

**ITM Faculty Publications 2007-08**  
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<b>13.Title</b>	Time - shifted density models for wear out failure period of a single unit system
<b>Conference</b>	International Conference on Statistics and its Applications in Management (ICSAIM), IIM; Kozhikode.
<b>Author</b>	Dr. Kirti Arekar.
<b>Abstract</b>	Govil and Aggrawal proposed a time-shifted Rayleigh density for wearout failures. Bazovsky have evaluated the wearout failures rates for normal and lognormal distributions. Wearout failures occur as a result of deterioration processes or mechanical wear and its probability of occurrence increases with time. Here we consider the four different models assumed time-shifted gamma, normal, Weibull and beta distributions. Failure rates for time shifted distributions and expressions for mean time to system failure are obtained .For different values of the parameters, the curves for average lifetimes are also drawn.