

Online course information  
And  
E-Resource material

**Team members:**

Vinay S B [**1PI13CS189**]

Shivayogi odisumath [**1PI14CS429**]

Praveen IH [**1PI14CS424**]

Under prof. Srinivas Murthy

## **Introduction:**

The most useful material for college student is the course information, and before doing this project my team found many students whiling here and there near the university office to just find a copy of course information. So we decided to make our DBMS project to be something useful yet something involves complex set of data and organization.

So we have implemented a database which is a collection of all the department's semester and on further the semesters are been selected and thus gives all the courses in the respective department selected, and then on clicking on the required course you will be redirected to a page which has all the units and chapters in the given course but also we are providing something useful for the students like giving a small description about the unit and by giving a e-resource in the form of a book or a link that will give a complete material required to expertise that unit.

## **Use of software and languages:**

We have used CSS, HTML, and Bootstrap for implementation of the user interface.

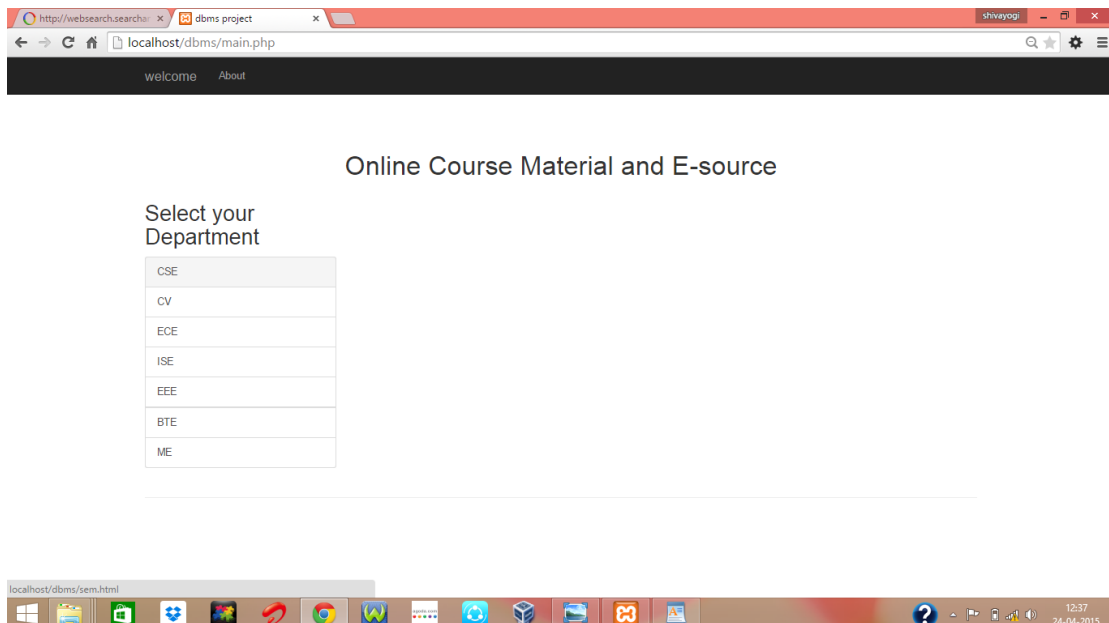
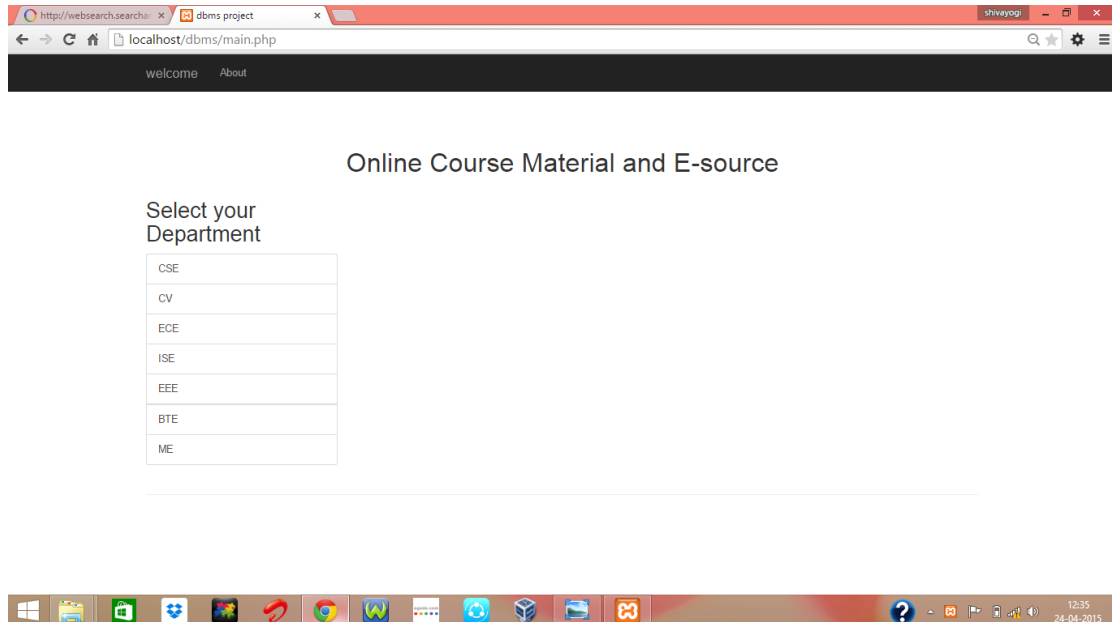
We have used Xampp which creates a local server for hosting websites locally

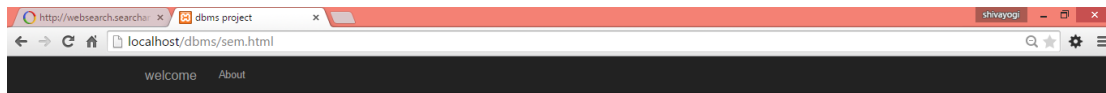
And we have implemented Database using PhpMyadmin and writing Mysql scripts.

For bridging the user interface and the database we have used the PHP

So it's basically a web based portal for the users to choose, which is being hosted locally through xampp.

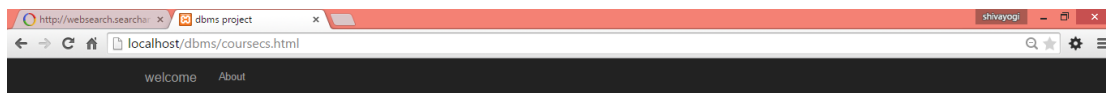
## Screen shots of the User interface:





Select your semester

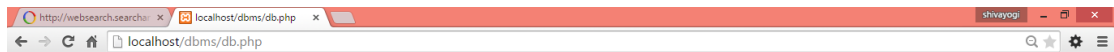
1
2
3
4
5
6
7
8



Select the course

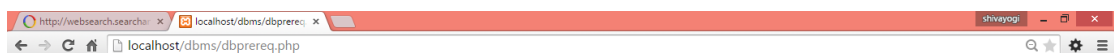
Linear Algebra
Analysis and design of algorithms
Database Mangement system
Introduction to microprocessors
Finite automata and formal language
Database Mangement lab
Introduction to microprocessors lab
Analysis and design of algorithms lab
Special topics





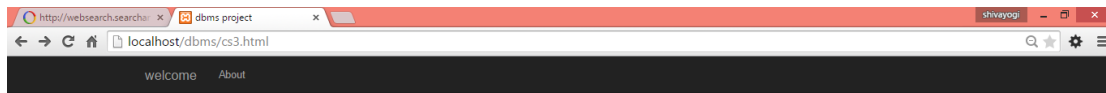
database management system	Units	Chapters	Unit_info	Url
	Introduction	introduction	UNIT I 10 Hours Introduction: An example, Characteristics of the Database approach: Actors on the scene, Workers behind the scene, Advantages of using DBMS approach: A brief history of database applications, when not to use a DBMS, Data models, schemas and instances, Three-schema architecture and data independence, Database languages and interfaces, the database system environment, Classification of Database Management systems, Using High-Level Conceptual Data Models for Database Design, Entity Types, Entity Sets, Attributes and Keys, Relationship Types, Relationship Sets, Roles and Structural Constraints, Weak Entity Types, Refining the ER Design for the COMPANY Database, ER Diagrams, Naming Conventions, Design Issues, Relationship types of degree higher than two.	<a href="http://www.google.com/dbms">www.google.com/dbms</a>
	Relational model concepts	Relational model concepts	UNIT II 11 Hours Relational Model Concepts, Relational Model Constraints and Relational Database Schemas, Relational Model Constraints and Relational Database Schemas, Update Operations and Dealing with Constraint Violations, Unary Relational Operations: SELECT and PROJECT, Relational Algebra Operations from Set Theory, Binary Relational Operations: JOIN, Binary Relational Operations: DIVISION, Additional Relational Operations, Examples of Queries in Relational Algebra, Relational Database Design Using ER-to-Relational Mapping	<a href="http://www.google.com/rmodel">www.google.com/rmodel</a>
	SQL	SQL	UNIT III 10 Hours SQL: SQL Data Definition and Data types, Specifying Basic Constraints in SQL, Schema Change Statements in SQL, Basic Queries in SQL, More Complex SQL Queries: Insert, Delete and Update Statements in SQL, Additional Features of SQL, Specifying General Constraints as Assertion and trigger, Views (Virtual Tables) in SQL, Additional features of SQL, Database programming issues and techniques, Embedded SQL, Dynamic SQL	<a href="http://www.wikipedia/sql">www.wikipedia/sql</a>
	UNIT4	Informal guidelines	UNIT IV 10 Hours Informal Design Guidelines for Schemas Functional Dependencies, Normal Forms Based on Primary Keys, (1st, 2nd and 3rd NF), General Definitions of Second Third Normal Forms, BoyceCodd Normal Form, Properties of Relational Decompositions, Algorithms for Relational Database Schema Design, Algorithms for Relational Database Schema Design, Multi-valued Dependencies and Fourth Normal form, Join Dependencies, Fifth Normal Form, Database tuning, unmlti media, Object and distributed databases	<a href="http://www.google.com/formal_ddependencies">www.google.com/formal_ddependencies</a>

[Pre requests for this subject](#)



**Computer science**  
Object Oriented modelling And Design





## Select the course

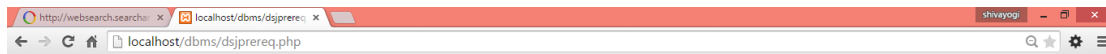
Mathematics-III for cs
Digital Design
Data Structure using java
Programming with C
Computer organisation and architecture
Digital design lab
Data structure lab
Programming with C lab
Special topics



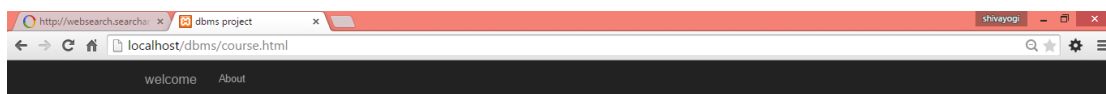
Linear algebra	Units	Chapters	Unit_info	Url
	Review of java	java abstract class	UNIT – I 10 Hours Object Oriented Programming, Objects and classes-Abstraction, Encapsulation, Composition, Inheritance, Polymorphism, Methods-Instance and class methods, Recursion, Exception Handling, Interface, Inner classes-Anonymous inner class, Reflection-Method, Package, Abstract data type, Arrays, Input output.	www.oracle.com
	LISTS	LISTS	UNIT – II 10 Hours List- Interface -Create, Insert, Delete, Update, traverse, implementation-Node based Linked list, Array implementation of a list, Head node and tail node, Additional behavior -Find, Delete, Reverse, Boundary conditions U	www.google.com/libked_lists
	Stacks and queues	stacks and queues	UNIT – III 12 Hours Stack, Queue and Priority Queue: Stacks-Interface, Implementation-Array Implementation, Linked List based Implementation, Queues-Interface, Implementation-Array Implementation, Linked List based Implementation, Circular Queues -Interface, Implementation-Array Implementation, Linked List based Implementation, Priority Queue-Interface, Implementation-Array Implementation-Unsorted, Sorted, Linked List based Implementation, List of Lists based Implementation.	www.google.com/sacks
	DOUBLY LINKED LIST	DOUBLY LINKED LIST	UNIT – IV 12 Hours Doubly Linked List-Interface, Implementation-Array Implementation, Linked List based Implementation, Trees-Introduction, Binary Tree-Interface and Implementation, Creation, Insertion, Traversal, General purpose tree and forest-Representation as a binary tree, Binary Search Tree, Introduction to-AVL tree, 2-4 Tree, Red-Black Tree, B Tree, Heap- Heap sort, Priority queue implementation using Heap	www.google.com/heaps

[Pre requisites for this subject](#)





Computer science  
Programming with c

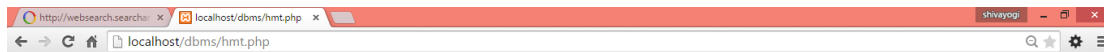


## Select the course

ALTERNATIVE BUILDING MATERIAL TECHNOLOGIES
CONCRETE AND HIGHWAY MATERIAL LAB
HYDROLICS AND MACHINARY
DESIGN AND RETELLING OF HYDROLIC STRUCTURE
LIMITS STATE DEGIN OF RC STURUCRAL SYSTEM
DESIGN OF STEEL STRUCTURE
STRUJCURAL ARCHITECTURE AND ARODYNAMICS
ELasticity OF MARIALS
Special topics

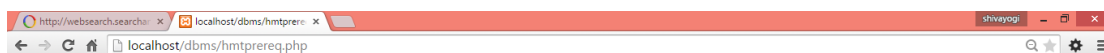






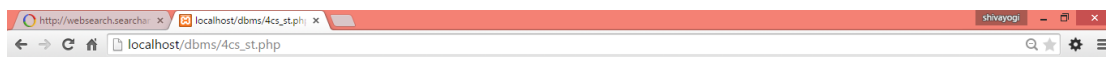
HYDRAULICS AND MACHINERY	course name	course info
	Hydraulics and Machinery theory	HYDRAULICS & MACHINERY THEORY LESSON PLAN Subject Code: 12CV253 Faculty: Prof. K Janardhana No. of Hours: 39 Class Unit No Portions to be Covered % Portions Covered Referred Unit Cumulative 1 - 3 UNIT 1 (8 hrs) Dimensional analysis and model studies: Introduction, dimensions and systems of units, dimensional homogeneity, methods of dimensional analysis: Raleigh's method, Buckingham's $\pi$ theorem. Use of dimensional analysis, model investigation 8 4 - 6 Similitude: geometric, kinematic and dynamic similarities, non-dimensional numbers and model laws: Reynold's, Froude, Euler, Mach and Weber, distorted and undistorted models, merits and limitations, scale effect in models, numerical problems. 8 16 6-8 Flow around submerged objects: Introduction to drag and lift, type of drag, flow past different object, dimensional analysis of drag and lift, drag on a flat plate and airfoil. 7 23 9-13 UNIT 2 (9 Hours) Flow in open channels: Introduction, Types of flow in channels, geometric properties of rectangular, triangular, trapezoidal and circular channels. Velocity distribution in a channel section, uniform flow in channels: Chery's equation, Manning's equation, Most economical open channels- rectangular, triangular, trapezoidal and circular channels, open channel sections for constant velocity, computation of uniform flow, specific energy and critical depth, critical flow and its computation, metering flumes: Venturi Flume, Standing wave flume, Parshall flume, practical channel sections, measurement of discharge in rivers. 12 35 17 Numerical problems. 9 44 18- 20 UNIT 3 (6 Hours) Impact of free jets on flat plates and curved vanes: Introduction, force exerted by fluid jet on a stationary flat plate and on a moving plate (normal and inclined cases). 7 51 21 - 23 Impact of a jet on a series of flat plates mounted on the periphery of a wheel, conditions for maximum hydraulic efficiency. Force exerted by a jet on a stationary curved vane and moving curved vane (symmetrical case) and concept of velocity triangles, numerical problems. 8 59 24-31 UNIT 4 (10 Hours) Hydraulic Turbines: Introduction, elements of hydroelectric power plant, head and efficiencies of hydraulic turbines, classification of turbines, Pelton Wheel - components, working, maximum power, efficiency, working proportions, design of Pelton turbine runner, Radial flow impulse turbine and reaction turbine, Francis Turbine work done, efficiency, working proportions, design of Francis turbine runner, draft tube theory, Kaplan turbines: components, working proportions, governing of turbines, runaway speed and surge tank. 15 74 32-33 Performance of Turbines: Introduction, performance under unit head and specific conditions, specific speeds, performance characteristic curves, cavitation in turbines, selection of turbines. 11 85 34 - 36 UNIT 5 (6 Hours) Centrifugal pumps: Introduction, parts and working of centrifugal pump, types, work done by impeller, head of pump, losses and efficiencies. 6 91 37-39 Minimum starting speed, specific speed, multistage centrifugal pumps (pumps in series and pumps in parallel), priming and numerical problems 9 100 Text Books: "Hydraulics and Fluid Mechanics including Hydraulic Machines (in SI Units)", P.N. Modi and S. M. Seth, 19th Edition, Standard Book House, New Delhi, 2013.

[Pre-requisites for this subject](#)



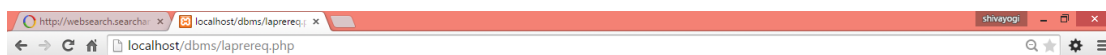
Civil engg.
ALTERNATIVE BUILDING MATERIALS AND TECHNOLOGIES THEORY





SPECIAL TPOIC	special topic name	topic info
	Advanced data structure	data structure
	Cloud infrastructure manegment	cloud

[Pre requisites for this subject](#)



Computer science	Prerequisites
Analysis and Designn of Algorithm	
Mathematics-III for computer science	

