

St. Ann's College of Engineering & Technology::Chirala
Department of Computer Science and Engineering
LECTURE SCHEDULE

Subject : DISTRIBUTED SYSTEMS
ACADEMIC YEAR :2017-18
Faculty : M.BABU RAO

Class : IV -II CSE-B
Semester : II

| S. No. | Date | Unit | Topic | |
|--------|----------|--|--|---|
| 1 | 27-11-17 | I | Characterization of Distributed systems: Introduction | |
| 2 | 28-11-17 | | Examples of Distributed Systems | |
| 3 | 29-11-17 | | Resource Sharing and the Web | |
| 4 | 30-11-17 | | Challenges | |
| 5 | 04-12-17 | | System Models: Introduction, | |
| 6 | 05-12-17 | | Architectural Models- Software Layers, System Architecture | |
| 7 | 06-12-17 | | Variations, Interface and Objects, | |
| 8 | 07-12-17 | | Design Requirements for Distributed Architectures | |
| 9 | 08-12-17 | | Fundamental Models- Interaction Model | |
| 10 | 11-12-17 | | Failure Model, Security Model | |
| 11 | 12-12-17 | | UNIT-1 SLIP TEST | |
| 12 | 13-12-17 | II | Inter process Communications: Introduction | |
| 13 | 14-12-17 | | The API for the Internet Protocols, Characteristics of IPC | |
| 14 | 15-12-17 | | TUTORIAL | |
| 15 | 18-12-17 | | Sockets, UDP Datagram Comm., TCP Stream communication | |
| 16 | 19-12-17 | | External Data Representation and marshalling | |
| 17 | 20-12-17 | | Client server communication, Group communication | |
| 18 | 21-12-17 | | IP Multicast- an implementation of Group communication | |
| 19 | 22-12-17 | | TUTORIAL | |
| 20 | 26-12-17 | | Reliability and Ordering of Multi cast | |
| 21 | 27-12-17 | | SLIP TEST -II | |
| 22 | 28-12-17 | | TUTORIAL | |
| 23 | 29-12-17 | III | Distributed Objects and Remote Invocation: Introduction | |
| 24 | 01-01-18 | | Communication between Distributed Objects- Object Model | |
| 25 | 02-01-18 | | Distributed Object Modal | |
| 26 | 03-01-18 | | Design Issues for RMI, Implementation of RMI | |
| 27 | 04-01-18 | | Distributed Garbage Collection | |
| 28 | 05-01-18 | | TUTORIAL | |
| 29 | 08-01-18 | | Remote Procedure Call | |
| 30 | 09-01-18 | | Events and Notifications | |
| 31 | 10-01-18 | | Case Study: JAVA RMI | |
| 32 | 11-01-18 | | IV | Operation system Support: Introduction |
| 33 | 12-01-18 | | | TUTORIAL |
| 34 | 17-01-18 | The Operating System Layer, | | |
| 35 | 18-01-18 | Protection | | |
| 36 | 19-01-18 | TUTORIAL | | |
| 37 | 22-01-18 | Revision for old question papers or subjective test | | |
| 38 | 23-01-18 | Revision for old question papers or subjective test | | |
| 39 | 24-01-18 | Revision for old question papers or subjective test | | |
| 40 | 25-01-18 | Revision for old question papers or subjective test | | |
| 41 | 29-01-18 | Process and Threads –Address Space | | |
| 42 | 30-01-18 | Creation of a New Process | | |
| 43 | 31-01-18 | Threads | | |
| 44 | 01-02-18 | SLIP TEST -III | | |
| 45 | 02-02-18 | TUTORIAL | | |

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| 46 | 05-02-18 | V | Distributed file Systems: Introduction |
| 47 | 06-02-18 | | File service Architecture |
| 48 | 07-02-18 | | PEER- to-PEER Systems |
| 49 | 08-02-18 | | Peer-to-Peer Systems: Introduction |
| 50 | 09-02-18 | | TUTORIAL |
| 51 | 14-02-18 | | Napster and its Legacy |
| 52 | 15-02-18 | | Middle ware Routing Overlays |
| 53 | 16-02-18 | | TUTORIAL |
| 54 | 19-02-18 | | Overlay case studies: Pastry |
| 55 | 20-02-18 | | Coordination and Agreement: Introduction, |
| 56 | 21-02-18 | | Distributed Mutual Exclusion |
| 57 | 22-02-18 | | Distributed Mutual Exclusion |
| 58 | 23-02-18 | | TUTORIAL |
| 59 | 26-02-18 | | Elections |
| 60 | 27-02-18 | | Multicast Communication |
| 61 | 28-02-18 | SLIP TEST -IV | |
| 62 | 01-03-18 | VI | Transactions & Replications: Introduction |
| 63 | 05-03-18 | | System Model and Group Communication |
| 64 | 06-03-18 | | Concurrency Control in Distributed Transactions |
| 65 | 07-03-18 | | Distributed Dead Locks |
| 66 | 08-03-18 | | Transaction Recovery |
| 67 | 09-03-18 | | TUTORIAL |
| 68 | 12-03-18 | | Replication-Introduction, Passive (Primary) Replication |
| 69 | 13-03-18 | | Active Replication |
| 70 | 14-03-18 | | revision |
| 71 | 15-03-18 | | revision |
| 72 | 16-03-18 | | revision |
| 73 | 19-03-18 | | revision |
| 74 | 20-03-18 | | revision |
| 75 | 21-03-18 | | revision |
| 76 | 22-03-18 | | revision |
| 77 | 23-03-18 | revision | |
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| 80 | 28-03-18 | Revision for old question papers or subjective test | |
| 81 | 29-03-18 | Revision for old question papers or subjective test | |

Text Books

1. Ajay D Kshemaklyani, Mukesh signal, "distributed Computing, Principles, Algorithms & Systems", Cambridge
2. George Colouries, Jean Dollimore, Tim Kindberg, "Distributed Systems Concepts and Design", Fourth Edition, Pearson Publications

Faculty

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