

## DAFTAR ISI

LEMBAR PENGESAHAN .....	ii
LEMBAR PERNYATAAN ORISINALITAS .....	ii
ABSTRAK .....	iv
ABSTRACT .....	v
LEMBAR PERSEMBAHAN .....	vi
KATA PENGANTAR .....	vii
DAFTAR ISI .....	ix
DAFTAR LAMPIRAN .....	xiii
DAFTAR GAMBAR DAN ILUSTRASI .....	xiv
DAFTAR TABEL .....	xvii
DAFTAR ISTILAH .....	xix
Bab I   PENDAHULUAN .....	1
I.1   Latar Belakang .....	1
I.2   Perumusan Masalah .....	4
I.3   Tujuan Penelitian .....	4
I.4   Batasan Penelitian .....	4
I.5   Manfaat Penelitian .....	5
I.6   Sistematika Pelaporan .....	5
Bab II   TINJAUAN PUSTAKA .....	6
II.1   Penerapan <i>Enterprise Architecture</i> .....	6
II.1.1   Penerapan <i>Enterprise Architecture</i> Perguruan Tinggi .....	7
II.1.2   Penerapan <i>Enterprise Architecture</i> di Universitas Telkom .....	9
II.1.4   Fungsi Sumber Daya Manusia di Universitas Telkom .....	11
II.2   Penggunaan <i>Framework Enterprise Architecture</i> .....	13
II.2.1   Pemilihan <i>Framework Enterprise Architecture</i> .....	14
II.2.2 <i>Framework</i> TOGAF .....	16
II.2.2.1   TOGAF ADM .....	17
II.2.2.2   Artefak TOGAF ADM .....	20
II.3   Penggunaan <i>Tools Enterprise Architecture</i> .....	29
Bab III   Metodelogi Penelitian .....	30

III.1	Model Konseptual .....	30
III.2	Sistematika Penelitian .....	31
Bab IV	ANALISIS DAN PERANCANGAN .....	34
IV.1	Persiapan dan Identifikasi .....	34
IV.2	<i>Preliminary Phase</i> .....	37
IV.2.1	<i>Define and Establish Enterprise Architecture Team and Organization</i> .....	38
IV.2.2	<i>Principle Catalog</i> .....	39
IV.3	<i>Architecture Vision</i> .....	41
IV.3.1	<i>Define the Target Architecture Value Proposition and KPI's</i> .....	41
IV.3.2	<i>Stakeholder Map Matrix</i> .....	44
IV.3.3	<i>Goal Diagram</i> .....	46
IV.3.4	<i>Goal Catalog</i> .....	47
IV.3.5	<i>Objectives and Requirements Catalog</i> .....	48
IV.3.6	<i>Value Chain Diagram</i> .....	49
IV.3.7	<i>Solution Concept Diagram</i> .....	50
IV.4	<i>Business Architecture</i> .....	52
IV.4.1	<i>Business Architecture Requirements</i> .....	52
IV.4.2	<i>Organization/ Actor Catalog</i> .....	53
IV.4.3	<i>Role Catalog</i> .....	55
IV.4.4	<i>Business Process Catalog</i> .....	57
IV.4.5	<i>Business Service Function Catalog</i> .....	59
IV.4.6	<i>Business Interaction Matrix</i> .....	61
IV.4.7	<i>Actor/ Role Matrix</i> .....	66
IV.4.8	<i>Business Footprint Diagram</i> .....	68
IV.4.9	<i>Business Functional Decomposition Diagram</i> .....	68
IV.4.10	<i>Event Diagram</i> .....	71
IV.4.11	<i>Process Flow Diagram</i> .....	73
IV.4.12	<i>Gap Analysis Business Architecture</i> .....	95
IV.5	<i>Data Architecture</i> .....	97
IV.5.1	<i>Data Architecture Requirements</i> .....	97
IV.5.2	<i>Data Entity/ Data Component Catalog</i> .....	98
IV.5.3	<i>Data Entity/ Business Function Matrix</i> .....	106
IV.5.4	<i>Application/ Data Matrix</i> .....	108
IV.5.5	<i>Entity Relationship Diagram</i> .....	109

IV.5.6	<i>Class Diagram</i>	112
IV.5.7	<i>Data Dissemination Diagram</i>	118
IV.5.8	<i>Gap Analysis Data Architecture</i>	120
IV.6	<i>Application Architecture</i>	122
IV.6.1	<i>Application Architecture Requirements</i>	122
IV.6.2	<i>Application Portfolio Catalog</i>	123
IV.6.3	<i>Application/ Organization Matrix</i>	124
IV.6.4	<i>Application/ Function Matrix</i>	126
IV.6.5	<i>Application Interaction Matrix</i>	128
IV.6.6	<i>Application Communication Diagram</i>	129
IV.6.7	<i>Application Usecase Diagram</i>	130
IV.6.8	<i>Application Sequence Diagram</i>	138
IV.6.9	<i>Gap Analysis Application Architecture</i>	149
IV.7	<i>Technology Architecture</i>	151
IV.7.1	<i>Technology Architecture Requirement</i>	152
IV.7.2	<i>Technology Standards Catalog</i>	152
IV.7.3	<i>Technology Portfolio Catalog</i>	153
IV.7.4	<i>Application/ Technology Matrix</i>	155
IV.7.5	<i>Environment and Location Diagram</i>	156
IV.7.6	<i>Platform Decomposition Diagram</i>	161
IV.7.7	<i>Gap Analysis Technology Architecture</i>	162
IV.8	<i>Opportunities and Solutions</i>	164
IV.8.1	<i>Gap Analysis</i>	164
IV.8.2	<i>Project Catalog</i>	171
IV.8.3	<i>Benefit Diagram</i>	172
IV.9	<i>Migration Planning</i>	173
IV.9.1	<i>Implementation Factor Assessment and Deduction Matrix</i>	173
IV.9.2	<i>Consolidated Gaps, Solutions, and Dependencies Matrix</i>	178
IV.9.3	<i>Consolidate &amp; Reconcile Interoperability Requirements</i>	180
IV.9.4	<i>Project TI</i>	183
IV.9.5	<i>Business Value Assessment Technique</i>	189
IV.9.6	<i>Architecture Roadmap</i>	190
IV.9.7	<i>Analisa Hasil Testing</i>	192
Bab V	<i>Kesimpulan dan Saran</i>	194
V.1	<i>Kesimpulan</i>	194

V.2	Saran.....	195
DAFTAR PUSTAKA	.....	196
LAMPIRAN	.....	198