

SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar
B. B. A. Information Technology Management Program
Semester – IV
UM04CBB123 Front End Programming
(w.e.f. November 2019)

Total Credits: 3
Total Marks: 100

PRACTICALS: 6 Hrs per week

Unit - 1 Introduction to Scripting 25%
Introduction to Scripting – Client Side Scripting vs. Server Side Scripting –How the Web works - Introduction to JavaScript – Applications and advantages of JavaScript - Using JavaScript on a webpage

Unit - 2 Basics of Javascript – I 25%
JavaScript basics – Syntax, Data Types, Variables, Literals, Type Casting, Operators, User interaction through dialog boxes, Built-in functions

Unit - 3 Basics of Javascript – II 25%
Flow Control statements: Decision-Making and Looping – Arrays - User-defined functions

Unit - 4 Advanced Javascript 25%
Introduction to DOM - DOM hierarchy - HTML Form Hierarchy – Accessing Form elements (Text, Radio, Checkbox, Dropdown, Button) - String Object (length, charAt, indexOf, substr, toLowerCase, toUpperCase), Math Object (PI, abs, ceil, floor, max, min, round), Date Object (getDate, getDay, getFullYear, getMonth, getTime, getHours, getMinutes, getSeconds, setDate, setFullYear, setMonth, setTime, setHours, setMinutes, setSeconds),

Evaluation: Internal 40 Marks – Average of (Theory 40 Marks + Practical 40 Marks)
External 60 Marks – Average of (Theory 60 Marks + Practical 60 Marks)
(Two – Hours Examination)

References Books:

1. **Ivan Bayross**, “Web Enabled Commercial Applications Development using HTML, DHTML, Javascript, Perl CGI”, BPB, 2004.
2. **Douglas E Comer**: The Internet, PHI, Second Edition, May 2000.
3. **Wilton P., Jeremy McPeak**: Beginning JavaScript, 4th Ed., Wiley Pub.
4. **Danny Goodman, Machael Morrison**: “JavaScript Bible”, 6th Ed., Wiley Pub.