

Centenary Celebrated Sharnbasveshwar Vidya Vardhaka Sangha's



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President, Sharnbasveshwar Vidya Vardhaka Sangha
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Poojya Chiranjeevi Doddappa Appa
7th Mahadeshaicha Pethadhipati,
Sharnbasveshwar Samasthan



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Former President, Sharnbasveshwar Vidya Vardhaka Sangha
Honorary Chancellor, Sharnbasva University, Kalaburagi

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ಸ್ಥಾಪನೆ : 2017



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University

Kalaburagi-585 103

Karnataka-India

Estd.: 2017



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Matoshree Godutai
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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
(24 FEB 2026 – 04 MARCH 2026)

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

1. Introduction

The Department of Computer Science & Engineering conducted a 10-days intensive NextGen Employability Program focused on Full Stack Web Development integrated with AI tools. The program followed an outcome-based framework (OBE), ensuring compliance with NAAC and NBA standards. 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. Day-wise Training Schedule with Geo-tag Photo Column

Day & Date	Module	Topics / Detailed Description	Geo-tag Photo
Day 1 – 24/02/2026	Back-End & Database Development	- Django forms and - module forms, login/ - Logout/register - Functionality, validating form data.	 
Day 2 – 25/02/2026	Back-End & Database Development (Django Models & MySQL Database)	- introduction to DRF, Serializers and View Sets, creating simple RESTful endpoints (GET, POST), - Returning JSON data Mater class - Project Mentoring - 4	 

Day 3 – 26/03/2026	Back-End & Database Development (API Development with Django REST Framework /	- Connecting frontend using JS (fetch) or Postman - Modular Assessment – 2 - Project Mentoring - 5	
Day 4 – 27/03/2026	AI Tools for Web Developers (Introduction to AI for Web Developers)	- What is AI? ML vs DL vs LLM, Use of AI in front-end and back-end Google Gemini API, Hugging Face, Python & JS-based AI frameworks (e.g., TensorFlow.js, LangChain.js), Prompt Engineering. - Basics & Approaches. - Project Mentoring – 6.	
Day 5 – 28/03/2026	AI Tools for Web Developers (AI-Powered Web Applications)	- Front end Integration- AI Chatbot using GPT API Form auto-fill & summarization Classification & Prediction models for financial applications Backend- Smart Recommendation system - Modular Assessment - 3 - Project Mentoring - 7	 

Day 6 – 29/03/2026	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 – 30/03/2026	API & Python Intro	• Asynchronous JS (Promises, Fetch API). • Mini-project using public APIs. • Python basics: variables, data types, conditional logic.	 

Day 8 – 31/03/2026	Python	• Loop structures, functions, modular programming. • AI Skills Passport introduction. • Mentoring Session – 2: Code review & improvement.	
Day 9 – 01/04/2026	Python & Django Setup	• Exception handling, modules, packages. • Installing Django and configuring project directory. • Understanding request-response cycle in Django.	

Day 10 –
02/04/2026

Django

- Function-based views, URL routing.
- Template rendering and passing data.
- Mentoring Session – 3: Backend integration support.



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.