Compiler Duign Unit-4 1) Intermediate Code generation 2) Quadruple, bible, indirect triples 3) Syntax true 3-address Code Evaluation Synthesized & inherited attributes Internediate larguage - définition declaration Assignment statements. 7) Boolean Statemente, Case Statement Back patching - Possedure Calls. Code Creneration. 19) Issues in design of code generator 11) Target machine - Runtime Storage Management A Simple Code generation Code Generation Algorithm Co Register and Address Descriptors. 14) benerating code of Assignment statements 15/ Crou Compiler - Todiagrams Issue in croy compiler. pudio 2 312 - 1100 / 1/201/11 42002 12/2009

Compiler Duigs Introduction of Principal Sources of Optimization Function Preserving Transformation Loop ophnization Ophinization of basic blocks Building Expression of DAG Prephole ophinization Basic Blocks, Flow Erraphs Introduction to Calobal obta flow Analysis Computing gen & Kill Computing in and out Carameter parsing, Kuntine Environmen Source Longrage issues Storage ophnization Activation Records Storage Albocation Strategies

Decomposition using FD-dependency presurvation Transaction Concept, propulies of bronsaction Serial izability of bronsactions. teling for swal inability, System occurry. Concurrency control Commit protocol, Recovery & Atomich exember of transactions and related Locking mechanism, solution to concurrency ocking protocol, isolation, inknt locking

Network Security SSLITLS Basic Protocol Computing Keys Client authentication PKI as deployed by SSL. SSL Attacks fixed in V3

Exportability
Encoding Encrypted Record, Handstake Menge
Change Cipher Spec & Allerts.

SET 2) Authorication & Confidentiality 3) Cellphone & GSM Security Security in UMTS 5) Wirden LAN Vulnerabilities, Phising Format String Attacks & Cron-Site Scripping SOL injection Case Study: Secure Inter-branch Payment bransaction

HPC Unit-4 1) OpenMP, Parallel execution & Data Scoping 2) OpenMP workshaving for loops.

3) Synchronization, Reduction, loop Scheduling, Tasking Wavefront parallelism zation.

5) Efficient OpenMP programming

6) Profiling openMP programs.

7) Performance pitfalls

8) Impact of openMP workshaving constructs

9) Determing openMP overhead for short loops

10) False shaving 1) Distributed memory parallel programming with MPI 3) Meuoge and point-to-point Communication, Collective and Nonblocking point-to-point Communication.
4) Virtual topolies. 5) MPI parallelization of a Jacobi Solver 6) MPI Implementation. Performance properties, MPI performance took.

8) Communication parameters

9) Synchomization, serialization, contention, Implicit Sirialization and Synche

10) Reducing communication orwhead & ophimal

12) domain decomposition. 12) Aggregating menages Nonblocking ve asynnomous

Unit-4 Planning - its problems, Simple planing agents Planning Planguage'
Block world hogal Stack planning Mean Ends Analysis
Non-linear Planning
Conditional planning, Reactive Planning
Learning - ML: - it goal & challenges, Concept Ashficial neural based learning Back propagation Support vector machines Reinforcement learning. Adaptive, Multi agent based Ensemble learning Learning for desicion making, distributed learning. Speed-up learning. and models Unit-S Exput Jyslem > Hachitecture, Poo, Cons Rule Based Systems, Frame based expert systems Natural Language Processing - it levels. Syntactic & Somentic Analysis Information relaised & Extraction Machine translation NLP Application Ad Claud Computing & intelligent agents
Business intelligence & analytics.

Sentiment Analytic

Deep learning Algorithms
Planning & Logic in Intelligent Agents