

## SYLLABUS

### Module I:

Introductory concepts: Introduction, definition, objectives, Life cycle – Requirements analysis and specification. Design and Analysis: Cohesion and coupling, Data flow oriented Design: Transform centered design, Transaction centered design. Analysis of specific systems like Inventory control, Reservation system.

### Module II:

Object-oriented Design: Object modeling using UML, use case diagram, class diagram, interaction diagrams: activity diagram, unified development process.

### Module III:

Implementing and Testing: Programming language characteristics, fundamentals, languages, classes, coding style efficiency. Testing: Objectives, black box and white box testing, various testing strategies, Art of debugging. Maintenance, Reliability and Availability: Maintenance: Characteristics, controlling factors, maintenance tasks, side effects, preventive maintenance – Re Engineering – Reverse Engineering – configuration management – Maintenance tools and techniques. Reliability: Concepts, Errors, Faults, Repair and availability, reliability and availability models. Recent trends and developments.

### Module IV:

Software quality: SEI CMM and ISO-9001. Software reliability and fault-tolerance, software project planning, monitoring, and control. Computer-aided software engineering (CASE), Component model of software development, Software reuse.

### Text Book:

1. Mall Rajib, Fundamentals of Software Engineering, PHI.
2. Pressman, Software Engineering Practitioner's Approach, TMH.

# Software Engineering An Advanced Course Reprint Of First Edition Lecture Notes In Computer Science 3

**J Rink**



### **Software Engineering An Advanced Course Reprint Of First Edition Lecture Notes In Computer Science 3:**

**Software Engineering** F. L. Bauer, 1977-08 A course that illustrates how software engineering can be applied in computer science curricula Logische und Methodische Grundlagen der Programm- und Systementwicklung Manfred Broy, 2019-06-11 Eignen Sie sich mit Hilfe dieses Buchs die wichtigsten Grundlagen der Programm und Systementwicklung an Geht man beim Entwickeln von Programmen von einer informellen Problemstellung aus erfordert das a die Spezifikation des Programms unter Festlegung der Daten und Rechenstrukturen b die Implementierung c die Verifikation der Korrektheit Um diese Aufgaben zu bew ltigen hat die Informatik eine Reihe grundlegender Ans tze und Methoden entwickelt welche in Manfred Broy und Alexander Malkis Buch Logische und Methodische Grundlagen der Programm und Systementwicklung bersichtlich zusammengefasst und an praktischen Beispielen erl utert werden Um was geht es im Detail In ihrem Buch ber System und Programmentwicklung behandeln die Autoren im Kern folgende Themen Algebraische Spezifikationen von Daten und Rechenstrukturen sowie die F higkeit daraus Eigenschaften abzuleiten Die Spezifikation und Implementierung Den Nachweis der Korrektheit f r funktionale prozedurale und objektorientierte Programme Dies schlie t unter anderem auch Themen wie Korrektheits und Terminierungsbeweise Design by Contract und schrittweise Verfeinerung ein Mit ihrem Buch Logische und Methodische Grundlagen der Programm und Systementwicklung gelingt es Broy und Malkis die wichtigsten Grundlagen f r eine wissenschaftlich abgesicherte Entwicklung von Programmen zu vermitteln Das Werk richtet sich deshalb an Studierende aus der Informatik und an Praktiker des Software Engineering mit Interesse an Grundlagen und Methodik Inhalte des Buchs ber Programmentwicklung in der bersicht Einf hrung indie Grundlagen der Softwareentwicklung Rechen und Datenstrukturen Algebraische Datenmodellierung Funktionale Programmierung Anweisungsorientierte sequenzielle Programmierung Referenzen Zeiger und organisierter Speicher Verfeinerung Grundlagen der Objektorientierung Ausblick parallel ablaufende verteilte kooperierende Systeme *Heterogeneous Agent Systems* V. S. Subrahmanian, 2000 After a discussion of the theory of software agents this book presents IMPACT Interactive Maryland Platform for Agents Collaborating Together an experimental agent infrastructure that translates formal theories of agency into a functional multiagent system that can extend legacy software code and application specific or legacy data structures **Books in Series** ,1980 Subject Guide to Children's Books in Print 1997 Bowker Editorial Staff, R R Bowker Publishing, 1996-09 **Books in Print** ,1991 **Object-oriented Databases** Ez Nahouraii, Fred Petry, 1991 This reprint collection consists of articles on object oriented databases and provides a broad overview of current concepts examples and applications The volume contains an introduction to the subject and papers organized into four sections basic concepts applications design and implementation Subject Guide to Books in Print ,1997 **Scientific and Technical Books and Serials in Print** ,1989 **Books in Print Supplement** ,2002 **Eighth International Conference on Data Engineering** Forouzan Golshani, 1992 **Computer Books and Serials in Print** ,1985 Whitaker's Books in Print ,1998 **American Book**

**Publishing Record** ,1991      **Proceedings** IEEE Computer Society,Association for Computing Machinery,1983  
*Proceedings* ,1992      **Subject guide to German books in print** ,1979      **Verzeichnis lieferbarer Bücher** ,1977  
First-Order Dynamic Logic David Harel,1979      Forthcoming Books Rose Arny,1998-04

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