UNIVERSITY OF ENGINEERING & MANAGEMENT, JAIPUR

Course Description

Title of Course: Major Project
Course Code: MCA691
L-T –P Scheme: 0-0-30 **Course Credits: 26**

Project: an activity where the participants have some degree of *choice* in the outcome. The result is complete and functional, that is, it has a beginning, middle and end. Usually, it spans multiple lab periods and requires work outside scheduled lab periods. Since there are choices in implementation, *design* is inherently a component of a project. A project is inherently different from an *analysis* or *exercise*, in which the solution has a predictable form. Projects span a wide variety of possibilities: design and build, identify a system, do a forensic analysis, evaluate a product or assess some environmental situation.

Program Objective 1
Graduates shall make their way to the society with proper scientific and technical knowledge in mechanical engineering.

Program Objective 2
Graduates shall work in design and analysis of mechanical systems with strong fundamentals and methods of synthesis.

Program Objective 3
Graduates shall adapt to the rapidly changing environment in the areas of mechanical engineering and scale new heights in their profession through lifelong learning.

Program Objective 4
Graduates shall excel in career by their ability to work and communicate effectively as a team member and/or leader to complete the task with minimal resources, meeting deadlines.

Program Outcomes:

1. Ability to apply knowledge of mathematics, science and mechanical engineering fundamentals for solving problems.
2. Ability to Identify, formulate and analyze mechanical engineering problems arriving at meaningful conclusions involving mathematical inferences.
3. Ability to design and develop mechanical components and processes to meet desired needs considering public health, safety, cultural, social, and environmental aspects.
4. Ability to understand and investigate complex mechanical engineering problems experimentally.
5. Ability to apply modern engineering tools, techniques and resources to solve complex mechanical engineering activities with an understanding of the limitations.
6. Ability to understand the effect of mechanical engineering solutions on legal, cultural, social, public health and safety aspects./li>

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7. Ability to develop sustainable solutions and understand their impact on society and environment.
8. Ability to apply ethical principles to engineering practices and professional responsibilities.
9. Ability to function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.
10. Ability to comprehend, design documentation, write effective reports, make effective presentations to the engineering community and society at large.
11. Ability to apply knowledge of engineering and management principles to lead teams and manage projects in multidisciplinary environments.
12. Ability to engage in independent and life-long learning in the broad context of technological changes and advancements.

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Course Description

Title of Course: PHP, .NET Lab
Course Code: MCA692
L-T-P scheme: 0-0-6 **Course Credit: 4**

Objectives:

- Understand the importance of the web as a medium of communication.
- Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.
- Become familiar with graphic design principles that relate to web design and learn how to implement these theories into practice.
- Develop skills in analyzing the usability of a web site.
- Learn the language of the web:Sql, .net, PHP, HTML and CSS.

Learning Outcomes:

- Apply critical thinking and problem solving skills required to successfully design and implement a web site.
- Demonstrate the ability to analyse, identify and define the technology required to build and implement a web site.
- Demonstrate knowledge of artistic and design components that are used in the creation of a web site.
- Utilize and apply the technical, ethical and interpersonal skills needed to function in a cooperative environment.
- Apply critical thinking and problem solving skills required to successfully design and implement a web site.
- Demonstrate the ability to analyze, identify and define the technology required to build and implement a web site.

Course Contents:
Exercises that must be done in this course are listed below:
Exercise No.1: Create a form in HTML for entering value for some specific fields. (Registration Page)
Exercise No.2: Create table in SQL for storing data of registration page. (Using sql query)
Exercise No.3: Create a webpage to show the data which is entered in sql tables through registration page.
Exercise No. 4: Create a web page to file upload option, so user can upload document on website.
Exercise No. 5: Create a webpage to show the uploaded document.
Exercise No. 6: assemble all the web page to create a website for a specific organization and set authentication for user (Minor Project).
Exercise No. 7: Create master page for previous developed pages.
Exercise No. 8: Apply validators for all fields which are used in previous developed pages.
Exercise No. 9: Major project.
Text Book:
1. Maurice J. Bach, Design of the UNIX Operating System, PHI.

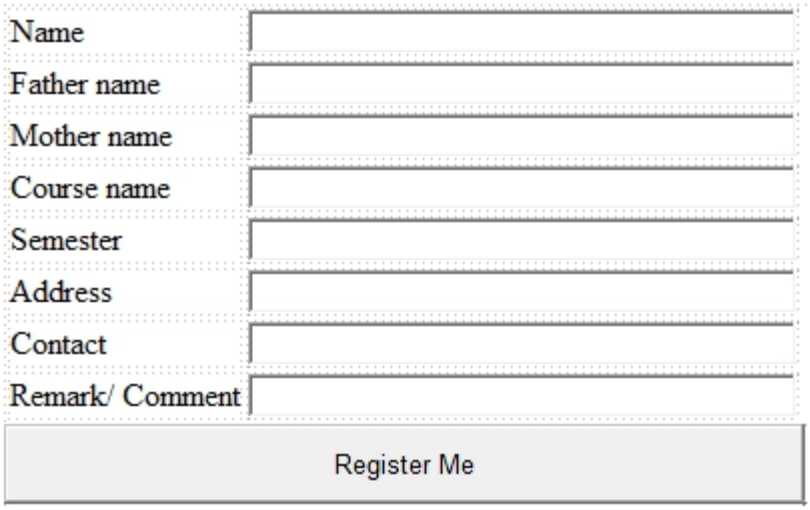
Recommended Systems/Software Requirements:
1. Desktop PC with minimum of 166 MHZ or faster processor with at least 1 GB RAM and 160 GB disk space.
2. Visual studio 2012, Microsoft sql server 2008 R2

Experiment No 1: Registration Page
Aim: Create a form in HTML for entering value for some specific fields.

Description:
Here a registration page will be developed which have the following fields.
Name, Father Name, Mother name, Course name, Semester, Address, Contact number, Comment, and submit button

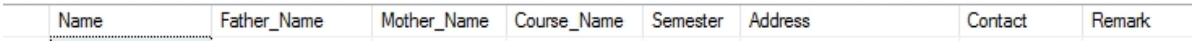
INPUT 1:
Name: Subrat
Father name: Gautam
Mother name: Gautam
Course: B.tech
Semester: 5th
Address: Jaipur
Contact: 0123456789

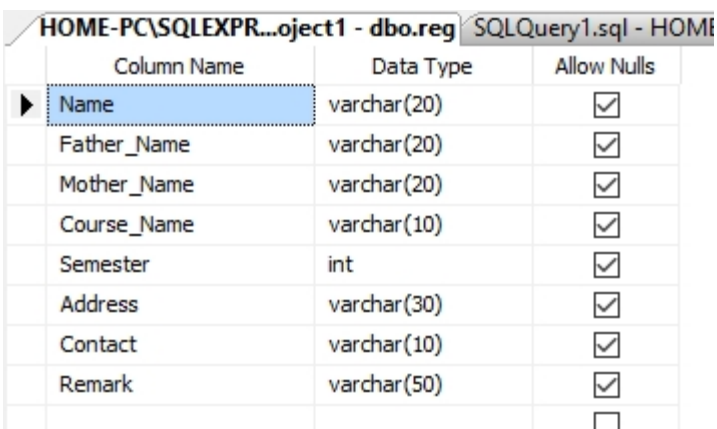
OUTPUT 1:



Experiment No 2: Using sql query
Aim: Create table in SQL for storing data of registration page.
Description:
Here student have to develop a Sql table in which the following should be cover:
Name, Father Name, Mother name, Course, Semester, Address, Contact, Comment

OUTPUT 1:





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Experiment No: 3 Grid View
Aim: Create a webpage to show the data which is entered in sql tables through registration page.

Description:
Here student have to show the data which is stored in sql table with the help of grid view.

Output 1:

	Name	Father_Name	Mother_Name	Course_Name	Semester	Address	Contact	Remark

Experiment No:4 File upload
Aim: Create a web page to file upload option, so user can upload document on website.

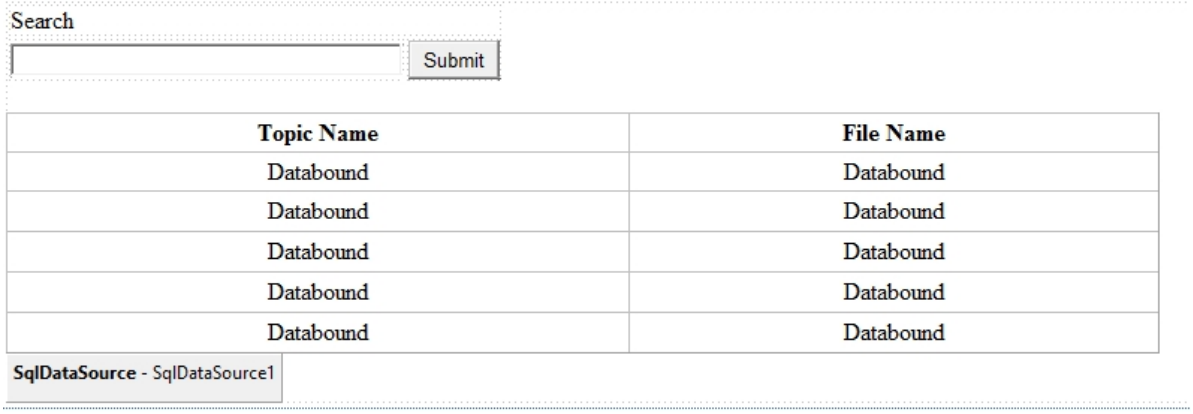
Description:
Here student have to develop a web page from where user can upload any file.

OUTPUT 1:

Experiment No: 5Grid view with hyperlink option.
AIM: Create a webpage to show the uploaded document.

Description:
Here student have to develop a grid view so user can see the list of file which is uploaded on website.

OUTPUT 1:



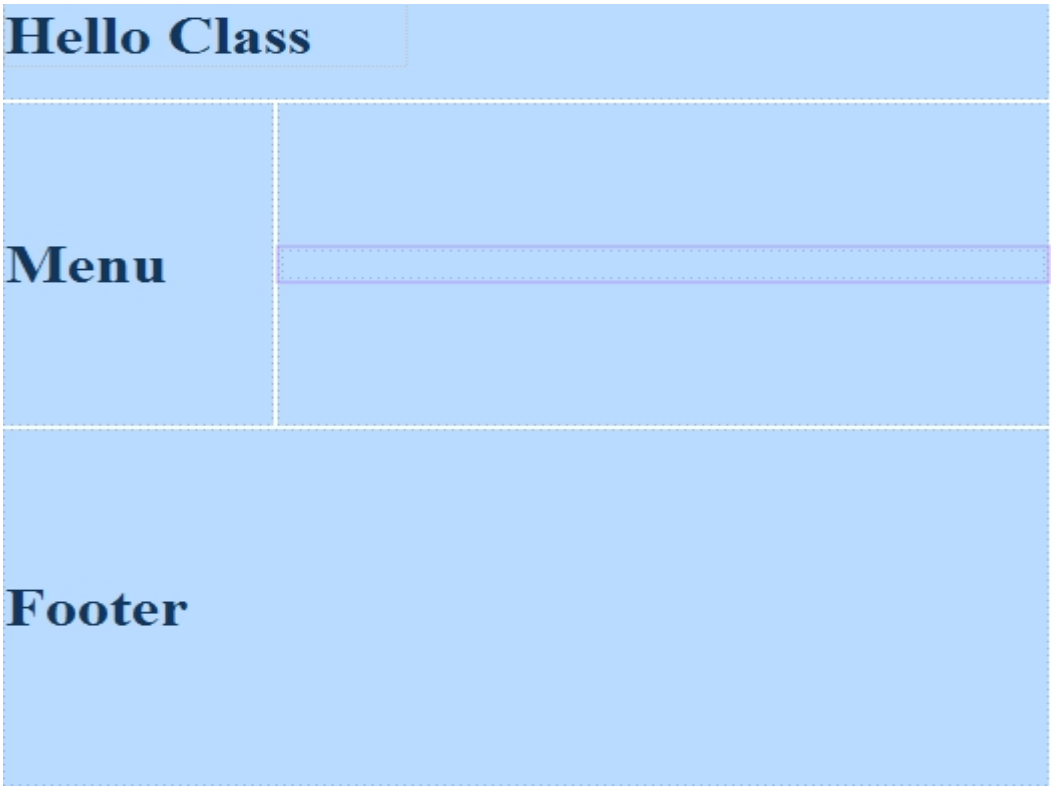
Experiment No: 6 Authentications (Login)
AIM: Develop login page.

Description:
Here student have to develop a webpage where user can enter registered id and password to access system.

Experiment No 7: Master pages
AIM: Create master page for previous developed pages.

Description:
Here student have to develop master page to provide good look and strong functionality to website.

OUTPUT 1:



Experiment No: 8 Validators.
AIM: Apply validators for all fields which are used in previous developed pages

Description:
Here student have to set validators for fields in registration page.

OUTPUT 1: