	Module 1
	IEEE Definith of Softmane Eng
	The applicate of systematic, disciplined, quantifiable
	approach to the department development, operate &
	maintainence of softrage
	There are 6 phases involved: (Itemative princess)
(i)	Resource gathering/Requirement gothoring
•	Takes amost time 240%
	Teme suguissed to undosistand the pseublom.
$(\hat{n})$	Planning
	Designing
	Cooling Development
(v)	
(vi)	
	Essence of Paractice
Ü	
	Done by interact blu users & developers
	Requisionents and gathered
•	Interview/ survey
	Camp
	Beninstoerming
	Reseaseh about existing suptems
	Planning
	Technically solve the peroblem
•	Analyze the soquiscoments.

	Requisements
	Functional Non-Junctional
	ii) Design
3.	Design an outline/porototype
Ü.	() Cooling
	Code to peroblem using standard methods
(v)	Pesting
•	Find out the espenses > White box testing
	>> Black " "
(0)	Unit Testing -> Softwasie is divided ento modules. Each unit
	is tested separately
(b)	Integrated Testing > Units are tested together
	Black box -> give some i/ps, see if you get some o/p klhite " -> " " " , s. ii " " ha
	^
	ît is obtained
(vi)	Maintenance > Manual -> (Detalled descoupts) given to
	customesis.
	Scope of BE
(b)	History aspects -> Pougrammeris Motto: Correct on-time
	under-budget. 1968 confesionce NATO
(1)	Fromomic aspects -> simple design le pereferred over
	complex doing
(m)	Maintenance aspects -> Need to check the cost only good
	softrages are maintained.
	Maintenance cost must be loss than non system cost

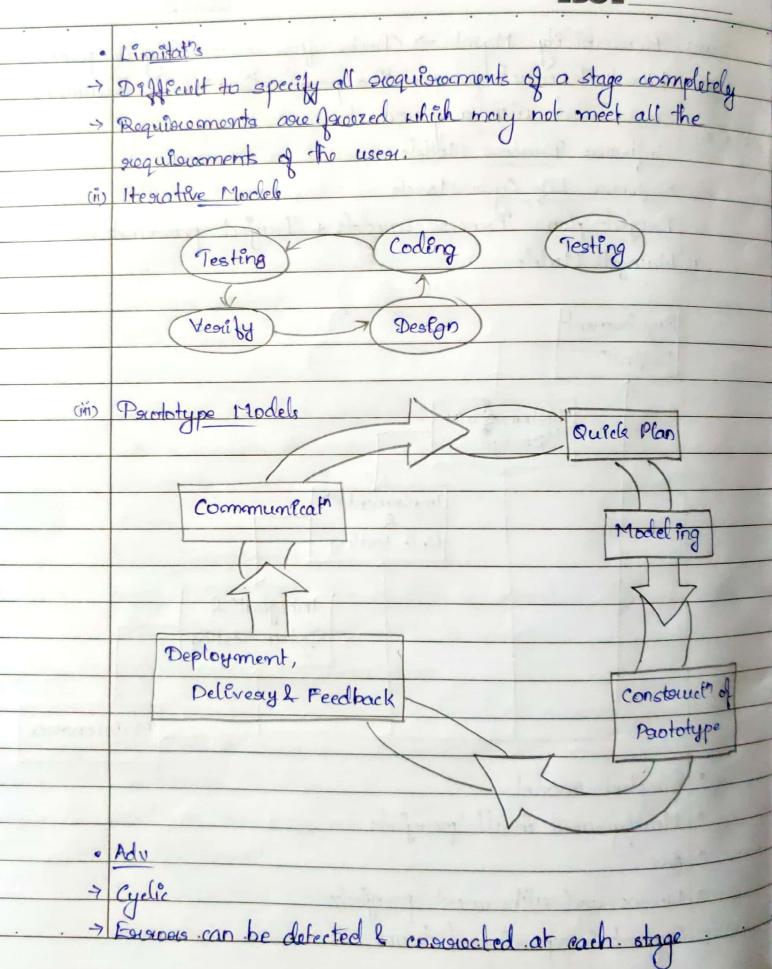
1	ELG3
('iv)	Specificat & Dosign > Langen peroperams vill have
(w)	Team Psingsiamming aspect > Psiopesi delegated work
20 1 20	Sieduces total build time. Software Engg as a Loyened Technology
	Tools
3 10	Methods
	Perocess  Quality focus
•	Each layer has to be completed to go to the next layer
6	Base Layer - Quality Jocus. 11- Ps the bed sick that supposts
1 1 1 1	Tam (Total Quality Mgont)
	180 9001 , 180 9003
•	Parocess - it can be defined as a faramenous four a set of hey process area that must be established four an
	effective delivery of softmane. It is a foundation for softmane
	Methods -> How to solve perabloom. 6 steps > Analysis,
	Planning, Design, Cooling, Testing & Maintenance
•	Tools - Foor implomenting the amethods. They are automated on semi-automated. CASE (Computer Aldod Boltware
1	Engineeding) took.
· · · · · · · · · · · · · · · · · · ·	Softman tools pouvide automated/semi-automated supposit.

Insi mothade & painceases. Kilhen took auro integrated so that the ingo caroated by 1 tool can be used by others. A system Jose the supposit of a software development called Computer Aided Softhane (CASE) Softmore perocess can be a collecto of activities, tasks & Activities -> communicat?, resource collect?

Umboulla

adivities

adivitées Acts -> Design i) Softman peroject teracking & countered Team leades assesses the peroject. It enables the softence team to assess the purject purguess against the purject (ii) Risk Management Hat Risk affects the quality of product. A team the sisks associated with a perofect. (iii) Softenore Quality Assurance It defines the activities sequiscod to ensure the quality of software peroduct (iv) Technical Reviews Analyses the pologorese & checke Joor esoroses Measures the time required to complete the project vi) Software Config Mgmt - Monges changes thousand



EDG 34/1 20

	ELG3
	Adv
-7	Parallel development can be planned
	Pourgouse can be omeasured
7	Testing & debugging during smaller iterat is earn
7	Escrosis and identified & sosolved during Heart
7	It supposits changing significaments
	Disadv
	Mosic acisouscos may be soquisied.
7	Highly technical team is evoquisied
(v)	V Model (Vesilicato & Validato)
	Extension of naterial model
	A Constant
(Ro	Acceptance Acceptance Acceptance
	testing testing
croppi d	S/m doslign S/m testing S/m testing
	Sim lesting
	Aside design Integrate Integrate
1 2 2 7 11	Asian design Integrated testing
	Module
	design besting testing
14	Teston ( Teston)
	Coding