NAGALAND UNIVERSITY

(A Central University established by an Act of Parliament No. 35 of 1989)

SCHOOL OF AGRICULTURAL SCIENCES

Medziphema Campus, Medziphema - 797106 : Nagaland

PROSPECTUS

2023-2024

NAGALAND UNIVERSITY

(A Central University established by an Act of Parliament No. 35 of 1989)

SCHOOL OF AGRICULTURAL SCIENCES

Medziphema Campus, Medziphema - 797106 : Nagaland

Visitor	: Smti. Droupadi Murmu Hon'ble President of India
Rector	: Shri. La Ganesan Hon'ble Governor of Nagaland
Chancellor	: Vacant
Vice-Chancellor	: Prof. Jagadish K Patnaik
Pro-Vice Chancellor	: Prof. Akali Sema
Dean	: Prof. L. Daiho

From the Pro Vice- Chancellor's Desk

School of Agriculture Sciences (SAS), Medziphema campus has of late been attracting a lot of students from across the country to pursue their degrees. This is all due to the sincere efforts and dedication of the teachers, staffs and authority working as a team for the students in particular and the society in general.

SAS has been catering to the need of the human resources in the state, region and the country and has been playing a pivotal role in areas of researches, extension activities as well as collaborating and facilitating various schemes and projects of the state and central government. It is indeed an honor to be serving this School and University in different position from being a student of this School (Erstwhile College of Agriculture, NEHU) in the eighties to becoming a teacher in 1989 and now as in charge of the campus. Most of the students of the school are excelling in many areas of Agri. & Allied sectors all over the country and even abroad.

Therefore, it is a proud moment for me to pen down this short message for yet another publication of prospectus of our school, which is moving forward to become a prominent institute of higher learning not just in the state of Nagaland or North East but across the nation and beyond. This prospectus will give an insight into all the much needed information about the school and its various activities including the detail process of getting admission into the school. I am sure this publication will give all clarity enabling the readers to make right decision for the future.

I extend my sincere gratitude to the team who took all the pain of meticulously compiling and editing all information to bring out this prospectus for the benefit of the indenting candidates.

With warm regards

Prof. AKALI SEMA
Pro Vice Chancellor
SAS, NU

From the Dean's Desk

I am happy that the School of Agricultural Sciences (SAS), Nagaland University, Medziphema Campus, is bringing out yet another PROSPECTUS for the new Academic Session 2023-2024. This is an indication of growth of the University Campus from strength to strength as years goes by. In this Prospectus, the School brings out information of what we have and what we offer. SAS is considered Mini India, in the sense that students from various parts of India come and study here. Every year, we admit new batch of students in various degree courses, such as B. Sc. (Hons.) Ag. of 4-years degree course, M. Sc. (Ag) 2 years degree course and Ph.D. of minimum 3 years degree courses. We are also happy to announce the addition of the new Department of Vocational Studies and Skill Development which is three years degree course from the Academic session 2022-2023.

Every year, the School produces well refined under Graduates, Post-Graduates and Ph.D. degree holders of various disciplines. One of the prides of our School is the Alumni members who are well placed in society as political leaders, bureaucrats, top technical officials of Agri and Allied departments at state and national level, professionals, secretariats entrepreneurs, and leaders in private companies in different states of the country and at global level.

We also acknowledge the hard work put in by the Committee in making some important changes as required and making the Prospectus more informative.

I wish the School of Agricultural Sciences all the very best!

Prof. L. Daiho
Dean

About Us

NAGALAND UNIVERSITY

Nagaland University (a Central University) was established in 1994 through an act passed by the parliament vide No. 35 in 1989 with its Headquarters at Lumami, Zunheboto district. Besides, it has two other campuses, i.e., Kohima Campus at Meriema, Medziphema Campus with School of Agricultural Sciences (SAS), and an interim campus at Dimapur with the School of Engineering & Technology (SET). Currently there are Seven Schools and Forty Four Departments.

SCHOOL OF AGRICULTURAL SCIENCES, MEDZIPHEMA CAMPUS

The School of Agricultural Sciences(SAS) is a premier institute in the field of Agriculture in North Eastern Hill Region of India. It is one of the Seven Schools of Nagaland University and located at Medziphema in the foothills of the Pauna range under Chumoukedima District. The Campus is 45 kms from Kohima (Capital of Nagaland) and 32 kms away from Dimapur, a commercial hub of Nagaland which is well connected with road, rail and air to other parts of India.

The School was established as College of Agriculture under the erstwhile North Eastern Hill University (NEHU) on 20th October, 1978, offering only Bachelors degree in Agriculture, which was later upgraded to School of Agricultural Sciences(SAS) in 1985 with the initiation of post graduate degree programmes in various disciplines of Agriculture. The School became an integral part of Nagaland University in 1994. The name of the school has now been changed to School of Agricultural Sciences (SAS) since January, 2023 as per NU ordinance.

CLIMATE

The climate of Medziphema is pleasant all year round. The winter lasts for about four months viz., November to February while summer starts by March/April. Heavy rainfall occurs between June- August.

OBJECTIVES

The School works in line to fulfil the mission of the University by focusing on the following objectives

- To disseminate advanced knowledge through teaching, research and extension in the field of agricultural sciences and allied disciplines.
- To develop skill oriented vocational courses for self employment in agriculture and allied sectors.
- To take appropriate measures for promoting innovations in teaching-learning process and research in order to educate and equip human re-sources in the field of agriculture & allied sectors.
- To provide technical knowledge through hands-on training and field demonstrations to the farming community.
- To promote sustainable agriculture for the hill region.

Medium of Instruction and communication is strictly in English.

ACADEMIC DEPARTMENTS

- Agricultural Economics
- Agricultural Engineering
- Agricultural Extension Education
- Agronomy
- Entomology
- Genetics and Plant Breeding
- Horticulture
- Livestock Production and Management
- Plant Pathology
- Rural Development and Planning
- Soil Science
- Soil and Water Conservation
- Vocational Studies and Skill Development

INTERNATIONAL STUDENTS (NRI & Non-NRI)

Guidelines for Admission, Eligibility Criteria, Role of the University,Declaration and Application forms are available on the Nagaland University website (*http://www.nagalanduniversity.ac.in*) and with the respective Education Ministry/Embassy of the sponsoring country.

RESERVATION POLICY

Reservation in courses offered by Nagaland University shall be as per the laid down norms/rules of GOI and Nagaland University.

ACADEMIC PROGRAMMES AND STUDENTS INTAKE:

The School offers academic programmes based on ICAR course credit system for the various degree programmes

B.Sc.(Hons.)Agriculture Programme

B.Sc. (Hons.) Ag. Degree Programme

The School offers B.Sc. (Hons.) Agriculture 4 Years (8 semesters) course degree programme covering a total of 176 credit hours including STUDENT READY Programme (Rural Awareness Work Experience Programme (RAWEP), Industrial attachment and Experiential Learning Programme). The School also offers B.Voc of 3 years (6 Semester) course degree programme covering a total of 180 credit hours(60% Skill Component and 40% General Education) including Internship at different level of programme i.e Diploma, Advance Diploma & Degree Programme.

SELECTION AND ADMISSION

The total intake capacity in each Academic session is 75 students with distribution of seats in respective quota as follows:

ICAR	**:**	**20%**	**Mizoram**	**:**	**04**
Meghalaya	**:**	**04**	**Arunachal Pradesh**	**:**	**04**
Tripura	**:**	**04**	**University Quota**	**:**	**08**
Assam	**:**	**01**	**High Fee Category**	**:**	**05**
Nagaland	**:**	**31**			

Each State/Organisation will select their own candidates as per the National reservation policy.

ELIGIBILITY:10+2 science with Physics, Chemistry and Biology/ Physics, Chemistry & Mathematics/ 10+2 Agriculture (Physics, Chemistry and Agriculture) or equivalent with 50% marks for General and OBC candidates, and 45% marks for SC/ST/PWDs candidates in aggregate.

ICAR QUOTA: The candidates shall be admitted as per nomination received from ICAR.

STATE QUOTA

Nomination of candidates for admission under State Quota is made as per the selection of candidates through their respective state Government's Entrance Examinations procedure on receipt of the list of nominated candidates from respective State Government, admission formalities are completed by the school as per eligibility criteria.

UNIVERSITY QUOTA

University quota is meant for children (Sons/Daughters) and spouse of Naga-land University employees. Candidates desirous to seek admission under the Quota should submit their application to the DEAN, SAS, Medziphema with all required documents. Selection is done purely on Merit basis.

HIGH FEE CATEGORY

Under the High Fee Category, selection will be based strictly on Merit or evaluation procedure developed by the admission committee of the school.

PHYSICAL FITNESS:

Admission shall be subject to the candidates producing medical fitness certificate obtained from the University. A Medical Board will be constituted for this purpose by the School authority. Person with disabilities(PWD) having low vision or hearing impairment with at least 40% disability are required to produce medical certificate from Govt. Medical Officer certifying the nature and extent of the disability which will be further verified by the university officials.

PAYMENT OF FEES

The candidates selected for admission has to apply online for the seat along with all necessary documents including respective quota nomination letter or family declaration in case of University Quota in the application form available on the Nagaland University website.

Payment of Admission fees for the qualified candidates will be online only.

REGISTRATION IN VARIOUS COURSES

Physical presence of the candidate is mandatory for course registration. Every student has to fill up prescribed course registration forms (5 copies) and the duly filled in course registration forms, completed in all aspects must be submitted to respective sections/authorized persons within seven (7) days failing which, the candidate will not be allowed to sit for any exams.

ORIENTATION

Every student has to attend the orientation class compulsorily on specified date(s) as announced by the school authority.

COURSE DURATION AND STRUCTURE

Duration of course : 4 years (8 semesters)
Total Credits Hours : 176
Course Credits Hours: 136
Student READY Programme Credit Hours :40
-Component-1: ELP Credit Hours :20
-Component-2: AIA & RAWEP Credit Hours :20 (10+10)

For B.Voc (Horticultural Technology and Food Processing)

Duration of course : 3 years (6 semesters)
Total Credits Hours : 180
a) General Education - 40%
b) Skill Component - 60%

EVALUATION:

The performance of the student in a particular course is evaluated and expressed in 10 point grading scale as stated below-

Marks (%)	Point/Grade
100	**10**
99	**9.9**
98	**9.8**
75	**7.5**
55	**5.5 (Minimum pass mark in a course)**

The performance of a student in the examination is finally calculated on the basis of Overall Grade Point Average (OGPA) on 10 point grading scale as given below-

OGPA	**Division**
7.50 OGPA and above	: 1st Division.
6.00 OGPA and below 7.50 OGPA	: 2nd Division.
Below 6.00 OGPA	: Fail

ELIGIBILITY

B.Voc. in Horticultural Technology : 10+2 (Science) Min 50%Marks (GEN/OBC) and 45%Marks (SC/ST)
B.Voc. in Food Processing : 10+2 (Any Stream) Min 50%Marks (GEN/OBC) and 45%Marks (SC/ST)

COURSES OFFERED

B.Sc. (Hons.) Ag.			
Semester - I			
Sl.No	**Course No.**	**Course Title**	**Credit Hours**
1	LPM-101	Livestock & Poultry Management	2(1+1)
2	GPB-101	Fundamentals of Genetics	3(2+1)
4	PLP- 101	Agricultural Microbiology	2(1+1)
5	HOR-101	Fundamentals of Horticulture	2(1+1)
6	EXT-101	Rural Sociology & Educational Psychology	2(2+0)
7	AGR-101	Fundamentals of Agronomy	3(2+1)
8	ACS-101	Fundamentals of Soil Science	3(2+1)
9	AEC-101	Statistical Methods.	2(1+1)
10	GPB-103/ AGE-MAT-101(RC)	Introductory Biology*	2(1+1)
		'OR'	
		Elementary Mathematics*	2(2+0)
11	RDP-101(RC)	Agricultural Heritage	1(1+0)
12	NSS-101 (NC)	NSS/NCC/Physical Education & Yoga Practices**	2(0+2)

Semester - II			
Sl.No	**Course No.**	**Course Title**	**Credit Hours**
1	GPB-102	Fundamentals of Plant Breeding	3(2+1)
2	GPB-104	Fundamentals of Crop Physiology	2(1+1)
3	ENT-102	Fundamentals of Entomology	3(2+1)
4	PLP-102	Fundamentals of Plant Pathology	4(3+1)
5	AGE-102	Introductory Soil & Water Conservation Engineering	2(1+1)
6	AEC-102	Agri-Informatics	2(1+1)
7	HOR-102	Introduction to Forestry	2(1+1)
8	EXT-102	Fundamentals of Agricultural Extension Education.	3(2+1)
9	AGR-102	Introductory Agro-meteorology & Climate Change.	2(1+1)
10	ACS-102	Fundamentals of Biochemistry	2(1+1)
11	EXT-104(NC)	Comprehension & Communication Skills in English.	2(1+1)

Semester - III			
Sl.No	**Course No.**	**Course Title**	**Credit Hours**
1	AGR-201	Crop production technology -I (Kharif crops)	3(2+1)
2	AEC-201	Agricultural Finance and Co-operation	3(2+1)
3	AGE-201	Farm Machinery and Power	2(1+1)
4	HOR-201	Production Technology of Vegetables and Spices	2(1+1)
5	HOR-203	Production Technology of Fruits & Plantation Crops	2(1+1)
6	SWC-201	Environmental Studies and Disaster Management	3(2+1)
7	LPM-201	Swine Production and Management	2(1+1)
8	GPB-201	Fundamentals of Plant Biotechnology	2(2+0)
9	EXT -201	Communication Skills and Personality Development	2(1+1)
10	AEC- 203	Fundamentals of Agricultural Economics.	2(2+0)
11	PLP -201	Diseases of Field and Horticultural Crops and their Management	3(2+1)
12	EXT-203**(NGC)**	Human values & Ethics	1(1+0)

Semester - IV			
Sl.No	**Course No.**	**Course Title**	**Credit Hours**
1	HOR-202	Production Technology of Ornamental Crops, MAP and Landscaping	2(1+1)
2	AEC-202	Agricultural Marketing, Trade & Prices	3(2+1)
3	AGE-202	Renewable Energy and Green Technology	2(1+1)
4	AGR-202	Crop Production Technology-II (Rabi crops)	2(1+1)
5	ENT-202	Pest of Horticultural crops and their Management.	2(1+1)
6	GPB-202	Crop Improvement	3(2+1)
7	PLP-202	Diseases of Field & Horticultural Crops and their Management-II	3(2+1)
8	ACS-202	Problematic Soil and their Management	2(2+0)
Elective Courses#			
1	EXT-202	Agricultural Journalism	3(2+1)
2	HOR-204	Landscaping	3(2+1)
3	AGR-204	Modern concepts in water management	3(2+1)
4	AGE-204	Fundamentals of irrigation engineering	3(2+1)

Semester - V			
Sl.No	**Course No.**	**Course Title**	**Credit Hours**
1	ACS-301	Manures, Fertilizers and Soil Fertility Management	3(2+1)
2	ENT -301	Pests of field Crops, Stored grains and their Management	2(1+1)
3	PLP- 301	Principles of integrated Pest and Disease Management	3(2+1)
4	GPB-301	Principles of Seeds Technology	3(2+1)
5	AGR-301	Geo-informatics and Nano-technology and Precision Farming	2(1+1)
6	HOR-303	Principles of Food Science & Nutrition	2(2+0)
7	AGR-303	Practical Crop Production-I(*Kharif crops*)	1(0+1)
8	AGR-30 5	Weed management	2(1+1)
9	AGR-307	Farming System & Sustainable Agriculture	1(1+0)
Elective Courses#			
1	AGE-301	System Simulation and Agro-advisory	3(2+1)
2	HOR-305	Micro-propagation Technology	3(2+1)
3	GPB-303	Commercial Plant Breeding	3(2+1)
4	ACS-303	Agro-chemicals	3(2+1)

Semester - VI			
Sl.No	**Course No.**	**Course Title**	**Credit Hours**
1	AEC-302	Farm Management, Production and Resource Economics	2(1+1)
2	AGE-302	Protection cultivation and Secondary Agriculture	2(1+1)
3	AGR-302	Rainfed Agriculture & Watershed Management	2(1+1)
4	AGR-304	Practical Crop Production-II (Rabi crops)	1(0+1)
5	AGR-306	Principles of Organic Farming	2(1+1)
6	EXT-302	Entrepreneurship Development & Business Communication	2(1+1)
7	HOR-302	Post Harvest Management and Value Addition of Fruits & Vegetables	2(1+1)
8	ENT-302	Management of beneficial Insects	2(1+1)
9	GPB-302	Intellectual Property Rights	1(1+0)
Elective Courses#			
1	PLP-304	Bio-pesticides and Bio-fertilizers	3(2+1)

2	HOR-304	Protected Cultivation	3(2+1)
3	AGE-304	Remote Sensing and GIS Application in Watershed Management	3(2+1)
4	AEC-304	Agriculture-business management	3(2+1)

Semester - VII			
Sl.No	**Course No.**	**Course Title**	**Credit Hours**
1	ELP-1	Mushroom Cultivation Technology	10(0+10
2	ELP-2	Commercial Sericulture	10(0+10
3	ELP-3	Poultry Production Technology	10(0+10)
4	ELP-4	Plant Propagation and Nursery Management	10(0+10)
5	ELP-5	Post Harvest Management and Value Addition	10(0+10)
6	ELP-6	Dairy Production Technology	10(0+10)
7	ELP-7	Organic Cultivation	10(0+10
8	ELP-8	Commercial Apiculture	10(0+10

Semester - VIII			
Sl.No	**Course No.**	**Course Title**	**Credit Hours**
1	AIA-402	Placement to Agro Industries	0+7
2	AIA-404	All India Study Tour	0+2
3	AIA-406	Comprehensive report submission & Oral presentation	0+1
4	RAWEP- 402	Survey of Village & Host farmers.	0+1
5	RAWEP- 404	Agronomical interventions of leading agronomical crop production.	0+2
6	RAWEP- 406	Fruit and vegetable production/processing/storage interventions of important fruit/vegetables/crops.	0+2
7	RAWEP- 408	Extension and Transfer of Teaching Activities.	0+2
8	RAWEP- 410	Soil Improvement Interventions.	0+1
9	RAWEP- 412	Plant Protection Intervention	0+1
10	RAWEP- 414	Livestock production & Management interventions	0+1

B.VOC. IN FOOD PROCESSING

SEMESTER - I

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	Credits			TOTAL CREDIT HRS
				L	T	P	
1	FPT-101	Introduction of unit operations in food processing	Gen Ed	3	1	0	4
2	FPT-102	Food science and nutrition	Gen Ed	3	1	0	4
3	FPT-103	Introduction to food microbiology	Gen Ed	3	1	0	4
4	FPT-104	Introduction to food quality management	Gen Ed	3	1	0	4
5	FPT-105	Communication skills	Gen Ed	2	0	0	2
6	FPT-106	Environmental studies	Gen Ed	2	0	0	2
7	FPT-107	Disaster management	Gen Ed	2	0	0	2
8	FPT-108	Entrepreneurial skill	Gen Ed	2	0	0	2
9	FPT-110	Practical on food product processing, preparation and development	Skill	0	0	6	6
				20	**4**	**6**	**30**

SEMESTER - II

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	Credits			TOTAL CREDIT HRS
				L	T	P	
1	FPT-120	Internship in food processing-i	Skill	0	0	30	30
		Total		0	0	30	**30**

SEMESTER - III

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	Credits			TOTAL CREDIT HRS
				L	T	P	
1	FPT-201	Food processing equipment	Gen Ed	3	1	0	4
2	FPT-202	Processing of fruits and vegetables	Gen Ed	3	1	0	4
3	FPT-203	Processing of cereal pulses and oil seed	Gen Ed	3	1	0	4
4	FPT-204	Dairy technology	Gen Ed	3	1	0	4
5	FPT-205	Introduction to computer application	Gen Ed	2	0	0	2
6	FPT-206	Project management and entrepreneurship	Gen Ed	2	0	0	2
7	FPT-207	Basic food chemistry	Gen Ed	2	0	0	2
8	FPT-208	Values and professional ethics	Gen Ed	2	0	0	2
9	FPT-210	Practical on food processing	Skill	0	0	6	6
				20	4	6	**30**

SEMESTER - IV

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	Credits			TOTAL CREDIT HRS
				L	T	P	
1	FPT-220	Internship in food processing-ii	Skill	0	0	30	30
				0	0	30	**30**

SEMESTER - V

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	Credits			TOTAL CREDIT HRS
				L	T	P	
1	FPT-301	Post-harvest management of fruits and vegetables	Gen Ed	3	1	0	4
2	FPT-302	Food laws and regulations	Gen Ed	3	1	0	4
3	FPT-303	Processing of meat, fish and poultry	Gen Ed	3	1	0	4
4	FPT-304	Food beverage technology	Gen Ed	3	1	0	4
5	FPT-305	Introduction to food packaging, storage and logistic	Gen Ed	2	0	0	2
6	FPT-306	Quality assurance and certification	Gen Ed	2	0	0	2
7	FPT-307	Bakery and confectionery products	Gen Ed	2	0	0	2
8	FPT-308	Personality development	Gen Ed	2	0	0	2
9	FPT-310	Practical on beverages and processed foods	Skill	0	0	6	6
				20	4	6	**30**

SEMESTER - VI

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	Credits			TOTAL CREDIT HRS
				L	T	P	
1	FPT-320	Internship in food processing-iii	Skill	0	0	30	30
				0	0	30	**30**
							180

B.VOC. IN HORTICULTURE TECHNOLOGY

SEMESTER - I

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	CREDITS			TOTAL CREDIT
				L	T	P	
1	HRT-101	Fundamental of horticulture	Gen.edu.	3	1	0	**4**
2	HRT-102	Propagation and nursery management techniques of horticultural crops	Gen.edu.	3	1	0	**4**
3	HRT-103	Environmental studies	Gen.edu.	3	1	0	**4**
4	HRT-104	Entrepreneurial skill	Gen.edu.	3	1	0	**4**
5	HRT-105	Fundamental of information technology	Gen.edu.	2	0	0	**2**
6	HRT-106	Production technology of horticulture crops	Gen.edu.	2	0	0	**2**
7	HRT-107	Communication skills & personality	Gen.edu.	2	0	0	**2**
8	HRT-108	Micro- propagation techniques	Gen.edu.	2	0	0	**2**
9	HRT-110	Practical's on plant propagation & nursery management techniques	Skill	0	0	6	**6**
			Total	20	4	6	**30**

SEMESTER - II

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	CREDITS			TOTAL CREDIT
				L	T	P	
1	HRT-120	Internship in plant propagation & nursery management techniques	Skil	0	0	30	**30**

SEMESTER - III

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	CREDITS			TOTAL CREDIT
				L	T	P	
1	HRT-201	Basic principles & practices og green house production of horticulture crops	**Gen.edu.**	3	1	0	**4**
2	HRT-202	Prospects & principles of protected horticulture	**Gen.edu.**	3	1	0	**4**
3	HRT-203	Types & designs of gree house	**Gen.edu.**	3	1	0	**4**
4	HRT-204	Substrate, nutrients & micr-irrigation in protected cultivation	**Gen.edu.**	3	1	0	**4**
5	HRT-205	IPM in protected production system	**Gen.edu.**	2	0	0	**2**
6	HRT-206	Micro-irrigation & fertigation technology	**Gen.edu.**	2	0	0	**2**
7	HRT-207	Business communication	**Gen.edu.**	2	0	0	**2**
8	HRT-208	Fundamentals of organic agriculture	**Gen.edu.**	2	0	0	**2**
9	HRT-210	Practical's on protected cultivation	**Skill edu.**	0	0	6	**6**
			Total	20	4	6	**30**

SEMESTER - IV

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	CREDITS			TOTAL CREDIT
				L	T	P	
1	HRT-220	Internship in protected cultivation	Skill edu.	0	0	30	**30**

SEMESTER - V

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	CREDITS			TOTAL CREDIT
				L	T	P	
1	HRT-301	Horticulture crop marketing	**Gen.edu.**	3	1	0	**4**
2	HRT-302	Business management	**Gen.edu.**	3	1	0	**4**
3	HRT-303	Introduction of hydroponics	**Gen.edu.**	3	1	0	**4**
4	HRT-304	Nutrient & water management in hydroponics	**Gen.edu.**	3	1	0	**4**
5	HRT-305	Green house operation & management	**Gen.edu.**	2	0	0	**2**
6	HRT-306	Hydroponics in vegetable production	**Gen.edu.**	2	0	0	**2**
7	HRT-307	Hydroponics in flower production	**Gen.edu.**	2	0	0	**2**
8	HRT-308	Practical's on hydroponics	**Skill edu.**	0	0	6	**6**
			Total	20	4	6	**30**

SEMESTER - VI

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	CREDITS			TOTAL CREDIT
				L	T	P	
1	HRT-320	Internship in hydroponics	**Skill edu.**	0	0	30	**30**

	L	T	P	TOTAL
Total Credit Hrs(180)	**60**	**12**	**108**	**90**

M.Sc. (Ag.) Programme

M.Sc. (Ag.) DEGREE PROGRAMMES:

The admission to the M.Sc. (Ag.)/M.Sc. (Hort.) programme is offered in the following disciplines:

- Agricultural Economics
- Agricultural Extension Education
- Agronomy
- Entomology
- Genetics and Plant Breeding
- Livestock Production and Management
- Plant Pathology
- Soil Science
- Soil and Water Conservation
- Vegetable Science
- Fruit Science
- Floriculture and Landscape Architecture
- Plantation, Spices, Medicinal and Aromatic Crops
- M.Voc. in Entrepreneurship

DURATION

The programme is of minimum 2 years (4 semesters) and a maximum of 4 years (8 semesters) duration.

ELIGIBILITY

For M.Sc(Ag.)

1. Candidates must possess a B.Sc.(Hons)Ag./ B.Sc.(Hort.) Degree from any UGC/ICAR recognized Institution/University with minimum OGPA as follows.

GRADING SYSTEM	GENERAL CANDIDATE	SC/ST CANDIDATE
10.00	6.50	6.00
5.00	3.25	3.00
4.00	2.60	2.40

2. Candidates with B.Sc. (Hort.) are eligible for admission in all M.Sc. (Ag.) Programme. (except **Agronomy & Livestock Production & Man agement**)

However, they have to complete the deficiency courses as decided by concerned department.

For M.Voc : Candidates must possess a B.Voc Degree from any UGC/ICAR/AICTE recognized Institution/University

TOTAL NUMBER OF SEATS AND RESERVATION

The total intake capacity in each discipline with reservation is as follows**(Authority may increase or decrease the intake capacity based on resources and infrastructure availability)-**

Sl.No	Department	Total
1	Agricultural Economics	12
2	Agricultural Extension Education	12
3	Agronomy	12
4	Entomology	12
5	Genetics and Plant Breeding	12
6	Horticulture	20
7	Livestock Production and Management	12
8	Plant Pathology	12
9	Soil Sciences	12
10	Soil and Water Conservation	12
	Total	**128**

*** M.Voc in Entrepreneurship : 20 Seats**

SELECTION AND ADMISSION

The candidates will be required to apply online along with all necessary documents in the application form available on the Nagaland University website(www.nagalanduniversity.ac.in). An Entrance Examination will be conducted after which the selected candidates will appear for counselling on the stipulated date announced by the school. In case where percentage of marks equivalent to OGPA is not given on the transcript, the candidate will have to submit a certificate from the concerned Principal/Dean/Registrar of the College/School/University last attended indicating clearly the percentage of marks obtained. **Candidates will need to bring their original certificate for verification during counselling.**

Note: Counselling for Admission does not guarantee a seat in Master Degree programme in agriculture.

PHYSICAL FITNESS

Admission shall be subject to the candidates producing medical fitness certificate obtained from the University. A Medical Board will be constituted for this purpose by the School authority. Person with disabilities(PWD) having low vision or hearing impairment with at least 40% disability are required to produce medical certificate from Govt. Medical Officer certifying the nature and extent of the disability which will be further verified by the university officials.

PAYMENT OF FEES: see Annexure-1

REGISTRATION IN VARIOUS DISCIPLINES:

Physical presence of the candidate is mandatory for registration. Every candidate has to fill up prescribed courses registration form (5 copies) and the duly filled in course registration forms, completed in all respect must be submitted to respective sections within fifteen (15) days from the date of admission failing which the admission will be cancelled.

ORIENTATION

Every student has to attend orientation class compulsorily.

CREDIT REQUIREMENTS FOR MASTERS' PROGRAMMES

Duration of course	: 2 years (4 semesters)
Total credits	: 70 (40 + 30)
Major Course Credit Hours	: 20
Minor Course credit Hours	: 08
Supporting Courses credit Hours	: 06
Seminar credit hours	: 01
Research credit Hours	: 30
Common Courses	: 05

For M.Voc

Duration of course	:	2 years (4 semesters)
Total Credits Hours	:	120
		a) General Education - 40%
		b) Skill Component - 60%

EXAMINATION AND EVALUATION

Semester system with internal/external evaluation is currently in practice. Examination comprises of Quizzes/Assignments, Mid-Term, Practical and End-Term.

The performance of the student in a particular course is evaluated and expressed in 10 point grading scale as stated below-

Marks (%)	Point/Grade
100	**10**
99	**9.9**
98	**9.8**
75	**7.5**
60	**6.0 (Minimum pass mark in a course)**

The performance of a student in the examination is finally calculated on the basis of overall Grade Point Average (OGPA) on 10 point grading scale.

OGPA	**Division**
7.50 OGPA and above	: 1st Division.
6.50 OGPA and below 7.50 OGPA	: 2nd Division.
Below 6.50 OGPA	: Fail

M.Sc. (Ag.)

Common Course (05 Credits)			
Sl. No.	**Course Code**	**Course Title**	**Credit Hours**
1	PGS-501	Library and information services	1(0+1)
2	PGS-502	Technical writing and communication	1(0+1)
3	PGS-503	Intellectual property and its management in agriculture	1(1+0)
4	PGS-504	Basic concepts in laboratory techniques	1(0+1)
5	PGS-505	Agricultural research, research ethics	1(1+0)

M.Sc. (Ag.) in Agricultural Economics			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	AEC-501*	Micro economic theory and applications	3 (3+0)
2	AEC-502*	Agricultural production economics	2 (1+1)
3	AEC-503*	Agricultural marketing and price analysis	3 (2+1)
4	AEC-504*	Macro economics and policy	2 (2+0)
5	AEC-505*	Econometrics	3 (2+1)
6	AEC-506	Agricultural development and policy analysis	2 (2+0)
7	AEC-507*	Agricultural finance and project management	3 (2+1)
8	AEC-508*	Linear programming	2 (1+1)
9	AEC-509*	Research methodology for social sciences	2(1+1)
10	AEC-510	Indian economy: history and contemporary issues	2 (2+0)
11	AEC-511	International economics	2(1+1)
12	AEC-512	Institutional economics	1(1+0)
13	AEC-513	Natural resource and environmental economics	2(1+1)
14	AEC-514	Commodity future trading	2(2+0)
15	AEC-515	Development economics	2 (2+0)
16	AEC-516	Rural marketing	2(2+0)
17	AEC-517	Evolution of economic thought	1(1+0)
18	AEC-518	Computer applications for agri-business and economics	3(2+1)
19	AEC-519	Statistical methods for applied/socialsciences	3(2+1)
20	AEC-520	Mathematics for applied sciences/agricultural economics	3(2+1)
21	AEC-591	Master's seminar	1(0+1)
22	AEC-599	Master's research	30(0+30)

**Compulsory among major courses*

M.Sc. (Ag.) in Agricultural Extension Education			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	EXT-501*	Extension landscape	2(2+0)
2	EXT-502*	Applied behaviour change	3(2+1)
3	EXT-503*	Organisational behaviour and development	3(2+1)
4	EXT-504*	Research methodology in extension	3(2+1)
5	EXT-505*	Capacity development	3(2+1)
6	EXT-506*	ICTs for agricultural extension and advisory services	3(2+1)
7	EXT-507*	Evaluation and impact assessment	3(2+1)
8	EXT-508	Managing extension organisations	3(2+1)
9	EXT-509	Enabling innovation	2(1+1)
10	EXT-510	Gender mainstreaming	3(2+1)
11	EXT-591	Master's seminar	1(0+1)
12	EXT-599	Master's research	30(0+30)

**Compulsory among major courses*

M.Sc. (Ag.) in Agronomy			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	AGRON-501*	Modern concepts in crop production	3(3+0)
2	AGRON-502*	Principles and practices of soil fertility and nutrient management	3(2+1)
3	AGRON-503*	Principles and practices of weed management	3(2+1)
4	AGRON-504*	Principles and practices of water management	3(2+1)
5	AGRON-505	Conservation agriculture	2(1+1)
6	AGRON-506	Agronomy of major cereals and pulses	2(2+0)
7	AGRON-507	Agronomy of oilseed, fibre and sugar crops	3(2+1)
8	AGRON-508	Agronomy of medicinal, aromatic & underutilized crops	3(2+1)
9	AGRON-509	Agronomy of fodder and forage crops	3(2+1)
10	AGRON-510	Agrostology and agro- forestry	3(2+1)
11	AGRON-511	Cropping system and sustainable agriculture	2(2+0)
12	AGRON-512	Dryland farming and watershed management	3(2+1)
13	AGRON-513	Principles and practices of organic farming	3(2+1)
14	AGRON-591	Master's seminar	1(0+1)
15	AGRON-599	Master's research	30(0+30)

**Compulsory among major courses*

M.Sc. (Ag.) in Entomology			
Sl. No.	**Course Code**	**Course Title**	**Credit Hours**
1	ENT-501*	Insect morphology	3 (2+1)
2	ENT-502*	Insect anatomy and physiology	3 (2+1)
3	ENT-503*	Insect taxonomy	3 (1+2)
4	ENT-504*	Insect ecology	3 (2+1)
5	ENT-505*	Biological control of insect pests and weeds	3 (2+1)
6	ENT-506*	Toxicology of insecticides	3 (2+1)
7	ENT-507	Host plant resistance	2 (1+1)
8	ENT-508*	Concepts of integrated pest management	2 (2+0)
9	ENT-509*	Pests of field crops	3 (2+1)
10	ENT-510*	Pests of horticultural and plantation crops	3 (2+1)
11	ENT-511	Post harvest entomology	2 (1+1)
12	ENT-512	Insect vectors of plant pathogens	2 (1+1)
13	ENT-513	Principles of acarology	2 (1+1)
14	ENT-514	Vertebrate pest management	2 (1+1)
15	ENT-515	Techniques in plant protection	1 (0+1)
16	ENT-516	Apiculture	3 (2+1)
17	ENT-517	Sericulture	3 (2+1)
18	ENT-518	Lac culture	3 (2+1)
19	ENT-519	Molecular approaches in entomology	3 (2+1)
20	ENT-520	Plant quarantine, biosafety and biosecurity	2 (2+0)
21	ENT-521	Edible and therapeutic insects	2 (1+1)
22	ENT-522	Medical and veterinary entomology	2 (1+1)
23	ENT-523	Forest entomology	2 (1+1)
24	ENT-591	Master's seminar	1 (0+1)
25	ENT-599	Master's research	30 (0+30)

**Compulsory among major courses*

Note : Students will take anyone (ENT-509 and ENT-510) depending on their research topic.*

M.Sc. (Ag.) in Genetics and Plant Breeding			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	GPB-501*	Principles of genetics	3 (2+1)
2	GPB-502*	Principles of plant breeding	3 (2+1)
3	GPB-503*	Fundamentals of quantitative genetics	3 (2+1)
4	GPB-504	Varietal development and maintenance breeding	2 (1+1)
5	GPB-505	Principles of cytogenetics	3 (2+1)
6	GPB-506*	Molecular breeding and bioinformatics	3 (2+1)
7	GPB-507	Breeding for quality and special traits	3 (2+1)
8	GPB-508	Mutagenesis and mutation breeding	3 (2+1)

9	GPB-509	Hybrid breeding	3 (2+1)
10	GPB-510	Seed production and certification	2 (1+1)
11	GPB-511	Crop breeding-i *(kharif* crops)	3 (2+1)
12	GPB-512	Crop breeding-ii *(rabi* crops)	3 (2+1)
13	GPB-513	Breeding vegetable crops	3 (2+1)
14	GPB-514	Breeding fruit crops	3 (2+1)
15	GPB-515	Breeding ornamental crops	3 (2+1)
16	GPB-516	Breeding for stress resistance and climate change	3 (2+1)
17	GPB-517	Germplasm characterization and evaluation	2 (1+1)
18	GPB-518	Genetic enhancement for PGR utilization	2 (1+1)
19	GPB-591	Master's seminar	1(0+1)
20	GPB-599	Master's research	30(0+30)

**Compulsory among major courses*

M.Sc. (Ag.) in Livestock Production and Management			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	LPM-501*	Cattle and buffalo production management	3(2+1)
2	LPM-502*	Sheep and goat production management	3(2+1)
3	LPM-503*	Swine production management	2(1+1)
4	LPM-504*	Laboratory animal production management	2(1+1)
5	LPM-505	Behaviour and welfare of farm animals	2(1+1)
6	LPM-506*	Farm hygiene and waste management	2(1+1)
7	LPM-507*	Poultry farm and hatchery management	2(1+1)
8	LPM-508*	Climatology and livestock production	2(1+1)
9	LPM-509	Integrated livestock farming systems	2(1+1)
10	LPM-510	Principles of animal nutrition	3(2+1)
11	LPM-511	Livestock farm machinery management	2(0+2)
12	LPM-512	Principles of animal genetics and breeding	3(2+1)
13	LPM-591	Master's seminar	1(0+1)
14	LPM-599	Master's research	30(0+30)

**Compulsory among major courses*

M.Sc. (Ag.) in Plant Pathology			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	PLPATH-501*	Mycology	3(2+1)
2	PLPATH-502*	Plant virology	3(2+1)
3	PLPATH-503*	Plant pathogenic prokaryotes	3(2+1)
4	PLPATH-504*	Plant nematology	3(2+1)
5	PLPATH-505*	Principles of plant pathology	3(2+1)
6	PLPATH-506*	Techniques in detection and diagnosis of plant diseases	2(0+2)
7	PLPATH-507	Principles of plant disease management	3(2+1)

8	PLPATH-508	Epidemiology and forecasting of plant diseases	1(1+0)
9	PLPATH-509	Disease resistance in plants	2(2+0)
10	PLPATH-510	Ecology of soil-borne plant pathogens	2(1+1)
11	PLPATH-511	Chemicals and botanicals in plant disease management	3(2+1)
12	PLPATH-512	Detection and management of seed borne pathogens	3(2+1)
13	PLPATH-513	Biological control of plant diseases	2(1+1)
14	PLPATH-514	Integrated disease management	3(2+1)
15	PLPATH-515	Diseases of field and medicinal crops	3(2+1)
16	PLPATH-516	Diseases of fruits, plantation and ornamental crops	3(2+1)
17	PLPATH-517	Diseases of vegetable and spices crops	3(2+1)
18	PLPATH-518	Post harvest diseases	3(2+1)
19	PLPATH-519	Plant quarantine and regulatory measures	1(1+0)
20	PLPATH-591	Master's seminar	1(0+1)
21	PLPATH-599	Master's research	30(0+30)

**Compulsory among major courses*

M.Sc. (Ag.) in Horticulture –Fruit Science			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	FSC-501*	Tropical fruit production	3(2+1)
2	FSC-502*	Sub-tropical and temperate fruit production	3(2+1)
3	FSC-503*	Propagation and nursery management of fruit crops	3(2+1)
4	FSC-504*	Breeding of fruit crops	2+1
5	FSC-505	Systematics of fruit crops	2+1
6	FSC-506	Canopy management in fruit crops	1+1
7	FSC-507	Growth and development of fruit crops	2+1
8	FSC-508	Nutrition of fruit crops	2+1
9	FSC-509	Biotechnology of fruit crops	2+1
10	FSC-510	Organic fruit culture	2+1
11	FSC-511	Export oriented fruit production	2+1
12	FSC-512	Climate change and fruit crops	1+0
13	FSC-513	Minor fruit production	2+1
14	FSC-514	Post harvest management of fruit crops	3(2+1)
15	FSC-591	Master's seminar	1(0+1)
16	FSC-599	Master's research	30(0+30)

**Compulsory among major courses*

M.Sc. (Ag.) in Horticulture –Vegetable Science			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	VSC-501*	Production of cool season vegetable crops	3(2+1)
2	VSC-502*	Production of warm season vegetable crops	3(2+1)
3	VSC-503*	Growth and development of vegetable crops	3(2+1)

4	VSC-504*	Principles of vegetable breeding	3(3+0)
5	VSC-505	Breeding of self pollinated vegetable crops	3(2+1)
6	VSC-506	Breeding of cross pollinated vegetable crops	3(2+1)
7	VSC-507	Protected cultivation of vegetable crops	2(1+1)
8	VSC-508	Seed production of vegetable crops	3(2+1)
9	VSC-509	Production of underutilized vegetable crops	3(2+1)
10	VSC-510	Systematics of vegetable crops	2(1+1)
11	VSC-511	Organic vegetable production	2(1+1)
12	VSC-512	Production of spice crops	3(2+1)
13	VSC-513	Processing of vegetable	2(1+1)
14	VSC-514	Postharvest management of vegetable crops	3(2+1)
15	VSC-591	Master's seminar	1(0+1)
16	VSC-599	Master's research	30(0+30)

**Compulsory among major courses*

M.Sc. (Ag.) in Horticulture –Floriculture and Landscaping			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	FLS-501*	Systematics of ornamental plants	3(2+1)
2	FLS-502*	Breeding of ornamental plants	3(2+1)
3	FLS-503*	Commercial production of cut flowers	3(2+1)
4	FLS-504*	Commercial production of loose flowers	3(2+1)
5	FLS-505*	Ornamental gardening and landscaping	3(2+1)
6	FLS-506	Indoor plants and interiorscaping	2(1+1)
7	FLS-507	Nursery management in ornamental plants	3(2+1)
8	FLS-508	Turf grass management	3(2+1)
9	FLS-509	Value addition in floriculture	3(2+1)
10	FLS-510	Protected cultivation of flower crops	3(2+1)
11	FLS-511	Cad for landscaping	3(1+2)
12	FLS-512	Seed production in flower crops	2(1+1)
13	FLS-591	Master's seminar	1(0+1)
14	FLS-599	Master's research	30(0+30)

**Compulsory among major courses*

M.Sc. (Ag.) in Horticulture –Plantation, Spices, Medicinal and Aromatic crops			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	PSMA-501*	Production of plantation crops	3(2+1)
2	PSMA-502*	Production of spice crops	3(2+1)
3	PSMA-503*	Production of medicinal and aromatic crops	3(2+1)
4	PSMA-504*	Breeding of plantation and spice crops	3(2+1)
5	PSMA-505*	Breeding of medicinal and aromatic crops	2(1+1)
6	PSMA-506	Systematics of plantation and spice crops	2(1+1)

7	PSMA-507	Systematics of medicinal and aromatic crops	2(1+1)
8	PSMA-508	Underexploited plantation,spice, medicinal and aromatic plants	2(2+0)
9	PSMA-509	Growth and development of plantation,spice, medicinal and aromatic crops	3(2+1)
10	PSMA-510	Biochemistry of plantation, spice, medicinal and aromatic crops	3(2+1)
11	PSMA-511	Biodiversity and conservation of plantation, spice, medicinal and aromatic crops	3(2+1)
12	PSMA-591	Master's seminar	1(0+1)
13	PSMA-599	Master's research	30(0+30)

**Compulsory among major courses*

M.Sc. (Ag.) in Soil Science			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	SOIL-501*	Soil physics	3(2+1)
2	SOIL-502*	Soil fertility and fertilizer use	3(2+1)
3	SOIL-503*	Soil chemistry	3(2+1)
4	SOIL-504*	Soil mineralogy, genesis and classification	3(2+1)
5	SOIL-505	Soil erosion and conservation	3(2+1)
6	SOIL-506	Soil biology and biochemistry	3(2+1)
7	SOIL-507	Radioisotopes in soil and plant studies	2(1+1)
8	SOIL-508	Soil, water and air pollution	3(2+1)
9	SOIL-509	Remote sensing and GIS technique for soil and crop studies	3(2+1)
10	SOIL-510	Analytical technique and instrumental methods in soil and plant analysis	2(0+2)
11	SOIL-511	Management of problematic soils and water	2(1+1)
12	SOIL-512	Land degradation and restoration	1(1+0)
13	SOIL-513	Soil survey and land use planning	2(2+0)
14	SOIL-514	Introduction to nanotechnology	3(2+1)
15	SOIL-591	Master's seminar	1(0+1)
16	SOIL-599	Master's research	30(0+30)

**Compulsory among major courses*

M.Sc. (Ag.) in Soil and Water Conservation			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	SCN-501	Soil degradation, conservation and restoration	2(2+0)
2	SCN-502	Hydrology and watershed manegement	2(2+0)
3	SCN-503	Soil erosion and sedimentation	3(2+1)
4	SCN-504	Soil conversation engineering	3(2+1)
5	SCN-505	Soil conversation ecosystems	3(2+1)
6	SCN-506	Soil conversation agronomy	2(1+1)
7	SCN-507	Soil fertility and water management	3(2+1)

8	SCN-508	Soil and water conversation methodology	3(2+1)
9	SCN-509	Irrigation and drainage	3(2+1)
10	SCN-510	Ecosystem management	3(2+1)
11	SCN-511	Special topics in soil and water conversation	1(1+0)
12	SCN-591	Master's seminar	1(0+1)
13	SCN-599	Master's research	30(0+30)

**Compulsory among major courses*

M.VOC. IN ENTREPRENEURSHIP

SEMESTER - I

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	CREDITS			TOTAL CREDIT
				L	T	P	
1	EDP-501	Introduction to entrepreneurship	Gen Ed.	3	1	0	4
2	EDP-502	Entrepreneurial selling	Gen Ed.	3	1	0	4
3	EDP-503	Business communication	Gen Ed.	3	1	0	4
4	EDP-504	Startup ecosystem and regulation	Gen Ed.	3	1	0	4
5	EDP-505	Accounting and financial management	Gen Ed.	3	0	0	3
6	EDP-506	Marketing strategy and research	Gen Ed.	3	0	0	3
7	EDP-507	Human value and professional ethics	Gen Ed.	2	0	0	2
8	EDP-508	Presentation skills	Skill	0	0	6	6
			Total	**20**	**4**	**6**	**30**

SEMESTER - II

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	CREDITS			TOTAL CREDIT
				L	T	P	
1	EDP-510	Internship –i (attachment to agro industries/ business houses)	Skill	0	0	30	30
			Total	**20**	**4**	**36**	**60**

SEMESTER - III

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	CREDITS			TOTAL CREDIT
				L	T	P	
1	EDP-511	Entrepreneurial strategy	Gen Ed.	3	1	0	4
2	EDP-512	Entrepreneurial venture development	Gen Ed.	3	1	0	4
3	EDP-513	Digital marketing and it	Gen Ed.	3	1	0	4
4	EDP-514	Operations management	Gen Ed.	3	1	0	4
5	EDP-515	Building business model	Gen Ed.	3	0	0	2
6	EDP-516	Project management	Gen Ed.	3	0	0	3
7	EDP-517	Innovative leadership management	Gen Ed.	3	0	0	3
8	EDP-518	Research on product and process	Skill	0	0	6	6
			Total	**20**	**4**	**0**	**30**

SEMESTER - IV

Sl. No	COURSE CODE	TITLE	SKILL/GENERAL EDUCATION	CREDITS			TOTAL CREDIT
				L	T	P	
1	EDP-519	Incubation of business idea	Skill	0	0	30	30
			Total	**20**	**4**	**36**	**60**

	L	T	P	TOTAL
G. TOTAL	**40**	**8**	**72**	**120**

Doctor of Philosophy (Ph.D.)

ADMISSION AND ELIGIBILITY

The admission to the Ph.D. programme is done in the beginning of each academic session. Candidate must possess both Bachelor and Master's Degree in Agriculture in the concerned subject with 7.5 OGPA for General Candidates and 7.0 OGPA for SC/ST Candidates. The admission to the Ph.D Programme is offered in the following discipline:

- Agricultural Economics
- Agricultural Extension Education
- Agronomy
- Entomology
- Genetics and Plant Breeding
- Livestock Production and Management
- Plant Pathology
- Horticulture in Vegetable Science
- Horticulture in Fruit Science
- Horticulture in Floriculture and Landscape
- Horticulture in Plantation, Spices, Medicinal and Aromatic Crops
- Soil Science
- Soil and Water Conservation

COURSE DURATION: Minimum 3 years (6 semesters with minimum two semester course work)and a maximum of 6 years (12 Semesters).*****

CREDIT REQUIREMENTS

Total credits Hours	: 100 (25+75)
Major Course Credit Hours	: 12
Minor Course Credits Hours	: 06
Supporting Course Credits	: 05
Seminar (major) Credit Hours	: 01
Seminar (Minor) Credit Hours	: 01
Research Credit Hours	: 75

***Common Courses : 05 (exempted for those who have already taken the subjects in Masters Degree Program)**

SELECTION
The candidates are required to appear in written test and interview. In-service candidates must submit NOC from the concerned employer for admission.

NUMBER OF SEATS: Admission is subjected to vacancy available in the relevant disciplines.

***Note:** Admitted candidates for Ph.D. programme will be governed by Ph.D. ordinance of the University.

COURSE OFFERED

Ph.D. in Agricultural Economics			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	AEC-601	Advanced micro economic analysis	2(1+1)
2	AEC-602	Advanced macro economic analysis	2(2+0)
3	AEC-603	Advanced econometrics	3(2+1)
4	AEC-604	Advanced production economics	3(2+1)
5	AEC-606	Advanced Agricultural Marketing and Price Analysis	3(2+1)
6	AEC-607	Quantitative development policy analysis	2(1+1)
7	AEC-608	Natural resource management	3(2+1)
8	AEC-609	Environmental economics	3(2+1)
9	AEC-605	Operations research	3(2+1)
10	AEC-660	Doctoral seminar – I	1(0+1)
11	AEC-661	Doctoral seminar – II	1(0+1)
12	AEC-699	Doctoral research	75 (0+75)

Ph.D. in Agricultural Extension Education			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	EXT-601*	Policy engagement and extension	3(2+1)
2	EXT-602*	Methodologies for social and behavioural sciences	3(2+1)
3	EXT-603*	Technology commercialization and incubation	3(2+1)
4	EXT-604*	Educational technology and instructional designs	3(2+1)
5	EXT-605	Risk management and climate change adaptation	3(2+1)
6	EXT-606	Livelihood development	2(1+1)
7	EXT-607	Facilitation for people centric development	3(2+1)
10	EXT-691	Doctoral seminar - I	1(0+1)
11	EXT-692	Doctoral seminar - II	1(0+1)
12	EXT-699	Doctoral research	75 (0+75)

**Compulsory among major courses*

Ph.D. in Agronomy			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	AGRON-601*	Current trends in agronomy	3(3+0)
2	AGRON-602	Recent trends in crop growth and productivity	3(2+1)
3	AGRON-603	Irrigation management	3(2+1)
4	AGRON-604	Recent trends in weed management	2(2+0)
5	AGRON-605	Integrated farming systems for sustainable agriculture	2(2+0)
6	AGRON-606	Soil conservation and watershed management	3(2+1)
7	AGRON-607	Stress crop production	3(2+1)
8	AGRON-608*	Research and publication ethics	2(2+0)

9	AGRON-691	Doctoral seminar – I	1(0+1)
10	AGRON-692	Doctoral seminar – II	1(0+1)
11	AGRON-699	Doctoral research	75 (0+75)

**Compulsory among major courses*

Ph.D. in Entomology			
Sl. No.	**Course Code**	**Course Title**	**Credit Hours**
1	ENT-601*	Insect phylogeny and systematics	3 (1+2)
2	ENT-602*	Insect physiology and nutrition	3 (2+1)
3	ENT-603*	Insect ecology and diversity	3 (2+1)
4	ENT-604	Insect behaviour	2 (1+1)
5	ENT-605*	Bio-inputs for pest management	3 (2+1)
6	ENT-606*	Insect toxicology and residues	3 (2+1)
7	ENT-607	Plant resistance to insects	2 (1+1)
8	ENT-608	Acarology	2 (1+1)
9	ENT-609	Molecular entomology	2 (1+1)
10	ENT-610	Integrated pest management	2 (2+0)
11	ENT-691	Doctoral seminar – I	1 (0+1)
12	ENT-692	Doctoral seminar – II	1 (0+1)
13	ENT-699	Doctoral research	75 (0+75)

**Compulsory among major courses*

Ph.D. in Genetics and Plant Breeding			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	GPB-601*	Advances in plant breeding systems	3 (3+0)
2	GPB-602	Advances in biometrical genetics	3 (2+1)
3	GPB-603	Molecular cytogenetics for crop improvement	2 (2+0)
4	GPB-604	Plant genetics resources, conservation and utilization	2 (2+0)
5	GPB-605*	Genomics in plant breeding	3 (3+0)
6	GPB-606	Population genetics	2 (2+0)
7	GPB-607	Crop evolution	3 (3+0)
8	GPB-608	Breeding designer crops	2 (1+1)
9	GPB-609*	IPR and regulatory mechanism (e-course)	1 (1+0)
10	GPB-691	Doctoral seminar - I	1(0+1)
11	GPB-692	Doctoral seminar - II	1(0+1)
12	GPB-699	Doctoral research	75 (0+75)

**Compulsory among major courses*

Ph.D. in Livestock Production and Management			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	LPM-601*	Recent developments in large ruminants production management	3(2+1)
2	LPM-602*	Recent developments in small ruminants production management	3(2+1)
3	LPM-603*	Recent developments in swine production	2(1+1)
4	LPM-604*	Livestock and environment	1(1+0)
5	LPM-605*	Organic livestock production	1(1+0)
6	LPM-606	Recent developments in welfare of farm animals	1(1+0)
7	LPM-608	Precision livestock farming	2(1+1)
8	LPM-609	Recent developments in poultry production management	3(2+1)
9	LPM-691	Doctoral seminar – I	1(0+1)
10	LPM-692	Doctoral seminar – II	1(0+1)
11	LPM-699	Doctoral research	75 (0+75)

**Compulsory among major courses*

Ph.D. in Plant Pathology			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	PL PATH-601	Advances in mycology	3(2+1)
2	PL PATH-602	Advances in virology	3(2+1)
3	PL PATH-603	Advances in plant pathogenic prokaryotes	3(2+1)
4	PL PATH-604*	Molecular basis of host-pathogen interaction	3(2+1)
5	PL PATH-605	Principles and procedures of certification	1(1+0)
6	PL PATH-606	Plant biosecurity and biosafety	2(2+0)
7	PL PATH-691	Doctoral seminar – I	1(0+1)
8	PL PATH-692	Doctoral seminar – II	1(0+1)
9	PL PATH-699	Doctoral research	75 (0+75)

**Compulsory among major courses*

Ph.D. in Horticulture –Fruit Science			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	FSC-601*	Innovative approaches in fruit breeding	3(3+0)
2	FSC-602*	Modern trends in fruit production	3(3+0)
3	FSC-603	Recent developments in growth regulation	3(3+0)
4	FSC-604	Advanced laboratory techniques	3(1+2)
5	FSC-605	Arid and dry land fruit production	2(2+0)
6	FSC-606	Abiotic stress management in fruit crops	3(2+1)
7	FSC-607	Biodiversity and conservation of fruit crops	3(2+1)

8	FSC-608	Smart fruit production	2(2+0)
9	FSC-691	Doctoral seminar – I	1(0+1)
10	FSC-692	Doctoral seminar – II	1(0+1)
11	FSC-699	Doctoral research	75 (0+75)

**Compulsory among major courses*

Ph.D. in Horticulture –Vegetable Science			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	VSC-601*	Recent trends in vegetable production	3(3+0)
2	VSC-602*	Advances in breeding of vegetable crops	3(3+0)
3	VSC-603	Abiotic stress management in vegetable crops	3(2+1
4	VSC-604	Seed certification, processing and storage of vegetable crops	3(2+1)
5	VSC-605	Breeding for special traits in vegetable crops	2(2+0)
6	VSC-606	Biodiversity and conservation of vegetable crops	3(2+1)
7	VSC-607	Biotechnological approaches in vegetable crops	3(2+1)
8	VSC-608	Advanced laboratory techniques for vegetable crops	3(1+2)
9	VSC-691	Doctoral seminar – I	1(0+1)
10	VSC-692	Doctoral seminar – II	1(0+1)
11	VSC-699	Doctoral research	75 (0+75)

**Compulsory among major courses*

Ph.D. in Horticulture –Floriculture and Landscaping			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	FLS-601*	Crop regulation in ornamental crops	2(1+1)
2	FLS-602*	Postharvest biology of floricultural crops	3(2+1)
3	FLS-603	Specialty flowers, fillers and cut greens	2(1+1)
4	FLS-604	Biotechnological approaches in floricultural crops	3(2+1)
5	FLS-605*	Advances in landscaping	2(1+1)
6	FLS-606	Vertical gardening	3(1+2)
7	FLS-607	Modern approaches in breeding of floricultural crops	3(2+1)
8	FLS-608	Current trends in production technology of floricultural crops	3(2+1)
9	FLS-609	Recent developments in protected cultivation of floricultural crops	3(2+1)
10	FLS-691	Doctoral seminar – I	1(0+1)
11	FLS-692	Doctoral seminar – II	1(0+1)
12	FLS-699	Doctoral research	75 (0+75)

**Compulsory among major courses*

Ph.D. in Horticulture – Plantation, Spices, Medicinal and Aromatic crops			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	PSMA-601*	Advances in production of plantation and spice crops	3(3+0)
2	PSMA-602*	Advances in production of medicinal and aromatic crops	3(3+0)
3	PSMA-603*	Recent breeding approaches in plantation, spice, medicinal and aromatic crops	3(3+0)
4	PSMA-604	Advanced methods in laboratory techniques	3(1+2)
5	PSMA-605	Biotechnological approaches in psma crops	3(3+0)
6	PSMA-606	Abiotic stress management in plantation, spice, medicinal and aromatic crops	3(2+1)
7	PSMA-607	Organic spice and plantation crops production	3(2+1)
8	PSMA-608	Marketing and export of plantation, spice, medicinal and aromatic crops	3(2+1)
9	PSMA-691	Doctoral seminar – I	1(0+1)
10	PSMA-692	Doctoral seminar – II	1(0+1)
11	PSMA-699	Doctoral research	75 (0+75)

**Compulsory among major courses*

Ph.D. in Rural Development and Planning			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	RDP-601	Organizational behavior	3(3+0)
2	RDP-602	Advance research methodology	3(2+1)
3	RDP-603	Rural project planning monitoring and evaluation	3(2+1)
4	RDP-604	Management techniques for rural development	3(2+1)
5	RDP-605	Micro planning for rural development	3(2+1)
6	RDP-606	Regional planning for rural development	3(2+1)
7	RDP-607	Advanced rural economic theory and policy	3(3+0)
8	RDP-608	Rural entrepreneurship development	3(2+1)
9	RDP-609	Training of rural development personal	3(2+1)
10	RDP-691	Doctoral seminar-I	1(0+1)
11	RDP-692	Doctoral seminar-II	1(0+1)
12	RDP-699	Doctoral research	75(0+75)

Ph.D. in Soil Science			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	SOIL-601	Recent trends in soil physics	2(2+0)
2	SOIL-602	Modern concept in soil fertility	2(2+0)
3	SOIL-603*	Physical chemistry of soil	2(2+0)
4	SOIL-604*	Soil genesis and micromorphology	2(2+0)
5	SOIL-605	Bio-chemistry of soil organic matter	2(2+0)

6	SOIL-606	Soil resource management	3(3+0)
7	SOIL-607	Modelling of soil plant system	2(2+0)
8	SOIL-608	Clay mineralogy	3(2+1)
9	SOIL-609	Recent trends in soil microbial biodiversity	3(2+1)
10	SOIL-691	Doctoral seminar – I	1(0+1)
11	SOIL-692	Doctoral seminar – II	1(0+1)
12	SOIL-699	Doctoral research	75 (0+75)

**Compulsory among major courses*

Ph.D. in Soil and Water Conservation			
Sl. No	**Course Code**	**Course Title**	**Credit Hours**
1	SCN-601*	Advances in watershed management	3(2+1)
2	SCN-602	Environment, pollution and management	2(2+0)
3	SCN-603*	Water management technology	2(2+0)
4	SCN-604*	Soil and water conservation structures	2(2+1)
5	SCN-605	Drainage management in crop production	3(2+1)
6	SCN-606	Irrigation water quality	3(2+1)
7	SCN-607*	Conservation agriculture	3(2+1)
8	SCN-608	Conservation Forestry	3(2+1)
9	SCN-691	Doctoral seminar-I	1(0+1)
10	SCN-692	Doctoral seminar-II	1(0+1)
11	SCN- 699	Doctoral research	75(0+75)

**Compulsory among major courses*

GENERAL INFORMATION

A newly admitted student who has passed the qualifying examination From any Board/University outside Nagaland state is to register himself/herself as a student of Nagaland University. He/She has to apply for registration in a prescribed Performa along with the requisite fee and Transfer/Migration certificate in original within the first semester of the degree programme.

1. ADVISORY SYSTEM

Undergraduate students on receipt of the newly admitted students, the Dean shall assign a teacher of the school to act as an advisor for each student. Each Advisor shall maintain personal records in respect of the students concerning his/her academic progress, deficiencies in studies, personal problems as well as co-curricular activities. The Students shall approach his/her advisor as and when such need arises.

2. HOSTEL

The School provides hostel facilities for all students and every student is required to stay in the hostel. Each hostel is supervised by a warden. There are five hostels for boys and five for girls. Those who cannot stay in the hostels due to unavoidable reasons will have to take permission from concern authority to attend the classes as day scholars. All the students have to abide by the rules and regulations of the hostel.

3. LIBRARY FACILITIES

The School library is equipped with a fully computerised library using SOUL 2.0 software, and RFID automation, functioning on the basis of an 'open access' system. It houses over 35,000 volumes of books and subscribes to 52 journals/periodicals. Competitive books on all Civil Services exams, NET, GATE, CAT, Banking, etc., for enabling the students to update themselves for appearing competitive examinations. Students are provided the facility of computers with high speed internet connectivity and access to online e-journals, UGC-Infonet, CeRA, CABI abstract, Indiastat. The library functions from 9.00 am to 5.30 pm on all working days. The students are also offered the facility for software thesis and spiral binding on payment.

4. HEALTH CENTRE

A health centre headed by Chief Medical Officer in existence to provide health cover for both students and staff. Ambulance facility is available for transportation of patients.

5. FARMS

The School has more than 100 acres of research cum instructional farm with all modern equipments and machineries where students and faculties are conducting practical classes and research activities

6. INTERNATIONAL HOSTEL AND GUEST HOUSE

The School has a well furnished International hostel as well as guest house available in the campus donated by Alumni association.

7. CAFETERIA

The school has a cafeteria. A committee headed by a teacher inspects and suggests for improvement of quality of the items (menu) and maintaining hygiene from time to time.

8. FARMERS' CELL

A farmers' cell has been established in the Campus with the objective of looking into the problem of the farmers in management of their crops and livestock and to regularly impart suitable training programmes to them in order to overcome problems and their skill up gradation. In order to reach out to the farmers, several villages have been adopted through this cell.

9. RESEARCH AND EXTENSION CELL

The research and Extension Cell (REC) was established on 28th August 2020 vide AC 28:5-6 ref. NU/ACAD:166/2017 Dated 14th February 2020 to coordinate the research and extension activities in SAS and maintain liaisons with one another and to maintain linkages with other line departments / instituiuons/ organizations in the state and to provide all necessary steps for adoption and dissemination of technologies evolved at SAS.

10. STUDENTS UNION AND CO-CURRICULAR ACTIVITIES

All the student admitted to the school automatically become member of the student union and are entitled to participate in the union activities. The entire students have to pay the prescribed students union fee at the beginning of each academic session.

11. EVANGELICAL UNION(EU)

EU exists in the campus, guided by senior faculty member (EGF). Interested students can participate in such activities. Worship services are held every Sunday.

12. SCHOOL MAGAZINE

Student union publishes an annual School Magazine "HILL AGRI" where the students and faculties are encouraged to share their creativity and thoughts.

13. GAMES AND SPORTS

The school provides facilities for indoor games viz., Badminton, Table Tennis and outdoor games viz., Football, Volley ball, Cricket and Athletics. The School also organizes Annual Sports Week and inter-class tournaments.

14. CULTURAL AND LITERARY PROGRAMME

The student union organizes cultural and literary programmes like Drama, Dance, Debate, Quiz competition, Fresher's and Parting Social to enrich the student's literary and cultural talents. The school has a spacious auditorium where various functions and competitions are organized in addition to academic seminars, symposia, guest lectures, etc.

15. ALUMNI ASSOCIATION

The school has a strong Alumni Association which celebrates its Alumni meet on the 20th of October every year in the campus. The Association is actively involved in various academic and developmental activities of the school. In order to improve the academic atmosphere by creating healthy competitive environment among the students, the Alumni Association of the School has instituted an annual award called Alumni Award.

1. **The Alumni award :** Topper in B.Sc. (Hons.) Agri., Sponsored by **AASAS**(Cash Award of Rs. 20,000/- and Certificate)
2. **Peri Om Pun Excellence Award :** B.Sc. (Hons.) Agri. 1st Year Topper, Sponsored by **Dr. Umed Pun : 7th Batch** (Cash Award of Rs. 10,000/- and Certificate)
3. **R2 Seeds Excellence Award :** B.Sc. (Hons.) Agri. 2nd Year Topper, Sponsored by **C. Narayana Rao : 8th Batch** (Cash Award of Rs. 10,000/- and Certificate)
4. **Lt. Cherish Ch. Marak Excellence Award :** B.Sc. (Hons.) Agri. 3rd Year Topper, Sponsored by **Mrs. Thera Ch Marak : 8th Batch** (Cash Award of Rs. 10,000/- and Certificate)

16. BANK & ATM SERVICES

A branch of State Bank of India and Indian Bank each operates in the town close to the Campus. SBI ATM service is also available in the campus.

17. POST OFFICE

The school has a sub-post office (SPO) in the campus.

18. COLLABORATIONS

The school collaborates with various organizations having MOU with ICAR, State Government Departments and local bodies for research and extension activities.

19. STINER-TFC

The School has technology facilitated centre for Science & Technology Intervention for North Eastern Region to disseminate and create awareness of various technology to the the stakeholders and entrepreneurship in the state. This is funded by Minsitry of Doner and implemented through NEC & NEIST, Jorhat.

20. ICAR-AICRPs/TSP/AND OTHER EXTERNALLY FUNDED PROJECTS

The school has seven (7) ICAR-AICRP units (Soyabean/ Pigeon Pea/ Linseed/ Honey Bee/ Vegetables/ Spices/ Pig) and TSP functioning in the campus which are carrying out various development programmes/ testing/ identification of technologies for wider application including training and awareness programmes. In addition, the school has good number of externally funded projects sponsored by DST/ DBT/ NMHS, MoEFCC/ MDoNER/ NEC etc.

DEPARTMENT & FACULTY

The school has 13 Academic Departments and about 60 highly qualified faculties from different parts of the country. Many of them are internationally acclaimed with vast experience in teaching and handling quality projects.

SCHOOL OF AGRICULTURAL SCIENCES

Pro-Vice Chancellor : Dr. Akali Sema
DEAN : Dr. L. Daiho
Contact detail : 9436004490
Email ID : deansasrd@nagalanduniversity.ac.in

DEPARTMENT OF AGRICULTURAL ECONOMICS

Head of the Department : Dr. Amod Sharma
Contact detail : 9436004211
Email ID : hodagrieco@nagalanduniversity.ac.in

Sl.No	Name	Designation	Specializations
1	Dr. Amod Sharma	Professor	Agricultural Economics
2	Dr. R. Nakhro	Professor	Agricultural Economics
3	Dr. Sanjoy Das	Associate Professor	Agricultural Marketing
4	Dr. Rohith. G. V.	Assistant Professor	Agricultural Economics
5	Dr. S Herojit Singh	Assistant Professor	Agricultural Statistics

DEPARTMENT OF AGRICULTURAL EXTENSION EDUCATION

Head of the Department : Dr. K. K. Jha
Contact detail : 9436262080
Email ID : hodagriext@nagalanduniversity.ac.in

Sl.No	Name	Designation	Specializations
1	Dr. K. K. Jha	Professor	Agricultural Extension & Entrepreneurship Development
2	Dr. J. Longkumer	Professor	Rural Sociology
3	Dr. N. K. Patra	Associate Professor	Extension Education
4	Dr. Mary N. Odyuo	Associate Professor	Agricultural Extension
5	Dr. Saurabh Sharma	Associate Professor	Agricultural Extension
6	Dr. Moanungsang	Assistant Professor	English

DEPARTMENT OF AGRONOMY

Head of the Department : Dr. L. Tongpang Longkumer
Contact detail : 9436061354
Email ID : hodagro@nagalanduniversity.ac.in

Sl.No	Name	Designation	Specializations
1	Dr. L. Tongpang Longkumer	Professor	Cropping System, Weed and Nutrient Management
2	Dr. T. Gohain	Professor	Crop Production
3	Dr. A. P. Singh	Associate Professor	Weed Management
4	Dr. Lanunola Tzudir	Assistant Professor	Cropping System
5	Dr. Debika Nongmaithem	Assistant Professor	Weed Management
6	Dr. Rekha Yadav	Assistant Professor	Crop Production

DEPARTMENT OF ENTOMOLOGY

Head of the Department : Dr. Imtinaro L.
Contact detail : 9436006730
Email ID : hodentomology@nagalanduniversity.ac.in

Sl.No	Name	Designation	Specializations
1	Dr. Imtinaro L.	Associate Professor	Productive Entomology
2	Dr. Pankaj Neog	Associate Professor	Storage Entomology
3	Dr. Hijam Shila Devi	Assistant Professor	Entomology
4	Dr. Waluniba	Assistant Professor	Horticultural Entomology
5	Dr. Sabbithi Pavan	Assistant Professor	Insect Systematics and Taxonomy, Integrated Pest Management, Plant Quarantine

DEPARTMENT OF GENETICS AND PLANT BREEDING

Head of the Department : Dr. M. Borthakur Sharma
Contact detail : 9436004626
Email ID : hodgpb@nagalanduniversity.ac.in

Sl.No	Name	Designation	Specializations
1	Dr. Kigwe Seyie	Professor	Cytogenetics
2	Dr. M. Borthakur Sharma	Professor	Plant Breeding
3	Dr. Pankaj Kumar Shah	Associate Professor	Plant Breeding
4	Dr. H. P. Chaturvedi	Assistant Professor	Plant Breeding
5	Dr. Merentoshi	Assistant Professor	Crop Production

DEPARTMENT OF LIVESTOCK PRODUCTION AND MANAGEMENT

Head of the Department : Dr. Nizamuddin
Contact detail : 9436262985
Email ID : hodlpm@nagalanduniversity.ac.in

Sl.No	Name	Designation	Specializations
1	Dr. V. K. Vidyarthi	Professor	Animal Nutrition
2	Dr. N. Savino	Associate Professor	Livestock Production and Management
3	Dr. Nizamuddin	Professor	Livestock Production and Management
4	Dr. Razouneinuo Zuyie	Associate Professor	Livestock Production and Management
5	Dr. M. Catherine Rutsa	Associate Professor	Clinical Medicine

DEPARTMENT OF PLANT PATHOLOGY

Head of the Department : Dr. N. Tiameren Ao
Contact detail : 9436061353
Email ID : hodplantpatho@nagalanduniversity.ac.in

Sl.No	Name	Designation	Specializations
1	Dr. L. Daiho	Professor	Microbial Ecology
2	Dr. N. Tiameren Ao	Professor	Plant Pathology
3	Dr. Narola Pongener	Associate Professor	Mushroom Technology
4	Dr. Susanta Banik	Associate Professor	Plant Pathology
5	Dr. Meronbala Devi	Assistant Professor	Plant Pathology
6	Dr. Moirangthem Indira Devi	Assistant Professor	Seed Pathology

DEPARTMENT OF RURAL DEVELOPMENT AND PLANNING

Head of the Department : Dr. L. Daiho (Dean)
Contact detail : 9436004490
Email ID : hodrdp@nagalanduniversity.ac.in

Sl.No	Name	Designation	Specializations
1	Dr. Deepa Thangjam	Assistant Professor	Agricultural Extension, Rural Development and Impact Assessment

DEPARTMENT OF HORTICULTURE

Head of the Department : Dr. S. P. Kanaujia
Contact detail : 9862419013
Email ID : hodhorti@nagalanduniversity.ac.in

Sl.No	Name	Designation	Specializations
1	Dr. Akali Sema	Professor	Pomology
2	Dr. Pauline Alila	Professor	Pomology
3	Dr. C. S. Maiti	Professor	Fruits & Orchard Management
4	Dr. S. P. Kanaujia	Professor	Olericulture
5	Dr. Rokolhuu Keditsu	Associate Professor	Floriculture and Landscaping
6	Dr. A. K. Sarkar	Assistant Professor	Fruits and Orchard Management
7	Dr. L. Hemanta	Assistant Professor	Floriculture and Landscaping
8	Dr. Sentirenla Jamir	Assistant Professor	Plant Propagation
9	Dr. Graceli I. Yepthomi	Assistant Professor	Nursery Management Technology

DEPARTMENT OF SOIL SCIENCE

Head of the Department : Dr. A. K. Singh
Contact detail : 9436075153
Email ID : hodagrichem@nagalanduniversity.ac.in

Sl.No	Name	Designation	Specializations
1	Dr. Y. K. Sharma	Professor	Soil Science
2	Dr. A. K. Singh	Professor	Soil Fertility and Nutrient Management
3	Dr. P. K Singh	Professor	Soil Science
4	Dr. Tanmoy Karak	Professor	Environmental Soil Science
5	Dr. Jurisandhya Barik Bordoloi	Assistant Professor	Soil Microbiology
6	Dr. Sentimenla	Assistant Professor	Soil Fertility and Plant Nutrition

DEPARTMENT OF SOIL AND WATER CONSERVATION

Head of the Department : Dr. Manoj Dutta
Contact detail : 9436262613
Email ID : hodswc@nagalanduniversity.ac.in

Sl.No	Name	Designation	Specializations
1	Dr. Manoj Dutta	Professor	Soil Physics and Soil and Water Conservation
2	Dr. Sewak Ram	Assistant Professor	Soil and Water Conservation

DEPARTMENT OF AGRICULTURAL ENGINEERING

Head of the Department : Dr. Khan Chand
Contact detail : 7500734737
Email ID : hodagriengg@nagalanduniversity.ac.in

Sl.No	Name	Designation	Specializations
1	Dr. A. K. Verma	Professor	Soil & Water Conservation Engineering
2	Dr. Khan Chand	Associate Professor	Process & Food Engineering
3	Dr. Chitrasen Lairenjam	Associate Professor	Soil and Water Engg/Irrigation and Drainage Engg (Agril Engg)

INCHARGE OF VARIOUS SECTIONS/CELLS:

Sl.No	Section/Cell	Name
1	Associate Dean, Students Welfare	Prof. Pauline Alila
2	In-Charge, Counselling & Placement Cell	Prof. Pauline Alila
3	In-Charge, Central Instrumentation Centre	Prof. Pauline Alila
4	Coordinator of Farmers Cell	Prof. L. Tongpang Longkumer
5	Student READY Program	
	5.1) AIA	Prof. K. K. Jha
	5.2) ELP	Prof. L. Tongpang Longkumer
	5.3) RAWE	Dr. Narola Pongener
6	In-Charge, Academic Cell	Prof. Manoj Dutta
7	In-Charge, Exam Section	Dr. Sanjoy Das
8	In-Charge, STINER-TFC	Prof. Akali Sema
9	Prof. Incharge REC	Prof. N. Tiameren Ao

STUDENT MENTORING AND SUPPORT

ASSOCIATE DEAN, STUDENTS WELFARE: A senior faculty member is appointed as Students Welfare In charge, who takes up the responsibility of the welfare of the students' community.

ANTI-RAGGING COMMITTEE: An anti-ragging committee headed by a senior faculty checks the menace of ragging in the campus. Ragging is strictly prohibited in SAS campus.

DISCIPLINE: All students under SAS is expected to maintain discipline according to the rules and regulations as laid down in the ordinance of the Academic Regulation RC 4. Any indiscipline will attract appropriate action from the authorities as mentioned in the Regulations.

ADVISOR FOR EACH STUDENT: Each student is allotted with an advisor who acts as a mentor and who advices the student on various aspects of academic, personal as well as co- curricular related activities. The student can approach his/her advisor as and when such need arises.

CAREER COUNSELLING AND PLACEMENT CELL: Students' career counselling and placement cell has been established to guide students for their future academic career and employment.

STUDY TOUR: In addition to local and regional field trips for exposure of students to recent development in agricultural and allied fields in the country, Study Tour has been made compulsory. This Tour offers opportunity to students to visit some of the Agricultural institutions/Universities/Research Stations and different state government organizations to study the latest work done and technologies developed in the country.

FIELD TRIPS: Field Trips are periodically conducted for exposing the students to gain practical field experiences.

SPECIAL LECTURES: Many high profile dignitaries visiting the state are invited for delivering special lectures to the students. Besides, progressive farmers and successful entrepreneurs are also invited to give their inspiring stories to the students from time to time.

NATIONAL SERVICE SCHEME (NSS): NSS programmes are organized in the School under the coordination of a teacher in which the students are enrolled as volunteers. After successful completion of the programmes, students are awarded a certificate.

ECO CLUB: The students actively engage themselves in social works, tree plantations in and around the campus and organize various environmental awareness programmes from time to time.

PHOTO GALLERY

ELP (Earn while Learning Programme)

RAWE Demonstrations in different villages


Research plot of PG scholars

STUDENTS IN CLASSROOM AND LABORATORY

FACULTY DEVELOPMENT PROGRAMME

Cultural and Literacy Day

Library

Alumni Hostel

Alumni Meet

Hostels

Campus Sports Meet

Plantation Awareness Campaign


Eco Club


All India Study Tour

World Environment Day

Farmers Cell

Health Centre

Multi Purpose Hall

SAS SCHOOL WEEK

Annexure - I

FEE STRUCTURE FOR PROGRAMMES UNDER SASRD

Sl.No	Particulars	B.Sc. (Hons.) Ag.		M.Sc. (Ag.)		Ph.D. (Ag.)	
		1st Semester (Rs.)	Subsequent Semester (Rs.)	1st Semester (Rs.)	Subsequent Semester (Rs.)	1st Semester (Rs.)	Subsequent Semester (Rs.)
1	Tution Fee	590.00	590.00	1160.00	1160.00	2900.00	2900.00
2	Admission Fee (One Time)	3010.00	-	1160.00	-	1160.00	-
3	Registration Fee (One Time)	440.00	-	440.00	-	440.00	-
4	Laboratory Fee	470.00	470.00	1160.00	1160.00	2310.00	2310.00
5	Departmental Caution Money (Refundable)	930.00	-	930.00	-	1740.00	-
6	Library Fee	360.00	360.00	360.00	360.00	410.00	410.00
7	Sports Fee	70.00	70.00	70.00	70.00	70.00	70.00
8	Medical Fee	130.00	130.00	130.00	130.00	130.00	110.00
9	Students' Activity Fee	360.00	360.00	360.00	360.00	360.00	360.00
10	Students' Aid Fund (One Time)	240.00	-	240.00	-	240.00	-
11	Library Caution Money (Refundable)	1160.00	-	1160.00	-	1390.00	-
12	Examination Fee	700.00	700.00	930.00	930.00	2080.00	-
13	Course Work Fee	-	-	-	-	1160.00	-
14	Thesis Evaluation Fee (One Time)	-	-	2200	-	16500.00	-
15	Annual Magazine Fee	70.00	-	70.00	-	70.00	-
16	University Development Fund	110.00	-	110.00	-	110.00	-
	Total	**8640.00**	**2680.00**	**10480.00**	**4170.00**	**31070.00**	**6160.00**

FOR HOSTELLERS

Sl.No	Particulars	B.Sc. (Hons.) Ag.		M.Sc. (Ag.)		Ph.D. (Ag.)	
		1st Semester (Rs.)	Subsequent Semester (Rs.)	1st Semester (Rs.)	Subsequent Semester (Rs.)	1st Semester (Rs.)	Subsequent Semester (Rs.)
1	Hostel Admission Fee	220.00	-	220.00	-	220.00	-
2	Hostel Fee	2750.00	2750.00	2750.00	2750.00	3300.00	3300.00
3	Hostel Caution Money (Refundable)	1740.00	-	1740.00	-	1740.00	-
	Total	**4710.00**	**2750.00**	**4710.00**	**2750.00**	**5260.00**	**3300.00**

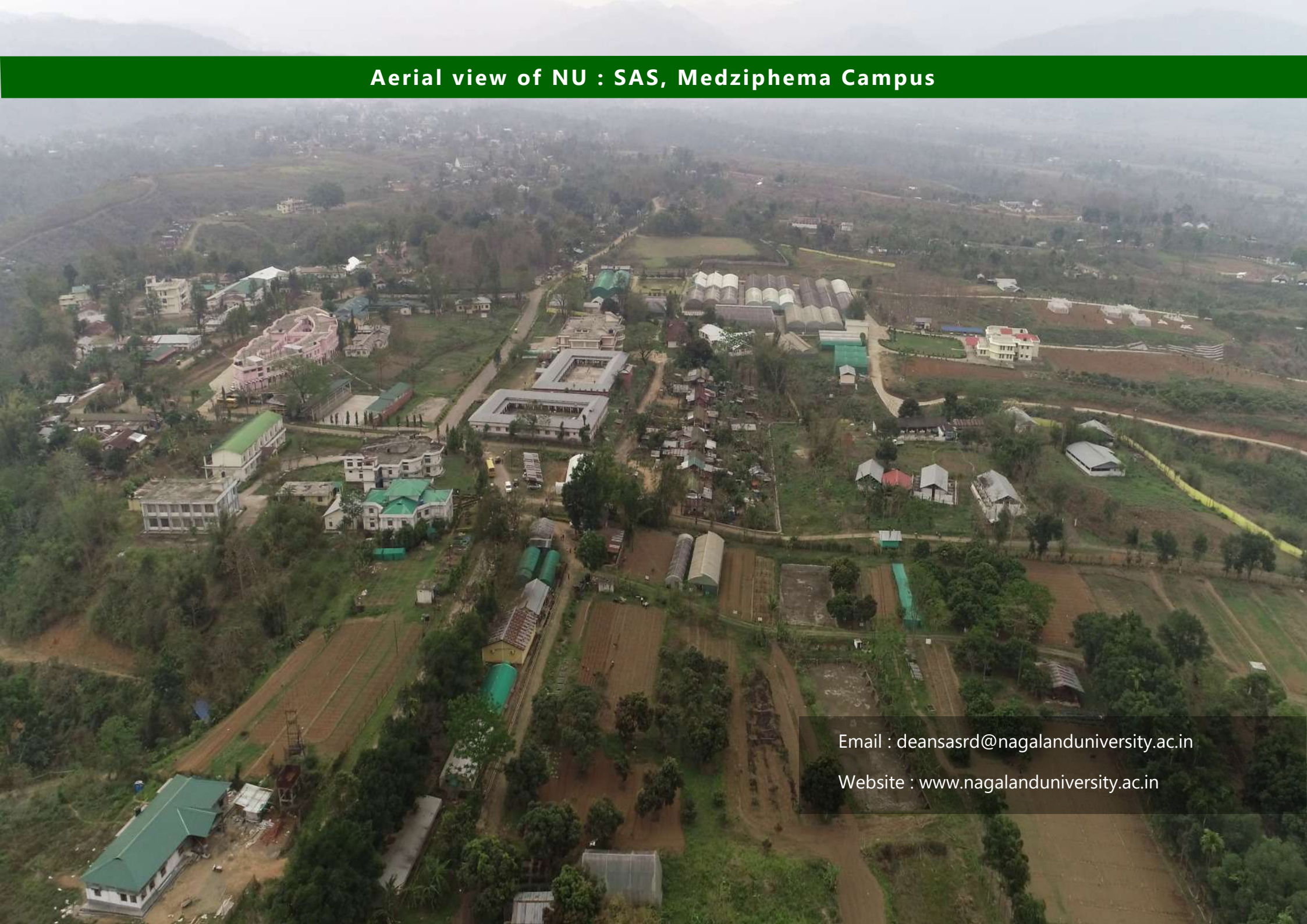
OTHERS

Sl.No	Particulars	Amount
1	Repeat per paper	330
2	Late fine(up to maximum of seven(7)days only per day)	110
3	Identity Card/Re-Issue of Identity Card	110
4	Application forms and information brochures for SC,ST/General	170/220

FEE STRUCTURE FOR VOCATIONAL STUDIES & SKILL DEVELOPMENT

Sl.No	Particulars	Vocational (UG)		Vocational (PG)	
		1st Semester (Rs.)	Subsequent Semester (Rs.)	1st Semester (Rs.)	Subsequent Semester (Rs.)
1	Tution Fee	5000.00	1000.00	7000.00	1000.00
2	Admission Fee (One Time)	1160.00	-	1160.00	-
3	Registration Fee	440.00	-	440.00	-
4	Laboratory Fee	5000.00	1000.00	4610.00	1000.00
5	Departmental Caution Money (Refundable)	930.00	-	930.00	-
6	Library Fee	360.00	360.00	360.00	360.00
7	Sports Fee	70.00	70.00	70.00	70.00
8	Medical Fee	130.00	130.00	130.00	130.00
9	Students' Activity Fee	360.00	360.00	360.00	360.00
10	Students' Aid Fund (One Time)	240.00	-	240.00	-
11	Library Caution Money (Refundable)	1160.00	-	1160.00	-
12	Examination Fee	700.00	8540.00	930.00	8340.00
15	Magazine Fee	70.00	-	70.00	-
16	University Development Fund	110.00	-	110.00	-
17	Dissertation	-	-	-	2200
	Total	**15730.00**	**11460.00**	**17570.00**	**13460.00**

Aerial view of NU : SAS, Medziphema Campus



Email : deansasrd@nagalanduniversity.ac.in

Website : www.nagalanduniversity.ac.in