

Tribhuvan University
Institute of Agriculture and Animal Science
OFFICE OF THE DEAN
Post Graduate Program, Kirtipur, Kathmandu

Master Degree (First Year Second Semester)

Interdepartmental Courses

Course Code	Subject	Credit hr	Dept. offered	Course teacher
PHP721	Plant Physiology	1+1	AGR, SST, PLB, HRT, PLP, ENT, SSC, AGE, ANU	Sanjaya Lamichhane
AST721	Design of Experiments for Crop Sciences	1+1	AGR, SST, PLB, HRT, PLP, ENT, SSC, AGE, ANU, AST	Prof Dr Kishor C Dahal
AST722	Research Methodology for Social Sciences	2+1	AEC, EXT, AST	Prof Dr Hari Krishna Panta
AST723	Research Methodology for Animal Sciences	1+1	ANS, ANU, AQU, AST	Dr. Sriram Neupane (9851073492)
AST724	Research Methodology for Veterinary Sciences	1+1	VGO, VEP, VSR, AST	Dr Tulsi Ram Gwampo/ Dr Surendra Karki
SPW721	Soil Plant Water Relationship	2+1	AGE, HRT, SSC, AGR	Dr Shiva K Jha/ Prof. Dr BB Adhikari
IVP721	Insect Vectors of Plant Diseases	1+1	PLP, ENT	Dr. Naresh Dangi
RPP722	Regulatory Plant Protection	2+1	PLP, ENT	Rekha Sapkota/Madhav Bhatta (98482202)

Departmental Courses

1. Agricultural Statistics

Course code	Course title	Credit hours	Instructor
AST732	Advances in Bioinformatics	2+1	TBD
AST742	Multivariate Analysis	2+1	TBD
AST744	Statistical Tools for Optimization	1+0	TBD
AST791	Proposal Seminar	0+1	AST Dept
	Total	5+3 = 8	

2. Seed Science and Technology

Course Code	Subject	Credit hrs	Course teacher	Email/ Telephone
SST731	Physiology of Seeds	2+0	Prof Dr Bishnu Bilash Adhikari	
SST732	Hybrid Seed Production	2+1	Dr Keshav Babu Koirala	
SST741	Seed Business and Entrepreneurship Development	1+1	Dr Damodar Poudel	
SST742	Seed Legislation and Certification	2+0	Mrs. Goma Dhital	
SST791	Proposal Seminar	0+1	SST Dept	
	Total	7+3 = 10		

3. Agronomy

Course code	Course title	Credit hours	Instructor	Email/Telephone
AGR733	Advances in Weed Science and Management	2+1	Dr Rama Poudel	
AGR737	Precision and Climate Resilient Agriculture	2+0	Prof Dr Lal Prasad Amgain	
AGR738	Soil Fertility and Nutrient Management in Field Crops	2+1	Mr Achyut Gaire	
AGR791	Proposal Seminar	0+1	AGR Dept	
	Total	6 + 3 = 9		

4. Genetics and Plant Breeding

Course code	Course title	Credit hours	Instructor	Email/Telephone
PLB732	Advances in Genetics	2+0	Mr Bishnu Prasad Kandel	9845953089
PLB737	Molecular Genetics	2+1	Dr. Ganga Ram Kohar	9857012917
PLB741	Plant Tissue culture	2+1	Dr.Ujjwal Kumar Singh Kushwaha	9844033976
PLB742	Heterosis of Resistant Breeding	2+1	Dr Mukti Ram Poudel	9857029723
PLB791	Proposal Seminar	0+1	PLB Dept	
	Total	8 + 4 = 12		

5. Horticulture

Course code	Course title	Credit hours	Instructor	Email/Telephone
HRT732	Advances in Olericulture	2+0	Dr. Manoj Basnet	
HRT737	Plant Propagation and Nursery Management	1+1	Sanu Krishna Maharjan	
HRT739	Potato and Tuber Crops	1+1	Dr Bhim B Khatri + Shankar Subedi	
HRT751	Tissue Culture of Horticultural Plants	1+1	Dr Puspa Raj Poudel	
HRT791	Proposal Seminar	0+1	HRT Dept.	
	Total	5 + 4 = 9		

6. Plant Pathology

Course code	Course title	Credit hours	Instructor	Email/Telephone
PLP735	Advances in Nematology	1+1	Dr. Suraj Baidya	
PLP736	Advances in Virology	2+1	Dr. Hira Kaji Manandhar	
PLP791	Proposal Seminar	0+1	PLP Dept.	
	Total	3 + 3 = 6		

7. Entomology

Course code	Course title	Credit hours	Instructor	Email/Telephone
ENT733	Insect Ecology	2+1	Prof Dr Resham Bahadur Thapa	
ENT746	Advances in Apiculture and Crop Pollination	2+1	Kapil Kafle	
ENT791	Proposal Seminar	0+1	ENT Dept.	
	Total	4 + 3 = 7		

8. Agricultural Ecology

Course code	Course title	Credit hours	Instructor	Email/Telephone
AGE735	Ethno-Ecology	1+1	Prof. Sharoj Raj Mishra	9851013571
AGE737	Principles and Practices of Organic Agriculture	1+1	Rajendra Dhakal	9865364424
AGE743	Agro-ecotourism	1+1	Prof Dr Dharma Raj Dangol	9855058691
AGE791	Proposal Seminar	0+1	AGE Dept	
	Total	4 + 4 = 8		

9. Soil Science

Course code	Course title	Credit hours	Instructor	Email/Telephone
SSC731	Advances in Soil Chemistry	2+1	Dr Ram K Shrestha	
SSC732	Soil Fertility and Plant Nutrients	2+1	Janma Jay Gairhe + Krishna Aryal	
SSC735	Soil Organic Matter Management	2+0	Keshar Bahadur Khatri	
SSC791	Proposal Seminar	0+1	SSC Dept.	
	Total	6 + 3 = 9		

10. Agricultural Economics

Course code	Course title	Credit hours	Instructor	Email/Telephone
AEC734	Econometrics	2+1	Milan Bhattarai	
AEC737	Agricultural Marketing and Price Policy	3+0	Kamal Regmi	
AEC738	International Agricultural Trade	3+0	Dr Rudra Bahadur Shrestha	rudrabshreatha@gmail.com
AEC746	Natural Resource Economics	3+0	Dr Bikas Poudel	iaasbikash@gmail.com
AEC791	Proposal Seminar	0+1	AEC Dept	
	Total	11 + 2 = 13		

11. Agricultural Extension

Course code	Course title	Credit hours	Instructor	Email/Telephone
EXT733	Group Dynamics and Cooperatives	2+0	Rajesh Paudel	rajesh.paudel@iaas.tu.edu.np
EXT734	Contemporary Policies in Agriculture	2+0	Nirmal Gadai	nirmal.gadai2006@gmail.com
EXT736	Social Mobilization and Decentralized Agriculture	2+1	Santosh Khanal	santosh.khanal@gac.tu.edu.np
EXT737	Program Planning, Monitoring and Evaluation	2+1	Dr. Mahesh Jaishi	mahesh.jaishi@lac.tu.edu.np
EXT739	Community Development and Extension	2+0	Sabin Karki	sabin.karki@lac.tu.edu.np
EXT791	Proposal Seminar	0+1	EXT Dept	
	Total	10 + 3 = 13		

12. Animal Science

Course code	Course title	Credit hours	Instructor	Email/Telephone
ANS732	Applied Animal Nutrition and Feed Formulation	2+1	Dr Arjun Acharya	
ANS734	Dairy Science and Milk Processing Technology	2+1	Utsav Pandey	
ANS736	Meat Science and Carcass Quality Evaluation	1+1	Shiva Khanal	
ANS739	Livestock Business Management	1+1	TBD	
ANS744	Livestock Biotechnology and Genetic Engineering	2+0	Mitesh Shrestha	
ANS791	Proposal Seminar	0+1	ANS Dept.	
	Total	8 + 5 = 13		

13. Animal Nutrition

Course code	Course title	Credit hours	Instructor	Email/Telephone
ANU733	Advanced Poultry Nutrition and Feeding Management	2+1	TBD	
ANU734	Swine and Companion Animal Nutrition	2+1	Prabin Pandey	
ANU739	Fodder Production and Processing Technology	2+1	Dr. Sujaya Upreti	
ANU742	Rumen Microbiology and Biotechnology	2+0	TBD	
ANU791	Proposal Seminar	0+1	ANU Dept.	
	Total	8 + 4 = 12		

14. Aquaculture

Course code	Course title	Credit hours	Instructor	Email/Telephone
AQU733	Fish Nutrition and Feeding Management	2+1	Prof Dr DK Jha	dkjha@afu.edu.np
AQU736	Hatchery Management and Seed Production	2+1	Prof Dr RB Mandal + Iswori S. Mahato	
AQU738	Post-harvest Management and Supply Chain in Fisheries	2+0	Suraj Singh	
AQU791	Proposal Seminar	0+1	AQU Dept.	
	Total	6 + 3 = 9		

15. Veterinary Surgery and Radiology

Course code	Course title	Credit hours	Instructor	Email/Telephone
VSR735	Diagnostic Imaging Techniques	2+1	Dr Monalisa Khanal	
VSR738	Animal Soft Tissue Surgery	2+1	Dr Anu Duwal	
VSR739	Orthopedic and Limb Surgery	2+1	Dr. Ganga Prasad Yadav	
VSR791	Proposal Seminar	0+1	VSR Dept.	
	Total	6 + 4 = 10		

16. Veterinary Theriogenology

Course code	Course title	Credit hours	Instructor	Email/Telephone
VGO732	Advances in Obstetrics	2+1	Dr Shambhu Shah	
VGO735	Physiopathology of Reproduction in Domestic Animals	2+1	Dr Manish Gautam	
VGO441	Advances in Male and Female Infertility	1+1	Dr Grihamani Nepal	
VGO791	Proposal Seminar	0+1	VGO Dept.	
	Total	5 + 4 = 9		

17. Veterinary Epidemiology and Public Health

Course code	Course title	Credit hours	Instructor	Email/Telephone
VEP732	Advances in Veterinary Public Health	2+1	Dr Sujan Rana	
VEP737	Bacterial Zoonosis Recognition and Management	1+1	Dr Surendra Karki	
VEP742	Herd Health Management and Biosecurity	1+1	Dr Naresh Shah	
VEP791	Proposal Seminar	0+1	VEP Dept.	
	Total	4 + 4 = 8		

Master Degree (Second Year Second Semester)

1. Departmental : M.Sc.Thesis (800)