SRI VENKATESWARA UNIVERSITY
B.Sc. DEGREE COURSE IN COMPUTER SCIENCE
SEMESTER SYSTEM WITH CBCS
SEMESTER V
W.E.F. 2022-2023

Skill Enhancement Courses (SECs) for Semester V,

from 2022-23 (Syllabus with Learning Outcomes, References,

Co-curricular Activities)

CourseCode:
MaxMarks: 100+50

Course7A:We bApplications Development using PHP & MYSQL

(Skill Enhancement Course(Elective),Credits:05)

I. Learning Outcomes:

Students after successful completion ofthecoursewillbeableto:

1. Writesimpleprograms inPHP.
2. Understand how to use regular expressions, handle exceptions, and validate data usingPHP.
3. ApplyIn-Builtfunctions andCreate Userdefined functionsinPHPprogramming.
4. WritePHPscriptsto handleHTMLforms.
5. WriteprogramstocreatedynamicandinteractivewebbasedapplicationsusingPHPandMYSQL.
6. KnowhowtousePHPwithaMySQLdatabaseandcanwritedatabasedrivenwebpages.

II. Syllabus:*(TotalHours:90 including Teaching, Lab, and Field training, Unit tests etc.)*

Unit-1: (10hours)

The Building blocks of PHP: Variables, Data Types, Operators and Expressions, Constants.Flow Control Functions in PHP: Switching Flow, Loops, Code Blocks and Browser Output.Working with Functions: What is function?, Calling functions, Defining Functions, Returningthe values from User-Defined Functions, Variable Scope, Saving state between Function callswiththestatic statement, moreabout arguments.

Unit-2: (10hours)

Working with Arrays: What are Arrays? Creating Arrays, Some Array-Related Functions.Working with Objects: Creating Objects, Object Instance Working with Strings, Dates andTime: Formatting strings with PHP, Investigating Strings with PHP, Manipulating StringswithPHP, UsingDate and TimeFunctions in PHP.

Unit-3: (10hours)

Working with Forms: Creating Forms, Accessing Form Input with User defined Arrays,Combining HTML andPHP code on a single Page, Using Hidden Fields to save state,Redirecting the user, Sending Mail on Form Submission, and Working with File Uploads.Working with Cookies and User Sessions: Introducing Cookies, Setting a Cookie with PHP,Session Function Overview, Starting a Session, Working with session variables, passingsessionIDsintheQueryString,DestroyingSessionsandUnsettingVariabl es,UsingSessionsin an Environment with Registered Users.

Unit-4: (10hours)

Working with Files and Directories: Including Files with inclue(), Validating Files, Creatingand Deleting Files, Opening a File for Writing, Reading or Appending, Reading from Files,Writing or Appending to a File, Working with Directories,OpenPipestoandfromProcessUsingpopen(),RunningCommandswit hexec(),RunningCommandswithsystem()orpassthru().Working with Images: Understanding the Image-Creation Process, Necessary Modificationsto PHP, Drawing a New Image, Getting Fancy with Pie Charts, Modifying Existing Images,ImageCreation from UserInput.

Unit-5: (10hours)

Interacting with MySQL using PHP: MySQL Versus MySQLi Functions, Connecting toMySQL with PHP, Working with MySQL Data. Creating an OnlineAddressBook:PlanningandCreatingDatabaseTables,CreatingMenu,Cre atingRecordAdditionMechanism,ViewingRecords,CreatingtheRecordDeletion Mechanism,AddingSub-entitiestoaRecord.

III. References

1.   JulieC.Meloni,SAMSTeachyourselfPHPMySQLandApache,Pearso nEd ucation(2007).
2.   StevenHolzner,PHP: TheCompleteReference,McGraw-Hill
3. RobinNixon,LearningPHP,MySQL,JavaScript,CSS&HTML5,ThirdEditi onO'reilly,2014
4. XueBaiMichaelEkedahl,ThewebwarriorguidetoWebProgramming,Tho mson(2006).
5. Webresources:
   e.   http://www.codecademy.com/tracks/php
   f.   http://www.w3schools.com/PHP
   g.   http://www.tutorialpoint.com

6. Otherwebsourcessuggestedbytheteacherconcernedandthecollegelibra rianincludingreadingmaterial.

IV. Co-CurricularActivities:

a) **Mandatory:***(Trainingofstudents byteacherin fieldrelatedskills:(lab: 10+field: 05):*

1. **For Teacher**: Field related training of students by the teacher in laboratory/field for notless than 15 hours on demonstrating various **interactive and dynamic websites** availableonline, addressing the students on identifying the case study to build an interactive anddatabase driven website, forms to be used in website, database to be maintained, reports to beproduced,etc.

2. **For Student**: Students shall (individually) search online and visit any of the agencies likemalls, hotels, super bazaars, etc. where there is a need for an interactive and database drivenwebsiteandsubmitahand-writtenFieldwork/Projectwork/Projectwork/Projectwork/Project work Report not exceeding 10 pages. Example: Choosing a firm or business todevelop a website, identifying forms to be placed in the websites, back end databases to bemaintainedand reports to begenerated and placedin thewebsites.

3. Max marks for Fieldwork/Project work/Project work/Project work/Project work/ProjectworkReport: 05.

4. Suggested Format for Fieldwork/Project work/Project work/Project work/Project work:*Title page, student details, index page, details of place or websites visited, structure of thewebsiteand acknowledgements.*

5. Unittests(IE).

b) **Suggested Co-Curricular Activities**

1. ArrangeexpertlecturesbyITexpertsworkingprofessionallyintheareaofwebcontentdevelopment

2. Assignments(inwritingorimplementingcontentsrelatedtosyllabusoroutsidethesyllabus.Shall beindividualand challenging)

3. Seminars,Groupdiscussions,Quiz,Debates etc.(onrelatedtopics).

4. Preparationbystudentson best websites.

5. Arrangeawebpagedevelopment competitionamongsmallgroupsof students.

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V SEMESTER - W.E.F. 2022-23

COURSE7A: WEB APPLICATIONS DEVELOPMENT USINGPHP & MYSQL

MODEL QUESTION PAPER

Time: 3 hours   Marks: 75 marks

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer any five of the following questions in Part A.Part B consists of 5 Units. Answer one full question (A or B) from each unit (i.e., Q.No 9 from Unit – I, Q.No 10 from Unit – II, Q.No 11 from Unit – III, Q.No 12 from Unit – IV, Q.No 13 from Unit – V). Each question carries 10 marks.

PART – A

Answer any _Five_ of the following question.   **(5X5=25M)**

1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

PART – B

Answer All The Questions. Each question carries 10 marks (5X10= 50M)

9.	(A) OR (B)
10.	(A) OR (B)
11.	(A) OR (B)
12.	(A) OR (B)
13.	(A) OR (B)

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COURSE 7A: WEB APPLICATIONS DEVELOPMENT USING PHP & MYSQL –
PRACTICAL SYLLABUS

V. Learning Outcomes:

Onsuccessfulcompletionofthispracticalcourse, studentshallbeableto:

1. Write,debugandimplementtheProgramsbyapplyingconceptsanderrorhandlingtechniquesofPHP.

2. Createaninteractiveand dynamicwebsite.

3. Createawebsitewithreportsgeneratedfromadatabase.

4. Writeprogramstocreateaninteractivewebsitefore-commercesiteslikeonlineshopping,etc.

VI. Practical(Laboratory)Syllabus: *(30hrs.)*

1. WriteaPHPprogramto Display"Hello"

2. WriteaPHP Programtodisplaythetoday'sdate.

3. WriteaPHPprogramtodisplayFibonacciseries.

4. WriteaPHPProgramtoreadtheemployeedetails.

5. WriteaPHPprogram topreparethe studentmarks list.

6. WriteaPHPprogramtogeneratethemultiplicationoftwo matrices.

7. Createstudentregistrationformusingtextbox,checkbox,radiobutton,select,submitbutton. And displayuser inserted value innewPHP page.

8. CreateWebsiteRegistrationFormusingtextbox,checkbox,radiobutton,select,submitbutton. And displayuser inserted value innewPHP page.

9. WritePHPscriptto demonstratepassingvariables withcookies.

10. Writeaprogramto keeptrack ofhow manytimes avisitor hasloaded thepage.

11. WriteaPHP applicationto add new Rowsin aTable.

12. WriteaPHP application to modifythe Rows in aTable.

13. WriteaPHPapplication todelete theRows from aTable.

14. WriteaPHP applicationto fetch theRowsin aTable.

15. DevelopanPHPapplicationtoimplementthe followingOperations

i. RegistrationofUsers.

ii. Insertthedetails oftheUsers.

iii. Modifythe Details.

iv. TransactionMaintenance.

a) Nooftimes Logged in

b) TimeSpent oneach login.

c) Restricttheuserforthree trials only.

d) Deletethe user ifhespentmorethan 100 Hrs oftransaction.

16. WriteaPHPscripttoconnectMySQLserverfromyourwebsite.

17. Writeaprogramtoreadcustomerinformationlikecust-no,cust-name,item-purchased, and mob-no, from customer table and display all these information intableformat on output screen.

18. Write a program to edit name of customer to "Kiran" with cust-no =1, and to deleterecord with cust-no=3.

19. Write a program to read employee information like emp-no, emp-name,designationandsalaryfromEMPtableanddisplayallthisinformatio nusingtableformatinyour website.

20. Createadynamicweb siteusingPHP andMySQL.