LALIT NARAYAN MITHILA UNIVERSITY

DARBHANGA

Established 1972 · A Premier State University of Bihar

LNMU PROGRAMME FOR

AI-Assisted Forensic & Cyber Skill Development

Prospectus | Certificate & Diploma Programmes

A glimpse of the modern, technology-enabled learning environment at LNMU

Investigate. Innovate. Protect the Truth.

IMPLEMENTATION PARTNER

Technotouch & Gradels (JV)

Programmes offered — Certificate & Diploma

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1. Welcome to a New Era of Forensic & Cyber Skill Development

Lalit Narayan Mithila University, Darbhanga is launching a new academic and skill-development initiative for AI-Assisted Forensic & Cyber Skill Development. The programme has been designed to provide a practical, future-ready learning ecosystem in which students learn the science of evidence, the logic of investigation, the discipline of documentation, the fundamentals of digital and cyber analysis, and the responsible use of AI-assisted tools in forensic work.

In the current academic phase, the University is commencing the Certificate and Diploma pathways. These programmes are intended to make forensic and cyber skill development accessible immediately to students after Class 12. The design is inclusive, application-oriented, and career-focused.

The programme is implementation with the support from Gradels & Technotouch (JV), bringing together academic structure, technology orientation, skills training, and practical exposure. The long-term vision is to grow this initiative into a larger institutional platform for advanced forensic, cyber, analytics, and degree-level education in future phases.

Quick Highlights	
Entry requirement	Class 12 / 10+2 pass
Current offerings	One-year Certificate and two-year Diploma pathway.
Training focus	Forensic foundations, cyber skills, digital evidence, documentation, AI-assisted analytics, laboratory and field discipline.
Learning mode	Semester-based, practical, simulation-rich, internship-linked, and career-oriented.
Future progression	A degree pathway is planned to be started by the University in the future.

2. Why Forensic & Cyber Education Matters Today

Modern crime, conflict, fraud, cyber intrusion, digital misuse, identity deception, and evidence-based legal processes require trained people who can observe carefully, document correctly, think critically, and work with scientific discipline. Forensic education is no longer limited to the traditional image of crime-scene work alone. Today it connects science, technology, law, cyber systems, communication, ethics, and data.

Students entering this field gain exposure to real-world problem-solving. They learn how physical traces, biological clues, digital records, human behaviour, and documentary details contribute to investigation and justice. In a technology-driven world, the ability to understand both conventional evidence and digital evidence is increasingly valuable.

Microscopic examination — a foundational skill in evidence-based forensic work

The programme is designed to bring these dimensions together in a structured, student-friendly format. The aim is not merely to teach facts, but to build disciplined and employable learners who can support evidence-based environments with responsibility and integrity.

Why This Field Is Growing	Why Students Find It Attractive
Digital devices and online platforms now generate crucial evidence in many disputes and offences.	It combines science, logic, observation, law, and technology in one career pathway.
Cyber awareness, digital evidence handling, and basic investigative support skills are increasingly important.	It opens practical learning opportunities rather than only theory-based study.
Forensic documentation, reporting, and chain-of-custody discipline are vital in professional settings.	It builds confidence in documentation, digital analysis, reporting, and communication.
AI-assisted tools are changing how evidence can be screened, organized, and reviewed but only with human validation.	It creates employability pathways in forensic support, cyber support, analytics support, and investigation-linked services.

3. About Lalit Narayan Mithila University and the Programme

Lalit Narayan Mithila University, Darbhanga occupies a respected academic place in the Bihar. Through this new programme, the University is extending its academic presence into an area that is contemporary, skill-linked, socially relevant, and highly future-facing: AI-assisted forensic and cyber skill development.

Academic leadership at the launch of a technical workshop programme at the University

In this programme, students can be introduced to forensic fundamentals, digital and cyber skill development, evidence logic, legal documentation, and practical workflows. It is especially valuable for students who wish to enter an emerging interdisciplinary field without waiting for more advanced stages of study to begin their preparation.

The implementation partnership with Gradels & Technotouch (JV) is intended to strengthen academic delivery, skill orientation, AI-enabled learning support, practical exposure design, and industry-linked execution support. The goal is to combine academic credibility with implementation efficiency.

- University-led academic direction.
- Implementation support for skill-based and technology-enabled training.
- Regional access to a future-focused field without metropolitan dependency.
- A launch model that starts with Certificate and Diploma, while preparing the ground for future degree-level expansion.

4. Programme Portfolio at a Glance

The programme is commencing with two progressive pathways: a Certificate route and a Diploma route. The structure is designed so that a student may either complete the first-year certificate stage or continue into the second-year diploma stage for deeper training, broader exposure, and stronger employability.

Programme Comparison	
Certificate Programme	1 year / 2 semesters + structured summer skill internship or practicum.
Diploma Programme	2 years / 4 semesters + advanced practicum / internship support.
Entry Eligibility	12th standard pass.
Academic Approach	Semester system with theory, practicals, studio work, case simulations, and continuous assessment.
Current Launch Model	Certificate and Diploma are being started from the upcoming academic session (2026-27).
Future Expansion	A full degree programme is planned to be started in near future by the University.

Pathway Comparison

Certificate Pathway	Diploma Pathway
Best for students who want an early entry into forensic and cyber skill learning.	Best for students who want stronger specialization, better practical confidence, and deeper employability.
Builds foundation in evidence, documentation, biology basics, digital literacy, and legal awareness.	Adds digital & cyber forensics, analytics, research basics, applied case work, and advanced reporting.
Includes internship-linked vocational exposure at the completion stage.	Provides broader readiness for lab support, digital evidence support, and analytics-oriented roles.
Suitable for students seeking immediate skill development after 12th.	Creates a stronger base for future degree progression when the University expands the programme.
Also suitable for graduates in any stream interested in earning a highly employable specialization.	Also suitable for graduates in any stream interested in earning a highly employable specialization.

5. Eligibility, Entry Profile and Admission Readiness

A major strength of this programme is its accessibility. The entry requirement is simple:

Candidates having passed (10+2) in the Science stream, preferably with PCB (Physics, Chemistry, Biology) or PCM (Physics, Chemistry, Mathematics), with a minimum of 45% marks.

OR

Candidates having passed (10+2) in Humanities/Social Sciences stream with preferred subjects such as Economics, Geography, Psychology, Home Science, securing a minimum of 45% marks.

OR

Candidates possessing a Graduation or Master's degree in Science, Commerce, Humanities/Social Sciences (with preference to subjects such as Economics, Geography, Psychology, and Home Science).

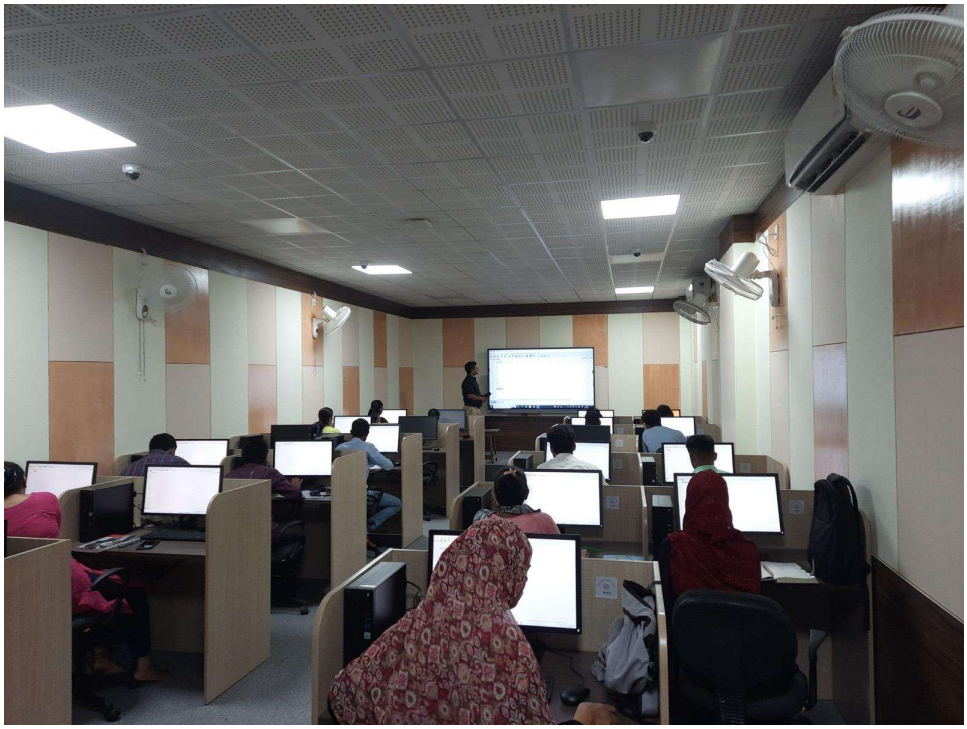
This means that the programme is intentionally inclusive. A student does not need to come only from a science stream to begin learning forensic and cyber skills. The curriculum is designed to gradually build the required foundation through structured teaching, guided practical work, and progressive skill development.

Who Can Apply?	You Do Not Need
Students who have completed 10+2 / Class 12 / Graduation from a recognized university.	A science stream background as a compulsory condition.
Learners interested in investigation, digital systems, evidence, law, or public-service-oriented careers.	Prior coding experience.
Students who want a practical and employable course after school.	Prior lab experience.
Those looking for a future-facing field that combines science, technology, logic, and ethics.	Prior legal training.

The teaching approach can also support learners who are entering the field for the first time. Students will be introduced to fundamental concepts in a structured way before moving toward more advanced practical and digital areas.

6. How Students Will Learn: The LNMU Model

The Programme is conceived not as a purely lecture-based course, but as a blended learning environment where classroom teaching, practical sessions, simulated case work, documentation exercises, digital workflows, communication practice, and internship-linked exposure all come together.



Structured computer-lab training — students working on hands-on digital exercises

Learning Features	Student Development Focus
Case-based teaching rather than only textbook learning.	Observation and critical thinking.
Hands-on practical in evidence handling, documentation, imaging, and digital records.	Communication in English / Hindi and professional expression.
AI-assisted academic tools introduced as support tools, not as replacements for human judgment.	Digital literacy and cyber awareness.
Studio-style activities for drafting, analysis, and presentation.	Discipline, responsibility, and ethical conduct in forensic contexts.

Core Elements of the Learning Journey

- Lectures for conceptual clarity.
- Practical sessions for skill-building.
- Simulated case exercises for application.

- Reporting and documentation practice for professional readiness.
- Internship / practicum exposure for workplace orientation.
- AI workflow awareness with human validation and accountability.

This model makes the programme more than an academic introduction. It creates a learning journey in which students are trained to think clearly, work carefully, report correctly, and behave professionally.

7. Certificate Programme — Semester I

The first semester introduces the learner to the foundations of forensic and cyber skill development. The focus is on building confidence, conceptual understanding, and practical orientation.

Semester I Themes	
Foundations of Forensic Science & Criminalistics	Meaning, scope, crime-scene basics, evidence categories, reasoning, and responsible technology use.
Crime Scene Management, Evidence Handling & Documentation Lab	Basic scene documentation, packaging, labelling, records, and chain-of-custody discipline.
Introductory Forensic Biology	Blood, body fluids, hair, fibre, DNA basics, contamination awareness.
Digital Systems, Data Literacy & Computer Applications	Computer basics, metadata, structured records, spreadsheet use, digital hygiene.
Communication & Writing	English communication and scientific writing for professional learning.
Questioned Documents & Imaging Skills	Observation of documents, handwriting features, image handling and practical reporting.
Values & Environmental Orientation	Sustainability, constitutional values, citizenship, and responsibility.

- Students begin with evidence logic, documentation, and basic scientific observation.
- Digital literacy is introduced early so that every learner is comfortable with modern records and systems.
- Communication and reporting are treated as essential professional skills, not as optional extras.
- The semester is suitable even for students who are entering the field from a non-science background.

8. Certificate Programme — Semester II and Exit Competence

The second semester deepens the learner's understanding of investigation support, digital evidence, instrumentation, behaviour, and legally aware communication. It prepares the student for the certificate-stage internship / practicum and for structured vocational readiness.

Hands-on practice with instrumentation

Semester II Themes	
Police Science, Criminal Justice System & Investigative Procedure	How investigation, evidence, police procedure, and forensic support connect in practice.
FIR Drafting, Case Diary & Legal Mapping Studio	Fact narration, chronology building, documentation, and elementary legal mapping.
Forensic Instrumentation, Sensors & Imaging	Scientific recording, imaging, sensors, and responsible interpretation of technical outputs.
Psychology, Behaviour & Society for Investigation	Human behaviour, communication, victim-offender context, and interpretive caution.
Hindi / Legal Vocabulary & Forensic Communication	Practical language use for legal and professional settings.
Digital Evidence Handling & Case File Skills	Digital records, metadata, chain of custody, structured case-file preparation.
Understanding India, Ethics & Community Engagement	Citizenship, ethics, responsibility, and public values.

After the first year, students completing the certificate pathway should be able to support evidence handling, documentation, digital record maintenance, basic reporting, and structured workflow tasks in supervised settings.

- Certificate-stage internship / practicum builds workplace discipline.
- The learner is prepared for support roles in documentation, evidence handling, lab assistance, and basic digital / cyber support environments.
- Students may exit with the certificate or continue smoothly into the Diploma pathway for deeper training.

9. Diploma Pathway — Semester III Progression

Students who continue into the diploma stage move beyond foundation-level learning into intermediate forensic and cyber competence. Semester III shifts the learner toward digital investigation, AI-supported review, legal mapping, and broader interdisciplinary awareness.

A modern studio environment for digital presentation, recording and AI-supported content development

Semester III Themes	
AI-Assisted Digital & Cyber Forensics	Digital evidence, cybercrime context, preservation, logs, and AI-supported review.
Digital Evidence Acquisition & Analysis Lab	Imaging, metadata, hashing, digital notes, and validated reporting.
Machine Learning Concepts for Forensic Analysis	How pattern recognition, classification, clustering, and explainability relate to forensic analysis.
Environmental Hazards, Disaster Response & Public Health	Risk, emergency context, documentation, and interdisciplinary responsibility.
English for Courtroom Communication & Forensic Drafting	Structured written and oral professional expression.
Legal Provisions Mapping	Fact patterns, evidence linkage, and broad mapping to legal provisions.
Health, Wellness, Yoga & Professional Ethics	Discipline, resilience, ethics, and balanced professional conduct.

- The diploma stage begins to create a real professional profile in digital / cyber and structured documentation work.
- Students develop stronger reasoning, better technical comfort, and more formal communication skills.
- AI is introduced in a responsible and supervised way, always with human validation and accountability.

10. Diploma Pathway — Semester IV, Applied Analytics and Exit Readiness

Semester IV turns the diploma learner into a much more practice-ready candidate by integrating biology, serology, data analytics, research basics, dashboards, case analytics, and advanced communication.

applied work in forensic biology and serology

Semester IV Themes	
AI-Assisted Forensic Biology & Serology	Biological evidence, blood, body fluids, hair, DNA basics, contamination control, and reporting.
Biological Evidence Examination Lab	Hands-on biological documentation and interpretation.
Forensic Data Analytics & Visualization	Timelines, dashboards, summaries, linkages, and evidence-linked data interpretation.
Data Modelling & Case Analytics Lab	Cleaning, modelling, dashboards, and human-validated analytical summaries.
Applied Forensic Case Analytics Studio	Integrated case work, evidence mapping, presentation, and structured problem solving.

Research Methods & Applied Forensic Statistics	Study design, statistics, reliability, validity, and research-oriented thinking.
Hindi / MIL for Expert Testimony & Professional Presentation	Advanced bilingual communication for technical expression.

The diploma-stage practicum or internship strengthens employability by exposing students to structured digital, biological, analytical, and documentation workflows. By the end of the diploma stage, the learner is better prepared for more responsible support roles and for future academic progression when the University begins the degree pathway.

11. Career Benefits and Professional Pathways

One of the strongest reasons to choose this programme is that it develops practical, transferable, and emerging-age skills. The learner is trained not only in subject knowledge but also in reporting, digital discipline, analytical thinking, legal awareness, communication, and responsible technology use.

Possible Pathways after the Certificate Stage	Possible Pathways after the Diploma Stage
Evidence handling and documentation assistant roles.	Forensic lab support and technical documentation roles.
Forensic office / records support.	Digital evidence support and cyber-analysis assistant roles.
Basic digital evidence and metadata handling support.	Case-file management, reporting, and analytics support positions.
Laboratory assistant trainee roles in supervised settings.	Legal documentation and forensic coordination support roles.
Further continuation into the Diploma pathway for stronger employability.	Preparation for future degree-level expansion, competitive skill growth, and higher study.

The programme is intentionally designed to improve employability, professional readiness, and functional confidence in a field where evidence, digital systems, and analytical support are increasingly important.

- High-demand blend of forensic awareness and cyber skill development.
- Exposure to AI-assisted analytics, a rising area across industries and institutions.
- Practical confidence in documentation, reporting, and digital systems.
- A strong early-stage platform for long-term growth in justice, security, technology, and analytics domains.

12. Practical Exposure, Labs, Studios and Skill Environment

The programme is designed to give students exposure to a guided, skills-focused environment. Even at certificate and diploma level, the emphasis is on making learners familiar with professional discipline, documentation quality, digital traceability, and structured practical work.

Laboratory centrifuge — practical biology skill development

Studio recording infrastructure for forensic communication practice

Production control desk used in studio-style case-presentation training

Expected Learning Environments	Exposure Opportunities
Evidence handling and documentation practice areas.	Simulated case exercises.
Digital evidence and cyber-skills exposure modules.	Lab and workflow demonstrations.
Imaging, records, and structured reporting exercises.	Guest sessions / expert interactions where arranged.
Case analytics and dashboard-based learning.	Internship or practicum-linked supervised experience.
Bilingual legal / professional communication support.	Portfolio and viva-based demonstration of competence.

The implementation partnership model is intended to help bridge classroom learning with professional orientation. Students are not trained merely to memorize subject matter; they are prepared to behave responsibly in structured, evidence-linked environments.

Wherever AI-supported academic tools are introduced, the programme will emphasize that final interpretation and responsibility remain with the trained human learner or professional supervisor.

13. Academic Model, Assessment and Professional Ethics

The programmes follow a semester-based structure. Learning is expected to take place through theory classes, laboratory work, studio exercises, documentation practice, case-based assignments, and internship or practicum components. Assessment is therefore not limited to written examination alone.

- Internal assessment and end-semester assessment in theory papers.
- Practical evaluation, records, portfolios, and viva in labs and studios.
- Internship / practicum assessment through logbooks, reports, and supervised review.
- Outcome-based learning with emphasis on understanding, application, analysis, and responsible conduct.

Professional Ethics at the Core

Professional ethics are central to this field. Students are expected to learn and practice confidentiality, evidence integrity, accuracy in documentation, respect for legal boundaries, and caution in interpretation. The Programme also emphasizes that AI-assisted tools are to be used as academic and professional support systems only; they do not replace human judgment, ethical responsibility, or final accountability.

Attendance requirements, detailed examination rules, fee structure, result processing, promotion rules, and certification formalities shall be governed by the Bylaws and programme ordinances and regulations.

14. Frequently Asked Questions

Do I need a science background to join?

No. The programme is designed to support learners from varied backgrounds.

Is coding compulsory before admission?

No. Prior coding knowledge is not required at entry stage. Digital literacy and AI-related learning are introduced progressively.

Will I learn only about crime scenes?

No. The programme also includes digital evidence, cyber skills, documentation, communication, ethics, analytics, and practical workflow training.

Is AI used in the programme?

Yes, but as an academic and professional support tool. Final interpretation and responsibility remain human-validated.

What is the difference between the Certificate and Diploma?

The Certificate gives first-year foundational skill development. The Diploma builds deeper practical competence, digital / cyber exposure, analytics, and more advanced employability skills.

Can I continue into a degree later?

The University plans to start the degree pathway in near future. The current prospectus covers the Certificate and Diploma stage being launched now.

Will there be internship or practicum exposure?

Yes. The programme is designed with structured internship / practicum-linked components to build professional readiness.

15. Join a Future-Ready Academic Initiative at LNMU

The Programme for AI-Assisted Forensic & Cyber Skill Development is designed for learners who want more than a conventional course. It offers an early, meaningful, and career-conscious entry into a field that connects evidence, digital systems, justice, and responsible technology.

- Accessible after Class 12.
- Certificate and Diploma pathways available now.
- Practical, internship-linked, and employability-oriented learning.
- AI-assisted, but ethically grounded and human-validated.
- A strong foundation for future academic and professional progression.

Students, parents, educators, and institutions looking for a future-ready programme in the Mithila region may consider this programme as a timely and significant opportunity.

Programme Information at a Glance	
Programme Name	AI-Assisted Forensic & Cyber Skill Development
Implementation Partner	Technotouch & Gradels (JV)
Current Launch	Certificate and Diploma programmes are being started from the current academic session (2026-27).
Future Plan	Degree pathway may be introduced by the University in future.
Admissions	Detailed admission notification to be uploaded on the website. Number of seats, fees, and administrative rules are detailed in the ordinance and regulations available on the university website.

Lalit Narayan Mithila University
DARBHANGA

A CLOSING WORD

Investigate. Innovate.
Serve with Evidence and Integrity.

The LNMU Programme for AI-Assisted Forensic & Cyber Skill Development invites students to be part of a future-ready academic initiative rooted in the Mithila region — combining evidence, digital systems, justice, and responsible technology.

CONNECT WITH US

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