

Review

Sistem Perawatan

TIP – FTP – UB

Keandalan

$$R(t) = \int_0^{\infty} \frac{e^{-\frac{t}{\theta}}}{\theta} dt = e^{-\frac{t}{\theta}}$$

$$\text{Laju kegagalan } (\lambda) = \frac{\text{Jumlah kegagalan}}{\text{Total jam operasi}}$$

- Peluang reliability

- Seri $R = R(A) \cdot R(B) \cdot R(C)$

- Paralel $R = 1 - (1 - R_A)(1 - R_B)$

Inspeksi

- Rumus Penentuan Faktor PM (semakin tinggi, semakin perlu PM)

$$PM = D(A+B+C)/(EF)$$

PM = inspection factor

D = number of break down/year

A = cost of break down repairs

B = cost of lost production

C = cost of repairing other equipment involved in the breakdown

E = cost of PM activity (average)

F = number of PM cycle per year

- Do PM if number of break down x Average cost per break down x 70% > cost of PM system

Penggantian

- EUAC defender $>$ EUAC challenger

OEE

