



डिनको कार्यालय
Office of the Dean

लुम्बिनी प्राविधिक विश्वविद्यालय

LUMBINI TECHNOLOGICAL UNIVERSITY

इन्जिनियरिङ तथा सूचना प्रविधि अध्ययन संस्थान
Institute of Engineering and Information Technology



Integrated Student Development Program बारे सूचना

(प्रकशित मिति: २०८३/०३/०६)

यस लुम्बिनी प्राविधिक विश्वविद्यालय अन्तर्गतको इन्जिनियरिङ तथा सूचना प्रविधि अध्ययन संस्थानद्वारा सञ्चालन गरिएका B.Tech in Civil Engineering, B.Tech in Information Technology Engineering, B.Tech in Computer Science & Artificial Intelligence तथा B.Tech in Information Technology कार्यक्रमहरूमा अध्ययनरत विद्यार्थीहरूको ज्ञान, सीप तथा व्यावसायिक क्षमता अभिवृद्धि गर्ने उद्देश्यले विभिन्न विषयगत क्षेत्रमा २ देखि ७ दिन अवधिका Workshop कार्यक्रमहरू सञ्चालन गरिने भएको व्यहोरा सम्बन्धित सम्पूर्ण विद्यार्थी, शिक्षक तथा कर्मचारीहरूलाई जानकारी गराइन्छ। उल्लेखित सेमेस्टरका सम्पूर्ण विद्यार्थीहरूलाई अनिवार्य रूपमा उपस्थित हुन सुचित गरिन्छ।

उक्त Workshop कार्यक्रमहरू मार्फत विद्यार्थीहरूले आफ्नो प्राविधिक ज्ञान र सीपलाई व्यवसाय तथा व्यावसायिक अभ्याससँग कसरी जोड्न सकिन्छ भन्ने विषयमा व्यावहारिक अनुभव तथा आवश्यक दक्षता हासिल गर्ने अवसर प्राप्त गर्नेछन्।

पुनश्च: स्नातकोत्तर तहमा अध्ययनरत विद्यार्थीहरूपनि उल्लेखित कार्यशाला हरूमा सहभागी हुन सकिनेछ।

कार्यशालाहरूको बिस्तृत विवरणहरू निम्न अनुसार रहेका छन् :

डा. निरज के.सी.
डीन



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Detail Schedule for Workshops

Program A:

Full Stack Web Development (Laravel)

Target Students: B.Tech in IT Engineering 4th Semester

Date	Time	Hours	Topics / Focus Area	Facilitator
Ashad 10 2083	7:00 AM – 9:00 AM	2 hrs	(Opening Session) Environment Setup & Laravel Introduction: What is Laravel and MVC architecture; installing PHP, Composer, and the Laravel installer; creating the StudentApp project; folder structure walkthrough; Artisan CLI basics (Hands-on: create project, run dev server, confirm welcome page)	Trainer from Nexora Info Pvt.Ltd
Ashad 10 2083	9:00 AM – 11:00 AM	2 hrs	Routing & Blade Templating: Defining routes and route parameters; Blade syntax and directives (@if, @foreach, @extends, @section, @yield); building a master layout with navbar and footer (Hands-on: build Home, About, and Contact pages using the master layout)	Trainer from Nexora Info Pvt.Ltd
Ashad 11 2083	7:00 AM – 9:00 AM	2 hrs	Controllers & Resource Routing: Generating resource controllers; the 7 RESTful methods; Route::resource and php artisan route:list; returning views with data (Hands-on: build StudentController with index, create, and show methods)	Trainer from Nexora Info Pvt.Ltd
Ashad 11 2083	9:00 AM – 11:00 AM	2 hrs	Database, Migrations & Seeders: Configuring the database connection; writing migrations for students and courses tables; column types; running and rolling back migrations; seeding data with Seeders and Model Factories (Hands-on: create and seed 10 students across 3	Trainer from Nexora Info Pvt.Ltd



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			courses)	
Ashad 12 2083	7:00 AM – 9:00 AM	2 hrs	Eloquent Models & Relationships: Creating Eloquent models; mass assignment protection; core query methods; defining belongsTo / hasMany relationships; eager loading to avoid the N+1 problem (Hands-on: build Student and Course models and test relationships via Tinker)	Trainer from Nexora Info Pvt.Ltd
Ashad 12 2083	9:00 AM – 11:00 AM	2 hrs	Full CRUD with Blade Forms: Building create, edit, and index views; CSRF protection and method spoofing; form validation and flash messages (Hands-on: complete full CRUD for the Student model create, list, view, edit, update, and delete)	Trainer from Nexora Info Pvt.Ltd
Ashad 13 2083	7:00 AM – 9:00 AM	2 hrs	Authentication with Laravel Breeze: Installing Breeze scaffolding; out-of-the-box auth routes; protecting routes with auth middleware; @auth / @guest directives in Blade (Hands-on: install Breeze and protect all student routes with the auth middleware group)	Trainer from Nexora Info Pvt.Ltd
Ashad 13 2083	9:00 AM – 11:00 AM	2 hrs	Validation, Errors & Relationships in Forms: Validation rules and custom error messages; displaying field-level errors in Blade; populating dropdowns from the database; displaying related data (Hands-on: add full validation and a course dropdown to the student forms)	Trainer from Nexora Info Pvt.Ltd
Ashad 14 2083	7:00 AM – 9:00 AM	2 hrs	Search, Pagination & File Upload: Implementing live search with query parameters; adding pagination to Eloquent queries; handling file uploads and storage links; displaying uploaded images (Hands-on: add search, pagination, and profile photo upload to StudentApp)	Trainer from Nexora Info Pvt.Ltd



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Ashad 14 2083	9:00 AM – 11:00 AM	2 hrs	Final Project Build, Review & Deployment Overview: Choosing and building a final project (Library, Inventory, Notice Board, or Task Manager); requirements review; deployment overview (cPanel, Railway, Render, environment variables, caching); code review in pairs; resources and Q&A. Certificate distribution and closing remarks.	Trainer from Nexora Info Pvt.Ltd
	Total	20 hrs	Session (2 hr per session)	10 sessions



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Program B:

AutoCAD and Municipal Drawing Workshop

Target Students: B. Tech in Civil Engineering 2nd and 4th Semester Students

Date	Time	Hours	Topics / Focus Area	Facilitator
Ashad 10 2083	7:00 AM – 9:00 AM	2 hrs	AutoCAD Interface, Workspace Setup, Drawing Units, and Toolbars; Basic Drawing Commands: Line, Circle, Arc, Rectangle, Polygon, Polyline (Hands-on Practice)	Er. Suman Sapkota
Ashad 11 2083	7:00 AM – 9:00 AM	2 hrs	Editing Tools: Trim, Extend, Offset, Mirror, Array, Move, Copy, Rotate, Scale; Layers, Line types, Line weights, and Drawing Organization (Hands-on Practice)	Er. Suman Sapkota
Ashad 12 2083	7:00 AM – 9:00 AM	2 hrs	Text, Dimensioning, and Annotations; Introduction to MRT Norms Setbacks, FAR, Building Coverage, Height Restrictions, Road Reserve, and Municipal Bylaws Overview. Site Plan Preparation: Plot boundary, setbacks, north arrow, road width, neighbouring plots as per MRT norms (Full Hands-on Drawing Exercise)	Er. Suman Sapkota
Ashad 13 2083	7:00 AM – 11:00 AM	4 hrs (2 Sessions)	Floor Plan Drawing: Ground Floor Plan with room layout, staircase, toilets, doors, windows, and dimensions; Upper Floor Plan and Roof Plan Preparation. Sections and Elevations: Longitudinal Section, Cross Section, Front Elevation, and Side Elevation (Full Hands-on Drawing Exercise)	Er. Suman Sapkota



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Date	Time	Hours	Topics / Focus Area	Facilitator
Ashad 14 2083	7:00 AM – 11:00 AM	4 hrs (2 Sessions)	Title Block Setup, Drawing Sheet Layout, Drawing Index, Owner and Engineer Details as per Municipal Requirements; Print/Plot Setup and Drawing Output	Er. Suman Sapkota
Ashad 15 2083	7:00 AM – 9:00 AM	2 hrs	Municipal Drawing Submission Process Required Documents, Application Forms, Drawing Checklist, and Approval Workflow; Supervised Practical: Participants finalize and review their complete Municipal-ready drawing set	Er. Suman Sapkota
Total		16 hrs	Session (2 hr per session)	8 sessions



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Program C:

IoT Based Project using Arduino Uno

Target Students: B.Tech in CS&AI 6th Semester

Day	Time	Hours	Topic and Activities	Facilitator
Ashad 10, 2083	7:00-9:00 AM	2	IoT & Arduino Uno Overview: ecosystem tour, hardware intro, Arduino Uno OS setup, SSH & VNC configuration	Keshab Dumre
Ashad 10, 2083	9:00-11:00 AM	2	GPIO Programming: pin layout, LED blinking, button input, traffic light simulation using GPIO	Keshab Dumre
Ashad 11, 2083	7:00-9:00 AM	2	Sensor Interfacing: DHT11/DHT22 temperature & humidity, MQ gas sensor, PIR motion sensor, reading data in Python	Keshab Dumre
Ashad 11, 2083	9:00-11:00 AM	2	IoT Dashboard & Cloud: ThingSpeak/Node-RED setup, MQTT protocol, live sensor data, alert configuration	Keshab Dumre
Ashad 12, 2083	7:00-9:00 AM	2	Project Ideation & System Design: team formation (10-15 students), problem statement, block diagram, mentor review	Keshab Dumre
Ashad 12, 2083	9:00-11:00 AM	2	Project Build Part I: hardware assembly, sensor wiring, initial code, troubleshooting with mentor support	Keshab Dumre
Ashad 13, 2083	7:00-9:00 AM	2	Project Build Part II: software integration, dashboard connection, testing, debugging, data logging	Keshab Dumre



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Ashad 12, 2083	9:00- 11:00 AM	2	Documentation: abstract writing, block diagram finalization, result capture, presentation slides preparation	Keshab Dumre
11:00-11:15 AM		Break		
Ashad 12, 2083	11:15AM- 1:15 PM	2	Project Presentations & Closing: team demos (5-7 min each), Q&A, judge feedback, certificate distribution	Presentations
Total		18 hrs	2 hour per sessions	9 sessions



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Program D:
Digital Marketing and SEO
Target Students: B.Teh in IT 6th Semester

Day	Time	Hour	Focus Area	Facilitator
Ashad 10, 2083	7:00 - 9:00 AM	2	Introduction to Digital Marketing & the Online Ecosystem	Arjan KC
Ashad 10, 2083	9:00 AM - 11:00 AM	2	SEO Fundamentals & On-Page Optimization	Arjan KC
11:00-11:15		Tea Break		
Ashad 10, 2083	11:15 AM- 1:15 PM	2	Technical SEO & Off-Page SEO	Arjan KC
Ashad 11, 2083	7:00 - 9:00 AM	2	Content Marketing, Social Media & SEM/PPC	Arjan KC
Ashad 11, 2083	9:00 AM - 11:00 AM	2	Analytics, Tools, Careers & Capstone Project	Arjan KC
Total		10	2 Hour Per Session	5 Session

Program E:
Basic Networking Workshop
Target Students: B.Tech in CS&AI and B.Tech in IT, 4th Semester

Day	Time	Hour	Topic	Facilitator
Ashad 10, 2083	7:00 - 9:00 AM	2	Introduction to Basic Networking Concepts	Kanchan Rai
Ashad 10, 2083	9:00 AM - 11:00	2	Networking Devices and Router Fundamentals	Kanchan Rai



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Day	Time	Hour	Topic	Facilitator
	AM			
11:00-11:15AM			Tea Break	
Ashad 10, 2083	11:15 AM- 1:15 PM	2	Hands-on Router Configuration	Kanchan Rai
Ashad 11, 2083	7:00 - 9:00 AM	2	Cabling and Clamping (LAN Cable Preparation)	Kanchan Rai
Ashad 11, 2083	9:00 AM - 11:00 AM	2	LAN Network Configuration and Troubleshooting	Kanchan Rai
Total		10	1 hour per session	5 session

(Signature)