



FDP REPORT ON “FULL STACK AI WEB DEVELOPMENT”

Date: 20/01/2025 – 25/01/2025

Institute Name: East Point College of Engineering and Technology, Bangalore

AICTE TRAINING AND LEARNING ACADEMY

ATAL FDP on Full Stack AI Web Development

Full Stack AI Web Development

ATAL 6-Days AICTE sponsored offline FDP was conducted from 20th to 25th January 2025 in which 50 participants from different parts of the country participated.

The speakers for the 6-Days FDP on “**Full Stack AI Web Development**” were:

Mr Kiran M



Senior Full Stack Web Developer
Digital Pvt. Ltd
Mumbai, Maharashtra

Mr. Nikhil Jain C S



Founder & CEO
Vision Astraa Startup Academy
Bangalore

Mr. Satisha V



Senior Manager
HP Pvt. Ltd
Bangalore

Mr. Koushik M S



Software Engineer
SST Technologies
Bangalore

Mr. Pavan Kumar E



Sr. Design Engineer
Venky Labs
Bangalore

EAST POINT COLLEGE OF ENGINEERING & TECHNOLOGY
AN AUTONOMOUS INSTITUTION AFFILIATED TO VTU & ACCREDITED BY NBA - CSE, ECE & ISE


AICTE SPONSORED ATAL

6 DAYS FACULTY DEVELOPMENT PROGRAMME
FULL STACK AI WEB DEVELOPMENT

VENUE: S M JAVARAM MEMORIAL HALL | DATE: 20th-25th Jan, 2025 | TIME: 09:30 AM



FDP Brochure



AICTE SPONSORED ATAL




6 DAYS FACULTY DEVELOPMENT PROGRAMME

On

FULL STACK AI WEB DEVELOPMENT

HOSTED BY



EAST POINT COLLEGE OF ENGINEERING & TECHNOLOGY

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East Point College of Engineering and Technology (EPCET), established in 1999 by the M.G. Charitable Trust in Bangalore, is affiliated with Vivesvaraya Technological University (VTU) and offers AICTE-approved undergraduate and postgraduate programs in engineering and technology, including emerging fields like AI, IoT, and cyber security. Accredited by NBA (2023-2026), the college has over 120 faculty members, a quarter with Ph.D. qualifications, actively engaging in research and collaboration with prestigious institutions like DRDO. With a Wi-Fi-enabled campus, modern labs, a library housing over 50,000 books, and industry-standard resources, EPCET emphasizes holistic education, offering internships, strong placement opportunities, and skill development programs with partners like AWS, Salesforce, UiPath-RPA, CISCO, and Google Cloud. The College has set an ambitious vision and it's working continuously to adapt newer concepts in teaching, learning, and student assessments to realize its vision through working on its mission. The college fosters a vibrant student life with clubs, intercollegiate events, and multidisciplinary interactions while promoting faculty development and global collaborations.



COORDINATOR
Dr. Komala C. R., Professor,
Dept of ISE, EPCET
Mobile No: 9844275912
Management, Principal and Staff

Date: 20.01.2025 to 25.01.2025
Duration: 9:00 AM to 5:00 PM
Venue: East Point College of Engineering and Technology

ABOUT THE FDP

The FDP focuses on AI technologies to enable personalization, dynamic content generation, and adaptive user interfaces, allowing dedicated developers to create tailored web experiences that cater to individual preferences and needs. Developers should embrace the opportunities that AI brings and leverage its power to create efficient, innovative, and engaging applications. The full-stack machine learning development is a comprehensive approach to build an end-to-end machine learning systems. A Full Stack Web Developer is responsible for designing, developing, and maintaining web applications and websites.

WHAT'S THE BUZZ

1. To demonstrate the installation of Python, Django and Visual Studio code editors.
2. To create the virtual environment, Django project and App.
3. To inherit the layout.html and the creation of additional pages of website.
4. To develop a Django app for the registration of a course and to display the registered list for the selected course.
5. To create the course as models with enrolment as Many to Many field.

WHY YOU SHOULD ATTEND

- 1) Hands-on experience to bring your ideas to life.
- 2) Exclusive insights from industry experts. Preparedness for certification
- 3) Add real-world AI projects to your portfolio!

YOUR FUTURE CAREER AWAITS

This participation will lead you to take up a career path like:

- Full Stack AI Developer
- Machine Learning Engineer
- AI Product Developer
- Web Application Architect
- Cloud AI Specialist

REGISTRATION PROCESS

- The Faculty members of the AICTE approved institutions, Research Scholars, PG Scholars and Faculty of host institutions are also eligible to attend the program. Number of participants is limited to 50 and registrations accepted will be based on first come first serve basis. Selected candidates will be intimated by email only.
- Faculty members selected for the programme should get the authorization certificates signed from the Principal.
- The certificates shall be issued by ATAL academy
- No registration fee for the participants. Register through: <https://aictc-india.org/atal> and click on sign up or login as a participant.
- The certificates shall be issued to those participants who have attended the program with a minimum of 80% attendance along with one assessment, 2 page write up of article summary, successful completion of practical session, report writing on industrial visit, reflection journal and to be obtained with a score of minimum 70% marks in the test conducted at the end/ during FDP.

Last Date for Registration: 11/01/2025
Acceptance Notification: 13/01/2025
Note: This FDP will be conducted in offline mode

ATAL FDP on Full Stack AI Web Development

FDP Schedule

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
9:00 – 9:30 Inauguration					
9:30 – 12:00 Session 1 Name of the Expert: Mr. Kiran M and Team Organization: Eigital Pvt. Ltd Topic to be taught: Creation of virtual environment, Django project and App	9:30 – 12:00 Session 3 Name of the Expert: Nikhil Jain C S, Mr. Kiran M and Team Organization: Vision Astraa Startup Academy Topic to be taught: Developing a Django app with display	9:30 – 12:00 Session 5 Name of the Expert: Satisha V, Mr. Kiran M and Team Organization: HP Pvt. Ltd Topic to be taught: Inherit the layout.html and creation of additional pages	9:30 – 12:00 Session 7 Name of the Expert : Mr. Koushik M S and Team Organization: SST Technologies Topic to be taught: Developing the Django app by integrating AI into applications	9:00 – 1:00 Industrial visit Name of the Organization: Kalvium Complete address with pin code : 403, 22nd Cross Rd, Parangi Palaya, BDA Layout, HSR Layout, Bengaluru, Karnataka 560034	9:30 – 12:00 Session 10 Name of the Expert : Pavan Kumar E Organization: Venky Labs Topic to be taught: Building intuitive and user-friendly interfaces to enhance the customer satisfaction.
12:00 – 1:00 Article Discussion 1.Title of the Research Paper : Innovative Cost Estimation for Agile Technology: A Novel Energy Storage Technique Incorporating Modified Planning Poker 2. Name of the journal: International Journal of Renewable Energy Research, 3. Year of Publication: 2023	12:00 – 1:00 Article Discussion 1.Title of the Research Paper : Multi-UAV computing Enabling efficient clustering-based IoT for energy reduction and data transmission “ 2. Name of the journal: Journal of Intelligent and Fuzzy Systems 3. Year of Publication: 2023	12:00 – 1:00 Article Discussion 1.Title of the Research Paper : Deep Learning for an Innovative Photo Energy Model to Estimate the Energy Distribution in Smart Apartments 2. Name of the journal: Hindawi, International Journal of Photo energy, 3. Year of Publication: 2022	12:00 – 1:00 Article Discussion 1.Title of the Research Paper : Implementation of multimedia generation using Deep Learning and Neural Network 2. Name of the journal: Journal of Emerging Technologies and Innovative Research 3. Year of Publication: 2023	Industry Type: Software Company Area of specification: Artificial Intelligence	12:00 – 1:00 Article Summary: Interaction on the enhancement of Article one to four
1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch
2:00 – 4:30 Session 2 Interactive session on Django project and App	2:00 – 4:30 Session 4 Interactive session on Developing a Django app with displays	2:00 – 4:30 Session 6 Interactive session on creation of additional pages	2:00 – 4:30 Session 8 Interactive session on integrating AI into applications	2:00 – 4:30 Session 9 Interactive session on Advanced Technologies of Artificial Intelligence	2:00 – 4:00 MCQ & Reflection Journal Quiz on Full Stack AI Web Development
4:30 – 5:30 Hands on training /Labs Practice session on Interactive session on Django project and App	4:30 – 5:30 Hands on training /Labs Practice session on Developing a Django app with displays	4:30 – 5:30 Hands on training /Labs Practice session on creation of additional pages	4:30 – 5:30 Hands on training /Labs Practice session on integrating AI into applications	4:30 – 5:30 Hands on training /Labs Practice session on Advanced Technologies of Artificial Intelligence	4:00 – 5:00 Valedictory Session

ATAL FDP on Full Stack AI Web Development

Overview of the FDP:

The inauguration was held on 20th January 2025 offline at 9:30 AM. The Chief Guest of the program was Dr. S. Prakash (Senior Vice President, EPGI), Guest of Honour of the function was Dr. Mrityunjaya V Latte (Principal, EPCET) and Mr. Kiran M (Senior Full Stack Web Developer, Eigital Pvt. Ltd) and the Coordinators Dr. Komala C R & Prof. Teena K B chaired the function. Also, the Director of Academics-EPGI, IQAC Dean-EPGI, Vice-Principal-EPCET, HODs-EPCET and Faculty Members were present with the participants.

Prof. Rebecca Sandra-EPCET addressed the gathering with the welcome speech followed by a prayer song performed by Prof. Neelima Sahu-EPCET. The dignitaries joined lighting the lamp ceremony, felicitation of the guests, the chief guest's address, introduction of chief guests and a Vote of Thanks. The introduction of resource person was delivered by Prof. Shilpa Patil-EPCET and welcomed the resource person to the FDP event. The Guest of Honour Dr. Mrityunjaya V Latte (Principal, EPCET) addressed the participants about the importance of the FDP, Roles and Responsibility in Technical Education, the various initiatives by AICTE and ATAL Academy. The Chief Guest Senior Vice President of East Point Group of Institutions Dr. S. Prakash, discussed about the FDP on "Full Stack AI Web Development" and Outcomes of the Programme. The inaugural function was concluded with the Vote of Thanks.

Invitation

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Cordially Invite You
AICTE SPONSORED ATAL
6 DAYS FACULTY DEVELOPMENT PROGRAMME
FULL STACK AI WEB DEVELOPMENT

Chief Patron
Smt. B. L. RAMADEVI VENKATPATHI
Chairperson, EPGI
Bengaluru, Karnataka

Patrons
Sri. S. V. PRAMOD GOWDA
Trustee & CEO, EPGI
Bengaluru, Karnataka

Sri. S. V. RAJIV GOWDA
Trustee & CEO, EPGI
Bengaluru, Karnataka

Sri. PETER FRANCIS
Secretary, M.G Charitable Trust
Bengaluru, Karnataka

Dr. PRAKASH S
Sr. Vice President, EPGI
Bengaluru, Karnataka

Prof. Teena K B
Co - Coordinator

Dr. Komala C. R, Professor
Coordinator

Dr. Mrityunjaya V Latte
Principal, EPCET

VENUE	DATE	TIME
S M JAYARAM MEMORIAL HALL	20 th -25 th Jan, 2025	09:30 AM

ATAL FDP on Full Stack AI Web Development

Glimpses of Inauguration



ATAL FDP on Full Stack AI Web Development



Participants List

SL. No	Name	Institution
1	S. Savitha	East Point College of Engineering and Technology, Bangalore
2	Udayabalan Balasingam	East Point College of Engineering and Technology, Bangalore
3	Heena Kousar	East Point College of Engineering and Technology, Bangalore
4	Janani R	S.E.A College of Engineering and Technology, Bangalore
5	I Manimozhi	East Point College of Engineering and Technology, Bangalore
6	V.Santhanam	Rajalakshmi Engineering College, Tamil Nadu
7	Dr.Sharadha	HKBK College of Engineering, Bangalore
8	Sreenivasa Rao Amaraneni	East Point College of Engineering and Technology, Bangalore
9	Shridevi Jeevan Kamble	REVA University, Bangalore
10	Chandrappa D N	East Point College of Engineering and Technology, Bangalore
11	Rashmi T V	East Point College of Engineering and Technology, Bangalore
12	N Gayathri	S.E.A College of Engineering and Technology, Bangalore
13	Bhavana P	Cambridge Institute of Technology, Bangalore
14	Rakesh V S	Cambridge Institute of Technology, Bangalore
15	Pushpalatha K S	Acharya Institute of Technology, Bangalore
16	G S Arjun	University of Mysore, Mysore
17	Heena Kouser	HKBK College of Engineering, Bangalore
18	Daina K K	Coorg Institute of Technology, Ponnampet, Coorg
19	Prashanthi H C	Coorg Institute of Technology, Ponnampet, Coorg
20	Akshay G S	University of Mysore, Mysore
21	Suman	SJC Institute of Technology, Chikkaballapur
22	Anilkumar Ambore	REVA University, Bangalore
23	Mala M V	SJC Institute of Technology, Chikkaballapur
24	Megha Kulkarni	Nitte Meenakshi Institute of Technology, Bangalore
25	M. Sathya	Nadar Saraswathi College of Engineering and Technology, Tamil Nadu
26	Bala Murugan R	Ramco Institute of Technology, Tamil Nadu
27	Vijayakumar.D	National Engineering College, Tamil Nadu
28	Jayashri M	S.E.A College of Engineering and Technology, Bangalore
29	Sushma B A	S.E.A College of Engineering and Technology, Bangalore
30	Rajkumar K	National Engineering College, Tamil Nadu
31	Malini V L	East Point College of Engineering and Technology, Bangalore
32	T Thulasi	S.E.A College of Engineering and Technology, Bangalore
33	Pushpladubey	Cambridge Institute of Technology, Bangalore
34	Lakshmishri M S	Cambridge Institute of Technology, Bangalore
35	Maria Kiran L	Cambridge Institute of Technology, Bangalore
36	Nanda Ashwin	East Point College of Engineering and Technology, Bangalore
37	Anil Kumar S	East Point College of Engineering and Technology, Bangalore
38	Nithyananda C R	East Point College of Engineering and Technology, Bangalore
39	Shilpa Prabhu Patil	East Point College of Engineering and Technology, Bangalore
40	Chandramouli H	East Point College of Engineering and Technology, Bangalore
41	Nilu Mishra	East Point College of Engineering and Technology, Bangalore
42	Deepa Puranik	New Horizon College of Engineering, Bangalore
43	M Dhanalakshmi	New Horizon College of Engineering, Bangalore
44	LubnaTaranum M P	KNS Institute of Technology, Bangalore
45	Dr.V. Navya	East Point College of Engineering and Technology, Bangalore
46	Kemparaju N	East Point College of Engineering and Technology, Bangalore
47	Vaishali Sontakke	East Point College of Engineering and Technology, Bangalore
48	Bhavya M	East Point College of Engineering and Technology, Bangalore
49	B.Satheesh Reddy	East Point College of Engineering and Technology, Bangalore
50	NeelimaSahu	East Point College of Engineering and Technology, Bangalore

ATAL FDP on Full Stack AI Web Development

Day1 Session–20th Jan 2025: Day1 of the FDP started with the session by Mr. Kiran M, Mr. Pavan Kumar E and Team. The session was delivered on “**Creation of virtual environment, Django project and App**”.

Key Points:

- Default Python Execution: Single-threaded and single-process.
- Explicit Concurrency: Use threading, multiprocessing, or asyncio to introduce multithreading, multiprocessing, or asynchronous behavior.
- Global Interpreter Lock (GIL): For multithreading, the GIL restricts concurrent execution of threads for CPU-bound tasks, making multiprocessing a better choice in such scenarios.

Hands on Session:

1. Creation of Virtual Environment
2. Simple CRUD Operation Application
3. Authentication Django App
4. REST FULL API CRUD Operation with openai API

Day2 Session-21st Jan 2025: Day 2 session was delivered by Mr. Nikhil Jain C S Mr Kiran M and Team on “**Developing a Django app with displays**” with hands on session. The session was concluded on the following:

1. Stateless Communication: Each request from the client contains all the necessary information, and the server does not store client-specific information between requests.
2. Resource-Based: RESTful APIs expose resources (e.g., users, books, orders) via endpoints like /api/books/.
3. HTTP Methods: Uses HTTP methods (GET, POST, etc.) to perform operations on resources.
4. Uniform Interface: Simplifies communication between client and server by standardizing how resources are accessed.
5. Scalability: Stateless communication allows the server to handle multiple requests efficiently.

Day3 Session-22nd Jan 2025: Day 3 session was delivered by Mr. Satisha V, Mr. Kiran M and Team on “**Inherit the layout.html and creation of additional pages**” with hands on session. The session was concluded on the following:

1. Create a To-Do App in React:
Features: Add, delete, and mark tasks as completed.
2. Create a Student Management App in Angular:
Features: Add, edit, and delete student records.

Day4 Session-23rd Jan 2025: Day 4 session was delivered by Mr. Koushik M S and Team on “**Developing the Django app by integrating AI into applications**” with hands on session. The session was concluded on the following:

1. Creating a Django Project
2. Development Environment Setup
3. Install Python and Pylance extension in VS Code
4. Open Python project in VS Code
5. Launch a local development server to preview and test the website
6. Projects and Applications

Day5 Session-24th Jan 2025: Day 5 session was an Industrial visit delivered on Area of specialization “**Artificial Intelligence**” and afternoon practice session was on “**Advanced Technologies of Artificial Intelligence**”. The session was concluded on the following:

1. Back End Development
2. Database Development
3. Full Stack Development
4. Build with AR/VR
5. Capstone Projects

ATAL FDP on Full Stack AI Web Development

Day6 Session-25th Jan 2025: Day 6 session was delivered by Mr. Pavan Kumar E on “**Building intuitive and user-friendly interfaces to enhance the customer satisfaction**”. The session was concluded on the following:

1. AI in AR/VR interfaces
2. Emotion AI and adaptive UIs
3. AI-generated UI components
4. Self-learning AI models for personalization
5. AI-driven accessibility enhancements

The Quiz Assessment for participants was conducted between 2.00 PM to 4.00 PM followed by the Valedictory session between 4.00 PM to 5.00 PM. The Chief Guest of the Valedictory function was Dr. Yogesh G S (Vice-Principal, EPCET), Guest of Honour of the function was Prof. Kemparaju N (Professor, EPCET) and the Coordinators Dr. Komala C R & Prof. Teena K B chaired the function. Also, the HODs-EPCET and Faculty Members were present with the participants.

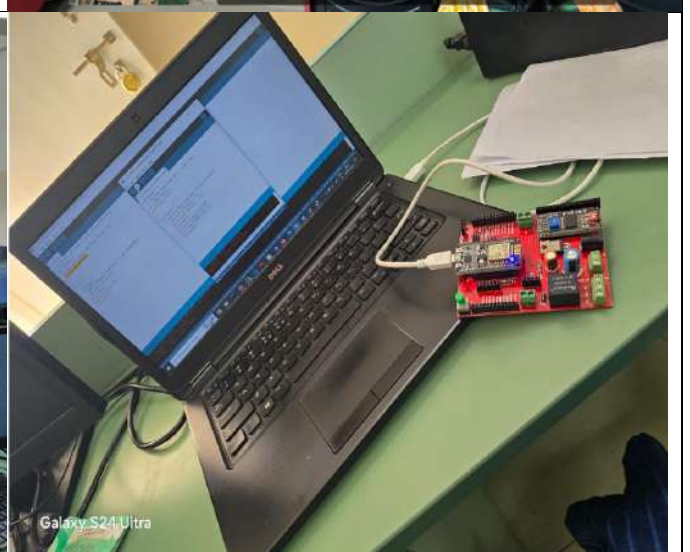
Prof. Rashmi-EPCET addressed the gathering with the welcome speech followed by the feedback session from the participants. The participants from various institutions shared their experience, take away and congratulated the organizing committee. The Chief Guest Dr. Yogesh G S (Vice-Principal, EPCET) addressed the participants and honored the organizing committee & the participants. The Valedictory function was concluded with the “Vote of Thanks” and the group photo session.

YouTube Live Streaming Link:

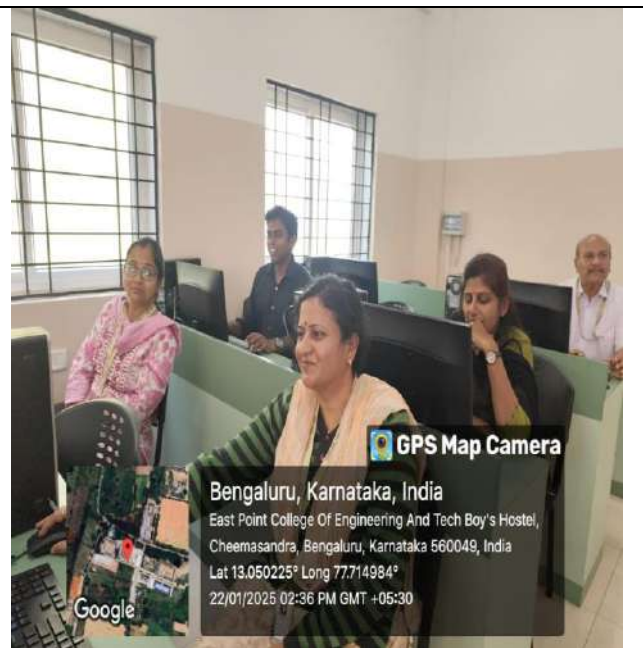
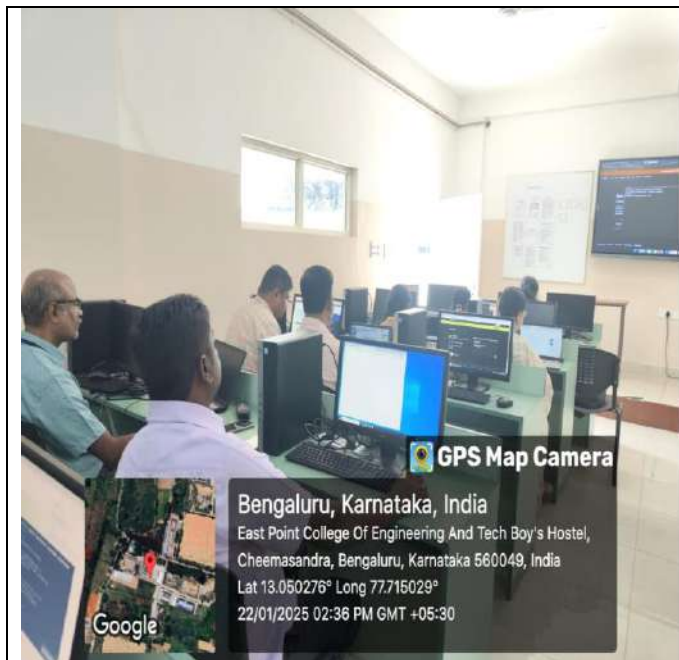
<https://www.youtube.com/live/9HKyTQ2Vbyw?feature=shared>

ATAL FDP on Full Stack AI Web Development

Glimpses/Preview of the FDP Sessions



ATAL FDP on Full Stack AI Web Development



ATAL FDP on Full Stack AI Web Development



Sample copies of Certificates



It was a great initiative by ATAL Academy. I am thankful to AICTE for giving me an opportunity to conduct offline FDP for the faculty members from various technical institutions of India with free registration fees. We received a huge response of registration and good compliments for organizing the offline FDP with hands on sessions.


Dr. Komala C R
Professor-EPCET, Coordinator


Dr. Mrityunjaya V Latte
Principal, EPCET
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ENGINEERING & TECHNOLOGY,
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