

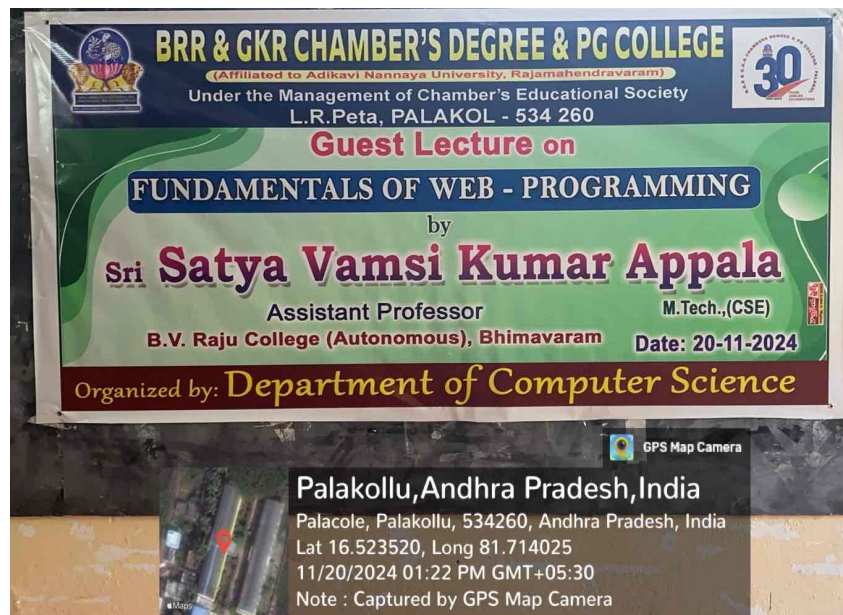
Event Title: Guest Lecture on Fundamentals of Web Programming

Date: November 20, 2024

Venue: BRR & GKR Chambers Degree College, Palakol

Target Audience:

- I BSc Students
- I BCom Students



Introduction

On November 20, 2024, a guest lecture on the "**Fundamentals of Web Programming**" was conducted for the I BSc and I BCom students of BRR & GKR Chambers Degree College, Palakol. The lecture aimed to introduce the students to the core concepts of web development and programming, providing them with a basic understanding of how websites are created and function.

Objective of the Lecture

- To introduce the fundamentals of web programming to students from both the science and commerce backgrounds.
- To familiarize students with key web development technologies such as HTML, CSS, JavaScript, and server-side scripting.

- To provide practical insights on how the internet functions and how web applications are developed.



Lecture Overview

The session covered the following key topics:

1. Introduction to Web Development

- **Definition:** Explanation of web development as the process of building websites or web applications.
- **Importance:** Highlighting the significance of web programming in the digital age, particularly for e-commerce, education, entertainment, and social media.

2. Web Technologies

- **Frontend Development:**
 - **HTML:** Structure of web pages. Key concepts like elements, attributes, and tags.
 - **CSS:** Styling the web pages. Basic concepts like selectors, properties, and values.
 - **JavaScript:** Client-side scripting for dynamic behavior and interactivity on web pages.
- **Backend Development:**
 - **Server-Side Scripting:** Introduction to server-side languages such as PHP, Python (Django, Flask), Node.js.
 - **Databases:** Introduction to databases and their role in web applications. Overview of SQL and NoSQL databases.

3. Working of a Web Application

- Overview of the client-server model.
- How requests and responses are exchanged between the user's browser and the web server.
- The role of web browsers, web servers, and domain names in hosting and accessing websites.

4. Practical Demonstration

- A brief demonstration of creating a simple web page using HTML, CSS, and JavaScript.
- Showcasing how a form can be used to collect user data on a webpage.
- Explaining how backend technologies work with frontend technologies to deliver a complete web application.

5. Career Opportunities in Web Development

- A discussion on career paths for web developers and designers.
- An overview of the skills required to pursue a career in web development (e.g., problem-solving, coding languages, and design principles).
- Industry demands and job roles, such as Frontend Developer, Backend Developer, Full-Stack Developer, Web Designer, etc.

Guest Speaker

The lecture was delivered by Satya Vamsi Kumar Appala, an experienced professional in the field of web development with expertise in both frontend and backend technologies. The speaker has 10 years of experience with M.Tech (CSE) qualification.



Interaction with Students

Following the lecture, an interactive Q&A session was held where students had the opportunity to ask questions and clarify doubts related to web programming. Some key student questions included:

- "What is the difference between HTML and JavaScript?"
- "How can I start learning web development from scratch?"
- "What are some of the best resources to learn web programming?"

Student Feedback

The students actively participated during the lecture and expressed their interest in learning more about web development. Feedback was collected at the end of the session, and the majority of students indicated that they found the session insightful and useful for their academic and career aspirations.



Conclusion

The guest lecture provided a strong foundation for students in the basics of web programming and sparked interest among them to explore the subject further. The session emphasized the importance of web technologies in today's world and encouraged students to consider web development as a viable career option.

