



No.CSE/RGU/OpenElec./2021

Dated: 18/08/2021

## Notification

This is to notify that the Department of Computer Science and Engineering is offering an Open Elective Course on **INTRODUCTION TO WEB DESIGN (MCAO-06140)** under CBCS (choice based credit system) for the session 2021-22).

Therefore, interested 3<sup>rd</sup> semester students of Rajiv Gandhi University, irrespective of disciplines / departments may apply through Google link (<https://docs.google.com/forms/d/e/1FAIpQLScqzYUWg7O9KEkxfM7viReosFVaF1ArYaj9x37QLT8Mcfm98w/viewform>) latest by **27<sup>th</sup> August, 2021 (Friday)**.

Classes will commence from **1st September, 2021**.

WB  
19/8/2021  
प्रमुख  
कंप्यूटर विज्ञान एवं अभियांत्रिकी  
Head of Dept.  
Computer Science & Engineering

(Prof. Utpal Bhattacharjee)  
Head, CSE

Copy to:

1. Joint Registrar (Aca./Conf.) RGU, for kind information please.
2. The Joint Director, Computer Centre for information and necessary action please. He is requested to upload the circular in the university website.
3. Office copy.

(Prof. Utpal Bhattacharjee)  
Head, CSE

**MCAO-06140**  
**Introduction to Web Design**

**Unit-I (Internet Basics)**

Network Connectivity Types, dial up- PPP, SLIP; leased, VSAT, ISP, HTTP, TCP/IP, IP Address, Domain Names, DNS, Services-email, WWW, Search Engine. Concept of Client-Server Computing Paradigm, Thin Client vs. Flat Client, Middle ware, Client Pull, Server Push, Hypermedia Information, Concept of Threading/Multithreading Web Client Browser and its Architecture, Basic features & Functions, Client-side Inclusive-Scripts, VB Scripts, Java Scripts, ActiveX, ASP, Plugins, Case Study -Netscape Communicator, IE

**Unit-II (Servers)**

File Server and Mail Server: FTP, Telnet, SMTP, MIME etc. Web Server: Stateful vs. Stateless Servers, Web Server Architecture, Basic features & Functions, URL, Server side inclusive – CGI, API, PERL, Web database Connectivity-JDBC, ODBC, Case Study-IIS, Apache, Tomcat.

**Unit-III (Application Design)**

HTML, DHTML with DTD concept <head>&<body> section, able, form, Frame, hyperlinks, CSS: CSS Syntax, CSS Selectors(ID, Class, Tags, Attributes), CSS Styling, CSS Styling Backgrounds, CSS Transitions, 2D, 3D Transforms, CSS Box Modeling, Fonts, colors, and decorations with CSS, ASP.Net Basics, Web Page Design using HTML authoring tools - FrontPage/ Dream weaver.

**Unit-IV (Security)**

Firewalls, Tunnels, SSI, X-HTTP, IPV & IPV6 security, Digital Signature, Web Security Objects, Methods.

**Unit-V (Web Object Models)**

CORBA, COM, DCOM, IOP, Coexistence with VRML & XML, CSS Object Model (CSSOM)

**Recommended Books**

1. Steven Holzner, *HTML Black Book*, Dremtech press.
2. Jeffrey C. Jackson, *Web Technologies: A Computer Science Perspective*, Prentice Hall, 2006.
3. Craif Knuckles, David Yuen, *Web Applications: Concepts and Real-World Design*, Wiley India Pvt Ltd, 2006.

