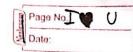


MODELLING AND SIMULATION

-> 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
then san	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 to 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

