.	Kunci-kunci (<i>Keys</i>)	19
2.3.3.	<i>Entity Relationship Diagram</i> (ERD).....	20
2.3.4.	Normalisasi	23
2.3.5.	SQL	24
2.3.5.1.	<i>Query</i>	25
2.3.5.2.	Fungsi Kalkulasi	26
2.3.5.3.	Pencarian.....	26
2.3.5.4.	Operator.....	27
2.4.	<i>Structure Chart</i>	28
2.5.	Microsoft Visual Basic 6.0.....	28
2.6.	Microsoft Access 2003.....	30
BAB 3 SISTEM SAAT INI.....		30
3.1.	Profil UPH.....	30
3.2.	Simbol UPH	33
3.3.	Visi dan Misi UPH	33
3.4.	Tujuan UPH	34
3.5.	Struktur Organisasi UPH	34
3.6.	Struktur Bagian Beasiswa UPH	35
3.7.	Profil Bagian Beasiswa UPH	37
3.8.	<i>Workflow</i> Bagian Beasiswa UPH.....	36
BAB 4 SISTEM USULAN		44
4.1.	Perencanaan.....	44
4.2.	Analisis.....	45
4.3.	Perancangan	45
4.3.1.	<i>Data Flow Diagrams</i> (DFD).....	45
4.3.1.1.	Diagram Konteks	46
4.3.1.2.	Diagram Rinci	47
4.3.2.	Kamus Data.....	53
4.3.2.1.	Spesifikasi Proses.....	53
4.3.2.2.	<i>Data Flow Dictionary Entry</i>	62
4.3.2.3.	<i>Data Store Dictionary Entry</i>	81

4.3.3.	Rancangan Basis Data.....	84
4.3.3.1.	<i>Entity Relationship Diagram (ERD)</i>	85
4.3.3.2.	Tabel Basis Data	86
4.3.4.	<i>Structure Chart</i>	94
4.3.5.	Rancangan Tampilan.....	110
4.3.5.1.	<i>Form Login (*)</i>	110
4.3.5.2.	<i>Form Input Mahasiswa (*)</i>	110
4.3.5.3.	MDI <i>Form Mahasiswa Baru (*)</i>	110
4.3.5.4.	MDI <i>Form Mahasiswa Aktif(*)</i>	111
4.3.5.5.	<i>Form Persen</i>	112
4.3.5.6.	<i>Form Nilai</i>	113
4.3.5.7.	<i>Form Quota</i>	114
4.3.5.8.	<i>Form Detail</i>	115
4.3.5.9.	<i>Form Dinas</i>	116
4.3.5.10.	<i>Form Laporan</i>	117
4.3.5.11.	<i>Form Laporan Dinas</i>	119
4.3.5.12.	<i>Form Surat Beasiswa</i>	120
4.3.5.13.	<i>Form Surat Penolakan</i>	121
4.4.	Implementasi	122
4.4.1.	<i>Testing (Pengujian)</i>	122
4.4.2.	<i>Cutover</i>	126
4.5.	Penggunaan	126
BAB 5 KESIMPULAN DAN SARAN		127
5.1.	Kesimpulan	127
5.2.	Saran.....	127
DAFTAR PUSTAKA		128
LAMPIRAN A : <i>Source Code</i>.....		A-1
LAMPIRAN B : <i>Dokumen Bagian Beasiswa</i>.....		B-1

DAFTAR GAMBAR

Gambar 2.1	Simbol relasi	22
Gambar 3.1	Struktur Organisasi UPH.....	34
Gambar 3.2	Struktur Bagian Beasiswa UPH	35
Gambar 3.3	<i>Workflow</i> Program Beasiswa untuk Mahasiswa Baru UPH.....	36
Gambar 3.4	<i>Workflow</i> Program Beasiswa untuk Mahasiswa Aktif UPH.....	36
Gambar 4.1	Diagram Konteks Sistem Beasiswa UPH	46
Gambar 4.2	Diagram Nol Sistem Beasiswa UPH.....	47
Gambar 4.3	Diagram Rinci Proses 1	48
Gambar 4.4	Diagram Rinci Proses 2.....	49
Gambar 4.5	Diagram Rinci Proses 1.1.....	49
Gambar 4.6	Diagram Rinci Proses 1.7 (*).....	50
Gambar 4.7	Diagram Rinci Proses 1.8.....	50
Gambar 4.8	Diagram Rinci Proses 1.9.....	51
Gambar 4.9	Diagram Rinci Proses 1.10.....	51
Gambar 4.10	Diagram Rinci Proses 1.11.....	51
Gambar 4.11	Diagram Rinci Proses 2.1 (*).....	52
Gambar 4.12	Diagram Rinci Proses 2.2 (*).....	52
Gambar 4.13	Diagram Rinci Proses 2.3.....	52
Gambar 4.14	Diagram Rinci Proses 2.4.....	53
Gambar 4.15	Rancangan Basis Data.....	84
Gambar 4.16	<i>Entity Relationship Diagram</i>	85
Gambar 4.17	<i>Structure Chart</i> Mahasiswa Baru.....	94
Gambar 4.18	<i>Structure Chart</i> Kategori Beasiswa	95
Gambar 4.19	<i>Structure Chart</i> Persen.....	96
Gambar 4.20	<i>Structure Chart</i> Nilai.....	97

Gambar 4.21	<i>Structure Chart Quota</i>	98
Gambar 4.22	<i>Structure Chart Syarat Administrasi (*)</i>	99
Gambar 4.23	<i>Structure Chart Laporan Beasiswa</i>	100
Gambar 4.24	<i>Structure Chart Laporan Interview (*)</i>	101
Gambar 4.25	<i>Structure Chart Grafik (*)</i>	102
Gambar 4.26	<i>Structure Chart Surat Tolak</i>	103
Gambar 4.27	<i>Structure Chart Surat Interview (*)</i>	104
Gambar 4.28	<i>Structure Chart Mahasiswa Aktif</i>	105
Gambar 4.29	<i>Structure Chart Dinas</i>	106
Gambar 4.30	<i>Structure Chart Perpanjangan (*)</i>	107
Gambar 4.31	<i>Structure Chart Laporan Perpanjangan (*)</i>	108
Gambar 4.32	<i>Structure Chart Laporan Dinas</i>	109
Gambar 4.33	Tampilan <i>Form Login</i>	110
Gambar 4.34	Tampilan <i>Form Input Mahasiswa</i>	110
Gambar 4.35	Tampilan <i>MDI Form Mahasiswa Baru</i>	111
Gambar 4.36	Tampilan <i>MDI Form Mahasiswa Aktif</i>	112
Gambar 4.37	Tampilan <i>Form Persen</i>	113
Gambar 4.38	Tampilan <i>Form Nilai</i>	114
Gambar 4.39	Tampilan <i>Form Quota</i>	115
Gambar 4.40	Tampilan <i>Form Detail</i>	116
Gambar 4.41	Tampilan <i>Form Ikatan Dinas</i>	117
Gambar 4.42	Tampilan <i>Form Laporan</i>	119
Gambar 4.43	Tampilan <i>Form Laporan Ikatan Dinas</i>	120
Gambar 4.44	Tampilan <i>Form Surat Beasiswa</i>	121
Gambar 4.45	Tampilan <i>Form Surat Penolakan</i>	122

DAFTAR TABEL

Tabel 2.1. Simbol-simbol <i>Structure Chart</i>	28
Tabel 4.1. <i>Process Specification</i>	53
Tabel 4.2. <i>Data Flow Dictionary Entry</i>	62
Tabel 4.3. <i>Data Store Dictionary Entry</i>	81
Tabel 4.4. Tabel <i>Admission</i>	86
Tabel 4.5. Tabel <i>Category</i>	86
Tabel 4.6. Tabel <i>Dinas</i>	86
Tabel 4.7. Tabel <i>Essay</i>	87
Tabel 4.8. Tabel <i>Evaluation</i>	87
Tabel 4.9. Tabel <i>Family</i>	87
Tabel 4.10. Tabel <i>Form</i>	87
Tabel 4.11. Tabel <i>Interview</i> (*).....	88
Tabel 4.12. Tabel <i>Interviewer</i> (*)	89
Tabel 4.13. Tabel <i>Major</i>	89
Tabel 4.14. Tabel <i>NonAcv</i>	89
Tabel 4.15. Tabel <i>Otorisasi</i> (*)	89
Tabel 4.16. Tabel <i>Perpanjangan</i> (*).....	90
Tabel 4.17. Tabel <i>Persen</i>	91
Tabel 4.18. Tabel <i>Rank</i>	91
Tabel 4.19. Tabel <i>Rapor</i>	91
Tabel 4.20. Tabel <i>Religion</i>	92
Tabel 4.21. Tabel <i>Scholarship</i>	92
Tabel 4.22. Tabel <i>School</i>	92
Tabel 4.23. Tabel <i>SyaratAdmin</i> (*).....	92
Tabel 4.24. Pengujian <i>Form Persen</i>	123

Tabel 4.25. Pengujian <i>Form Nilai</i>	123
Tabel 4.26. Pengujian <i>Form Dinas</i>	123
Tabel 4.27. Pengujian <i>Form Quota</i>	123
Tabel 4.28. Pengujian <i>Form Surat Beasiswa</i>	124
Tabel 4.29. Pengujian <i>Form Surat Penolakan</i>	124
Tabel 4.30. Pengujian <i>Form Laporan</i>	124
Tabel 4.31. Pengujian <i>Form Laporan Dinas</i>	125
Tabel 4.32. Pengujian <i>Form Detail</i>	125
Tabel 4.33. Perbandingan Sistem Lama dan Sistem Baru	126

