DAFTAR ISI

LEMBAR PENGESAHAN i
LEMBAR PERNYATAAN ii
KATA PENGANTAR iii
ABSTRAK iv
ABSTRACK v
DAFTAR ISI vi
DAFTAR GAMBAR xii
DAFTAR TABEL xvi
BAB I I-1
PENDAHULUAN I-1
1.1 Latar Belakang I-1
1.2 Identifikasi Masalah I-2
1.3 Rumusan Masalah I-3
1.4 Batasan Masalah I-3
1.5 Tujuan dan Manfaat I-4
1.6 Metode Penelitian I-4
1.7 Sistematika Penulisan I-6
BAB II II-8
LANDASAN TEORI II-8
2.1 Aplikasi II-8
2.2 Sistem Informasi II-8
2.3 Tugas Akhir atau Skripsi II-9

2.4 Website II-11
2.5 Unified Modeling Language (UML) II-12
2.6 Basis Data II-15
2.7 Systems Development Life Cycle (SDLC) II-16
2.8 *Software* Pendukung II-19
2.9 Penelitian terdahulu yang sejenis II-19
BAB III III-21
OBJEK DAN METODE PENELITIAN III-21
3.1 Objek Penelitian III-21
3.1.1 Profil Prodi SI Widyatama III-21
3.1.2 Struktur Organisasi dan *Jobdesk* III-22
3.2 Metode Penelitian III-23
3.2.1 Perencanaan III-23
3.2.2 Analisis Sistem III-24
3.2.3 Perancangan Sistem Baru III-24
3.2.4 Implementasi III-25
BAB IV IV-26
PERENCANAAN DAN ANALISIS SISTEM IV-26
4.1 Analisis sistem lama IV-26
4.1.1 Analisis atribut sistem lama IV-29
4.2 Analisis sistem yang akan dibangun IV-33
4.3 *Requirement* IV-33
BAB V V-37
PERANCANGAN SISTEM INFORMASI V-37
5.1 Model Prilaku V-37

5.1.1 Perancangan *Use Case* V-37
5.1.2 *Use Case Scenarion* V-40
4.2 Perancangan Class V-47
4.3 Perancangan Data V-60
4.3.1 Skema Relasi V-61
4.3.2 *Constraint Database* V-63
4.4 Perancangan Interaksi Antar Objek V-87
4.4.1 *Sequence Diagram User Authentication* V-88
4.4.2 *Sequence Diagram Register* V-89
4.4.3 *Sequence Diagram Forgot Password* V-91
4.4.4 Sequence Diagram *Logout* V-93
4.4.5 *Sequence Diagram Dashboard* V-94
4.4.6 *Sequence Diagram* Dokumen *Detail* V-95
4.4.7 Sequence Diagram Dokumen Submit V-96
4.4.8 Sequence Diagram Keuangan List V-98
4.4.9 Sequence Diagram Keuangan Request V-99
4.4.10 Sequence Diagram Toefl Detail V-101
4.4.11 Sequence Diagram Toefl Submit V-102
4.4.12 Sequence Diagram Toefl Edit V-103
4.4.13 Sequence Diagram Toefl Delete V-105
4.4.14 Sequence Diagram Transkrip Detail V-106
4.4.15 Sequence Diagram Transkrip Request V-108
4.4.16 Sequence Diagram Transkrip Send Verification V-109
4.4.17 Sequence Diagram Pengajuan Sidang Detail V-111
4.4.18 Sequence Diagram Pengajuan Sidang Request V-112

4.4.19 Sequence Diagram Kartu Kuning Detail V-113
4.4.20 Sequence Diagram Kartu Kuning Request V-114
4.4.21 Sequence Diagram Account Detail V-116
4.4.22 Sequence Diagram Account Update V-117
4.4.23 Sequence Diagram Pengajuan Kartu Kuning List V-119
4.4.24 Sequence Diagram Pengajuan Kartu Kuning Accepted V-120
4.4.25 Sequence Diagram Pengajuan Kartu Kuning Declined V-121
4.4.26 Sequence Diagram Data Pengajuan Sidang List V-122
4.4.27 *Sequence Diagram* Data Pengajuan Sidang *Accepted* V-123
4.4.28 *Sequence Diagram* Data Pengajuan Sidang *Declined* V-124
4.4.29 *Sequence Diagram* Data Tugas Akhir *List* V-126
4.4.30 Sequence Diagram Data Tugas Akhir Detail V-127
4.4.31 Sequence Diagram Data Account Detail V-128
4.4.32 Sequence Diagram Data Account Update V-129
4.4.33 *Sequence Diagram* Data *Account Delete* V-130
4.4.34 Sequence Diagram Verifikasi Transkip Detail V-131
4.4.35 Sequence Diagram Verifikasi Transkip Update V-132
4.4.36 *Sequence Diagram* Data Bimbingan *List* V-133
4.4.37 *Sequence Diagram* Data Lamaran Bimbingan *List* V-134
4.4.38 Sequence Diagram Data Lamaran Bimbingan *Detail* V-135
4.4.39 Sequence Diagram Data Lamaran Bimbingan Accepted V-136
4.4.40 Sequence Diagram Data Lamaran Bimbingan Declined V-137
5.5 Perancangan User Interface V-139
5.5.1 User Interface Login V-139
5.5.2 User Interface Register V-139

5.5.3 User Interface Forgot Password V-140
5.5.4 User Interface Dashboard V-141
5.5.5 User Interface Dokumen V-142
5.5.6 User Interface Keuangan V-143
5.5.7 User Interface Toefl V-144
5.5.8 User Interface Transkrip Nilai V-145
5.5.9 User Interface Pengajuan Sidang V-146
5.5.11 User Interface Account V-147
5.5.12 User Interface Pengajuan Kartu Kuning V-148
5.5.13 User Interface Data Pengajuan Sidang V-149
5.5.14 User Interface Data Tugas Akhir V-150
5.5.15 User Interface Data Account V-151
5.5.16 User Interface Verifikasi Transkrip V-152
5.5.17 User Interface Data Bimbingan V-153
5.5.18 User Interface Data Lamaran Bimbingan V-154
BAB VI VI-156
PENERAPAN SISTEM INFORMASI VI-156
6.1 Batasan Implementasi VI-156
6.2 Implementasi Sistem Menggunakan IDE Visual Studio VI-156
6.2.1 Struktur Folder VI-156
6.2.2 Pengaturan Konfigurasi Database VI-157
6.3 Implementasi Interface Aplikasi VI-159
6.3.1 Implementasi *Login Page* VI-159
6.3.2 Implementasi *Register Page* VI-159
6.3.3 Implementasi *Forgot Password Page* VI-160

6.3.4 Implementasi *Dashboard Page* VI-161
6.3.5 Implementasi Dokumen *Page* VI-161
6.3.6 Implementasi Keuangan *Page* VI-162
6.3.7 Implementasi Toefl *Page* VI-163
6.3.8 Implementasi Transkrip Nilai *Page* VI-164
6.3.9 Implementasi Pengajuan Sidang *Page* VI-165
6.3.11 Implementasi *Account Page* VI-166
6.3.12 Implementasi Pengajuan Kartu Kuning *Page* VI-167
6.3.13 Implementasi Data Tugas Akhir *Page* VI-168
6.3.14 Implementasi Data *Account Page* VI-168
6.3.15 Implementasi Verifikasi Transkrip *Page* VI-169
6.3.16 Implementasi Data Bimbingan *Page* VI-170
6.3.17 Implementasi Data Lamaran Bimbingan *Page* VI-170
6.3.18 Implementasi *Convert Report* data to Excel VI-171
6.3.19 Implementasi Kartu Kuning PDF VI-171
6.4 *Requirement* yang diimplementasikan VI-173
BAB VII VII-176
KESIMPULAN DAN SARAN VII-176
7.1 Kesimpulan VII-176
7.2 Saran VII-176
DAFTAR PUSTAKA 179