



Under the aegis of Vijayam Educational Trust

CATALYST COLLEGE

(A Unit of CIMAGE Group of Institutions)

Institution approved by Education Department, Government of Bihar, Affiliated to Patliputra University, Patna



Ref: CC/WRSP-NOT/23/41/46.

Date: 04-Oct-2023

NOTICE

This is to inform all the Students that a workshop on Building Dynamic Websites with Drupal: A Hands-On Workshop will be organized on 20.10.2023 from 9:30 AM to 5:30 PM in the auditorium of Catalyst College.

The workshop is completely free, and no money will be charged for the Training or Certification.

Interested students are instructed to meet the Activity In-Charge / Class Coordinator for more details and their registration.

By the order of

Principal

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Principal
CATALYST COLLEGE
Plot No. C-16(P) Patliputra Industrial Area
Patliputra, Patna-13

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Date: 20.10.2023

Workshop Title:

Building Dynamic Websites with Drupal: A Hands-On Workshop

Number of Students Participated: 53

Overview:

This hands-on workshop will focus on helping participants build dynamic, interactive, and scalable websites using Drupal—one of the most powerful content management systems (CMS) available today. Drupal's flexibility, extensibility, and community-driven development make it an ideal choice for building complex websites ranging from blogs to enterprise portals.

Participants will learn the essential tools and techniques for building dynamic websites, managing content effectively, and customizing the platform to meet specific business or project needs. The workshop will include real-world examples, guided exercises, and practical sessions to ensure participants gain the skills needed to create a dynamic, fully

Model 1: Introduction to Drupal and Building Your First Site

Session 1: Introduction to Drupal

- Overview of Drupal's core features and why it is a top choice for dynamic websites.
- Drupal Architecture: Understanding the modular structure and how Drupal works behind the scenes.]
- Installing Drupal: A step-by-step guide to installing Drupal on a local development environment (using tools like XAMPP, MAMP, or Drupal's Acquia Dev Desktop).

Session 2: Creating a Basic Website with Drupal

- Drupal Interface Overview: Introduction to the Admin Interface—understanding the Dashboard, Content Overview, and Configuration settings.
- Creating Your First Content Type: How to create custom content types (e.g., Articles, Blog Posts, Events).
- Managing Content: Creating and managing different content items, including editing, publishing, and deleting content.

Session 3: Setting Up Basic Site Structure

- Menus and Navigation: Creating and managing menus to organize your site structure.
 - Blocks and Regions: Using blocks to display content and manage site regions.
 - Basic Theming: Understanding Drupal's default themes and how to configure basic site styles.
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Model 2: Creating Dynamic Content and Advanced Site Features

Session 1: Content Organization and Taxonomy

- Content Taxonomy: Using tags, categories, and vocabulary to classify content efficiently.
- Custom Fields and Content Types: Adding custom fields to content types to store specific data (e.g., dates, images, addresses).
- Managing Content with Views: Introduction to the Views module to display content in dynamic lists and grids.

Session 2: Enhancing the User Experience

- Creating Interactive Forms: Using the Webform module to create forms for user interaction, such as contact forms, surveys, or polls.
- User Roles and Permissions: Setting up user roles (e.g., Admin, Editor, Visitor) and controlling access to different parts of the website.
- Interactive Navigation: Building a search system using Drupal's core search and filtering options.

Session 3: Theming Your Drupal Website

- Understanding Drupal Themes: Overview of Drupal's theme layer and how it separates content from design.
 - Basic Theme Customization: Tweaking the default theme or creating a child theme for customizations.
 - Layout Builder: Using Drupal's Layout Builder to create flexible and custom page layouts without coding.
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Model 3: Advanced Modules and Customization

Session 1: Working with Modules for Enhanced Functionality

- Essential Modules: Installing and configuring essential modules like:
 - Views (for dynamic content display)
 - Pathauto (for automatic URL aliases)



- Admin Toolbar (for a more user-friendly admin interface)
 - Metatag (for SEO optimization)
- Custom Modules: Introduction to building simple custom modules to extend Drupal's functionality.

Session 2: Creating a Multi-Page Website

- Building Complex Pages: Using Drupal to create multi-page websites with various types of content (static pages, blogs, product listings, etc.).
- Integrating Media: Adding images, videos, and documents using the Media module.
- Creating Relationships Between Content: Using the Entity Reference module to create relationships between different content types (e.g., connecting authors to blog posts).

Session 3: Building Interactive Features

- Customizable Dashboards: Creating personalized dashboards for users with dynamic content blocks.
- Commenting and User Engagement: Enabling and customizing the comment system to allow user interaction on posts.
- Interactive Widgets: Building custom widgets (e.g., event calendars, product sliders) using Drupal's API.

Model 4: Deployment, Security, and Maintenance

Session 1: Drupal Deployment Best Practices

- Moving from Development to Production: Best practices for migrating a Drupal site from local development to a live server.
- Site Configuration: Configuring Drupal's settings.php file for optimal performance in production.
- Database Management: Understanding how to back up and manage Drupal's database during deployment.

Session 2: Security and Performance Optimization

- Security Best Practices: Securing your Drupal site by updating core and contributed modules, securing user roles, and configuring SSL.
- Performance Optimization: Techniques for speeding up your Drupal site, including caching, image optimization, and enabling CSS/JS aggregation.
- Monitoring and Logging: Using Drupal's built-in logging and analytics tools to monitor the site's health.



Session 3: Ongoing Maintenance and Updates

- Updating Core and Modules: Best practices for keeping Drupal and modules up to date to avoid security vulnerabilities.
 - Site Backups: Setting up automated backup solutions for content and databases.
 - Managing Content Workflow: Automating content approval and publishing processes using workflow modules.
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Model 5: Final Project and Workshop Wrap-Up

Session 1: Building Your Final Dynamic Website

- Hands-On Project: Participants will work in teams or individually to build a dynamic website using everything they've learned. This could include:
 - A blog with custom posts
 - A product catalog with categories and tags
 - A portfolio or personal website with dynamic content and interactive features
- Personalized Support: Facilitators will assist with any challenges participants face during the project.

Session 2: Q&A and Troubleshooting

- Addressing Challenges: Open Q&A session where participants can ask questions or discuss issues they've encountered.
- Best Practices Discussion: Tips for managing Drupal websites post-launch and optimizing workflows.

Session 3: Workshop Wrap-Up and Certification

- Review of Key Concepts: Summarizing the key takeaways and practical skills participants have gained.
 - Certification of Completion: Participants receive a Certificate of Completion recognizing their ability to build dynamic websites using Drupal.
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Key Takeaways:

- A comprehensive understanding of how to create dynamic, interactive websites with Drupal.
- Hands-on experience building and managing content, creating custom layouts, and implementing user engagement features.

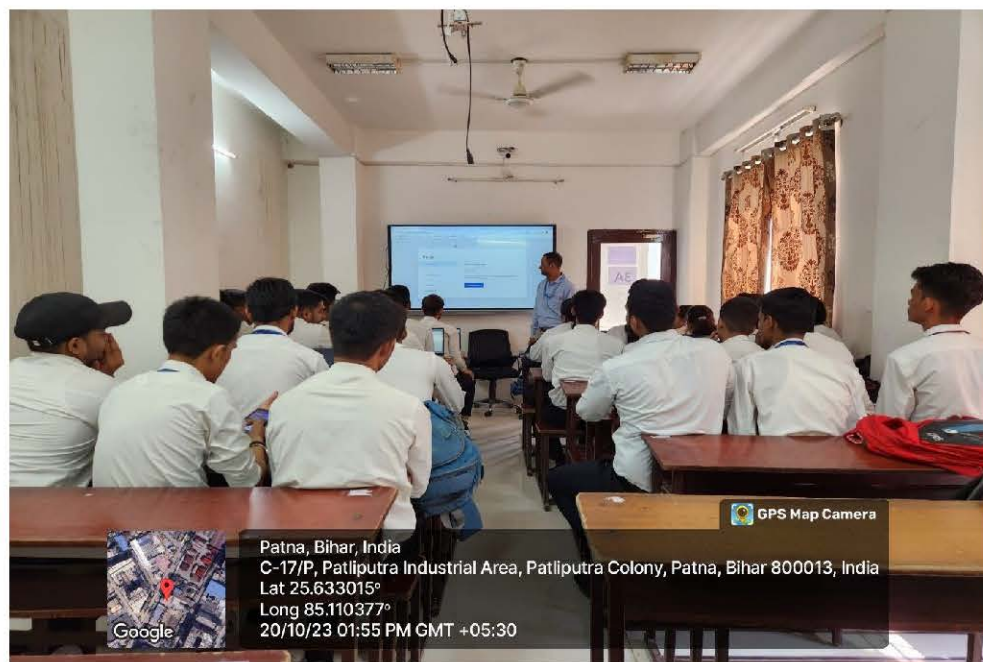
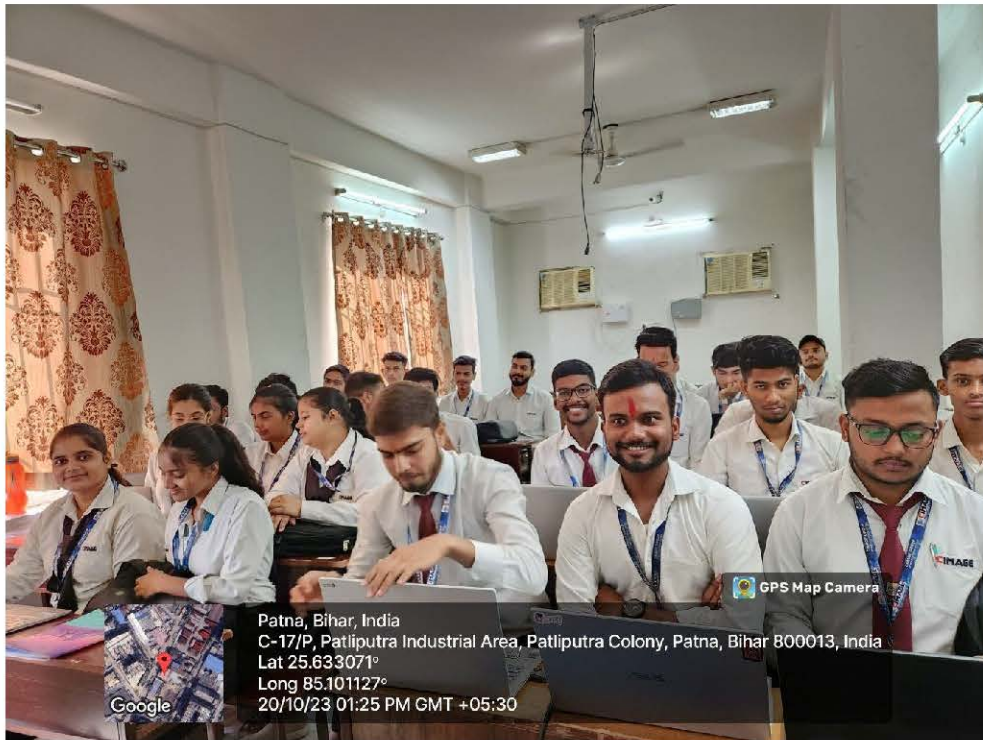
- Knowledge of best practices for deploying, securing, and maintaining Drupal websites.
- Confidence in using Drupal's powerful tools to build and scale websites tailored to business needs.



Building Dynamic Websites with Drupal: A Hands-On Workshop

Date:-20/10/2023





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Registration

For Workshops/Seminars/Conferences during Academic Year 2022-2023

Building Dynamic Websites with Drupal: A Hands-On Workshop

(20 October 2023)

S. No.	ID	Name of the student	Student's Signature
1	445-8721	Jay Shankar Prasad	J. S. Prasad
2	445-8773	Sonu Kumar	Sonu kumar
3	445-8836	Anil Tudu	Anilkumar
4	445-8718	Alok Kumar	Alok Kumar
5	445-8662	Mukul Kumar	Mukul Kumar
6	445-8673	Rajat Ranjan	Rajat
7	445-8667	Amit Kumar	Amit K.
8	445-8771	Rahul Kanaujiya	Rahul
9	445-8664	Suman Saurabh	suman saurabh
10	445-8729	Ful Kumar	Ful Kumar.
11	445-8783	Md. Irshad	Irshad
12	445-8716	Saurav Kumar	Saurav
13	445-8703	Ashish Kumar Singh	Ashish Kumar Singh
14	445-8699	Anjali Kumari	Anjali
15	445-8976	Anjali Kumari	Anjali
16	445-8808	Bittu Kumar	Bittu K.
17	445-8701	Abhijeet Kumar	Abhijeet k.
18	445-8675	Manish Kumar	Manish
19	445-8806	Praveen Kumar	Praveenk.
20	445-8706	Raghav Kumar	Raghav
21	445-8785	Tabrez Rabbani	Tabrez
22	445-8693	Raju Kumar	Raju Kumar
23	445-8682	Deepak Raj	Deepak
24	445-8739	Prince Kumar Tiwari	Prince
25	445-8748	Prashant Kumar	Prashant.
26	445-8709	Vikash Kumar	Vikash
27	445-8974	Avinash Kumar Mandal	Avinash k.
28	445-8981	Jahana Khatun	Jahana
29	445-8994	Aman Choudhary	Aman choudhary
30	445-8997	Yuvraj	Yuvraj
31	445-8952	Sumit Kumar	Sumit
32	445-8967	Sanni Kumar	Sanni k.



33	445-8916	Dilkhush Kumar	Dilkhush Kumar
34	445-8972	Jaiwardhan	Jaiwardhan
35	445-9049	Tripurari Kumar	T. Kumar
36	445-8912	Hrithik Raj	Hrithik Raj
37	445-9067	Prince Kumar	Prince Kumar
38	445-8919	Sourya Singh	Sourya Singh
39	445-8926	Vikram Kumar	Vikram kr.
40	445-8909	Roushan Kumar	Roushan kr.
41	445-8999	Saumya Kumari	Saumya
42	445-8970	Hemant Kumar	Hemant kr.
43	445-8978	Shreya Jaiswal	Shreya Jaiswal
44	445-8934	Nitesh Kumar	Nitesh kr.
45	445-8954	Anurag Kumar	Anurag Kumar
46	445-8921	Sukhnandan Kumar	Sukhnandan
47	445-8957	Aditi Gupta	Aditi Gupta
48	445-8931	Prince Kumar	Prince kr.
49	445-9140	Ajay Kumar	Aj Kumar
50	445-8985	Dharam Kumar	Dharam Kumar
51	445-8964	Dheeraj Kumar	Dheeraj Kumar
52	445-9132	Vikki Kumar	Vikki kr.
53	445-9160	Avinash Kumar Pandit	Avinash kr. Pandit



(Sign.)

Course Coordinator