

Centenary Celebrated Sharnbasveshwar Vidya Vardhaka Sangha's



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Former President, Sharnbasveshwar Vidya Vardhaka Sangha
Founder Chandole, Sharnbaswa University, Kalaburgi

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ಸ್ಥಾಪನೆ : 2017



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University

Kalaburagi-585 103

Karnataka-India

Estd.: 2017



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Faculty of Engineering and Technology [Co-Ed] Department of Computer Science & Engineering

NEXTGEN EMPLOYABILITY PROGRAM REPORT

Full Stack Web Development with AI Tools

(18 November 2025 – 29 November 2025)

Academic Year:	2025-2026
Semester:	V Semester
Trainer's	1. MR. VIVEK
	2. MR. MUKESH

1. Introduction

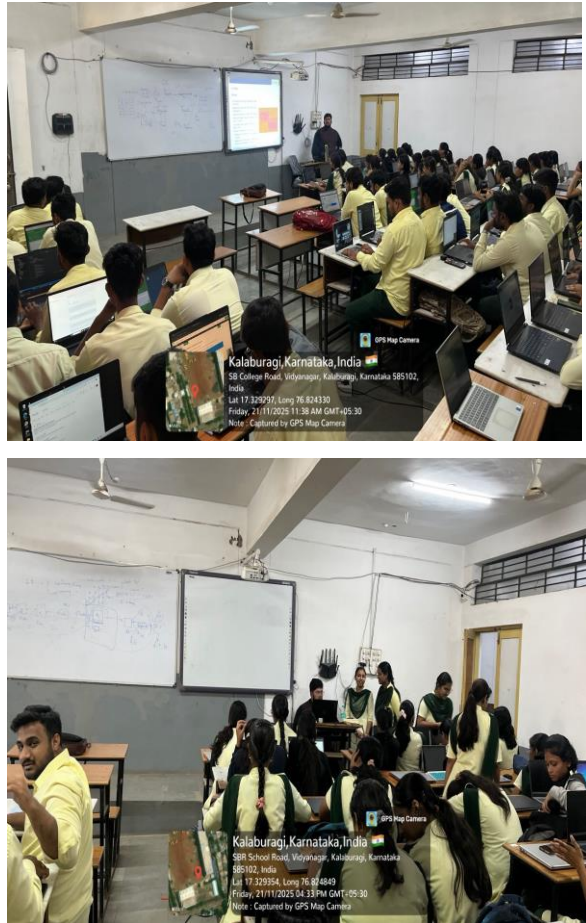
The Department of Computer Science & Engineering conducted a 11-day intensive NextGen Employability Program focused on Full Stack Web Development integrated with AI tools. The program followed an outcome-based framework (OBE), Students learned through hands-on implementation, real-time coding, version control, and mini-project development.

2. Program Objectives

- Strengthen students' full-stack development skills through structured modules.
- Provide hands-on exposure to Git, VS Code, APIs, AI tools, and industry coding standards.
- Develop backend coding proficiency through Python and Django frameworks.
- Encourage project-based learning through daily mentoring and assessments.
- Enhance employability by aligning curriculum with industry requirements.

3. Training Timeline (Day-wise)

Day & Date	Module	Topics / Detailed Description	Geo-tag Photo
Day 1 – 18/11/2025	Orientation & Git	• Introduction to program goals and career pathways. • Overview of sample projects and skill expectations. • Understanding Git, repository creation, and version control workflow. • Client-server architecture, DNS, IPs, hosting and deployment basics.	
Day 2 – 19/11/2025	HTML	• Deep dive into webpage structure. • Understanding HTML elements, attributes, forms and tables. • VS Code productivity setup and browser developer tools. • Hands-on practice: creating structured web pages.	

Day 3 – 20/11/2025	HTML5 & CSS	• Semantic HTML5 elements and accessibility principles. • CSS units, selectors, pseudo-classes, and styling techniques. • Flexbox for responsive layouts and multimedia embedding. • Practical: Building a responsive webpage layout.	
Day 4 – 21/11/2025	CSS & JavaScript Basics	• Grid system, transitions, animations, keyframes. • Intro to JavaScript syntax, variables, operators. • Conditional and looping constructs. • Team registration for LMS project tracking.	

Day 5 – 22/11/2025	JavaScript	• JavaScript Objects, Arrays and Data Structures. • Arrow functions, Higher-order functions, callbacks. • Real-time tasks: implementing dynamic page behavior.	
Day 6 – 23/11/2025	Advanced JavaScript	• ES6 concepts: let, const, template literals, spread operator. • DOM manipulation, form validation and event handling. • Mentoring Session – 1: Reviewing project structures.	

Day 7 – 25/11/2025	API & Python Intro	• Asynchronous JS (Promises, Fetch API). • Mini-project using public APIs. • Python basics: variables, data types, conditional logic.	
Day 8 – 26/11/2025	Python	• Loop structures, functions, modular programming. • AI Skills Passport introduction. • Mentoring Session – 2: Code review & improvement.	

Day 9 – 27/11/2025	Python & Django Setup	• Exception handling, modules, packages. • Installing Django and configuring project directory. • Understanding request-response cycle in Django.	
Day 10 – 28/11/2025	Django	• Function-based views, URL routing. • Template rendering and passing data. • Mentoring Session – 3: Backend integration support.	

Day 11 –
29/11/2025

Django
Advanced

- Jinja template engine usage.
- Static & media file setup for web applications.
- Final project consolidation and testing.



Day 12: Valedictory



4. Learning Outcomes

- Students developed complete responsive web pages using HTML, CSS, and JavaScript.
- Students gained proficiency in backend development using Python and Django.
- Students created API-integrated mini projects using asynchronous JavaScript.
- Students practiced version control and collaborative coding using Git.
- Students enhanced problem-solving and debugging skills through mentoring sessions.
- Students became industry-ready with AI-assisted coding workflows.

5. Conclusion

The 11-day NextGen Employability Program significantly uplifted students' technical competence by integrating full-stack development practices with AI technologies. The program enabled learners to confidently build modern applications and prepared them for higher employability in the IT sector.