

DAFTAR ISI

LEMBARAN PENGESAHAN.....	i
LEMBARAN PERNYATAAN ORISINALITAS.....	ii
ABSTRAK	iii
KATA PENGANTAR	iv
DAFTAR ISI.....	v
DAFTAR GAMBAR	viii
DAFTAR TABEL	ix
DAFTAR LAMPIRAN.....	xi
DAFTAR ISTILAH	xii
BAB I PENDAHULUAN.....	1
I.1 Latar Belakang	1
I.2 Perumusan Masalah.....	5
I.3 Tujuan Penelitian.....	5
I.4 Batasan dan Asumsi	5
I.5 Manfaat Penelitian.....	6
I.6 Sistematika Penulisan.....	6
BAB II TINJAUAN PUSTAKA	8
II.1 Manajemen Perawatan	8
II.1.1 Tujuan Perawatan Berkala	8
II.1.2 <i>Preventive Maintenance</i>	9
II.1.3 <i>Corrective Maintenance</i>	10
II.2 Pola Kerusakan.....	10
II.3 <i>Reliability</i>	11
II.4 <i>Availibility</i>	12
II.5 <i>Mean Time To Failure</i>	12
II.6 <i>Mean Time To Repair</i>	13
II.7 <i>Risk Matrix</i>	14
II.8 <i>Risk Based Maintenance</i>	15
II.8.1 <i>Risk Estimation</i>	16
II.8.2 <i>Risk Evaluation</i>	17

II.8.3	<i>Maintenance Planning</i>	19
II.9	<i>Cost Of Unreliability</i>	20
II.9.1	<i>Model Cost Of Unreliability</i>	20
II.9.2	Metodologi Penelitian <i>Cost Of Unreliability</i>	21
II.10	<i>Uji Anderson-Darling</i>	22
II.11	Penelitian Terdahulu Mengenai Usulan Jadwal <i>Maintenance</i>	22
BAB III	METODOLOGI PENELITIAN	23
III.1	Model Konseptual	23
III.2	Sistematika Pemecahan Masalah	25
III.2.1	Latar Belakang Masalah	26
III.2.2	Perumusan Masalah	26
III.2.3	Tujuan Penelitian	26
III.2.4	Studi Lapangan	26
III.2.5	Studi Pustaka dan Literatur	26
III.2.6	Pengumpulan Data	27
III.2.7	Penentuan Sistem Kritis	27
III.2.8	Perhitungan <i>Cost Of Unreliability</i>	27
III.2.9	Perhitungan Nilai <i>Mean Time To Repair (MTTR)</i> , <i>Mean Time To Failure (MTTF)</i> , Dan <i>Mean Down Time (MDT)</i>	28
III.2.10	<i>Consequence Assesment</i>	29
III.2.11	<i>Risk Estimation</i>	29
III.2.12	<i>Risk Evaluation</i>	29
III.2.13	Penentuan Jarak Interval Antar Aktivitas Perawatan	29
III.2.14	Analisis	29
III.2.15	Kesimpulan dan Saran	29
BAB IV	PENGUMPULAN DAN PENGOLAHAN DATA	30
IV.1	Pengumpulan data	30
IV.1.1	Deskripsi Umum Mesin <i>Weaving Shuttle</i>	30
IV.1.2	Penentuan Komponen Kritis Dengan Risk Matriks	31
IV.1.3	Kegiatan <i>Maintenance</i> Mesin <i>Weaving Shuttle</i> PT. ABC	31
IV.1.4	Pengumpulan Data <i>Time To Failure</i>	32
IV.1.5	Pengumpulan Data <i>Downtime</i>	32
IV.1.6	Pengumpulan Data <i>Time To Repair</i>	32
IV.1.7	Daftar Harga Komponen	33

IV.1.8	Data Upah <i>Engineer</i>	33
IV.1.9	Data Biaya Material	34
IV.1.10	Data <i>Loss Of Revenue</i>	35
IV.2	Pengolahan Data	36
IV.2.1	Uji Distribusi <i>Downtime</i> Setiap Subsistem	36
IV.2.2	Uji Distribusi <i>Time To Failure</i> Setiap Subsistem	37
IV.2.3	Uji Distribusi <i>Time To Repair</i> Setiap Subsistem	37
IV.2.4	Parameter Distribusi <i>Downtime</i> , TTF dan TTR	38
IV.2.5	Perhitungan Mean <i>Downtime</i>	38
IV.2.6	Perhitungan Mean <i>Time To Failure</i> (MTTF)	39
IV.2.7	Perhitungan Mean <i>Time To Repair</i> (MTTR)	40
IV.2.8	Perhitungan <i>Risk Based Maintenance</i> (RBM)	40
IV.2.9	Perhitungan <i>Cost Of Unreliability</i>	47
IV.2.10	Perhitungan <i>Cost Of Unreliability</i> Berdasarkan Jadwal <i>Maintenance Usulan</i>	50
BAB V	ANALISIS	53
V.1	Analisis Penentuan Subsistem Kritis	53
V.2	Analisis Penentuan Distribusi DTT, TTF, DAN TTR Subsistem Kritis	53
V.3	Analisis Penentuan Parameter Distribusi DT, TTF, DAN TTR Subsistem Kritis	53
V.4	Analisis Konsekuensi dan Risiko Berdasarkan Metode RBM	54
V.5	Analisis Penentuan Interval Waktu Perawatan	54
V.6	Analisis Perhitungan <i>Cost Of Unreliability</i> (COUR)	55
V.7	Analisis Perhitungan <i>Cost Of Unreliability</i> (COUR) Usulan	56
BAB VI	KESIMPULAN DAN SARAN	58
VI.1	Kesimpulan	58
VI.2	Saran	59
VI.2.1	Saran Bagi PT. ABC	59
VI.2.2	Saran Bagi Penelitian Selanjutnya	59
DAFTAR PUSTAKA		60
LAMPIRAN		1