



Faculty of: **Computer Science**
 Course: **Bachelor of Computer Applications**
 Semester: **IV**
 Subject Code: **4CS04ACI1 (Elective – I)**
 Subject Name: **Web Framework CodeIgniter**

Sr. No	Branch Code	Subject Code	Subject Name	Teaching hours/ Week			Credit hours	Credit Points	Evaluation Scheme/ Semester								
				Th	Tu	Pr			Theory				Practical				Total
									Internal Assessment		End Semester Exams		Internal Assessment		End Semester Exams		
									Marks	Duration	Marks	Duration	Marks	Duration	Marks	Duration	
3	2	4CS04ACI1	Web Framework CodeIgniter	4	-	2	6	5	15(SE)	1Hr.	70	2½ Hrs.	25 (IP)	1Hr.	--	--	150
									15(CE)				25 (CE)				

AIM:

At the end of this course, Student can develop a dynamic web site. Students can have basic knowledge of PHP.

COURSE CONTENTS

Unit I CodeIgniter Framework (MVC) 10 Hrs.

- Introduction to CodeIgniter Framework (MVC)
- CodeIgniter at a Glance
- Supported Features of CodeIgniter framework
- Application Flow Chart of CodeIgniter framework
- Model-View-Controller of CodeIgniter framework
- Architectural Goals

Unit II Creating CodeIgniter Application 12 Hrs.

- Using CodeIgniter Libraries
- Loader Class, Controllers, Models, Views
- Creating Static Pages
- Creating Controller file, Model file & View file
- Autoload Configuration
- Input Class, Form Validation Class, File Uploading Class,
- Session Class, Page Redirection

Unit III Helper Functions 10 Hrs

- Helper, Loading a Helper
- Cookie Helper, Date Helper
- Download Helper, File Helper
- URL Helper, Captcha Helper
- Form Helper

Unit IV Database Class

16 Hrs.

- Database Configuration
- Connecting to a Database
- Running Queries
- Generating Query Results
- Active Record Class
- Inserting data
- Selecting data
- Updating data
- Deleting data

REFERENCE BOOKS:

1. Programming with CodeIgniter MVC, Author: Eli Orr Yehuda Zadik, Published by Packt Publishing Ltd, ISBN 978-1-84969-470-4
2. CodeIgniter for Rapid PHP Application Development, Author: David Upton, Published by Packt Publishing Ltd, ISBN 978-1-847191-74-8
3. Codeigniter 2 Cookbook, Author: Rob Foster, Published by Packt Publishing Ltd., ISBN 978-1782162308

Web Resources:

- (1) CodeIgniter Web Framework: <https://codeigniter.com/>
- (2) CodeIgniter User Guide: <http://codeigniter.com/userguide3/>