



Six Weeks Workshop
On
Web Development
(PHP-MYSQL-HTML-CSS-JavaScript-BOOTSTRAP-DRUPAL)
(8th June, 2018 to 19th July, 2018)

For 2nd to 4th Year B.E./B.Tech. Students

Computer Centre
Punjab Engineering College (Deemed to be University)
Chandigarh

Registration Fee: Rs. 5000/-

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Punjab Engineering College

Punjab Engineering College (Deemed to be University) (PEC) having its roots in Lahore as Mugalpura Engineering College since 1921, moved to its present campus in 1953 as PEC affiliated to Panjab University. The institute became Deemed University in 2003. It is a Grant-in-Aid institution under administration of Union Territory of Chandigarh, Government of India. The institute has 149 acres sprawling and pious campus and is house of Chandigarh College of Architecture also. The academic and administrative processes are similar to IITs in the country. The institute governance is through a vibrant Board of Governors, chaired by a renowned industrialist, Sh. Rajinder Gupta, Chairman, Trident Group. The institute offers 8 Undergraduate B. Tech. Programmes and 14 Post graduate M. Tech. Programmes in various disciplines of engineering and technology. After becoming University, the institute has also started PhD programme in various disciplines of engineering, science, management, humanities and social sciences. The admission to UG and PG programmes are made centrally through JoSAA/CSAB CCMT based on JEE (Mains) and GATE ranks respectively. There are 9 academic departments, 2 research centres, 2 academic centres and a number of industry sponsored labs. The faculty of academic departments and centers is involved in cutting edge research and development works. The institute collaborates very closely with research organisations, industries, alumni and other academic institutions both India and abroad, and has signed MoUs to pursue joint research in niche areas. The students graduating from this institute are placed in highly reputed companies with handsome salary packages. With a history of about 95 years now, the institute has produced a number of alumni who have earned name and fame both for themselves and the institute.

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Computer Centre

Computer Centre is the central place for campus-wide networking and Internet connectivity. Backbone connectivity initiates from this Centre and caters to more than 2000 nodes across the campus. The Centre is equipped with Web Server, Academia Server, E- Mail Server, Security Wall, Bandwidth Management and Data Servers. The Computer centre has network infrastructure consisting of routers, firewall, Unified Threat Management (UTM), manageable layer 2, layer 3 switches. It also houses cluster of Windows and Linux based servers for mailing and web application hosting.

A 100 Terminal Cluster Lab is available for students for their project work, programming assignments, M.Tech&Ph.D thesis work and conducting online placement test. Internet access for all students is available with 100 Mbps to 1Gbps speed.

The campus is now equipped with latest Controller Based Wireless Network with more than 200 wireless access points across the academic area and hostels for smooth internet access. The wireless network allows users to access network resources from nearest any convenient location within the campus.

A Data Centre has been established for Central Research Lab under Technical Education Quality Improvement Programme Phase II (TEQIP II) in Computer Centre. The aim of establishing Data Centre:

- Setup virtual lab of software's that require substantial amounts of memory and computing power. A virtual lab will give students access to software and computing power from any place with internet access.
- Virtualization of servers.

The Computer Centre provides various services to the institute including Web Application Development for various applications of the institute, Internet Access, Campus Networking, AMC of Computers Peripherals, Online Examinations for Companies during Training & Placement Sessions, framing technical specification for Server/Desktop/Laptop, providing technical support, assistance and guidance for purchase of IT Products. Other Services include active contribution towards the Admission Process of the Institute and continuously updating NBA, AICTE, AISHE, NIRF Portals.

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Overview

Web development is a broad term for the work involved in developing a web site for the Internet (World Wide Web) or an intranet (a private network). Web development can range from developing the simplest static single page of plain text to the most complex web-based internet applications (or just 'web apps') electronic businesses, and social network services. A more comprehensive list of tasks to which web development commonly refers, may include web engineering, web design, web content development, client liaison, client-side/server-side scripting, web server and network security configuration, and e-commerce development.

Most recently Web development has come to mean the creation of content management systems or CMS. These CMS can be made from scratch, proprietary or open source. In broad terms the CMS acts as middleware between the database and the user through the browser. A principle benefit of a CMS is that it allows non-technical people to make changes to their web site without having technical knowledge.

Web development may be a collaborative effort between departments rather than the domain of a designated department. There are three kinds of web developer specialization: front-end developer, back-end developer, and full-stack developer. Front-end developers deal with the layout and visuals of a website, while back-end developers deal with the functionality of a website. Back-end developers will program in the functions of a website that will collect data.

In this workshop we will learn the planning and creation of websites. This includes the information architecture, user interface, site structure, navigation, layout, colors, fonts, and imagery. The duration of this workshop will be six weeks properly divided into theory and hand on practical sessions.

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Schedule

Week 1

Day	Date	Topic
1	08.06.2018	Registration & Introduction to HTML
2	11.06.2018	HTML Introduction HTML Editors HTML Basic HTML Elements HTML Attributes HTML Headings HTML Paragraphs HTML Styles HTML Formatting HTML Quotations HTML Comments HTML Colors
3	12.06.2018	HTML CSS HTML Links HTML Images HTML Tables HTML Lists HTML Blocks
4	13.06.2018	HTML Classes HTML Id HTML Iframes
5	14.06.2018	HTML JavaScript HTML File Paths HTML Head HTML Layout HTML Responsive

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Week 2

Day	Date	Topic
1	15.06.2018	HTML Forms HTML Forms HTML Form Elements HTML Input Types HTML Input Attributes
2	18.06.2018	CSS Introduction CSS Syntax CSS How To CSS Colors CSS Backgrounds CSS Borders CSS Margins CSS Padding CSS Height/Width CSS Box Model CSS Outline CSS Text CSS Fonts CSS Icons CSS Links CSS Lists
3	19.06.2018	CSS Tables CSS Display CSS Max-width CSS Position CSS Overflow CSS Float CSS Inline-block CSS Align CSS Combinators CSS Pseudo-class CSS Pseudo-element CSS Opacity CSS Navigation Bar CSS Dropdowns CSS Image Gallery CSS Image Sprites

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		CSS Attr Selectors CSS Forms CSS Counters CSS Website Layout CSS Units CSS Specificity
4	20.06.2018	CSS Advanced CSS Rounded Corners CSS Border Images CSS Backgrounds CSS Colors CSS Gradients CSS Shadows CSS Text Effects CSS Web Fonts CSS 2D Transforms CSS 3D Transforms CSS Transitions CSS Animations CSS Tooltips CSS Style Images CSS object-fit CSS Buttons CSS Pagination CSS Multiple Columns CSS User Interface CSS Variables CSS Box Sizing CSS Flexbox CSS Media Queries
5	21.06.2018	Bootstrap Introduction BS Get Started BS Grid Basic BS Typography BS Tables BS Images BS Jumbotron BS Wells BS Alerts

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		BS Buttons BS Button Groups BS Glyphicons BS Badges/Labels BS Progress Bars BS Pagination BS Pager BS List Groups
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Week 3

Day	Date	Topic
1	22.06.2018	BS Panels BS Dropdowns BS Collapse BS Tabs/Pills BS Navbar BS Forms BS Inputs BS Inputs 2 BS Input Sizing BS Media Objects BS Carousel BS Modal BS Tooltip BS Popover BS Scrollspy BS Affix BS Filters
2	25.06.2018	Bootstrap Grids BS Grid System BS Stacked/Horizontal BS Grid Small BS Grid Medium BS Grid Large
3	26.06.2018	JS Introduction JS Where To JS Output JS Statements

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		JS Syntax JS Comments JS Variables JS Operators JS Arithmetic JS Assignment JS Data Types JS Functions JS Objects JS Scope JS Events JS Strings JS String Methods JS Numbers JS Number Methods
4	27.06.2018	JS Arrays JS Array Methods JS Array Sort JS Dates JS Date Formats JS Date Get Methods JS Date Set Methods JS Math JS Random JS Booleans JS Comparisons JS Conditions JS Switch JS Loop For JS Loop While JS Break
5	28.06.2018	JS HTML DOM DOM Intro DOM Methods DOM Document DOM Elements DOM HTML DOM CSS DOM Animations

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		DOM Events DOM Event Listener DOM Navigation DOM Nodes DOM Collections DOM Node Lists
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Week 4

Day	Date	Topic
1	29.06.2018	PHP Introduction PHP Install PHP Syntax PHP Variables PHP Echo / Print PHP Data Types PHP Strings PHP Constants PHP Operators
2	02.07.2018	PHP If...Else...Elseif PHP Switch PHP While Loops PHP For Loops PHP Functions PHP Arrays PHP Sorting Arrays PHP Superglobals
3	03.07.2018	PHP Forms PHP Form Handling PHP Form Validation PHP Form Required PHP Form URL/E-mail PHP Form Complete
4	04.06.2018	PHP Advanced PHP Arrays Multi PHP Date and Time PHP Include PHP File Handling PHP File Open/Read

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		PHP File Create/Write PHP File Upload PHP Cookies PHP Sessions PHP Filters PHP Filters Advanced PHP Error Handling PHP Exception
5	05.06.2018	MySQL Database MySQL Connect MySQL Create DB MySQL Create Table MySQL Insert Data MySQL Get Last ID MySQL Insert Multiple MySQL Prepared MySQL Select Data MySQL Delete Data MySQL Update Data MySQL Limit Data

Week 5

Day	Date	Topic
1	06.07.2018	Drupal - Overview Drupal - Installation Drupal - Architecture Drupal - Main Menu Drupal - Blocks & Regions Drupal - Themes & Layouts Drupal - Front Page Drupal - Static Pages
2	09.07.2018	Drupal - Create Blog Drupal - Create Articles Drupal - Create Pages Drupal - Create Content Drupal - Modify Content Drupal - Delete Content Drupal - Publish Content

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3	10.07.2018	Drupal - Menu Management Drupal - Taxonomies Drupal - Comments Drupal - User Management Drupal - Optimization Drupal - Site Backup Drupal - Site Upgrade Drupal - Announcements
4	11.07.2018	Drupal Advanced Drupal - URL Alias Drupal - Site Search Drupal - Error Handling Drupal - Multilingual Content Drupal - Triggers & Actions Drupal - Social Networking Drupal - Internationalization Drupal - Extensions
5	12.08.2018	Drupal - Default Modules Drupal - Pane Module Drupal - Book Module Drupal - Aggregator Module Drupal - Contact Module Drupal - Form Module Drupal - Poll Module Drupal - Site Security

Week 6

Day	Date	Topic
1	13.07.2018	Project
2	16.07.2018	
3	17.07.2018	
4	18.07.2018	
5	19.07.2018	Valedictory Function

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