Absolutely! Here's a **line-by-line breakdown** of your news.php page that displays campus news from a database:

**🔧 PHP: Backend Logic**

<?php

session\_start();

* Starts the PHP session to allow usage of session variables (like user login or role).

include 'db\_connect.php';

* Includes the database connection file so you can interact with your MySQL database using $conn.

// ✅ Fetch News Articles

$news\_query = "SELECT \* FROM news ORDER BY posted\_at DESC";

$news\_result = $conn->query($news\_query);

* Writes and runs a SQL query to fetch **all news entries**, ordered from most recent (DESC) by posted\_at column.
* The result is stored in $news\_result to loop through later.

**🧾 HTML: Web Page Structure**

<!DOCTYPE html>

<html lang="en">

* Declares the document type as HTML5.
* Sets the language of the page to English.

<head>

<title>News - IPHS Campus</title>

* Sets the title of the web page shown in the browser tab.

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css">

</head>

* Loads **Bootstrap 5 CSS** from CDN for responsive design and styled components.

**🖼️ Page Body & News Display**

<body class="container mt-5">

* The body uses Bootstrap’s .container class for centered, responsive layout.
* mt-5 adds top margin to separate from the top of the page.

<h2 class="text-center text-primary">📰 Campus News</h2>

* A heading centered on the page and styled with Bootstrap’s text-primary (blue).

**🔄 PHP Loop: Display Each News Entry**

<?php while ($news = $news\_result->fetch\_assoc()) { ?>

* Starts a loop to **fetch each row as an associative array** from the query result.

<div class="card mb-4">

* Creates a Bootstrap card for each news post.
* mb-4 gives bottom margin between cards.

<?php if (!empty($news['image']) && file\_exists($news['image'])) { ?>

* Checks if the image field is **not empty** and if the file exists on the server.
* Prevents broken images.

<img src="<?= htmlspecialchars($news['image']); ?>" class="card-img-top" alt="News Image">

* Displays the image using the card-img-top class.
* htmlspecialchars() ensures the image path is safe to output (prevents XSS).

<?php } ?>

* Ends the image if block.

**📝 Card Body Content**

<div class="card-body">

<h3 class="card-title"><?= htmlspecialchars($news['title']); ?></h3>

* Displays the news title inside the card.
* Again, uses htmlspecialchars() for security.

<p class="card-text"><?= nl2br(htmlspecialchars($news['content'])); ?></p>

* Shows the news content.
* nl2br() preserves line breaks from the database (converts \n to <br>).
* htmlspecialchars() ensures HTML in the content isn't executed.

<p class="text-muted">📅 Posted on <?= date("F j, Y", strtotime($news['posted\_at'])); ?></p>

* Displays the formatted post date (e.g., April 22, 2025) with a calendar emoji.
* strtotime() converts datetime to a timestamp, and date() formats it.

</div>

</div>

<?php } ?>

* Closes the card and the PHP loop.

**🔚 Closing Tags**

</body>

</html>

* Ends the HTML document.

**✅ Summary**

This page:

* Fetches all news from the database.
* Uses a **Bootstrap card layout** to display each news post with title, content, image, and date.
* Is secure against HTML/script injection (via htmlspecialchars).
* Is responsive and neatly formatted with Bootstrap.

Let me know if you want to add features like **pagination**, a **"read more"** link, or a **search bar**!