

## Diploma Program in **Agentic AI & Generative AI**

**Course Duration:**

1 Year (Two semesters)

**Course Fees:**

Rs.50000

(Rs.25000 per semester)

**Mode:**

Online



### **PARUL UNIVERSITY**

Parul University is an intellectual and a creative quest for all its stakeholders viz. Indian and International Students, Parents, Alumni, Faculties, Industry & Academic partners as well as society at large. We believe in proliferating our efforts towards quality education and environment. Every year we advance our targets to make headway to our scholarly endeavors.

Our University brings to everyone the best of all worlds. Be it its ethics, global exposure, contemporary educational practices, innovation and growth, PU outshines in all of these. We aim to make successful academic pursuits through entrepreneurship, research, modernization and partnerships with educationally inclined organizations, thus enhancing our position as the finest education destination.

We have been pioneers in accepting various interdisciplinary programs and have included them to our ideal and promising higher education curriculum. Starting with this decade it's our collective effort to empower more youth towards the pursuit to continuously learn, enhance skills, generate better employment opportunities and become competent entrepreneurs. For this very purpose, we are initiating a plurality of short term courses.

### **CENTRE FOR DISTANCE AND ONLINE EDUCATION**

The Centre for Distance and Online Education (CDOE) at Parul University is a dedicated academic division committed to offering quality education through flexible and accessible online learning formats. Rooted in the University's ethos of academic excellence and innovation, the CDOE is designed to support learners who aspire to upgrade their skills without compromising on their professional or personal responsibilities. The Centre offers a carefully curated set of Online Diploma and PG Diploma programs that address emerging industry needs and equip learners with practical, job-oriented knowledge.

Offered under the umbrella of Parul University—accredited with NAAC A++ and recognized by UGC—these programs reflect the institution's commitment to making impactful education accessible to all. The CDOE combines subject expertise with digital pedagogy to deliver a rich, interactive, and learner-focused experience.

# DIPLOMA / PG DIPLOMA PROGRAM - LETS YOU EARN TWO CREDENTIALS IN DISTINCT DOMAINS

With the ever increasing knowledge and skills in today's competitive world, Parul University's Diploma / PG Diploma opportunities allow you to pursue two degrees at the same time. Pursuing Diploma / PG Diplomas will provide you with the most competitive advantage, and will give you diverse knowledge in multiple fields and disciplines. Undergraduate and Postgraduate students can undergo two degree programs in distinct fields. All programs offered by Parul University under Diploma / PG Diploma are designed in line with NEP 2020 and guidelines suggested by University Grants Commission (UGC).

## Surprising Benefits of Graduating with a Diploma / PG Diploma

- Enhancing Employability and Entrepreneurship Skills
- Increase in Knowledge Base
- Diverse Career Options
- Enhancement of Multi-disciplinary Talent
- Saving of Time and Money

## PREAMBLE

Agentic AI represents the next evolution of artificial intelligence systems that can autonomously perceive, reason, plan, and act toward specific goals. Combined with Generative AI, which enables machines to create text, images, code, audio, and video content, this domain is redefining digital transformation.

This program focuses on Large Language Models (LLMs), prompt engineering, AI agents, autonomous workflows, retrieval-augmented generation (RAG), multi-agent systems, AI orchestration frameworks, and real-world deployment. Learners will gain expertise in building intelligent agents capable of performing complex tasks across enterprise environments.

**Program Name:** Diploma in Agentic AI & Generative AI

**Program Type:** Diploma

**Program Duration:** One Year (Two semesters)

**For Whom:** Individuals with 10+2 education or relevant qualification in any stream

**Program Fees:** Rs.50000 (Rs.25000 per semester)

## PROGRAM HIGHLIGHTS

- Industry-aligned curriculum covering Agentic AI, Generative AI, and LLMs
- Hands-on training with tools like LangChain, AutoGen, OpenAI APIs, and Vector Databases
- Strong focus on practical implementation and real-world AI systems
- Exposure to multi-agent systems and autonomous workflows
- Integration with cloud platforms, APIs, and enterprise tools
- Capstone projects in both semesters for portfolio development

## PROGRAM HIGHLIGHTS

- Coverage of ethical AI, governance, and security considerations
- Training in prompt engineering and RAG (Retrieval-Augmented Generation) systems
- Designed for job readiness in emerging AI roles
- Opportunity to work on industry-relevant case studies and applications

## CAREER OPPORTUNITIES

Graduates of this program can pursue roles such as:

01. Generative AI Engineer	06. NLP Engineer
02. AI/ML Engineer (LLM-focused)	07. AI Integration Specialist
03. Prompt Engineer	08. Automation Engineer (AI-driven workflows)
04. AI Agent Developer	09. Data Scientist (Generative AI specialization)
05. Conversational AI Developer	10. AI Product Developer

## PROGRAM OBJECTIVES AND OUTCOMES

Program Objectives	Program Outcomes
To understand foundations of Generative AI and Large Language Models.	Explain transformer architecture and foundation models.
To develop expertise in prompt engineering and AI agent design.	Design effective prompts for various generative tasks.
To build autonomous AI systems using agent frameworks.	Build AI agents using frameworks such as LangChain and AutoGen.
To integrate AI agents with APIs, databases, and enterprise tools.	Implement Retrieval-Augmented Generation (RAG) systems.
To evaluate ethical, governance, and security challenges in Agentic AI.	Develop multi-agent collaborative systems.
	Integrate AI agents with real-world workflows and business tools.
	Analyze risks related to hallucination, bias, privacy, and security in Generative AI.
	Build production-ready AI agents for enterprise automation

## COURSE CURRICULUM:

Semester – I		
Sr. No.	Subject Name	Credit Assigned
1	Foundations of Generative Artificial Intelligence and Large Language Models	4
2	Prompt Engineering and Context Management Techniques	4
3	Transformers Embeddings and Vector Database Systems	4
4	Concepts and Architectures of Artificial Intelligence Agents	4
5	Project – I	4
TOTAL		20

Semester – II		
Sr. No.	Subject Name	Credit Assigned
1	Retrieval-Augmented Generation (RAG) Systems	4
2	Multi-Agent Systems and Autonomous Workflows	4
3	Artificial Intelligence Integration: APIs, Databases and Cloud	4
4	Governance Security and Responsible Agentic Artificial Intelligence	4
5	Project – II	4
TOTAL		20

### For More Info Contact:

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