



नागालैण्ड विश्वविद्यालय
NAGALAND UNIVERSITY

(संसद द्वारा पारित अधिनियम 1989, क्रमांक 35 के अन्तर्गत स्थापित केंद्रीय विश्वविद्यालय)
(A Central University established by an Act of Parliament No. 35 of 1989)

मुख्यालय : लुमामी, कोहिमा परिसर (मेरिएमा), पिन कोड – 797004
Hqrs : Lumami, Kohima Campus (Meriema), Pin Code – 797004

वेबसाइट /Website : www.nagalanduniversity.ac.in

NU/SET/AET/ACD/2021- 1045

Date: 28.07.2025

NOTIFICATION

It is hereby informed that the Department of Agricultural Engineering & Technology has shortlisted the following candidates for Ph.D entrance examination for Autumn session 2025 followed by an interview/presentation at the School of Engineering and Technology, Nagaland University, Meriema, Kohima Campus on 07.08.2025.

Sl. No.	Name	Application Form No.	M.Tech Specialization	Remarks
1	Mr. Amir Ansari	NU250000979	Farm Machinery and Power Engineering	Eligible for the entrance exam
2	Mr. Menangnochet Jamir	NU250002398	Soil and Water Engineering	Eligible for the entrance exam
3	Mr. Kalpataru Kar	NU250002153	Stochastic Hydrology, Planning and Manage	Not Eligible for the entrance exam (No B. Tech degree in Agriculture Engineering)

Details of the entrance examination & interview are as follows.

- Venue:** School of Engineering and Technology (SET) building, Nagaland University, Meriema, Kohima Campus, Nagaland
- Date:** 07.08.2025. **Time:** 10:00 am onwards
- Total mark of entrance examination: 70. Total mark of interview/presentation: 30
- The question paper of the entrance examination will be based on the research methodology and specialization of M.Tech. (Soil and Water Engineering OR Farm Machinery and Power Engineering)
- Candidate has to present his tentative research plan/topic in ppt (minimum 5 nos. of slides).

Enclosure: Syllabus for entrance exam.

Yours sincerely,

Prabhakar Sharma

HoD & Professor
AET, SET-NU

SYLLABUS FOR ENTRANCE EXAMINATION

Research Methodology: Introduction, Meaning of Research, Objectives of Research, Motivation in Research, Types of Research, Research Approaches, Significance of Research, Research Methods versus Methodology, Research Process, Criteria of Good Research, Common Problems for Researchers (Compulsory)

Soil & Water Engineering: Soil water types, retention concepts, movement, capillary action, factors affecting soil moisture content, irrigation methods, role in water conservation, evapotranspiration, factors influencing the selection of irrigation systems, principles of subsurface drainage, types of drainage systems, adverse effects of poor drainage, agricultural land drainage system. (Elective)

Farm Machinery & Power Engineering: Sources of farm power, internal combustion engines, and their systems; Tractor systems- Transmission, hydraulics, hitching, and performance testing; Farm machinery for soil preparation, sowing, planting, and intercultural operations; Harvesting, threshing, post-harvest machinery, and horticultural equipment; Mechanization, automation, and precision agriculture technologies; Ergonomics, safety, and renewable energy in farm operations. (Elective)