PROSPECTUS

for

Post Graduate Certificate Program in Artificial Intelligence, Technology, and Law (PGCPAITL)

(Applicable for Batches Admitted from 2025-2026)

Jawaharlal Nehru Technological University – Gurajada Vizianagaram (JNTU-GV)

In collaboration with

Damodaram Sanjivayya National Law University (DSNLU)

Post Graduate Certificate Program in Artificial Intelligence, Technology, and Law

Program Introduction:

The Post Graduate Certificate Program in Artificial Intelligence, Technology, and Law (PGCPAITL), offered by Jawaharlal Nehru Technological University–Gurajada, Vizianagaram (JNTU-GV), in partnership with Damodaram Sanjivayya National Law University (DSNLU), Visakhapatnam, is a one-year, industry-focused program designed to prepare students aiming to pursue roles that combine law and technology.

With the rapid digitalization of judicial, revenue, police governance, and corporate systems, there is an increasing need for professionals who can understand both legal frameworks and technology-driven operational environments. In response to this national demand, the PGCPAITL program offers an interdisciplinary curriculum that combines Artificial Intelligence, Technology, Law, Legal Informatics, Cybersecurity and Data Protection, Programming for Legal Analytics, and Natural Language Processing (NLP) including Large Language Model (LLM)–based legal analytics.

The program employs a hybrid delivery model that combines structured online instruction with periodic in-person academic engagement. This method provides flexibility for working professionals while ensuring meaningful interaction with expert faculty from both JNTU-GV and DSNLU. Students have the opportunity to gain practical experience with modern tools such as e-Courts Platforms, National Legal Databases, Python-based text analytics, Contract Processing Utilities, and Digital Practice-Management Systems.

Carefully designed theory–laboratory integration enables students to perform digital legal research, automate documentation workflows, interpret technology contracts, analyze legal datasets, support privacy compliance, and contribute to litigation processes and advisory roles in the digital environment.

Through the combined expertise of JNTU-GV and DSNLU, this one-year PG certificate program equips students with the digital skills and ethical foundation needed to engage with India's growing techno-legal ecosystem and contribute to digitalization and digital governance innovations in legal and para-legal fields.

Who Should Apply?

- Working professionals with at least a bachelor's degree seeking to improve their skills in techno-legal fields and advance their careers through specialized knowledge in Artificial Intelligence, Technological Law, Legal Informatics, and Data-Driven Judicial, Revenue, Police Governance, and Corporate Systems.

- Graduates from any discipline-such as Law, Engineering, Science, Management, Commerce, or Humanities-who want to gain expertise in AI-enabled legal processes, digital courts, and technology-driven legal practice. Recent graduates aiming to improve their career prospects in emerging legal technology ecosystems with interdisciplinary skills in AI, cybersecurity, privacy law, and legal analytics.

- Professionals aiming to transition into roles such as:

  • Legal Data Analyst

  • AI-enabled Legal Research Platform

  • Compliance & Data Protection Specialist

  • Digital Governance Analyst

  • Legal Technologist and Legal Informatics Specialist

  Individuals employed in:

  • Courts, Tribunals, Judicial Services/Offices

  • Law Firms and Corporate Legal Departments

  • Legal Process Outsourcing (LPO) Organizations

  • Government, PSU, and e-governance agencies

  • Policy, Research, and Regulatory Organizations

  • Police and Revenue Administration

The Industry Outlook

- The global legal-AI market, valued at around USD 1.45 billion in 2024, is expected to grow to approximately USD 3.90 billion by 2030, with a CAGR.
- The legal AI software market is expected to expand from approximately USD 3.11 billion in 2025 to nearly USD 10.82 billion by 2030, with an estimated annual growth rate of 28.3%.
- About 80% of legal professionals, police, and revenue officials believe AI will significantly improve their work efficiency through advanced technological systems.
- Rising case volumes, regulatory complexity, and digital litigation systems are accelerating the adoption of AI-enabled tools such as automated contract review, case analysis, predictive analytics, damage calculations, and legal analytics.
- Digital skills in legal analytics, compliance automation, AI-powered dispute resolution systems, and judicial data science are expected to influence recruitment trends in the tech-legal ecosystem significantly.

Program Highlights

- One-year Post-Graduate Certificate Program for working professionals, available in a hybrid format.
- Comprehensive curriculum covering Cyber Law, AI, Legal Informatics, Cybersecurity, NLP for Legal Analytics, Digital Practice Systems, and Data Analytics.
- A two-semester program, with the first semester including three courses and one hands-on lab, and the second semester featuring three courses and two hands-on labs.
- 36 hours of online instructional delivery per subject to ensure in-depth learning.
- Laboratory sessions are scheduled on Saturdays for hands-on experience in hybrid mode (10:00 AM – 1:00 PM IST and 2:00 PM – 5:00 PM IST).
- Online evening live classes (6:30 PM – 8:30 PM IST) to facilitate working professionals.

- Mentored capstone / applied project addressing real-world judicial and Techno-legal challenges.
- Curriculum developed and delivered by expert faculty from JNTUGV and DSNLU, with support from senior academicians and other professionals.
- Exposure to platforms and tools such as Digital Case-Management Systems, Legal Databases, Python-based text processing, and NLP frameworks.
- Career pathway support for roles such as Legal Data Analyst, AI-enabled Legal Researcher, Techno-legal Associate, Privacy Analyst, and Tech-Legal Consultant.
- Opportunity to become an alumnus of both JNTUGV and DSNLU, gaining access to vibrant professional networks.
- Immersive peer-learning environment facilitated by expert interaction, collaborative sessions, and exposure to modern Techno-legal developments and E-Governance.

Program Objectives

- Enable working professionals to gain industry-ready skills in Technology, AI-assisted judicial, and legal environments.
- Develop professionals with a solid conceptual and practical understanding of AI, Legal Informatics, and computational methods in legal analysis.
- Offer comprehensive training on legal data processing workflows, including data acquisition, analysis, and interpretation for decision support.
- Enhance the ability to apply NLP/LLM and data-driven techniques for informed legal decision-making, document automation, and digital governance.
- Offer practical experience in resolving real-world judicial and techno-legal issues through supervised labs, use-case demonstrations, and capstone projects.

Student Learning Outcomes – PGCPAITL

- Address legal, judicial, and quasi-judicial issues suitable for AI analysis.
- Identify and choose suitable AI, NLP, LLM, or Data Analytics techniques for solving problems in their respective fields.
- Gather and analyze legal data from both structured and unstructured sources.
- Use supervised, unsupervised, or text-mining techniques on legal datasets.
- Implement and evaluate AI/NLP/LLM models for judicial and legal applications like document analysis, legal summarization, and data analytics.
- Analyze, communicate, and deliver insights to legal stakeholders through reports and visualizations.
- Encourage responsible and ethical AI implementation in legal systems, emphasizing privacy, fairness, and transparency.
- Perform tasks such as signing contracts, ensuring compliance, and reviewing the necessary Cyber-Infrastructure documentation using digital tools.
- Utilize technology-driven legal platforms and Digital Practice Management Systems effectively.
- Work effectively with legal and technical teams, showing ethical behavior and strong project management skills.

Key Benefits

1. Designed for working professionals—students can finish the program without a career break, thanks to flexible class schedules and weekend labs.
2. Curriculum aligned with industry needs – Course content is highly relevant to courts, legal firms, compliance offices, e-governance agencies, and emerging tech-legal sectors.
3. Technology-enabled delivery involves learning via live instruction, online collaboration platforms, guided lab practice, exposure to legal-tech tools, and interaction with faculty both online and offline.
4. Convenient engagement with faculty – Scheduled evening sessions and weekend labs make it easy for students with different jobs to participate.

5. Structured assessments and ongoing evaluation – This includes assignments, lab demonstrations, written exams, and a final capstone project based on real legal or judicial datasets.
6. Rich learning resources – Learners access curated reference materials, case studies, recorded sessions, data processing tools, and sample legal datasets.
7. Domain exposure – Sessions are supported by legal practitioners, AI experts, compliance specialists, and other professionals.
8. Capstone and Applied Learning – A supervised project enables the application of AI, NLP, and LLM-based techniques to real-world legal and judicial cases, including case analytics, entity extraction, compliance automation, document intelligence, and judgment-summarization workflows.
9. Successful candidates are recognized as alumni of both JNTU-GV and DSNLU, enabling broader professional networking.
10. Career mobility and employability – The program prepares learners for data-driven legal roles such as Legal Data Analyst, Judicial Tech Associate, AI-enabled Legal Researcher, Privacy Analyst, and Compliance Specialist.

Program Structure – PGCPAITL

The one-year Post Graduate Certificate Program in Artificial Intelligence, Technology, and Law (PGCPAITL) includes seven theory courses, four lab courses, and one project, all offered in a hybrid format over two semesters, with the project scheduled for the second semester. Each theory course is worth 3 credits, each lab course is worth 1.5 credits, and the project accounts for 12 credits. The total program credits amount to 34.5.

Semester-I

- Course 1: Foundations of Law and Justice
- Course 2: Fundamentals of Artificial Intelligence, Technology, and Law
- Course 3: Legal Tech Tools & Platforms
- Course 4: Legal Informatics & Practice Management Systems Lab - Scheduled lab sessions throughout the semester.

Semester-II

- Course 5: Cyber Law, Cybersecurity, Data Protection & Breach Management
- Course 6: Professional Ethics and Skills for Techno-Legal Analysis.
- Course 7: Legal NLP Text Analytics
- Course 8: NLP for Legal Analytics Lab - Scheduled lab sessions throughout the semester.
- Course 9: Cyber Law Analytics & Digital Practice Lab - Scheduled lab sessions throughout the semester.
- Course 10: Project Work - Capstone/applied project based on real judicial or techno-legal datasets.
- Along with the curriculum listed above, participants will participate in hands-on, case-based laboratory work on Saturdays.
- Each theory course includes 36 hours of guided online sessions (6:30 PM – 8:30 PM).
- Laboratories provide hands-on training or online sessions in Practice-Management Systems, NLP/LLM Workflows, Cyber-Law Analytics, and Data Processing.

Program Curriculum

Course 1 – Foundations of Law and Justice

Topics Covered:

- Technology, Law and Justice: An overview
- Foundations of Technology Law; Contract Formation principles - offer, acceptance, and consideration in digital environments.
- Electronic contracts, Digital/ Electronic signatures, Authentication Mechanisms, and online policy frameworks.
- SaaS and Cloud-Service Contracting Structures, including SLAs, DPAs, compliance duties, and service transitions.
- Vendor and API licensing models, Open-Source Compliance, Escrow Mechanisms, and Contractual Audit Provisions.
- Regulatory frameworks governing e-commerce and digital platforms, including consumer protection, liability, payments compliance, and DRM (Digital Rights Management).
- Drafting and evaluation of Digital Contracts, including SLAs, DPAs, licensing terms, Redlining practices, and Contract-Management Tools.

Course 2 – Fundamentals of Artificial Intelligence, Technology, and Law

Topics Covered:

- Fundamentals of judicial institutions, including the Hierarchy of courts.
- Introduction to procedure and reasoning behind judgments.
- Overview of Civil, Criminal, and Constitutional Law frameworks.

Course 3 – Legal Tech Tools & Platforms

Topics Covered:

- Overview of leading Legal-Tech Software eco-systems.
- Use of legal databases (e.g., Judgments, Statutes, Case metadata).
- Document Automation tools; Workflow design for legal practice.

Introduction to legal-AI products: Semantic Search, Case Tagging, Entity Extraction.

Course 4 – Legal Informatics & Practice-Management Systems Lab

Topics Covered:

- Case Filing.
- Case Management.
- Case Tracking.

Course 5 – Cyber Law, Cybersecurity, Data Protection & Breach Management

Topics Covered:

- Cyber Law: An overview
- Cybersecurity fundamentals; Threat landscape; Mitigation Mechanisms.
- Indian and Global Data-Protection Frameworks; Due Diligence Obligations.
- Cybercrimes and Attack classifications; Legal implications.
- Incident handling and Breach-Management; Notification Workflows.

Course 6 – Professional Ethics and Skills for Techno-Legal Analysis

Topics Covered:

- Teamwork & Adaptability.
- Communication; Presentation Skills.
- Problem-solving; Time Management; Decision-Making.
- Basic Drafting Skills; Use of templates.

Course 7 – Legal NLP Text Analytics

Topics Covered:

- Basics of NLP; Corpus Preparation.
- Text Pre Processing; Tokenization; Stop-Word removal.
- Chunking; Lemmatization; POS-tagging.
- Entity Extraction; Document Classification; Similarity Analysis.

Course 8– NLP for Legal Analytics Lab

Topics Covered:

- Text Analysis.
- Information Extraction.
- Legal Document Analysis.

Course 9 – Cyber Law Analytics & Digital Practice Lab

Topics Covered:

- Case Tracking.
- Case Monitoring.
- Case Documentation.

Course 10 – Project Work - Capstone or applied project based on real judicial or techno-legal datasets.

Topics Covered:

- Supervised capstone project utilizing real judicial, regulatory, or techno-legal datasets.
- Formulating a relevant problem statement in legal, compliance, governance, or AI-enabled legal tech domains.
- Collecting, preparing, and analyzing structured or unstructured legal data.
- Applying AI, NLP, and LLM techniques for document intelligence, entity extraction, judgment summarization, contract analytics, or compliance automation.
- Developing analytical workflows, dashboards, or decision-support tools for legal and governance applications.
- Integrating cyber law, data protection, and digital governance considerations.
- Preparing a project report that covers methodology, findings, and ethical aspects.
- Presenting results via evaluation, demonstration, and oral exam.

Note: The syllabus will be regularly updated according to BOS recommendations or the changing techno-legal environment.

Eligibility Criteria

- An undergraduate with a degree (such as a B.A., B.Sc., B.Com., B.Tech., B.L., BBA, BCA, or equivalent) with at least 50% marks (45% marks in case of candidates belonging to the reserved category) from a recognized university is eligible to apply.
- Graduates from any discipline currently working in legal, IT, corporate, government, regulatory, compliance, or judicial-support environments who wish to enhance their techno-legal skills may apply.
- Fresh graduates interested in AI-enabled legal processes, judicial technologies, digital governance, or legal informatics may also be considered.
- A basic understanding of computers and digital tools is recommended. Prior programming experience is not necessary, as foundational instruction will be provided during the program.
- Applicants with limited experience in Python or digital-legal tools may need to complete a short, instructor-led preparatory course before beginning regular coursework.
- The program is specifically designed for individuals seeking career advancement in roles involving Legal Data Analytics, Digital Governance, AI-Assisted Legal Research, Cybersecurity, Compliance, and E-Court Operations.

Fee Structure

Fee Structure for students admitted to the Academic Year 2025–2026 is as follows:

Total Program Fee: ₹30,000/-

Mode of Examination

The PG Certificate Program in Artificial Intelligence, Technology, and Law (PGCPAITL) uses a straightforward, transparent assessment process for online learning.

1. Mode of Instruction & Examination

- Daily online classes are conducted from 6:30 PM to 8:30 PM.

- Laboratory sessions are scheduled on Saturdays for hands-on experience in hybrid mode (10:00 AM – 1:00 PM IST and 2:00 PM – 5:00 PM IST).
- All end-of-term examinations are conducted online.

2. Course Structure and Assignments

- Each subject consists of four (4) Units.
- After completion of each Unit, an online assignment will be released.
- Students must submit each assignment within 7 days.

3. Evaluation Scheme

- Each subject carries a total of 100 marks.
- Assignment Weightage: 25% (based on four unit-wise assignments).
- End Examination Weightage: 75% (online/offline exam conducted after course completion).

4. Passing Requirements

- Students must secure a minimum of 50% marks in each subject to be eligible to be awarded a degree as per the Rules.
- Semester qualification requires passing all subjects individually.

How to Apply

The admission notification for the PG Certificate Program in Artificial Intelligence, Technology, and Law (PGCPAITL) will be posted on the official websites of JNTU-GV and DSNLU in December 2025. Applicants will receive a secure online application link to submit their applications and upload necessary documents. The program will begin in February 2026.

Points to Note

1. Applicants should thoroughly review the admission notification and follow all instructions provided.
2. All academic mark sheets and certificates must be self-attested prior to upload.
3. Candidates need to ensure that the information in the online application form is accurate and complete. A declaration must be submitted.
4. Updates regarding your application status, schedule, and instructions will be sent to your registered email.
5. The university reserves the right to cancel admission at any time if any discrepancy is identified.

Contact Details

Tirimula Rao Benala, PhD
Program Coordinator
Post Graduate Certificate Program in Artificial Intelligence, Technology, and Law (PGCPAITL)
Email: pgcpaitl@jntugv.edu.in
Website: pgcpaitl.jntugv.edu.in