

Ministry of Education, Science and Technology
NEPAL SCIENCE AND TECHNOLOGY INNOVATION INDICATOR 2026
Data Collection Form

A General Information

- 1) Name of Organization: Lumbini Technological University
Nepalgunj Sub Metropolitan-10, Lumbini Province,
info@ltu.edu.np, dean.niraj@ltu.edu.np, 081539601,
081539602
- 2) Address, Email and Contact No: _____
- 3) Website: https://ltu.edu.np/
- 4) Type of Organization: Government Lumbini Province University (Government)

B R&D Expenditure

F/Y 81/82 (Costs Incurred)	F/Y 82/83 (Budget Allocated)	Source of funds (national/ international)
0	1000000/-	National (LTU)

C Research/Technical Workforce

- 1) No. of researchers/technical human resources

Total Male Female

D Scientific Publications

- 1) Name of Journals published by the organization: **LTU Journal of Advanced Computing & Engineering (LTU-JACE)**
(List can be attached)
1. Thapa, L., & K.C., N. (2026). Identification of groundwater potential zones utilizing GIS, RS and AHP: A case study of Rupandehi District in Nepal. LTU Journal of Advanced Computing & Engineering, 1(1)
 2. Sharma, M., K.C., N., & Ghimire, N. (2026). Differential impact of key social media factors on consumer purchase decisions: Evidence from Nepal. LTU Journal of Advanced Computing & Engineering, 1(1)
 3. Bhandari, R. B., & Shahi, D. (2026). A fear of the digital era: Nomophobia and its prevalence among teachers and students. LTU Journal of Advanced Computing & Engineering, 1(1), page range.
 4. Khanal, P., & Regmi, S. (2026). Predicting toxicity of herbal and synthetic organic compounds using machine learning-based QSAR models. LTU Journal of Advanced Computing & Engineering, 1(1)
 5. Bhatt, B., Dhami, L., Bohara, R., Jagari, S., Joshi, S., Bhatt, S., Bohara, B. K., & Bhatt, T. P. (2026). A code-based comparison of seismic performance of regular and plan-irregular RC buildings using NBC 105:2020 and IS 1893:2016. LTU Journal of Advanced Computing & Engineering, 1(1)
 6. Jha, S., K.C., N., Regmi, S., & Gupta, P. (2026). AI as a global equalizer: How NEP 2020 can leverage artificial intelligence to bridge educational disparities. LTU Journal of Advanced Computing & Engineering, 1(1)
 7. KC, N. (2026). Youth voice, economic growth and Gen Z empowerment in Lumbini Province. LTU Journal of Advanced Computing & Engineering, 1(1)
 8. Bhatt, S. R., Bhatta, K. D., & Bohara, B. K. (2026). Predicting sustainable construction practices: A critical review of traditional Tharu mud house techniques in Kanchanpur, Nepal. LTU Journal of Advanced Computing & Engineering, 1(1)
 9. Shahi, N. B., Chand, P., & Gupta, P. (2026). Performance analysis of loan classification for commercial banks in neural network. LTU Journal of Advanced Computing & Engineering, 1(1)

10. Singh, M. K., Chaudhary, J. K., Chaudhary, K. K., Shah, S., Shrestha, R., & Khanal, P. (2026). Preparation of poly-herbal mouthwash and evaluation of antimicrobial activity against common oral pathogens. *LTU Journal of Advanced Computing & Engineering*, 1(1)
11. Joshi, B. R., Bhandary, N. P., Acharya, I. P., & K.C., N. (2026). Drone and electrical resistivity tomography (ERT) survey assisted slope instability risk assessment: A case study of phyllitic landslide in Lesser Himalayas of Nepal. *LTU Journal of Advanced Computing & Engineering*, 1(1)
12. Deo, A., Ayer, M., K.C., N., & Ghimire, N. (2026). PLAXIS 3D simulation and field validation of static load behaviour for bored pile foundations: A comparative study on technical accuracy and efficiency. *LTU Journal of Advanced Computing & Engineering*, 1(1)
13. Neupane, P., & Pokhrel, R. (2026). Construction and demolition waste (C&DW) management. *LTU Journal of Advanced Computing & Engineering*, 1(1)

2)	No. of research articles published in national journals in F/Y 81/82	0
		Q1: 0
		Q2: 0
3)	No. of research articles published in international journals in F/Y 81/82	Q3: 0
		Q4: 0
		Total: 0

E Infrastructure

1) **Research Laboratory, Facilities, Maker's Space, Incubator, accelerator, and more, Major equipment (attach list if needed)**

1. High processor computer laboratories
2. Engineering Laboratories (Servo-Controlled UTM, Shake Table)
3. Cloud Computing and Cyber Security Lab
4. AI/ML, Robotics & IoT Edge Lab (IT)
5. ICT Facilities
6. Library and academic research support facilities
7. High speed internet facilities
8. Tech Incubation Center
9. 3D printer (laser powder bed fusion); multi-material FDM and SLA for precision parts
10. Equipment (Thermal Camera, Thermocouple, Data Loggers, Ultrasonic Pulse Velocity and Ground Penetration Radar)

2) **Access to knowledge based resources like archives, data sources, journals, etc. (attach list if needed)**

1. ASCE (American Society of Civil Engineers) Digital Library
2. IEEE Xplore Digital Library and ACM Digital Library
3. Journal Subscriptions (ScienceDirect (Elsevier), Taylor & Francis, Springer, IEEE Xplore)
4. Software Licenses (Autodesk Suite, ETABS, SAP 2000, BIM Tools, ArcGIS Pro, Abacus, Ansys, Figma, turnitin plagiarism, Grammarly and Elicit Pro)

F Technology Development, transfer and commercialization

1) Name of Technology Developed

S.N.	Website Name	Description
1	Lumbini Technological University (LTU)	Official website of Lumbini Technological University providing university information, academic programs, notices, research activities, and institutional services.
2	LTU Entrance Portal	Online entrance examination and admission portal for applicants of Lumbini Technological University.
3	LTU Student Information System (SIS)	Digital student management platform for academic records, enrollment, results, attendance, and student-related services.
4	LTU ERP System	Enterprise Resource Planning (ERP) platform used for administrative, financial, academic, and institutional management activities.
5	Visitors – Purano Pana	Visitor management and digital interaction platform associated with Purano Pana for managing guest access and engagement.
6	LTU Conference Portal	Dedicated portal for conferences, seminars, workshops, paper submissions, registrations, and academic events organized by Lumbini Technological University.
7	LTU Staff Portal	Internal staff management portal for faculty and administrative personnel of Lumbini Technological University.

	8	Pathik Foundation	Non-profit organization platform focused on education, social development, community support, and humanitarian initiatives.
	9	Nepalgunj College	Official website of Nepalgunj College providing information about academic programs, admissions, notices, and campus activities.
	10	MeroUni	Community-driven academic and educational platform offering university-related resources, notes, updates, and digital learning support for students.
2)	Business or tech company originating from the research in the organization (List Name, type and amount of investment of these companies, if applicable)	Name and type of start up company:	Investment of company:
	No	No	No



Institute of Engineering & IT
DEAN