

Zeal Education Society's**Zeal College of Engineering & Research, Narhe, Pune****Department: Computer Engineering**

Sr. No.	Topic	URL
1	Data Mining and Warehousing	https://learn.thezealacademy.com/learn/home/Data-Mining-and-Warehousing/section/376749/lesson/2328347?embedPlayer=1&disableLessonChange=true&visitorFlow=true
2	Digital Electronics and Logic Design	https://learn.thezealacademy.com/learn/home/Digital-Electronics-and-Logic-Design/section/376834/lesson/2329028?embedPlayer=1&disableLessonChange=true&visitorFlow=true
3	Computer Networks	https://learn.thezealacademy.com/learn/home/Computer-Networks/section/376850/lesson/2329166?embedPlayer=1&disableLessonChange=true&visitorFlow=true
4	OSI Reference Model	https://learn.thezealacademy.com/learn/home/Computer-Networks/section/376850/lesson/2329205?embedPlayer=1&disableLessonChange=true&visitorFlow=true
5	Transmission Media	https://learn.thezealacademy.com/learn/home/Computer-Networks/section/376850/lesson/2329371?embedPlayer=1&disableLessonChange=true&visitorFlow=true
6	ASP.net using C#	https://learn.thezealacademy.com/learn/home/ASP-net-using-C-/section/377094/lesson/2330771?embedPlayer=1&disableLessonChange=true&visitorFlow=true
7	Data Analytics	https://learn.thezealacademy.com/learn/home/Data-Analytics/section/377098/lesson/2330788?embedPlayer=1&disableLessonChange=true&visitorFlow=true
8	Data Preparation	https://learn.thezealacademy.com/learn/home/Data-Analytics/section/377098/lesson/2330796?embedPlayer=1&disableLessonChange=true&visitorFlow=true
9	Data Analytics Lifecycle	https://learn.thezealacademy.com/learn/home/Data-Analytics/section/377098/lesson/2330811?embedPlayer=1&disableLessonChange=true&visitorFlow=true
10	DBMS Application	https://learn.thezealacademy.com/learn/home/DBMS-Application/section/377162/lesson/2331170?embedPlayer=1&disableLessonChange=true&visitorFlow=true
11	Database Languages	https://learn.thezealacademy.com/learn/home/DBMS-Application/section/377162/lesson/2331194?embedPlayer=1&disableLessonChange=true&visitorFlow=true
12	SQL and PL/SQL	https://learn.thezealacademy.com/learn/home/DBMS-Application/section/377162/lesson/2331219?embedPlayer=1&disableLessonChange=true&visitorFlow=true
13	Data Model	https://learn.thezealacademy.com/learn/home/DBMS-Application/section/377162/lesson/2331232?embedPlayer=1&disableLessonChange=true&visitorFlow=true
14	Tables: Creating, Modifying, Deleting	https://learn.thezealacademy.com/learn/home/DBMS-Application/section/377162/lesson/2331239?embedPlayer=1&disableLessonChange=true&visitorFlow=true
15	All-to-All_Broadcast_and_Reduction	https://learn.thezealacademy.com/learn/home/All-to-All-Broadcast-and-Reduction/section/377220/lesson/2331393?embedPlayer=1&disableLessonChange=true&visitorFlow=true

16	All-to-All_personalized_Communication_c	https://learn.thezealacademy.com/learn/home/All-to-All-personalized-Communication-on-a-Mesh/section/377223/lesson/2331398?embedPlayer=1&disableLessonChange=true&visitorFlow=true
17	All-to-All Reduction	https://learn.thezealacademy.com/learn/home/All-to-All-Reduction/section/377225/lesson/2331403?embedPlayer=1&disableLessonChange=true&visitorFlow=true
18	Broadcast and ReductionMatrix-Vector M	https://learn.thezealacademy.com/learn/home/Broadcast-and-Reduction-Matrix-Vector-Multiplication/section/377227/lesson/2331410?embedPlayer=1&disableLessonChange=true&visitorFlow=true
19	Cache Coherence in Multiprocessoer Syst	https://learn.thezealacademy.com/learn/home/Cache-Coherence-in-Multiprocessoer-Systems/section/377230/lesson/2331426?embedPlayer=1&disableLessonChange=true&visitorFlow=true
20	Circular Shift	https://learn.thezealacademy.com/learn/home/Circular-Shift/section/377235/lesson/2331441?embedPlayer=1&disableLessonChange=true&visitorFlow=true
21	Communication steps in Cannon's algorithm	https://learn.thezealacademy.com/learn/home/Communication-steps-in-Cannon-s-algorithm-on-16-processes/section/377245/lesson/2331475?embedPlayer=1&disableLessonChange=true&visitorFlow=true
22	Cyclic and block Cyclic Distributions	https://learn.thezealacademy.com/learn/home/Cyclic-and-block-Cyclic-Distributions/section/377260/lesson/2331509?embedPlayer=1&disableLessonChange=true&visitorFlow=true
23	Data Decomposition	https://learn.thezealacademy.com/learn/home/Data-Decomposition/section/377265/lesson/2331540?embedPlayer=1&disableLessonChange=true&visitorFlow=true
24	Degree of Concurrency	https://learn.thezealacademy.com/learn/home/Degree-of-Concurrency/section/377267/lesson/2331560?embedPlayer=1&disableLessonChange=true&visitorFlow=true
25	Degree of Concurrency and the Isoefficien	https://learn.thezealacademy.com/learn/home/Degree-of-Concurrency-and-the-ISO-efficiency-Function/section/377270/lesson/2331573?embedPlayer=1&disableLessonChange=true&visitorFlow=true
26	Effect of granularity on Performance	https://learn.thezealacademy.com/learn/home/Effect-of-granularity-on-Performance/section/377275/lesson/2331587?embedPlayer=1&disableLessonChange=true&visitorFlow=true
27	Graph partitioning based Data Decomposi	https://learn.thezealacademy.com/learn/home/Graph-partitioning-based-Data-Decomposition/section/377278/lesson/2331598?embedPlayer=1&disableLessonChange=true&visitorFlow=true
28	High Performance Computing	https://learn.thezealacademy.com/learn/home/High-Performance-Computing/section/377480/lesson/2333131?embedPlayer=1&disableLessonChange=true&visitorFlow=true
29	High Performance Computing Unit I	https://learn.thezealacademy.com/learn/home/High-Performance-Computing-Unit-I/section/377279/lesson/2331617?embedPlayer=1&disableLessonChange=true&visitorFlow=true
30	High Performance Computing Unit II	https://learn.thezealacademy.com/learn/home/High-Performance-Computing-Unit-II/section/377281/lesson/2331629?embedPlayer=1&disableLessonChange=true&visitorFlow=true

31	High Performance Computing Unit III	https://learn.thezealacademy.com/learn/home/High-Performance-Computing-Unit-III/section/377287/lesson/2331669?embedPlayer=1&disableLessonChange=true&visitorFlow=true
32	High Performance Computing Unit IV	https://learn.thezealacademy.com/learn/home/High-Performance-Computing-Unit-IV/section/377289/lesson/2331679?embedPlayer=1&disableLessonChange=true&visitorFlow=true
33	High Performance Computing Unit V	https://learn.thezealacademy.com/learn/home/High-Performance-Computing-Unit-V/section/377290/lesson/2331698?embedPlayer=1&disableLessonChange=true&visitorFlow=true
34	Hybrid Decompositions	https://learn.thezealacademy.com/learn/home/Hybrid-Decompositions/section/377292/lesson/2331722?embedPlayer=1&disableLessonChange=true&visitorFlow=true
35	Impact of caches	https://learn.thezealacademy.com/learn/home/Impact-of-caches/section/377296/lesson/2331743?embedPlayer=1&disableLessonChange=true&visitorFlow=true
36	Interconnection Networks	https://learn.thezealacademy.com/learn/home/Interconnection-Networks/section/377310/lesson/2331778?embedPlayer=1&disableLessonChange=true&visitorFlow=true
37	ISO Efficiency Metric	https://learn.thezealacademy.com/learn/home/ISO-Efficiency-Metric/section/377311/lesson/2331798?embedPlayer=1&disableLessonChange=true&visitorFlow=true
38	Mapping Techniques	https://learn.thezealacademy.com/learn/home/Mapping-Techniques/section/377313/lesson/2331807?embedPlayer=1&disableLessonChange=true&visitorFlow=true
39	Matrix Vector Multiplication 2-D Partitioning	https://learn.thezealacademy.com/learn/home/Matrix-Vector-Multiplication-2-D-Partitioning/section/377318/lesson/2331829?embedPlayer=1&disableLessonChange=true&visitorFlow=true
40	Matrix Vector Multiplication Row wise 1-D Partitioning	https://learn.thezealacademy.com/learn/home/Matrix-Vector-Multiplication-Row-wise-1-D-Partitioning/section/377321/lesson/2331843?embedPlayer=1&disableLessonChange=true&visitorFlow=true
41	Motivating Parallelism	https://learn.thezealacademy.com/learn/home/Motivating-Parallelism/section/377430/lesson/2332967?embedPlayer=1&disableLessonChange=true&visitorFlow=true
42	Network Topologies Multistage Omega Networks	https://learn.thezealacademy.com/learn/home/Network-Topologies-Multistage-Omega-Networks/section/377429/lesson/2332963?embedPlayer=1&disableLessonChange=true&visitorFlow=true
43	Network Topologies Tree-Based Networks	https://learn.thezealacademy.com/learn/home/Network-Topologies-Tree-Based-Networks/section/377438/lesson/2332987?embedPlayer=1&disableLessonChange=true&visitorFlow=true
44	N-wide Superscalar Architecture	https://learn.thezealacademy.com/learn/home/N-wide-Super-scalar-Architecture/section/377442/lesson/2332993?embedPlayer=1&disableLessonChange=true&visitorFlow=true
45	Other Scalability Metrics	https://learn.thezealacademy.com/learn/home/Other-Scalability-Metrics/section/377444/lesson/2332998?embedPlayer=1&disableLessonChange=true&visitorFlow=true
46	Performance of Directory Based Schemes	https://learn.thezealacademy.com/learn/home/Performance-of-Directory-Based-Schemes/section/377445/lesson/2333000?embedPlayer=1&disableLessonChange=true&visitorFlow=true

47	Performance Metrics Super-linear Speedups	https://learn.thezealacademy.com/learn/home/Performance-Metrics-Super-liner-Speedups/section/377446/lesson/2333003?embedPlayer=1&disableLessonChange=true&visitorFlow=true
48	Processors	https://learn.thezealacademy.com/learn/home/Processors/section/377448/lesson/2333005?embedPlayer=1&disableLessonChange=true&visitorFlow=true
49	Scalability of parallel Systems	https://learn.thezealacademy.com/learn/home/Scalability-of-parallel-Systems/section/377450/lesson/2333009?embedPlayer=1&disableLessonChange=true&visitorFlow=true
50	Scalable Design Principles	https://learn.thezealacademy.com/learn/home/Scalable-Design-Principles/section/377451/lesson/2333013?embedPlayer=1&disableLessonChange=true&visitorFlow=true
51	Scaling Characteristics of parallel programs	https://learn.thezealacademy.com/learn/home/Scaling-Characteristics-of-parallel-programs/section/377454/lesson/2333019?embedPlayer=1&disableLessonChange=true&visitorFlow=true
52	Scatter and Gather	https://learn.thezealacademy.com/learn/home/Scatter-and-Gather/section/377459/lesson/2333026?embedPlayer=1&disableLessonChange=true&visitorFlow=true
53	Serial Fraction f	https://learn.thezealacademy.com/learn/home/Serial-Fraction--/section/377467/lesson/2333035?embedPlayer=1&disableLessonChange=true&visitorFlow=true
54	SIMD-MIMD Comparison	https://learn.thezealacademy.com/learn/home/SIMD-MIMD-Comparison/section/377468/lesson/2333047?embedPlayer=1&disableLessonChange=true&visitorFlow=true
55	Simplified Cost Model for Communicating Messages	https://learn.thezealacademy.com/learn/home/Simplified-Cost-Model-for-Communicating-Messages/section/377469/lesson/2333058?embedPlayer=1&disableLessonChange=true&visitorFlow=true
56	Sorting Networks Bitonic Sort	https://learn.thezealacademy.com/learn/home/Sorting-Networks-Bitonic-Sort/section/377471/lesson/2333067?embedPlayer=1&disableLessonChange=true&visitorFlow=true
57	Superscaler	https://learn.thezealacademy.com/learn/home/Superscaler/section/377472/lesson/2333074?embedPlayer=1&disableLessonChange=true&visitorFlow=true
58	Superscaler Processors	https://learn.thezealacademy.com/learn/home/Superscaler-Processors/section/377473/lesson/2333081?embedPlayer=1&disableLessonChange=true&visitorFlow=true
59	Task Interaction Graphs	https://learn.thezealacademy.com/learn/home/Task-Interaction-Graphs/section/377475/lesson/2333085?embedPlayer=1&disableLessonChange=true&visitorFlow=true
60	The Age Of Parallel Processing	https://learn.thezealacademy.com/learn/home/The-Age-Of-Parallel-Processing/section/377476/lesson/2333115?embedPlayer=1&disableLessonChange=true&visitorFlow=true
61	The IBM Blue Gene Architecture	https://learn.thezealacademy.com/learn/home/The-IBM-Blue-Gen-Architecture/section/377477/lesson/2333117?embedPlayer=1&disableLessonChange=true&visitorFlow=true
62	The Owner Computes Rule	https://learn.thezealacademy.com/learn/home/The-Owner-Computes-Rule/section/377478/lesson/2333119?embedPlayer=1&disableLessonChange=true&visitorFlow=true

63	Tradeoffs Of Multithreading And Prefetch	https://learn.thezealacademy.com/learn/home/Tradeoffs-Of-Multithreading-And-Prefetching/section/377479/lesson/2333122?embedPlayer=1&disableLessonChange=true&visitorFlow=true
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