PREP.

SOFTWARE ENGINEERING

| >> Modules of SE (?) |
|--|
| -> SPLC (Software Development Life (yele) |
| 9 Planning |
| Analysi |
| - Design |
| Implementation /Colling |
| > Tosting & Integration |
| Speployment |
| - Mountenance |
| -> What B software? |
| -> Proporties of Software |
| > Doesn't wear out |
| No silver bullets in software. |
| - Functionality |
| > Scalability |
| Reliability |
| Aleptability |
| |
| -> Balanory Met |
| - Catesonies of SE |
| Construction (Analysis, Design, Coting, Testing) |
| Management (Project planning & management, software |
| Construction (Analysis, Design, Cotting, Testing) Management (Project planning & management, software quality assurance, installation (training) |
| |
| =) SE Framework (Pg.15, VV Handouts) |
| Ly Quality Focus |
| S Processes |
| Melhads - |
| Tools. |
| |

| ~ C | haraderistics of Software. |
|--|--|
| <u>-> '</u> | haraderistics of Smuare Functionality (Suitability, According, Enteroperability, Compliance, Saliability (Recoverability, Fault-Toleronce, Blatwrity) Soliability (Recoverability, Fault-Toleronce, Blatwrity) Formality (In-Time, In-Resources) Formality (In-Time, In-Resources) |
| | Bringly (Recoverability, fault-Tolerance, Daturity) |
| | Ffficiency (In-Time In-Resources) |
| | Stricency (In-time, In-nesource), Operability Operability, Understandability, Leonnability, Operability, Change-ability |
| | Maintainability (Testability, Stability, Change abouty |
| | Stability (Understandability, Learne Britty, Change - abolity) Maintainability (Testability, Stability, Change - abolity) Sortability (Adaptability, Install-ability, Replice-edit) |
| | |
| THE RESIDENCE OF THE PARTY OF T | ves of SE |
| Annual Control of the | y Vision |
| | > Definition |
| 100 Pm | pevelopment |
| | Ly Mountenance |
| C | Hugge perdapment loop |
| <u>—> x</u> | S Problem Definition |
| | Technical Development |
| | Solution Integration |
| , | 3 Status Quo |
| | |
| -> Ree | whement Engineering (Pg. 19, VV Handonts) |
| -> Cha | ractoristics of Refluxements |
| X. (c | Complete |
| | 1> Sufficient |
| | > Specific |
| 1 | Reliable |
| + | 1 Concise |

| Points that damage requirements |
|---|
|) Incomplete |
| S Exercity charged |
| |
| 1) Inque 1) Inadequate |
| |
| Types of requirements (Rg. 21, VV Hondonts) |
| Types of veguerements / Categories of requirements |
| Business reguirements. |
| Suser remirement |
| Functional requirements |
| Down tractional requirements |
| > Stockeholders of software (people interested in software) |
| > requirements Elicitation |
| What is requirement elicitation? |
| Importance of requirement clicitation |
| Compliance with business objectives |
| Suser satisfaction |
| Time and money savings |
| Compliance Exequilation requirements |
| Ly Tracellaility & documentation |
| Requirements elicotation activities |
| S Regularment elicitation methods |
| 3 nterviews |
| Statistormy Acassons |
| > Facilitatel application specification technique |
| fraulity fination development |
| Suse case approach |
| |

| 10 | ocess Madels (RAWSVIP). |
|---------------|--|
| 7 | 1 . 1 1 A secolument (MAN) |
| | Agolo Model |
| | Agrile Model S Wortestall Model |
| | 3 Spiral Model |
| Total Control | 1. V-Model |
| | I Incremental Model |
| | Is Prototyping Model |
| | 7 |
| > C | hesion |
| | Co-insidental comesion |
| | 5 logical cohesion |
| 14.73 | La Temporal chesion |
| | - Rocciusal cohesion |
| | S Communicational cohesion |
| | > Seprential cohesion - |
| | Ly functional corresion |
| | |
| Con | lay - |
| - | Content coupling |
| | , Common coupling |
| | S Control coupling |
| | & Stamp coupling |
| | > Data carpling |
| | |
| UML | (Unified Modeling Language) fun No |
| | 1) Flaborated Use Case |
| | Follse case digram |
| - | 3 Ketroty Dofram . System Response 2 4th |

.

| > State Transition Ologram |
|-----------------------------|
| - Alle Photo Da Photo |
| > Rata Flow Modeling |
| -> Preta Flow Ologram (DFP) |
| S Types |
| Logical. |
| La Physical . |
| levels |
| Is teled 0 DFD |
| s Level 1 DFD. |
| Lylerd 2 OPD |
| Level 3 & Reyard OPD. |
| |
| |