Graduate Program in Artificial Intelligence

AI with Purpose — From Algorithms to Impact

Master of Applied Science (MAS) | Doctor of Philosophy (PhD)

If you want to master artificial intelligence — not just learning algorithms, but building impactful AI solutions — then the Graduate Program in Artificial Intelligence at MBUST is for you.

Key Pillars

🎯 Strong Foundations. Real Applications.

- **Foundations:** ML, Deep Learning, Computer Vision, NLP
- **Domains:** Agriculture, Healthcare, Industrial Automation, Cybersecurity
- **Tools:** Programming & Data Science

🌍 AI with Purpose (SDG-Aligned)

- Research aligned with Sustainable Development Goals
- People-centered innovation & community impact
- Responsible AI: Ethics, fairness, and societal implications

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Advanced & Global Curriculum

- Generative AI, Diffusion Models & Bayesian ML
- Reinforcement Learning & Multi-Agent Systems
- Graph Analysis & Early Warning Systems

Beyond Technical Skills

- Entrepreneurship & Leadership Training
- Development Policy & Context
- Scientific Communication & Research Review

Program Structure

Feature	MAS (Master)	PhD (Doctorate)
Duration	2 Years	3 Years
Coursework & Electives	20+ credits	20+ credits
Thesis Credits	30 credits	50 credits
Group Projects	Yes	Yes
Focus	Applied Research	Advanced Research

Vision & Mission

MBUST views AI not as hype, but as essential infrastructure for national development. We are strengthening Nepal's AI ecosystem by producing skilled scientists and entrepreneurs ready to lead innovation globally.

Career Outcomes

🔬
AI Scientists & Researchers

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Machine Learning Engineers

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AI Consultants

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| Data Analytics Specialists | Tech Entrepreneurs | Academic Faculty |

Banking   Healthcare   Agriculture   Telecom   Academia

Who Should Apply

- ✓ Has strong foundations in mathematics and programming
- ✓ Cares about ethical and societal impacts of technology
- ✓ Wants to design real-world AI solutions
- ✓ Aspires to lead AI initiatives in Nepal or globally

Madan Bhandari University of Science and Technology

Chitlang, Nepal

www.mbust.edu.np