# B.E. (computer Science and Engineering) Project Work.

# SEMESTER VII

		Teaching Scheme			Examination Scheme				
Course Code	Course				Theory	TW	POE	OE	Total
		L	P	1		25			125
CS7C01	Advanced Computer	4	-	1	100	25			
	Architecture				100	25	-		125
CS7L02	Distributed Systems	3	2					50	175
CS7L03	Advanced Database	3	2	1	100	25			
COTEOS	Systems		1000		100	25	-		125
CS7E04	Elective – I	3	-	1	100	50	50		100
CS7L05	Web Technologies - I	3	4	-	The state of		30	75	150
	A THE PERSON NAMED IN COLUMN	MARK MEREN	4	-	-	75		13	
CS7L06	Project – I	ALL AND A LICENSE	10	2	400	225	50	125	800
	Total	16	12	2	400				

# SEMESTER VIII

Course Code		Teachi	Teaching Scheme			Examination Scheme				
	Course	L	P 2	T	Theory 100	TW 25	POE	OE 50	Total	
CS8C01	Data Analytics	4						-	100	
CS8C02	Project Management	3	-	-	100	1100		200		
CS8C02	Real-time Operating System	4	14-27	1	100	25		-	125	
	Elective – II	3	-	1	100	25		-	125	
CS8E04		2	4		1	50	50	_	100	
CS8L05	Web Technologies – II	2	AND DESCRIPTION OF THE PARTY OF	Linksyn of		75	The state of	75	150	
CS8L06	Project - II	- 1	4	-	-	55 AC		13		
CS8L07		Be 1 -	2	-	-	25		-	. 25	
CBOLO	Total	16	12	2	400	225	50	125	800	

# Elective - I

- A. Soft Computing
- B. Mobile Applications
- C. Adhoc Wireless Networks

# Elective - II

- A. Internet of Things
- B. Software Testing and Quality Assurance
- C. Introduction to Mainframes

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It should consist of 15-20 experiments based on the following topics.

- 1. Create html pages for website like login, registration and about us pages.
- 2. Design created pages using CSS
- 3. Create different types of valid XML documents
- 4. Search information from XML document using SAX parser
- 5. Navigating the Document Object Model tree for given XML Document
- 6. Creating XML document using DOM
- 7. Write XSLT styles-sheet to convert XML document to HTML
- 8. XML Validation using XSchema
- 9. Remote Procedure call using XML
- 10. Installation, Configuration of Tomcat Server and Deployment of Servlet based application
- 11. Write a servlet to store form data to database use Type 4 JDBC driver
- 12. Write a servlet to search data from database
- 13. Session Management using Servlet
- 14. Write a JSP application to display database contents
- 15. Write a servlet to search data from database. Write a JSP application to input book information and store in the database. Application must provide facility to search book based on title of book, and author
- 16. Write a JSP application to input student information like first name, last name, department, date of birth, class, marks obtained in five subjects and store this information into database. Also generate report showing aggregate marks of all the students.
- 17. Write a JSP application to demonstrate Session Management using JSP (Application Controlled Authentication)

### CS7L06. PROJECT - I

Practical: 4 hrs/ week

Term work : 75 Marks
OE : 75 Marks

The project work is to be carried out in two semesters of B.E. The project should be undertaken preferably by group of 4-5 students who will jointly work and implement the project in the two semesters.

In Semester VII, The group will select a project with the approval of the Guide (teaching staff) and submit the name of the project with a synopsis of the proposed work of not more than 02 to 08 pages before second week of August in the academic year. The group is expected to complete detailed system design, analysis, data flow design, procurement of hardware and/or software, implementation of a few modules of the proposed work at the end of semester –VII as a part of the term work submission in the form of a joint report. The term work assessment will be done jointly by teachers appointed by Head of the Department.

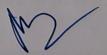
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The oral examination will be conducted by an internal and external examiner as appointed by the University.

### Note:

- 1. Project work should be continually evaluated based on the contributions of the group members, originality of the work, innovations brought in, research and developmental efforts, depth and applicability, etc.
- 2. Two mid-term evaluations should be done, which includes presentations and demos of the work done.
- 3. Care should be taken to avoid copying and outsourcing of the project work.



- 11. Program based on PHP variables, Expression, arrays, control structure
- 12. Experiment Based on OOP and Advance OOP PHP
- 13. Form validation using PHP using regular expressions
- 14. Upload various types of file from client side to server with validation
- 15. Write a program to send Mail using PHP
- 16. Insert user entered data in form to MySQL database using PHP
- 17. Update user's data stored in MySQL database using PHP
- 18. Write a program to manage session in PHP having login facility in any web application

# CS8L06. PROJECT - II

Practical: 4 hrs / week

: 75 Marks Termwork : 75 Marks OE

The group will continue to work on the project selected during the semester VII and submit the Objective: completed project work to the department at the end of semester VIII as mentioned below-

- 2. The project report in the bound journal complete in all respect with the following:
  - i) Problem specifications.
  - ii) System definition requirement analysis.
  - iii) System design dataflow diagrams, database design
  - iv) System implementation algorithm, code documentation
  - v) Test results and test report.
  - vi) In case of object oriented approach appropriate process be followed.
  - vii) Open Source tools like Latex can be used for report preparation.

Termwork: Term work will be jointly assessed by a panel of teachers appointed by Head of the Department

# External Exam:

Oral examination will be conducted by internal and external examiners as appointed by the Shivaji University.

### Note:

- 1. Project work should be continually evaluated based on the contributions of the group members, originality of the work, innovations brought in, research and developmental efforts, depth and applicability, etc.
- 2. Two mid-term evaluations should be done, which includes presentations and demos of the work done.
- 3. Care should be taken to avoid copying and outsourcing of the project work

# CS8L07. COMMUNITY SERVICES

Practical: 2 hrs / week Termwork: 25 Marks

### Objectives:

- 1. To create an awareness among the common man of Western Maharashtra region and area coming under jurisdiction of the Shivaji University regarding the e-services provided by various public sector organization
- 2. To promote the use of technological services in day-to-day activities.
- 3. To understand the problems of the locality.
- 4. To make the student aware of the various engineering tools and techniques used in eservices.
- 5. Creating awareness of RTI (Right To Information) among general public for procuring public documents and it's appropriate use.

### Details

The students project group is expected to do the following:

- 1. With the prior written permission from the Head of the Institute the project group should visit any Public Sector / Government/ Semi government organization like Zilha Parishad, Collector Office, Municipal Corporation, Tahasildar Office, RTO, MSEB, Court, Railway station, Tourism Services, agricultural service sector, Banks where the facilities of egovernance and e-services available for public purposes.
- 2. The project group should understand the public related services and identify the required services for the common man.
- 3. Two/Three groups should plan awareness programs/camps to be carried out in the nearby villages / Taluka places / residential colonies / localities and visit the suitable areas along with the staff to create awareness among the common man about various eservices available in public domain.
- 4. They should prepare a presentation simulating the services that are being exposed to common man and give a demonstration during their visit to the concerned area.
- 5. Further group should take the feedback from the concerned locality on a pre-designed format that may be provided by the Head of the Institute.
- 6. Group should prepare a report detailing:
  - a. The kind of services chosen.
  - b. The office / organization visited mentioning the authorities meet.
  - c. The facilities provided by the chosen service.

