

India's First

AI-Integrated Pharmacy Programs

JSS College of Pharmacy,
Ooty



Join Now!



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Duration
4 Years

Key Features

- ## AI Curriculum Highlights

Master of Pharmacy (M. Pharm)

with Integrated AI Focus

Duration
2 Years

Objective : To develop domain-specific experts with advanced skills in applying **AI for research, innovation, & industrial excellence.**

AI Integration Across Specializations

Pharmacology

AI in preclinical research,
Trial Design, Pharmacovigilance

Pharmaceutics

AI in formulation optimization,
scale-up, smart drug delivery

Regulatory Affairs

Automated compliance,
AI-based dossier management

Pharmacy Practice

Personalized medicine,
AI-based clinical decision tools

Pharmaceutical Chemistry

In silico modeling, predictive
drug design

Pharmaceutical Analysis

Automated compliance,
AI-based dossier management

Quality Assurance

AI Enhanced QbD & PAT in
process manufacturing technology

Pharmaceutical Biotechnology

AI-Driven Enzyme Design &
Engineering

Pharmacognosy

AI-Driven Phytochemistry & AI
enabled Herbal Drug Validation

Add-ons

- Electives on “AI in Healthcare and Drug Development”
- Internships with pharma tech companies
- AI-driven thesis/dissertation



Doctor of Pharmacy (Pharm.D)

Duration
6 Years

with AI & Digital Health Integration

Objective : To train clinical pharmacists to work in AI-enabled healthcare environments, supporting personalized care and real-time interventions.

Key Enhancements

AI concepts introduced in clinical pharmacy, hospital rotations

Use of predictive analytics for adverse drug reaction monitoring

AI-based medication therapy management (MTM) tools

Integration of telehealth, wearable data, and mobile health applications

AI-Focused Curriculum Threads

Year	Focus Area	AI Integration
Year 3	Pathophysiology, Therapeutics	Pattern recognition, Treatment analytics
Year 4	Clinical Pharmacy	CDSS, AI in patient safety & counseling
Year 5	Clerkship & Rotations	Real-time data monitoring, pharmacovigilance tools
Year 6	Project	Digital health intervention using AI-driven platforms



Cross-Program Support Infrastructure

PharmAlcist Skill Lab

Dedicated space for AI learning and projects

Faculty Training

Continuous AI-Pharma pedagogy upskilling

Industry Partnerships

With IBM, AWS, Google Health, pharma AI startups

Digital Tools Used

Python, KNIME, BioRender, IBM Watson, Jupyter Notebooks

Outcome: Graduates from JSS AHER’s pharmacy programs will not only meet traditional competencies but emerge as AI-enabled pharmacy professionals ready to innovate, lead, and redefine healthcare.