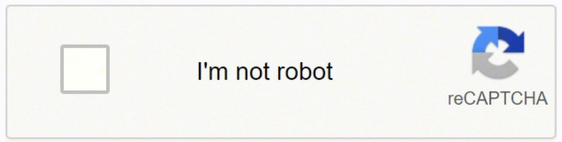

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Object oriented analysis and design course outcomes

Course Introduction: Object-oriented analysis and design (OOAD) is a technical approach for analyzing, designing a system by applying the object-orientated concepts, and develops a set of graphical system models during the development life cycle of the software. OOAD in modern software engineering is typically conducted in an iterative and incremental way. In this course, the students will learn how to produce detailed object models and designs from system requirements; use the modeling concepts provided by UML; identify use cases and expand into full behavioral designs; expand the analysis into a design ready for implementation and construct designs that are reliable. Credit Hours: 3(3+0) Course Learning Outcomes: Upon successful completion of this course, students possibly able to understand how to gather the requirements for a software application distinguish between functional and nonfunctional requirements, and express the requirements in the form of use cases. Object-oriented analysis: Derive the appropriate classes from the requirements and define their responsibilities, behaviors, interrelationships, and internal structures. Draw UML use case, class, and sequence diagrams to document and communicate the analysis results. Object-oriented design: Apply the results of analysis to implement the classes and interfaces. Textbook: Applying UML and patterns: An introduction to Object-Oriented Analysis and Design and Iterative Development by Craig Larman, Prentice Hall; 3rdEdition (October 30, 2004). ISBN-10: 0131489062 Assessment Criteria: Sessional Marks: 20 Marks Quiz : 05 marks Assignment : 05 marks class participation & Presentation: 10 marks Mid Semester Exam: 30 Marks Final Semester Exam: 50 Marks Course Contents: Following contents will be covered in this course: 1. Principles of Object Technology: Introduction to Object Technology, Principles of Modeling, and Principles of Object Orientation. 2. Introduction to UML, Unification, UML Diagrams, Unified Process & Rational Unified Process, RUP Disciplines, Case Study Analysis and Basics, Case Study, About Inception, Feasibility and Risk Analysis. 3. Understanding Requirements, Requirements Types, Use Case Modeling: Use Case Writing Styles, EBP Guidelines [TB: Ch. 5.1, 6.1-8] 4. System Use Case Diagram, Use Case Table, Activity Diagram, Supplementary Specifications, Vision Document, Glossary, Rational Rose Overview, Use Case & Activity Diagram Modeling in Rational Rose . 5. Elaboration Phase of RUP; Configuration Management; System Sequence Diagram, Domain Model: Identifying Business Classes, Associations, . 6. Implementation of System Sequence & Domain Model: Use Case Operational Contracts, Business Sequence, Analysis Sequence & Collaboration Diagrams 7. Use Case Dependencies, Analysis Use Case Diagram, Implementation of Sequence, Collaboration, Analysis Use Case Diagram. 8. State Chart Diagrams and Implementation. 9. Design Patterns: GRASP: Information Expert, Creator, Cohesion & Coupling and Controller. 10. Use Case Realization Using GRASP Patterns, Design Model: Determining Visibility. 11. Modeling Generalization, Creating Design Class Diagram, Mapping Data Model to Domain Model. 12. Implementation of Design Class Diagram, Coding patterns. 13. Mapping Design to Code. 14.More Patterns for Assigning Responsibilities, Polymorphism, Pure Fabrication, Indirection, Protected Variation. GoF Design Patterns: Adapter, Factory. 15. Gof: Singleton, Strateg. 16. Composition, and Façade and Discuss Remaining Patterns. Time Table: BSCS 5th Regular (Wednesday: 8:00-9:30 AM) (Thursday: 11:00-12: 30 PM) BSCS 5th Self (Monday: 2:00-3:30pm) (Thursday: 9:30 -11:00PM) BSIT 5th Regular (Monday: 12: 30-2:00 PM) (Tuesday: 9:30 -11:00PM) BSIT 5th Self (Wednesday: 12: 30-2:00 PM) (Thursday 12: 30-2:00 PM) VNR Vignana Jyothi Institute of Engineering & Technology III Year B.Tech CSE – II Sem Object Oriented Analysis and Design Course Objectives: Understand the importance and basic concepts and of object oriented modeling, Specify, analyze and design the use case driven requirements for a particular system. Model the event driven state of object and transform them into implementation specific layouts. Identify, Analyze the subsystems, various components and collaborate them interchangeably. Syllabus UNIT-I Introduction to UML: Importance of modeling, principles of modeling,object oriented modeling, conceptual model of the UML, Architecture,Software Development Life Cycle. UNIT-II Basic Structural Modeling: Classes, Relationships, Common mechanisms and diagrams. Advanced Structural Modeling: Advanced classes, advanced relationships,Interfaces, Types and Roles, Packages, Common modeling techniques. UNIT-III Class and Object Diagrams: Terms, concepts, modeling techniques for class and object diagrams, Common modeling techniques. Basic Behavioral Modeling-I: Interactions, Interaction diagrams, Common modeling techniques UNIT-IV Basic Behavioral Modeling-II: Use cases, Use case diagrams, Activity diagrams, Common modeling techniques. Advanced Behavioral Modeling: Events and signals, state machines, processes and Threads, time and space, state chart diagrams, Common modeling techniques. UNIT-V Architectural Modeling: Component, Deployment, Component diagrams, Deployment diagrams, Common modeling techniques, Case Studies TEXT BOOKS Grady Booch, James Rumbaugh, Ivar Jacobson: The Unified Modeling Language User Guide, Pearson Education Hans-Erik Eriksson, Magnus Penker, Brian Lyons, David Fado: UML 2 Toolkit, WILEY-Dreamtech India Pvt. Ltd. REFERENCES Meilir Page-Jones: Fundamentals of Object Oriented Design in UML, Pearson Education. Atul Kahate: Object Oriented Analysis & Design, The McGraw-Hill.\ Mark Priestley: Practical Object-Oriented Design with UML,TATA McGrawHill Appling UML and Patterns: An introduction to Object – Oriented Analysis and Design and Unified Process, Craig Larman, Pearson Education. Program Outcomes: On the successful completion of this course, Students will be able to CO1. Analyse, design, document the requirements through use case driven approach. CO2.Identify, analyse, and model structural and behavioural concepts of the system. CO3.Develop,explore the conceptual model into various scenarios and applications. CO4.Apply the concepts of architectural design for deploying the code for software. Back 95-706 Units: 6 DescriptionLarge-scale software development has been described as one of the most difficult of human undertakings. This course examines the reasons for the inherent complexity of software construction, and presents structured methods to deal effectively with it. The course will focus on the object-oriented approach for analysis and design. Students will gain an appreciation of the difference between writing programs and doing analysis and design. Problem formulation and decomposition (analysis) and solution building (design) will be covered. Students will work in small groups, each group having the responsibility for analysis, design and implementation of a software system. Case tools will be used in several stages of the development process. Knowledge of an Object-Oriented language such as Java or C++ is a pre-requisite for this course. Learning Outcomes Develop a working understanding of formal object-oriented analysis and design processes Develop an appreciation for and understanding of the risks inherent to large-scale software development Learn (through experience!) techniques, processes, and artifacts that can mitigate these risks Develop the skills to determine which processes and OOAD techniques should be applied to a given project, and Develop an understanding of the application of OOAD practices from a software project management perspective Prerequisites Description95712 or any other course with intermediate level of programming in object oriented language Syllabus Syllabus (Constantine Cois - S22) Syllabus (Neelam Dwivedi - S22) In this course, the students will learn how to produce detailed object models and designs from system requirements; use the modeling concepts provided by UML; identify use cases and expand into full behavioral designs; expand the analysis into a design ready for implementation and construct designs that are reliable. The course begins with an overview of the object oriented analysis and design. Upon completion of the course, students will be able to:Be familiar with standard UML notation. Understand how to model the requirements with use cases. Be able to describe the dynamic behavior and structure of the design. Understand how to create a modular design with components. Know how to relate the object-oriented design to the physical environment. Intended Learning Outcomes:Improve the techniques of problem Solving, and Critical Analysis.Develop principles of problem solving by computer, and the construction of appropriate algorithms for the solution of problemsUse object-oriented techniques in the development of small, medium and large software systems. Design, implement and test Java programs For more details about this course, please Click here !

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