Jawaharlal Nehru Engineering College

Laboratory Manual

WDL Practical & Mini Project

For

FY MCA

FORWARD

It is my great pleasure to present this laboratory manual for FYMCA students for the subject of WDL (Web Designing Language).Subject name itself is expecting what are the tools that might be in this manual. We have dealt with HTML for static pages and ASP.NET for Dynamic pages.

As a student, many of you may be wondering with some of the questions in your mind regarding the subject and exactly what has been tried is to answer through this manual.

As you may be aware that MGM has already been awarded with ISO 9001-2000 certification and it is our endure to technically equip students taking the advantage of the procedural aspects of ISO 9001-2000 Certification.

Faculty members are also advised that covering these aspects in initial stage itself, will greatly relived them in future as much of the load will be taken care by the enthusiasm energies of the students once they are conceptually clear.

Prof. S.D.DESHMUKH
Principal

LABORATORY MANNUAL CONTENTS

This manual is intended for the FYMCA students for the subject of WDL (Web Development Language). In the subject of this manual typically contains practical/Lab Sessions we have dealt with HTML. HTML is not case sensitive, so it does not matter in which case the tag is written.

ASP.NET is an additional tool taught to develop dynamic pages along with the static pages.

Students are advised to thoroughly go through this manual rather than only topics mentioned are the key to understanding and conceptual visualization of theoretical aspects covered in the books.

Good Luck for your Enjoyable Laboratory Sessions

Ms. Sujata Kondekar

SUBJECT INDEX:

DOs and DON'T DOs in Laboratory:

1. Do not handle any equipment before reading the instructions/ Instruction manuals

2. Read carefully the power ratings of the equipment before it is switched on whether ratings 230 V/50 Hz or 115V/60 Hz. For Indian equipments, the power ratings are normally 230V/50Hz. If you have equipment with 115/60 Hz ratings, do not insert power plug, as our normal supply is 230V/50 Hz, which will damage the equipment.

3. Observe type of sockets of equipment power to avoid mechanical damage

4. Do not forcefully place connectors to avoid the damage

5. Strictly observe the instructions given by the teacher/Lab Instructor

6. Do not use virus infected Pen drives in Lab.

7. Take print out of each practical immediately after completing the given assignment in the same Lab session.

Instruction for Laboratory Teachers:

1. Submission related to whatever lab work has been completed should be done during the next lab session. The immediate arrangements for printouts related to submission on the day of practical assignments.

2. Students should be taught for taking the printouts under the observation of lab teacher.

3. Each program should have a comment about the assignment no , date and tag studied as a remark.

4. The promptness of submission should be encouraged by way of marking and evaluation patterns that will benefit the sincere students.

Assignment-1 –

It is a theory assignment based on the basic concepts refreshment of all the students.

Q.1. Explain the following terms.
      1. HTML   2. Internet   3. Web browser
      4. Search engine   5. Attributes
Q.2. Explain advantages and disadvantages of Internet.
Q.3. Define standard HTML structure.
Q.4. Define various types of HTML tags with examples of each.
Q.5. Advantages and disadvantages of HTML.

Assignment - 2

Lab Exercises: 1

Design a web page to display the information of MCA department of JNEC by using basic page tags. Display the information in the form of paragraphs/sentences. Also use effects to highlight the information like bold, italic or underline.

Purpose: - This exercise introduces the basic HTML document format and basic page designing tags for static page. (Use tags for paragraph, font, color, line break, bold, italic, underline, subscript, superscript, etc.)

Algorithm for Lab Exercise No1: (2 Hours)

```
<!- Assignment-2 Design page by using basic page designing tags->
<HTML>
<HEAD>
 <TITLE> MGM"S J.N.E.C., Aurangabad</TITLE>
<h1><B>MCA department </B></h1>
</Head>
<Body>
<p> text to display as a paragraph
    <B> text to display bold </B>
    <I> text to display italic </I>
    <u> text to display bold </u>
 </p>
</body>
<HTML>
```

Assignment - 3

Lab Exercises: 2

Design a page to display the MCA syllabus of three years by using List tag.

Purpose: - Introduce list tag to display data in ordered or unordered format as main, sub main, sub-sub main, etc by using nos. or special types of bullets.

Algorithm for Lab Exercise No2: (2 Hours)

```
<!- Assignment-3 Design page by using List tag .
<HTML>
     <HEAD>
          <TITLE></TITLE>
          <H1> <CENTER> MCA –Engineering Syllabus </CENTER></H1>
     </HEAD>
     <OL>
          <LI> FIRST YEAR </LI>
          <OL TYPE="1">
               <LI> SUBJECT NAME-1</LI>
               <LI> SUBJECT NAME-2</LI>
               <LI> SUBJECT NAME-3</LI>
               <LI> SUBJECT NAME-4</LI>
               <LI> SUBJECT NAME-5</LI>
          </OL>
     </OL>
</HTML>
```

Assignment - 4

Lab Exercises: 3

Create a hyperlink to show the information and syllabus of management and engineering MCA. When click on the links each page should display the objective of respective course, fees, duration and year wise and semester wise.

Purpose: - Introduce anchor tag to create links between pages. One can able to transfer the control to next page, previous page or to a specific page like Home page.

Algorithm for Lab Exercise No3: (2 Hours)

```
<! - Assignment-4 Design page by using anchor tag ->
<HTML>
     <HEAD>
          <TITLE></TITLE>
          <H1> <CENTER> MGM's</CENTER></H1>
          <H1> <CENTER> J.N.E.C., Aurangabad</CENTER></H1>
     </HEAD>
     <p> text / information about the MGM </p>
     <a href="d:\WDL\ENG-SYL.html" > MCA-Engineering</a>
     <a href="d:\WDL\MNG-SYL.html" > MCA-Management</a>
</HTML>
```

Page which displays MCA-Engineering syllabus and other details.

```
<! - Assignment-4 Page contents to display MCA-engineering syllabus. ->
<HTML>
      <HEAD>
             <TITLE></TITLE>
             <H1> <CENTER> MCA- Engineering</CENTER></H1>
      </HEAD>
      <p>
      Information like duration, eligibility, fees and syllabus will be written in this
      document. Display syllabus in list format as done in last assignment.  Use
      paragraph formatting tags to format the information professionally.
      </p>
<HTML>
```

Assignment - 5

Lab Exercises: 4

Design a page to display the information in table format. Display the list of MCA collages along with the details Collage Name, MCA stream, Address, Contact no. Address column will consist of sub columns as area, colony, city and pin code.

Purpose: - Introduction of table tags along with the sub columns and other supportive tags like caption, cell spacing, cell padding etc.

Algorithm for Lab Exercise No 4: (2 Hours)

```
<!- Assignment-4 Design page by using table tag ->
<HTML>
      <HEAD>
             <TITLE></TITLE>
             <H1> <CENTER> Table title</CENTER></H1>
      </HEAD>
      <BODY>
             <TABLE>
                   <!-Define row wise data for each row -!>
                   <TR>
                          <TD>ROW DATA IN FIRST COLUMN </TD>
                          <TD>ROW DATA IN SECOND COLUMN </TD>
                   </TR>
                   <!-Define Sub columns with attributes as follows->
                   <TR COLSPAN = NO OF SUB COLUMNS>
                          <TD>ROW DATA IN FIRST COLUMN </TD>
                          <TD>ROW DATA IN SECOND COLUMN </TD>
                   </TR>
             </TABLE>
      </BODY>
</HTML>
```

Assignment - 6

Lab Exercises: 5

Design web pages which display the product images and its information with it. The products are computer, printers and laptop. The information displayed of product should be configuration/ technical details, price etc.

Purpose: - Study image tag. Display image in tabular form along with the other text information.

Algorithm for Lab Exercise No 5: (2 Hours)

```
<!- Assignment-5 Design page by using image tag ->
<HTML>
      <HEAD>
            <TITLE></TITLE>
      </HEAD>
      <BODY>
            <!-Display details of products in table format as columns and row-!>
            <!-all images are displayed in same size by spacing width, height
            attributes->
            <TABLE>
                  <TR>
                       <TH><img src="path of img source" width=,height, alt></TH>
            </TR>
            </TABLE>
      </BODY>
</HTML>
```

Assignment - 7

Lab Exercises: 6

Design web pages to display the information about JNEC and MCA stream. Divide the page into three frames. The top frame should display the title of the college, left frame shout display the streams of MCA i.e. Engineering and Management and the right frame display the details of selected MCA stream like fees, syllabus etc.

Purpose: - Study frame tag which allow to divide the screen into no of sections.

Algorithm for Lab Exercise No 5: (2 Hours)

```
<!- Assignment-6 Design page by using frame tag ->
<HTML>
      <HEAD>
            <frameset col/ rows="% for frames ">
                 <frame src = "file name">
            </frameset>
      </HEAD>
</HTML>
```

Page which displays MCA-Engineering/Management syllabus and other details.

```
<! - Assignment-7 Page contents to display MCA-engineering syllabus. ->
<HTML>
      <HEAD>
             <TITLE></TITLE>
             <H1> <CENTER> MCA- Engineering</CENTER></H1>
      </HEAD>
      <p>
      Information like duration, eligibility, fees and syllabus will be written in this
      document. Display syllabus in list format as done in last assignment.  Use
      paragraph formatting tags to format the information professionally.
      </p>
<HTML>
```

Assignment - 8

Lab Exercises: 7

Design web pages to accept the student information. Student should enter the details like first name, last name, middle name, city up to 25 characters, and address up to 50 characters. Show the combo box to select the qualification, option button for gender selection. Display the information accepted in a formatted form.

Purpose: - Study form tag which allow to design the formatted screen to accept the information from the user.

Algorithm for Lab Exercise No 7: (2 Hours)

```
<!- Assignment-7 Design page by using form tag ->
<HTML>
      <HEAD>
      <Body>
             <form >
                 <!-Input statements to display form content and accept data->
                 <input type = "data type" name="Caption" size="max. size ">
             </form>
      </Body>
      </HEAD>
</HTML>
```

Assignment - 9

Lab Exercises: 8

Design CSS style sheet to define settings for heading, body, table and links.

Purpose: - Study CSS style sheet facility. This allows setting the default settings for all the pages.

Algorithm for Lab Exercise No 8: (2 Hours)

```
<! - Assignment-7 Design the own style->
{
        <!- settings for body text->
        Body  {  font-size    : size;
                  font-family : font name for body text;
                  color        : color for body text;
                background-color : color for body;
                 }
        <!- settings for heading text->
        H1     {  font-size    : size;
                  font-family : font name for heading ;
                  color        : color for heading text;
                text- align   : center;
                 }
        <!- settings for parahraph text->
        p       {  text-indent :  paragraph starting margin;
                  margin-left : size in pixcel ;
                  margin-right: size in pixcel;
                color : color for para. Text;
                 }
        <!- settings for parahraph text->
        table  {  color                 :  table text color;
                  background-color : background color;
                 }
        A:link { color: link color text ;}
        A:visited {color: visited link  color;}
}
```

Page which links the CSS to apply the settings defined to the designed page.

```
<!- Design page to apply above setting ->
<HTML>
        <!- Link style sheet->
        <head>
        <link rel="stylesheet" href="name of style sheet file" type=""/>
        </head>
        <Body>
                Use all the tags for which styles are defined inCSS
        </Body>
</HTML>
```

Lab Exercises: 9

Design a form and validate the data entered by the user.

Purpose: - Study Java script. Validate data entered by user.

Algorithm for Lab Exercise No 8: (2 Hours)

```
<! - Assignment-9 validate function to validate blank, number and mail id->
<HTML>
   <SCRIPT type ="javascript">
         Function function name ()
               {
               Decision and process of function
               }
      <Body>
               Use all the tags for which styles are defined inCSS
      </Body>
  </SCRIPT>
      <!-Design form to accept user name and other details to validate->
      <!-Call function to validate data entered->
      <form name ="form name" id =" " action=" " on submit="validate function">
</HTML>
```

Quiz on the subject:

Quiz should be conducted on tips in the laboratory, recent trends and subject knowledge of the subject. The quiz questions should be formulated such that questions are normally are from the scope outside of the books. However twisted questions and self formulated questions by the faculty can be asked but correctness of it is necessarily to be thoroughly checked before the conduction of the quiz.
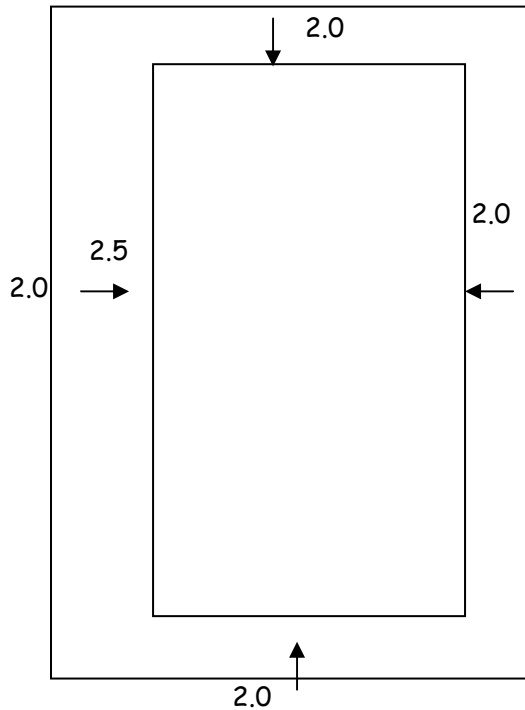
Conduction of Viva-Voce Examinations:

Teacher should oral exams of the students with full preparation. Normally, the objective questions with guess are to be avoided. To make it meaningful, the questions should be such that depth of the students in the subject is tested Oral examinations are to be conducted in co-cordial environment amongst the teachers taking the examination. Teachers taking such examinations should not have ill thoughts about each other and courtesies should be offered to each other in case of difference of opinion, which should be critically suppressed in front of the students.
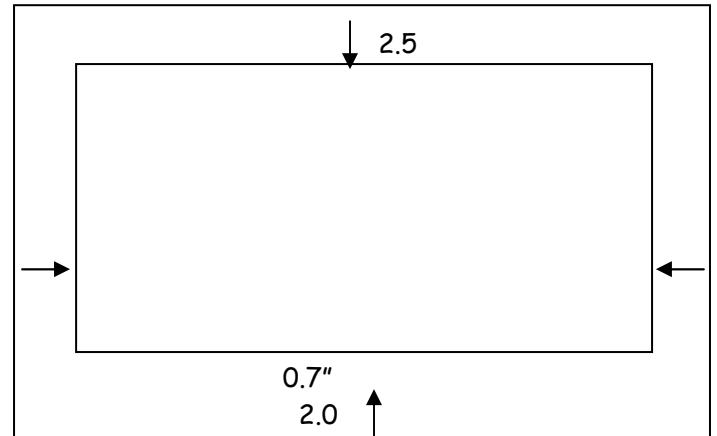
Submission:

Document Standard:

A] Page Size   A4 Size

B] Running text   Justified text

C] Spacing   1 Line

D] Page Layout and Margins (Dimensions in Cms)

   Normal Page   Horizantal

Desription	Font	Size	Boldness	Italics	Underline	Capitalize
College Name	Arial	24	-----	------	Yes	----------
Document Title	Tahoma	22	-----	------	---------	----------
Document Subject	Century Gothic	14	-----	------	---------	Capital
Class	Bookman old Slyle	12	-----	------	---------	----------
Document No	Bookman old Slyle	10	-----	------	---------	----------
Copy write inf	Bookman old Slyle	9	-----	------	---------	----------
Forward heading	Bookman old Slyle	12	-----	------	Yes	Capital
Forward matter	Bookman old Slyle	12	-----	------	---------	----------
Lab man Contents title	Bookman old Slyle	12	-----	------	Yes	Capital
Index title	Bookman old Slyle	12	Yes	------	Yes	Capital
Index contents	Bookman old Slyle	12	-----	------	---------	----------
Heading	Tahoma	14	Yes	Yes	Yes	----------
Running Matter	Comic Sans MS	10	-----	------	---------	----------

Evaluation and marking system:

Basic honesty in the evaluation and marking system is absolutely essential and in the process impartial nature of the evaluator is required in the examination system to become popular amongst the students. It is a wrong approach or concept to award the students by way of easy marking to get cheap popularity among the students to which they do not deserve. It is a primary responsibility of the teacher that right students who are really putting up lot of hard work with right kind of intelligence are correctly awarded.

The marking patterns should be justifiable to the students without any ambiguity and teacher should see that students are faced with unjust circumstances.