



## Sub Committee - Specialization for Curriculum Development

### Under Graduate

**Course Title:** Design of Content Management System

**Course Code:**

**Number of Credits:** 4

**Level:** 3

**Learning Objective/Outcome (s):** The course is focused on teaching how to design a Content Management System by using APIs and plugins. On completion of this course student will be able to:  
design a content management system  
use APIs to develop plugins for a content management system  
conduct usability tests

#### **Pedagogy:**

Classroom Sessions  
Hands-on Practical Sessions  
Project based learning

**Pre-learning:** PHP

#### **Course Outline:**

| Sr. No. | Topic                                                                                                              | Hours. |
|---------|--------------------------------------------------------------------------------------------------------------------|--------|
| 1       | Content Management Systems<br>Terminology<br>Flow of data<br>Architecture                                          | 4      |
| 2       | Theming and Modules<br>Directory structure<br>Concept of Core API<br>Concept of Plugins<br>Advanced theme settings | 7      |
| 3       | Security<br>Best practices<br>Security of PHP files<br>Secure configuration for site builders                      | 3      |
| 4       | Configuration management<br>Module configuration<br>Theme configuration                                            | 2      |

|   |                                                                                                                     |    |
|---|---------------------------------------------------------------------------------------------------------------------|----|
| 5 | Documentation<br>Help text standards<br>Module documentation guidelines<br>Project page template<br>README template | 2  |
| 6 | Usability testing<br>How to conduct usability tests<br>Recording a usability test                                   | 2  |
| 7 | Case study/Project and Documentation                                                                                | 40 |
|   | <b>Total</b>                                                                                                        | 60 |

**Books Recommended:**

1. Drupal documentation on Drupal.org
2. Moodle documentation on Moodle.org

**Suggested Assessment/ Evaluation Methods:**

Assignments  
Project  
Online Test

**Benchmarked against similar courses in other national/ international universities /organizations**

| S. No. | Name of the Course      | Name of University where it is offered |
|--------|-------------------------|----------------------------------------|
|        | Web development and CMS | Victoria University, Australia         |
|        |                         |                                        |
|        |                         |                                        |
|        |                         |                                        |

|                 |  |  |  |  |  |
|-----------------|--|--|--|--|--|
| Name of Members |  |  |  |  |  |
| Designation     |  |  |  |  |  |
| Org. / Inst.    |  |  |  |  |  |
| Signature       |  |  |  |  |  |

|                 |  |  |  |  |  |
|-----------------|--|--|--|--|--|
| Name of Experts |  |  |  |  |  |
| Designation     |  |  |  |  |  |
| Org. / Inst.    |  |  |  |  |  |
| Signature       |  |  |  |  |  |

Signature of Dean:

Date: