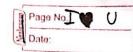


MODELLING AND SIMULATION

-> Subset of operation and lierealish → MOPEL - any folimula can be model -> SIMULATION - set of models required to solve possiblem in given constrainets & Model C Simulation * Simulation uses a physical thing Model is reestricted to cony - TYPES OF SYSTEM (i) Static: peroudes one service at one instance of (ii) Dynamic: multiple securices at multiple instances eg. of Simulation: In ludget calc, we compare which ludget with aggregate of pleurous years. This us requires Simulation. Simulation. & DISADVANTAGES OF SIMULATION (i) Expensive, so can be used by big ventules and not small ventures. (ii) Single input. so dutput may have leces & AD VANTAGES OF SIMULATON (i) Human Resource mynt TYPES OF SIMULATIONS (i) Dischete - open an account in a bank (ii) Continuous - open account then open for then deposit KSTEPS UNDER SIMULATION (i) Entity (ii) Business demand iii) Bueiness valgables (iv) Extanal Factor (Internal Factor

-> QUEUEING MODEL: 1 - time after which a person moves ahead in greve / service time
1 - time blw start and end of greve



	Date:
->	COMPONENTS OF A SYSTEM
(i)	ENTITY: An abject of interest in the system.
11	MIKIBUTE. I preoperty of an entity
(iii	STATE: The collection of valuable recessary
Liv	STATE: The collection of valuable recesses
4	to desclube the lyethen at any time
Kar Ch	elatine to the object of the study
(v)	EVENT: An instantaneous occurrence that
in words	may change the state of system
ing some	ENDOGENOUS: To deschibe activities and
and Jaki	events occurring with in the
- CIAT	eyeten
(vi)	Exogenous: To describe activities and went
	in an Environment that affect the
	eyelim it to the of the
OK.	Collectively, they belsome madel
went.	a propert in the contraction of the properties
- ()	SYSTEM Attribute Activities State valiable
(i)	Bank checking Arrival Number of busy tellers
	Notice of deposite personal Number of customer
	MAJOR AIM OF SUB-TASKS
	QUESTION/ REQUIRED TO DATA MANAGEMENT
	TISIC! HEMIENE
	THEM TO D. A. MAN A D. C. S. L. C. L. C. L. C. L. C. L. C.
	EVENT: eg: If brown manager says account does not
+	have money, so this changes statl of system. SYSTEM MODEL
	THER MOVEL
	PETERMINISTIC STOCHASTIC
	STATIC NVAME
	STATIC DYNAMIC STATIC
	CONTINUOUS PISCRETE CONTINUOUS DISCRETE
	i i i i i i i i i i i i i i i i i i i

-> FLOW CHART OF SIMULATION	1) Concert and : State valiables (ii) Specification: I soudo cade: (iii) Computational: Final code:	talget excerpically computational model	So we require simulation avel next here conceptual Model thints enoughing time madeling	Physical Hathoritian Physical Hobertian Physical Simulation Sol (a) Secart (three on homes) Method.	Experiment with a carnel of actual actual system
+; (a=6) - brachet close Lidertifier and operator	Implementation LEXICAL ANALYZER bracket are	YES Production runs and analysis Yes The locumentation and Reposet	Validation Ves esimontal dosign <	Model conceptualization Data callections NO Nevillado Tronslation No	Problem Formulation thing of abjectives and overla