lecture 10 Kall No-170/02081 Date - 26/09/20 lages - 3 Rapid application development (RAD) - incremental software development process model that emphasizes an entremely short development cycle - "high - speed" adaption of the linear sequential model using component-based construction. - Enables a development team to create a "fully functional system within very short time periods (eg 60 to 70 days). The RAD approach encompasses the following phases: a) business modeling. The following questions need to be answered. What information drive the Jusiness process ? What information is generated? Who generates it? Where does the information go ! Who processes the information? b) Data modeling. The information flow defined as part of the business modeling phase is refined to a set of data objects that are needed to support the business. The characteristics (called attributes) of each object are identified cound the relationships between these objects defined Application Generation: Using fourth or above generation techniques, the RAD process works

to seuse existing programs components or oreste reusable components. Automated dools

are used to facilitate the software construction.

e) &) Testing and turnover. One to re-use, many of the program components have already been tested. This reduces avoidl testing time. However, new components must be tested and all interfaces must be fully enercised. C) brocess Modeling! The data objects defined in the data modeling phase are bansformed to actions the information flow recessary to implement a business function The time constraints imposed on AAD project demand "scalable scope". Each major function of a business application can be addressed by a separate FAD team and then integrated to form a whole Jean #? Team #1 modeling Data Business Process modeling modeling Process sata modeling modeling Goors modeling Texting Application generation Testing tworner

60 - 90 days.

brawbacks of RAD approach a) Regime sufficient human resources to create the right number of FAD teams. b) Regione developers and customers to get system complete in a much abbreviated time frame. If committeent is lacking from either constituency, RAD projects will fail. () If a system commot be properly modularized, building the components necessary for FAD will be problematic. d) RAD is not appropriate when technical ricks are high. Ex: neary use of new technology.