NIRMA UNIVERSITY
Institute of Technology
B. Tech. Computer Science and Engineering
Open Elective (open to all branches except Dept. of CSE)

L	T	P	C
2	0	2	3

Course Code	2CSOE77
Course Title	Web Technology

Course Outcomes:

After successful completion of this course, student will be able to:

1. understand the architecture of the internet and web technology
2. design an efficient web application
3. use programming language to develop a web application.

Syllabus:	Teaching Hours

Unit I   02
Introduction to internet protocols and web servers: Internet Protocol Model overview, Internet Protocol, Web servers, IIS Configurations and settings, Apache Configuration

Unit II   08
HTML: HTML Documents, HTML Structure tags, HTML Block level tags, HTML Text level tags, Different types of Lists, Nesting of lists, Linking HTML Documents, Frames, tables and forms

Unit III   08
Cascaded Style Sheets: Different approaches to style sheets, using multiple approaches, linking to style information in separate file, setting up style information using inline, internal and external style sheet

Unit IV   08
JavaScript: JavaScript syntax, variables and their types, JavaScript operators, arrays and array methods, control statements, built-in objects in JavaScript, Array, String, validation using JavaScript

Unit V   04
Introduction to JSON: Use of JSON data structures, JSON object,
Collection of name-value pairs, ordered list of values

Self-Study:
The self-study contents will be declared at the commencement of semester. Around 10%
of the questions will be asked from self-study contents.

Laboratory Work:
Laboratory work will be based on applications of the above syllabus with minimum 10
experiments to be incorporated.

Suggested Readings^:
1. Deitel Nieto, Internet and World Wide Web: How To Program, Pearson
2. Scott Parker, The Web Designer's 101 Most Important Decisions Professional
   Secrets for a Winning Website, Adams Media
3. Kogent Learning Solutions Inc., Html5 Black Book: Covers CSS3, Javascript,
   XML, XHTML, Ajax, Php and Jquery, Dreamtech Press
4. Jon Duckett, Beginning Web Programming with Html, XHTML and CSS, Wiley
   India Pvt Ltd.

L=Lecture, T=Tutorial, P=Practical, C=Credit

^this is not an exhaustive list