Landon processes
A collection of RVs indexed by time.
Eg: Consider temp. in a groom Combine temp. in
· DISCRETE TIME RANDOM PROCESS:
X_1, X_2, \dots Bernoulli. $t_1 t_2$ $(X_n \text{ is } ?V).$ Binomial $St. \text{ line } \Rightarrow \text{ Heads.}$ $Nbg \Rightarrow Tails.$
Xt, Temperature. At a given t, the palme of temp. can't temp. can't temp. can't temp. can't this a RV. It is a RV.
$\times_{\epsilon}(\omega)$
→ X _t = A + Bt , t ∈ [0.∞) A,B N N(1,1). All B. Is this a random procurs? (i.e., is X _t a RV for each t).
Let $\mu_{x}(t) = E[x_{t}]$
$P_{\times}(t_1, t_2) = E\left[\times_{t_1} \times_{t_2}\right]$ CORPELATION. $C_{\times}(t_1, t_2) = P_{\times}(t_1, t_2)$ $C_{\times}(t_1, t_2) = P_{\times}(t_1, t_2)$ $C_{\times}(t_1, t_2) = P_{\times}(t_1, t_2)$ $P_{\times}(t_1) = P_{\times}(t_1) = P_{\times}(t_2)$ Covariance $C_{\times}(x_1, x_2) = P_{\times}(t_1) = P_{\times}(t_2)$