OBJECTIVES AND COURSE CONTENT OF SHORT TERM COURSE

TAC No.	**HBCSE-2**
Name of the Course	Smart and Secure Web Development an AI Approach
Duration	30-11-2026 to 04-12-2026
Course Outcomes	Participants will be able to: • Explain the role, capabilities and limitations of Claude Code in PHP web development. • Develop dynamic and responsive web applications using PHP, MySQL, HTML, CSS and JavaScript. • Implement secure authentication, session management and role-based access control. • Apply secure coding practices to prevent common web vulnerabilities as per OWASP Top 10. • Use Claude Code for code generation, debugging, optimisation and security testing. • Evaluate AI-generated code for correctness, security and maintainability.
Course Contents	• Introduction to AI-Assisted Development Using Claude Code. • Front-End Development: HTML5, CSS3, Bootstrap, JavaScript, DOM Manipulation and Form Validation. • PHP Programming Fundamentals and Dynamic Web Application Development. • MySQL Database Design, Connectivity and PHP–MySQL Integration. • Authentication, Session Management, Role-Based Access Control and Web Security. • AI-Assisted Code Generation, Debugging, Testing and Security Review Using Claude Code. • Development of a Secure PHP–MySQL Web Application with Responsive UI, Role-Based Login, Vulnerability Protection, Testing and AI-Assisted Security Review.
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