



COURSE NAME: MCA
Semester-1

Subject Name: Web Development Technology using PHP (WDT-1)

Subject Code: 040110104

Day 1

Detailed Schedule

1.

Revision of HTML and javascript, installation of WAMP and XAMP, understanding of Php.ini file for settings

Essential Assignment

1.

Make a personal information form as mention below using HTML and print user input using java script.

Name:	<input type="text"/>	Allow only alphabet
Birthdate:	<input type="text"/>	
Gender:	<input type="text"/>	
Hobby:	<input type="text"/>	
Email:	<input type="text"/>	Email must be contain @ and .
Password:	<input type="password"/>	
Retype-Password	<input type="password"/>	
<input type="button" value="Clear"/> <input type="button" value="Submit"/>		

2

Do the following setting in php.ini file

upload_max_filesize=2000

post_max_size=1000

display_errors =on

max_execution_time = 50

file_uploads=on

Desirable Assignment

1.

Create a product entry form using HTML and print user input using java script. Use appropriate input types for each field.

Product Code:	
Product Name:	
Category:	
Description:	
Sale Price (Rs):	
Discount (%):	
<div>Clear</div> <div>Submit</div>	



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Day 2

Detailed Schedule

1.

Introduction of PHP, common uses of PHP, advantage and limitations of PHP
Explain Setting up a PHP page, introduction of basic PHP syntax, phpinfo() function
Print output on page with echo, use of comments in PHP
Combining HTML and PHP code on a single page

PHP \$_POST,\$_GET,\$ REQUEST variable
Explain variables and its type, change the type using settype() and by casting

Essential Assignment

2.

1. Write a PHP program to print “Welcome to LJKU” using a variable.
2. Write a PHP script to get the PHP version and configuration information.
3. Write a PHP script to take 3 inputs from the users in the following format and print a message with user’s full name.

Lastname:

First Name:

Middle Name:

Submit

Eg. Input values are Shah, Ankit, Hashmukhbhai then output must be **Hi!! How are you Ankit Hashmukhbhai Shah?**

4. Create HTML form as shown below. Take user input and print inputted data below the form using PHP script.

Registration Form

First Name :

Last Name :

Birthdate :

Address :

Pin code :

Country :

First Name : ABC
 Last Name : XYZ
 Birthdate : 01/01/2013
 Address : Anand
 Pin code : 388120
 Country : India

5. Write a PHP program that takes 2 values from the user using html form and swap two values in the variable, using 3rd variable.
6. Write a PHP program to take a user input as floating-point number and convert float value into integer (using settype ()) and string (using casting) then print it in respective manner.
7. Create a PHP script that take at least 5 different variable values from user. Populate them with a values of different data type and use a gettype() function to print each type to the browser.

Desirable Assignment

3.

1. Write a PHP program that takes 2 values from the user and swap two values in the variable, without using 3rd variable.
2. Write a PHP script to get the client IP address
3. Write a PHP program to take an input integer from user and convert integer value into double using settype()
4. Write a PHP program to check the user inputted value of a variable is Boolean or not



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Day 3

Detailed Schedule

1.

Explain operator and expressions
Explain constants and use of constants
Explain if , else.if statement with syntax
Explain switch statement with syntax

Essential Assignment

1.

1. Simple calculator using PHP script.

2. Write a PHP script to take 3 values from user input and assign values to three variables. Use comparison operator and print that value in ascending manners.
3. Write PHP script to generate result and display grade. Take marks of 5(C,FOC,DM,ADBMS,PHP) subjects as an input from user. Make a total of those marks, calculate percentage and print their division using following conditions. (Note: Use switch statement.)
 - If Percentage are 60% or more, division will be First Division.
 - If Percentage are between 45% to 59%, division will be Second Division.
 - If Percentage between 33% to 44%, division will be Third Division.
 - If Percentage are less than 33%, student will be Fail.
4. Write a PHP program to print a bill amount to be paid for the products purchased by the user. Use if-else conditions for applying discount on total bill amount. (Note: Total Bill Amount is the user input)
 - Give 20% discount if amount is >5000

- Give 10% discount if amount is >2000
- Give 5% discount if amount is >1000

Desirable Assignment

1.

1. Write PHP Script to generate result and display grade. Take marks of any 5 subjects as an input from user. Make a total of those marks, calculate percentage and print their division using following conditions. (Note: Use ternary operator)

- If percentage are 60% or more, division will be First Division.
- If percentage are between 45% to 59%, division will be Second Division.
- If percentage are between 33% to 44%, division will be Third Division.
- If percentage are less than 33%, student will be Fail.

2. Write a program to calculate Loan amount to be paid with monthly instalments and load interest amount. User below given format for page design

Annual Interest Rate	<input type="text" value="3.8"/>
Number of Years	<input type="text" value="30"/>
Loan Amount	<input type="text" value="450000"/>
Monthly Payment	2096.81
Total Payment	754851.60
	<input type="button" value="Compute Payment"/>
Monthly Payment	<input type="text" value="2400"/>
Loan Amount	515068.60
	<input type="button" value="Compute Loan Amount"/>



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Day 4

Detailed Schedule

1.

What is an array? Creating an array, adding items to an array, accessing array elements, Creating multidimensional arrays

Explain while and do...while loop with syntax

Explain for loop, nesting of for loop with syntax, for each loop.

Essential Assignment

1.

1. Write a PHP program to perform following operation on Array where values in array are entered by user

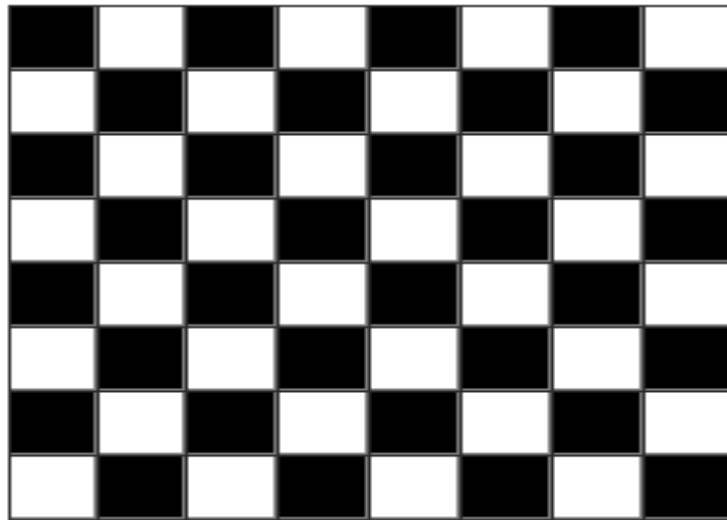
a) Print the values of array.

b) Print values of an array in reverse order.

2. Print following table in browser

1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100

3. Write a program to create chess board in PHP using for loop



1. Create a PHP script which displays the capital and country name from the associate array. Sort the list by the name of the country.

Select your country and state

Select Country

▼

Select State

▼

Submit

Desirable Assignment

1.

Write PHP code which display fruits according to user selected color.(use Multidimensional array)

Select color and display appropriate fruit

Yellow



Submit

OutPut:

Banana , Mango , Apricot



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Day 5

Detailed Schedule

1.

Defining function, calling function,
Returning value from user defined function
Function variable scope and function arguments
Formatting string with PHP
Investigating string in PHP
Manipulating string with PHP
Date and time function in PHP

Essential Assignment

1.

1. Write a function to calculate total amount for an order. Which accept quantity for a given item as shown below:

Hint: Use quantity as function argument. Price of an item is predefined static value.(Tires=2500,Oil=700,Spark Plug=300)

Item	Quantity
Tires	<input type="text"/>
Oil	<input type="text"/>
Spark Plugs	<input type="text"/>

Total amount to be

2. Write PHP function to perform following numeric operation according to user selection of radio button.

Enter No :

☒ Odd or Even
☐ Positive or Negative
☐ Prime or composite
☐ Palindrom or not

Ans :

3. Perform following string operation according to user selection of radio button.

Enter String :

☒ Uppercase
☐ Lowercase
☐ Right 5 Character
☐ Left 5 Character

Output :

4. Write a PHP script to generate simple random password [do not use rand() function] from a given string.

Sample string: '1234567890ASTUVWXYZabcefghijklmnopqrst'

Output: 89Qp3AK

Note: Password length may be 6, 7, 8 etc.

5. Write a PHP user define function to validate user input date.

Enter Date

▼
 ▼
 ▼

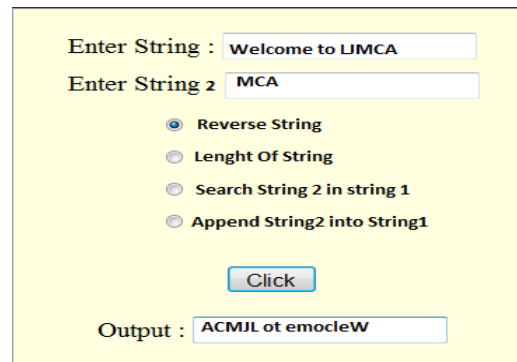
Output:

Entered date is past date from today

Desirable Assignment

1.

1. Perform following string operation according to user selection of radio button.



The screenshot shows a web form with a yellow background. It contains two input fields: 'Enter String :' with the value 'Welcome to UMCA' and 'Enter String 2' with the value 'MCA'. Below these are four radio buttons: 'Reverse String' (selected), 'Lenght Of String', 'Search String 2 in string 1', and 'Append String2 into String1'. A 'Click' button is positioned below the radio buttons. At the bottom, an 'Output :' field displays 'ACMJL ot emocleW'.

2. Write a PHP program to calculate electricity bill using user define function conditions.

Conditions:

- For first 50 units – Rs. 3.50/unit
- For next 100 units – Rs. 4.00/unit
- For next 100 units – Rs. 5.20/unit
- For units above 250 – Rs. 6.50/unit



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Day 6

Detailed Schedule

1.

Connecting to MySQL with PHP,

Upload image and store data in database

Use of MySQL statement: select, insert, update and delete queries

Create following tables in MySQL to perform exercise based on PHP with MySQL

Table Name:User_Master

Field	Datatype and Size	Constraints
User_Id	Int(11)	Auto_Increment,PK
First_Name	Varchar(30)	
Last_Name	Varchar(30)	
Email	Varchar(40)	
Pass	Varchar(255)	

Table Name:Dept_Master

Field	Datatype and Size	Constraints
Dept_No	Int(03)	PK
Dept_Name	Varchar(30)	
Location	Varchar(30)	

Table Name: Employee_Master

Field	Datatype and Size	Constraints
Emp_No	Int(11)	PK
First_Name	Varchar(30)	
Last_Name	Varchar(30)	
Email	Varchar(40)	
Registartion_Date	Date	
Profile_Pic	Varchar(255)	
Contact_No	Varchar(10)	
Salary	Float	
Dept_No	Varchar(30)	FK, References Dept_Master
Job	Varchar(30)	

Table Name: Customer_Master

Field	Datatype and Size	Constraints
Cust_No	Varchar(10)	PK
Cust_Name	Varchar(30)	
Address	Varchar(50)	
City	Varchar(30)	
Country	Varchar(30)	
Contact_No	Varchar(10)	

Table Name: Product_Master

Field	Datatype and Size	Constraints
Prod_No	Varchar(10)	PK
Cust_Name	Varchar(30)	
Description	Varchar(50)	
Price	Float	
Qty_On_Hand	Int(4)	
Product_Pic	Varchar(255)	

Table Name: Customer_Master

Field	Datatype and Size	Constraints
Cust_No	Int(11)	PK
Cust_Name	Varchar(30)	
Cust_Age	Int(11)	
Address	Varchar(50)	
Contact_No	Varchar(10)	
City	Varchar(30)	
Country	Varchar(30)	

Essential Assignment

1.





1. Write a PHP Program to perform CRUD operation on "user table".

PHP - CRUD Operation

Firstname: Lastname: + Add

Firstname	Lastname	Action
lee	ann	✎ Edit 🗑 Delete
neovic	devierte	✎ Edit 🗑 Delete
julyn	divinagracia	✎ Edit 🗑 Delete

2. Create product form and store data into product table. Use following field to store product information.(p_id, p_name, description).perform edit and delete operation on it using following format.

Sr. No	Image	Name	Description	Edit	Delete
1		scrap-metal.jpg	scrap metal	Edit	Delete
2		pressure-machine.jpg	Pressure Machine	Edit	Delete
3		pressure-gauges-19486.png	Pressure Gauges	Edit	Delete
4		heavy-duty-truck-tyres-14425.jpg	Heavy Duty Truck Tyre	Edit	Delete

3. Write a PHP Program to insert following form values into database table Customer, and take appropriate field.

CUSTOMER ENTRY FORM

Customer Name :

Address :

Contact No :

City :

Country :

Desirable Assignment

1.

1. Write a PHP Program to insert employee's information into employee table.(use following field to store employee's information)

EMPLOYEE INFORMATION

Employee ID :

Employee Name :

Date of Birth :






Address :

Contact No :

Department :

Country :

2. Write PHP program to perform CRUD operation on employee's data. use following format to display data to add new employee data use field like e_id,emp_profile,first_name,last_name,salary.department.

Image	First Name	Last Name	Action
	Maria	Smith	Show Edit Delete
	Peter	Parker	Show Edit Delete
	Dona	Huber	Show Edit Delete
	Mark	Peterson	Show Edit Delete
	Mary	Saxton	Show Edit Delete

3. Create feedback form and store information in feedback table. Use following field to store information into table.

FEEDBACK FORM

Please provide your feedback by filling the following form.

First Name

Last Name

Email Address

Subject

Feedback

Submit



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Day 7

Detailed Schedule

1.

Use relationship among with table, search queries

Upload file and store data in database

Download data form database into excel, word and PDF

Create following tables in MySQL to perform exercise based on PHP with MySQL

Table Name:Country_Master

Field	Datatype and Size	Constraints
Cou_Id	Int(11)	Auto_Increment,PK
Cou_Name	Varchar(30)	

Table Name:State_Master

Field	Datatype and Size	Constraints
State_Id	Int(11)	Auto_Increment,PK
Cou_Id	Int(11)	FK,References Countr_Master
State_Name	Varchar(30)	

Table Name:City_Master

Field	Datatype and Size	Constraints
City_Id	Int(11)	Auto_Increment,PK
State_Id	Int(11)	FK,References State_Master
City_Name	Varchar(30)	

Essential Assignment

1.

1. Create dynamic drop down for country, state and city. For that create country Master table, give relation to state master table. In city table give state table's id as foreign key.

Dynamic Dropdown Demo

- Write a PHP Program to generate Department wise employee report.(Use Following column in employee table)

DEPARTMENT WISE REPORT						
Department Name : Accounting						
eno	ename	job	hiredate	sal	comm	deptname
E03	Ward	Salesman	22-Feb-81	1250	500	Accounting
E07	Clark	Manager	08-Sep-81	3000	1000	Accounting

- Write a PHP program to import and export csv file for following field.(emp_id,First Name,Last Name,Email,Registration date)

Import And Export CSV file data

No file chosen

EMP ID	First Name	Last Name	Email	Registration Date
201	Michael	dongli	Michael@cloudways.com	8/15/2016
202	john	smith	john@cloudways.com	8/23/2016
203	lizza	weibom	lizza@cloudways.com	8/23/2016
204	sarah	wayne	sarah@cloudways.com	8/9/2016
205	jonathan	trott	jonathan@cloudways.com	8/19/2016
202	john	smith	john@cloudways.com	8/23/2016
203	lizza	weibom	lizza@cloudways.com	8/23/2016

Desirable Assignment

1.


1. Write a PHP program to generate employee report whose salary is greater than user entered salary and employee belongs to selected department (use above employee table for data e_id,emp_profile,first_name,last_name,salary.department.)

Enter Salary

5000

Choose
Department

Sales

e_id	emp_profile	first_name	last_name	salary	Department
1		Ankur	Shah	5050	Sales

2. Write PHP program which download above report in pdf format.



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Day 8

Detailed Schedule

- | | |
|----|---|
| 1. | Introduction to cookie
Setting a cookies, deleting a cookies
Session function overview
Starting a session, working with session variables, passing session IDs in a query string,
Destroy a session |
|----|---|

Essential Assignment

- | | |
|----|--|
| 1. | 1. Create a PHP script to store username and password into cookies when user click on remember me. |
|----|--|

User Login

Username:

Password:

Remember Me: ☐

- | | |
|--|--|
| | 2. Create PHP script for user login. Session is valid for 10 minutes for the logged-in user. Once, this time is elapsed then the user no longer access the authenticated pages of the application. |
|--|--|

Login Session is Expired. Please Login Again

Enter Login Details	
Username	<input style="width: 100%;" type="text"/>
Password	<input style="width: 100%;" type="password"/>
<input type="button" value="Submit"/>	

Desirable Assignment

1.

1. Create PHP script which will count number of visits of a user for the same website.

Website Visitor Counter In PHP

Visitor Counter : 6



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Day 9

Detailed Schedule

1.	Creating classes, attributed and operations in PHP Instantiating class, using class attributes, Calling class operations. Controlling access with public and private Writing accessor function
Essential Assignment	
1.	1. Write a program to create class customer which contains customer information like cust_no, cust_name, city and state as attributes. Create operation for add customer, show customer, delete customer and update customer. 2. Write a program to create class product which contains product information's like p_no, p_name, quantity and price as attributes. Create operation for add product, show product, delete product and update product.
Desirable Assignment	
1.	1. Create class for shopping cart which contain following operation and it's relevant attributes : a. Manage and display the catalog b. Add, update and delete the products c. Stores the order info d. Display the summary



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Day 10

Detailed Schedule

- | | |
|----|---|
| 1. | Including files with include(), validating files
Creating and deleting files, opening a file for writing, reading or appending mode, reading from files,
Writing or appending to a file,
Working with directories, opening pipes to and from processes using popen(), running commands with
exec() function running commands with system() or passthru() function |
|----|---|

Essential Assignment

- | | |
|----|---|
| 1. | 1. Write PHP script for basic file operation as per given format. |
|----|---|

FILE MANAGER

Add Files...

New Folder ▼

Home

☐

accreditation

☐

archive.zip

☐

basics.docx

34 KB

25/02/19

37 KB

25/02/19

Select All

Copy

Move

Delete

Sort by Name ▼

2. Write PHP Script for upload image with specific size and type.(use max file size is 1MB)

s1.jpg
Note: Please select only image file (eg: .png, .jpeg, .jpg, .gif etc)
Max File size : 1MB allowed



Desirable Assignment

1.

1. Write PHP script which create a file ,if file does not exist. Use following layout.

PHP - Simple Validate File


Note: All files are text format

Filename

john

Content

Hello World

 Save

Validate File here

File Name:

john.txt

Validate

File john.txt exist!



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Day 11

Detailed Schedule

- | | |
|----|---|
| 1. | Exploring AJAX, AJAX web application model
How AJAX works? Creating a simple AJAX application. How to use JSON file with AJAX
Exploring interactions between AJAX and PHP
Validating Fields using AJAX and PHP |
|----|---|

Essential Assignment

- | | |
|----|---|
| 1. | 1. Write PHP script for website registration form. Put validation for each field using AJAX as per given example. |
|----|---|

Fill Your Information!

Username Valid
 Password Strong
 Email Valid
 website Valid

Submit

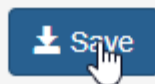
- | | |
|--|---|
| | 2. Write PHP program to insert and retrieve data from database without page refresh.(Use AJAX).(Use Customer_Master) |
|--|---|

Firstname

Lastname

Age

Address



Firstname	Lastname	Age	Address
John	Smith	25	New York

3. Write PHP code which will read data from JSON file and display data into HTML table (use AJAX) .use following field for JSON file.

Zipcode	City	County
01262	Stockbridge	Berkshire
02881	Kingston	Washington
03470	Winchester	Cheshire
14477	Kent	Orleans
28652	Minneapolis	Avery
98101	Seattle	King

1.

1. Create PHP Program for login page. After the successfully login data is display in following format in same page.(Use User_Master from Day-6)

Login Form

User Name

admin

Password

.....

Submit

You have submitted these values

Entered Name : admin

Entered Password : 121221



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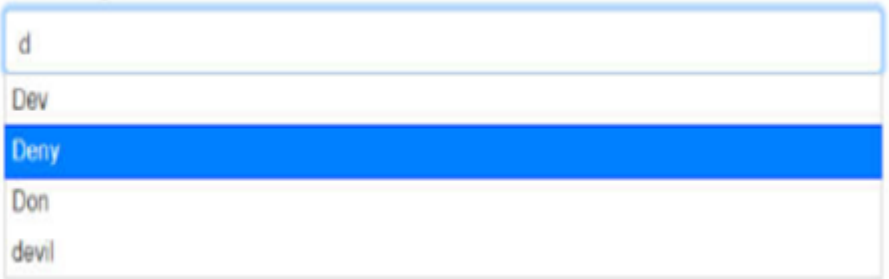
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Day 12

Detailed Schedule

- | | |
|----|---|
| 1. | Retrieving data from a database using PHP and AJAX. Exploring Fundamentals of JQUERY
Loading and using JQUERY
Describing call back functions
Exploring JQUERY selectors, methods, manipulators, events and effects,
Exploring JQuery and AJAX |
|----|---|

Essential Assignment

- | | |
|----|---|
| 1. | <p>1. Create PHP Script which display autocomplete textbox from database using jquery</p> <p>User Name</p>  |
| | <p>2. Create PHP program in which one can choosing the <i>USA</i> for the country dropdown, it shows the corresponding states. When we select a state of <i>California</i> from the options, then it populates the dependent cities. Each entity depends on its parent to display the related result from the database.</p> |

Country:

USA

State:

California

City:

✓

Select City

Los Angeles

San Francisco

San Diego


Oakland

Desirable Assignment

1.

1. Write a php program to create shopping cart module of e-commerce website.
Hint: Product details will be fetch from the database.


Products



3D Camera

\$1500.00


1



External Hard Drive

\$800.00

1



Wrist Watch

\$300.00

1

Shopping Cart

Empty Cart

Name	Code	Quantity	Price	Action
Wrist Watch	wristWear03	1	\$300.00	Remove Item
				Total: \$300



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Day 13

Detailed Schedule

1.	Understanding wordpress, installing and upgrading wordpress, sites built with wordpress, Dashboard and settings, creating a basic theme.
Essential Assignment	
1.	<ol style="list-style-type: none">1. Install wordpress in your system and setup admin panel for same.2. Setup your application using wordpress. Set theme and your store basic information.
Desirable Assignment	
1.	<ol style="list-style-type: none">1. Setup responsive theme for your project. Make logo of your website and change that logo into website.

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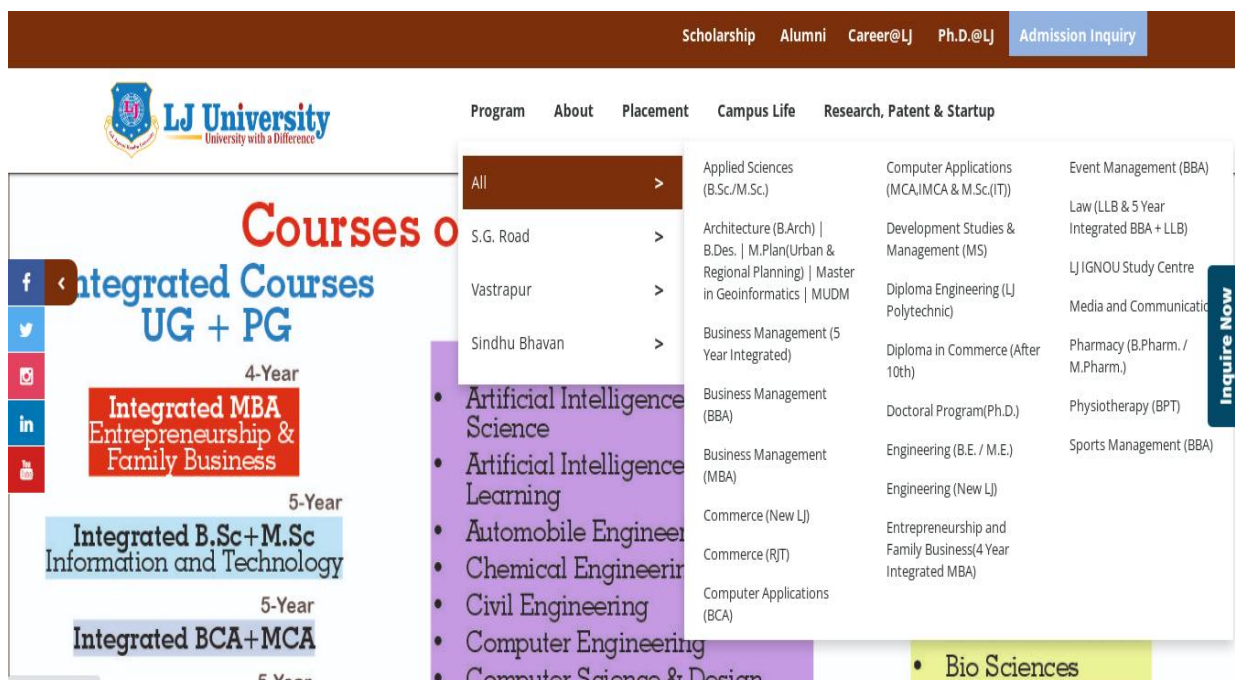
Day 14

Detailed Schedule

1. **Working with Content:** Post, Pages, Posts Vs. Pages, Media Files, Links, Feeds
Importing Content: Importing Blogs, Importing HTML Files.

Essential Assignment

1. 1. Create college website using WordPress.



The screenshot displays the LJ University website with a navigation bar at the top containing links for Scholarship, Alumni, Career@LJ, Ph.D.@LJ, and Admission Inquiry. Below the navigation bar is a horizontal menu with links for Program, About, Placement, Campus Life, and Research, Patent & Startup. The main content area features a 'Courses' section with a list of integrated courses. The list includes:

- All
- S.G. Road
- Vastrapur
- Sindhu Bhavan
- Artificial Intelligence Science
- Artificial Intelligence Learning
- Automobile Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science & Design
- Bio Sciences

Other courses listed include Applied Sciences (B.Sc./M.Sc.), Computer Applications (MCA/IMCA & M.Sc.(IT)), Event Management (BBA), Law (LLB & 5 Year Integrated BBA + LLB), LJ IGNOU Study Centre, Media and Communication, Pharmacy (B.Pharm. / M.Pharm.), Physiotherapy (BPT), Sports Management (BBA), Business Management (BBA), Business Management (MBA), Commerce (New LJ), Commerce (RJT), Computer Applications (BCA), Development Studies & Management (MS), Diploma Engineering (LJ Polytechnic), Diploma in Commerce (After 10th), Doctoral Program(Ph.D.), Engineering (B.E. / M.E.), Engineering (New LJ), Entrepreneurship and Family Business(4 Year Integrated MBA), and Integrated BBA + LLB.

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Day 15

Detailed Schedule

1.

Install woo commerce plugin and setup ecommerce site.
Crate custom plugin
Create following tables in MySQL to perform exercise based on PHP with MySQL

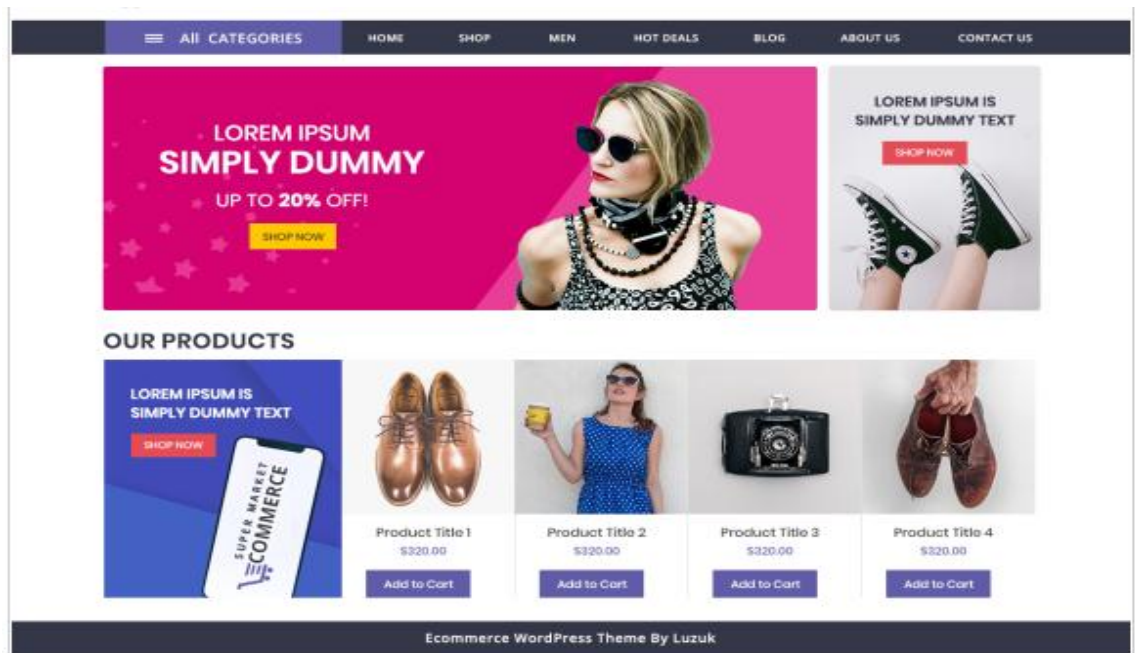
Table Name:Feedback_Master

Field	Datatype and Size	Constraints
Name	Int(11)	Auto_Increment,PK
Email	Varchar(30)	
Subject	Varchar(30)	
Message	Varchar(50)	

Essential Assignment

1.

1. Configure online store using woo commerce in WordPress using following theme.



2. Create custom plugin for feedback for your website.

	<div><div>Feedback Form</div><div><div>Name:</div><div>Enter Name</div></div><div><div>Email:</div><div>Enter email</div></div><div><div>Subject:</div><div>Enter subject</div></div><div><div>Message:</div><div>Enter message</div></div><div>Submit →</div></div>
Desirable Assignment	
1.	1. Create custom plugin for download product report into excel file format.