

ORDER

The following courses will be offered to M.Sc. (Ag.), A.B.M. & Ph.D. students for 1st Semester, Session 2023-24 as per BSMA Syllabi-2021.

Course No.	Course Title	Credit	Instructor(s)
Common courses compulsory for all M.Sc. (Ag.) & Ph.D. Students: Following common courses are compulsory for all M.Sc. (Ag.) & Ph.D. Students (Those who have already studied in M.Sc. don't need to study again).			
PGS-501	Library and Information Services	1 (0+1)	Dr. S.K. Sachan
PGS-504	Basic Concepts in Laboratory Techniques	1 (0+1)	Dr. Alok Kumar Pandey Dr. N.A. Khan
PGS-503	Intellectual Property and its Management in Agriculture	1 (1+0)	Dr. S.C. Vimal
Supporting courses for M.Sc. (Ag.) & Ph.D. Students: Following courses will be offered through concerned departments. Select one supporting course as per your need from the following list apart from STAT-502 which is compulsory for all M.Sc. (Ag.) & Ph.D. Students			
1- BIOCHEM-501: Basic Biochemistry 4(3+1)			
2- STAT-502: Statistical Methods for Applied Sciences 4 (3+1)			
Department of Agronomy			
AGRON-501	Modern Concepts in Crop Production	3(3+0)	Dr. A.K. Singh Dr. Rajesh Kumar Dr. Vishuddha Nand
AGRON-502	Principles and practices of soil fertility and nutrient management	3(2+1)	Dr. A.K. Singh & Dr. Neeraj Kumar
AGRON-505	Conservation Agriculture	2(1+1)	Dr. A.K. Singh Dr. Vishuddha Nand
AGRON-506	Agronomy of major Cereals and Pulses	2(2+0)	Dr. Vishuddha Nand Dr. Rajesh Kumar
AGRON-513	Principles and practices of organic farming	3(2+1)	Dr. A.K. Singh & Dr. Vishuddha Nand
AGRON-560	Master's research	Variable	Variable Advisors
AGRON-600	M.Sc. (Ag) Research	Variable	Variable Advisors
AGRON-601	Current trends in Agronomy	3(3+0)	Dr. A.K. Singh Dr. Rajesh Kumar
AGRON-603	Irrigation management	3(2+1)	Dr. A.K. Singh Dr. Vishuddha Nand
AGRON-691	Ph.D. Seminar	1(0+1)	Dr. A.K. Singh Dr. Rajesh Kumar
AGRON-699	Doctoral Research	Variable	Major Advisor
AGRON-700	Ph.D. Research	Variable	Major Advisor
Department of Agricultural Biochemistry			
BIOCHEM- 501	Basic Biochemistry .	4(3+1)	Dr. Ramesh Pt. Singh Dr. Pratibha Singh Dr. R.P. Singh
BIOCHEM -503	Enzymology.	3(2+1)	Dr. Pratibha Singh Dr. Ramesh Pt. Singh Dr. R.P. Singh
BIOCHEM-509	Nutritional Biochemistry.	3(2+1)	Dr. R.N. Kewat Dr. Pratibha Singh
BIOCHEM-510	Nitrogen and Sulphur Metabolism.	3(2+1)	Dr. Pratibha Singh Dr. R.N. Kewat Dr. R.P. Singh
BIOCHEM- 599	Master Research	Variable	Major Advisor
BIOCHEM- 600	M.Sc. (Ag) Research	Variable	Variable Advisors
BIOCHEM-601	Advanced Enzymology.	3(2+1)	Dr. Pratibha Singh Dr. Ramesh Pt. Singh
BIOCHEM-603	Biochemistry of biotic and abiotic stress.	3(3+0)	Dr. R.P. Singh Dr. R.N. Kewat

			Dr. Pratibha Singh
BIOCHEM-691	Doctoral Seminar I	1(0+1)	Dr. Pratibha Singh
BIOCHEM-699	Doctoral Research	Variable	Major Advisors
BIOCHEM-700	Ph.D. Research	Variable	Major Advisors
Department of Agri-Business and Management			
I- Year, I- Semester:			
ABM 501	Principles of Management and Organizational Behavior	3 (3+0)	Dr. K.K. Singh Dr. Supriya
ABM 502	Managerial Accounting and Control	3 (3+0)	Dr. K.K. Singh Dr. R.R. Kushwaha
ABM 503	Applied Agribusiness Economics	2 (2+0)	Dr. Supriya Dr. K.K. Singh
ABM 506	Agricultural and Food Marketing Management-I	2 (2+0)	Dr. K.K. Singh Dr. Supriya
ABM 508	Agri Supply Chain Management	2 (2+0)	Dr. R.R. Kushwaha Dr. K.K. Singh
ABM 537	Operation Research	2 (2+0)	Dr. K.K. Singh Dr. Supriya
ABM 541	Computer Applications for Agribusiness	3 (3+0)	Dr. K.K. Singh Dr. Supriya
ABM 543	Agribusiness Environment & Policy	2 (2+0)	Dr. K.K. Singh Dr. R.R. Kushwaha
II- Year, I- Semester:			
ABM 507	Agricultural and Food Marketing Management-II	2 (2+0)	Dr. K.K. Singh Dr. Supriya
ABM 511	Rural Marketing	3 (3+0)	Dr. K.K. Singh Dr. R.R. Kushwaha
ABM 518	Food Retail Management	2 (2+0)	Dr. K.K. Singh Dr. Supriya
ABM 519	Management of Agricultural Input Marketing	2 (2+0)	Dr. R.R. Kushwaha Dr. K.K. Singh
ABM 536	Strategic Management for Agribusiness Enterprises	2 (2+0)	Dr. K.K. Singh Dr. R.R. Kushwaha
ABM 538	Financial Management in Agri Business	2 (2+0)	Dr. Supriya Dr. R.R. Kushwaha
ABM 542	Project Management and Agri Business Entrepreneurship	3 (3+0)	Dr. K.K. Singh Dr. Supriya
ABM 599	Project Work	5 (0+5)	Major Advisor
Department of Agricultural Economics			
AEC-501	Micro Economics Theory & Applications	3(3+0)	Dr. Supriya Dr. R.R. Kushwaha
AEC-503	Agricultural Marketing and Price Analysis	3(2+1)	Dr. R.R. Kushwaha Dr. K.K. Singh
AEC-506	Agricultural Development and Policy Analysis	2(2+0)	Dr. R.R. Kushwaha Dr. K.K. Singh
AEC-508	Linear Programming	2(1+1)	Dr. K.K. Singh Dr. Vishal Mehta
AEC-509	Research Methodology for social science	2(1+1)	Dr. K.K. Singh Dr. Supriya
AE-591	M.Sc. (Ag) Seminar	1(0+1)	Dr. R.R. Kushwaha
AE-600	M.Sc. (Ag) Research	Variable	Variable Advisors
AEC-601	Adv. Micro Economics Analysis	2(1+1)	Dr. Supriya Dr. K.K. Singh
AEC-606	Adv. Agricultural Marketing and Price	3(2+1)	Dr. R.R. Kushwaha

	Analysis		Dr. K.K. Singh
AEC-605	Operation Research	3(2+1)	Dr. K.K. Singh Dr. Manish
COMMON	Research and publication Ethics	2(2+0)	Dr. K.K. Singh Dr. R.R. Kushwaha
AEC-660	Doctoral Seminar-I	1(1+0)	Dr. K.K. Singh Dr. R.R. Kushwaha
AEC-699	Thesis Research	Variable	Variable Advisors
AE-700	Ph.D. Research	Variable	Variable Advisors
Department of Agril. Meteorology			
AGM-501	Fundamentals of Meteorology	3(2+1)	Dr. S.R. Mishra Sri A.N. Mishra
AGM-503	Crop Weather Relationship	2(2+0)	Dr. A.K. Singh Dr. S.R. Mishra
AGM-504	Agro-Meteorological measurements & Instrumentation	3(1+2)	Sri A.N. Mishra Dr. S.R. Mishra
AGM-505	Crop Mico-Meteorology	3(2+1)	Dr. S.R. Mishra Sri A.N. Mishra
AGM-506	Evapotranspiration & Soil water balance	3(2+1)	Sri A.N. Mishra Dr. S.R. Mishra
AGM-599	Master's Research	Variable	Variable advisor
AGM-700	M.Sc. (Ag) Research	Variable	Variable Advisors
AGM-601	Climate Change and sustainable development	3(2+1)	Dr. S.R. Mishra Dr. A.K. Singh
AGM-602	Meteorology of Air Pollution	4(2+2)	Dr. S.R. Mishra Dr. A.K. Singh
AGM-603	Livestock and Fisheries Meteorology	4(2+2)	Dr. S.R. Mishra Dr. A.K. Singh
AGM-691	Doctoral Seminar	1(0+1)	Dr. S.R. Mishra Dr. A.K. Singh
AGM-699	Doctoral Research	Variable	Variable advisors
AGM-700	Ph.D. Research	Variable	Variable advisors
Department of Agricultural Statistics			
*STAT 552	Probability Theory	2 (2+0)	Dr. Manish Kumar Dr. Vishal Mehta
*STAT 553	Statistical Methods	3 (2+1)	Dr. Vishal Mehta Dr. Manish Kumar
STAT 501	Mathematics for Applied Sciences	2 (2+0)	Dr. Manish Kumar Dr. Vishal Mehta
STAT 502	Statistical Methods for Applied Sciences	4(3+1)	Dr. Vishal Mehta Dr. Manish Kumar
STAT 511(R)	Essential Statistical Method	3(2+1)	Dr. Vishal Mehta Dr. Manish Kumar
*STAT 565	Statistical Genetics	3 (2+1)	Dr. Manish Kumar Dr. Vishal Mehta
*STAT 571	Multivariate Analysis	3(2+1)	Dr. Manish Kumar Dr. Vishal Mehta
STAT 599	Master's Research	Variable	Major Advisors
STAT-600	M.Sc. (Ag) Research	Variable	Variable Advisors
*STAT 601	Advanced Data Analytics	3 (1+2)	Dr. Vishal Mehta Dr. Manish Kumar
STAT 613	Advanced Sampling Techniques	3 (2+1)	Dr. Manish Kumar Dr. Vishal Mehta
*STAT 602	Simulation Techniques	2(1+1)	Dr. Vishal Mehta Dr. Manish Kumar
STAT 699	Doctoral Research	Variable	Major Advisors
STAT-700	Ph.D. Research	Variable	Major Advisors

Department of Crop Physiology

PP 501	Principals of Plant Physiology- I : Plant Water Relations and minerals Nutrition	3(2+1)	Dr. R. K.Yadav Dr. Alok. Kumar Singh
PP 502	Principles of Plant Physiology-II: Metabolic Processes and Growth Regulation	3(2+1)	Dr. R. K.Yadav Dr. A. K. Singh
PP 503	Plant Developmental Biology: Physiological and Molecular Basis	3(2+1)	Dr. A. K.Singh Dr. S. Prasad
PP 510	Seed Physiology	3(2+1)	Dr. Alok. Kumar Singh Dr. Raj Bahadur
PP 591	Master's Seminar	1(1+0)	Dr. A. K. Singh
PP 599	Master Research	Variable	Variable Advisors
CP-600	M.Sc. (Ag) Research	Variable	Variable Advisors
PP 601	Functional Genomics and Genes Associated with a Few Physiological Processes	2(2+0)	Dr. A. K. Singh Dr. S. Prasad
PP 602	Signal Perceptions and Transduction and Regulation of Physiological Processes	2(2+0)	Dr. Alok Kumar Singh Dr. A. K. Singh
PP 691	Doctoral Seminar I	1(1+0)	Dr. A. K. Singh
PP 699	Doctoral Research	Variable	Variable Advisors
CP-700	Ph.D. Seminar	Variable	Variable Advisors

Department of Entomology

ENT 501	Insect Morphology	3 (2+1)	Dr. Sameer Kumar Singh Dr. Umesh Chandra
ENT 502	Insect Anatomy and Physiology	3 (2+1)	Dr. Sameer Kumar Singh
ENT 504	Insect Ecology	3 (2+1)	Dr. Pankaj Kumar
ENT 515	Techniques in Plant Protection	1 (0+1)	Dr. Umesh Chandra Dr. Sameer Kumar Singh
ENT 506	Toxicology of Insecticides	3 (2+1)	Dr. Umesh Chandra Dr. Sameer Kumar Singh
ENT 509	Pests of Field Crops	3 (2+1)	Dr. Umesh Chandra
ENT 508	Concepts of Integrated Pest Management	2 (2+0)	Dr. Sameer Kumar Singh Dr. Umesh Chandra
ENT 599	Master's Research	Variable	Variable Advisors
ENT-600			
ENT 602	Insect Physiology and Nutrition	3 (2+1)	Dr. Pankaj Kumar
ENT 604	Insect Behaviour	2 (1+1)	Dr. Umesh Chandra Dr. Sameer Kumar Singh
ENT 603	Insect Ecology and Diversity	3 (2+1)	Dr. Pankaj Kumar
ENT 610	Integrated Pest Management	2 (2+0)	Dr. Umesh Chandra Dr. Sameer Kumar Singh
ENT-691	Ph.D. Seminar	1(0+1)	Dr. Umesh Chandra Dr. Sameer Kumar Singh
ENT-699	Doctoral Research	Variable	Variable Advisors
ENT-700	Ph.D. Research	Variable	Advisors Advisors

Department of Extension Education

Ext-111	Rural Sociology and Educational Psychology	2(2+0)	Dr. R.K. Doharey Dr. N.R. Meena
Ext-112	Human Values and Ethics	1(1+0)	Dr. N.R. Meena Dr. R.K. Doharey
Ext-311	Entrepreneurship Development and Business Communication	2(1+1)	Dr. N. R. Meena Dr. R.K. Doharey
Ext-501	Extension Landscape	2(2+0)	Dr. N.R. Meena Dr. R.K. Doharey
Ext-502	Applied Behaviour Change	3(2+1)	Dr. R.K. Doharey Dr. N.R. Meena
Ext-503	Organisational Behaviour and Development	3(2+1)	Dr. N.R. Meena Dr. R.K. Doharey

Ext-506	ICTs for agricultural extension and advisory services	3(2+1)	Dr. R.K. Doharey Dr. N.R. Meena
Ext-507	Evaluation and Impact assessment	3(2+1)	Dr. R.K. Doharey Dr. N.R. Meena
Ext-510	Gender Mainstreaming	3(2+1)	Dr. N.R. Meena Dr. R.K. Doharey
Ext-592	M.Sc. (Ag.) Seminar	Variable	Major Advisor
Ext-599	M.Sc. (Ag.) Research	Variable	Variable Advisor
EXT-600	M.Sc. (Ag) Research	Variable	Variable Advisors
EXT-601	Policy Engagement and Extension	3(2+1)	Dr. R.K. Doharey Dr. N.R. Meena
EXT-605	Risk Management and Climate Change Adaption	3(2+1)	Dr. R.K. Doharey Dr. N.R. Meena
EXT-603	Technology Commercialization and Incubation	3(2+1)	Dr. N.R. Meena Dr. R.K. Doharey
EXT-612	Advances in Training Technology	3(2+1)	Dr. N.R. Meena Dr. R.K. Doharey
EXT-691	Ph.D. Course Seminar	1(0+1)	Major Advisor
Ext-692	Doctoral Research	Variable	Major Advisors
EXT-700	Ph. D. Research	Variable	Major Advisors
Department of Genetics & Plant Breeding			
GPB-501	Principles of Genetics	3(2+1)	Dr. Piyusha Singh Dr. Shiva Nath
GPB-502	Principles of Breeding	3(2+1)	Dr. Shiva Nath Dr. Piyusha Singh
GPB-505	Principles of Cytogenetics	2(1+1)	Dr. Shiva Nath Dr. Saurabh Dixit
GPB-510	Seed Production and Certification	2(1+1)	Dr. S. C. Vimal
GPB-511	Crop Breeding –I (Kharif Crops)	3(2+1)	Dr. Shiva Nath Dr. Saurabh Dixit
GPB-591	M.Sc. (Ag.) Seminar	1(0+1)	Dr. S. C. Vimal Dr. Piyusha Singh
GPB-599	M.Sc. (Ag.) Research	Variable	Variable Advisors
GPB-600	M.Sc.(Ag.) Research	Variable	Variable Advisors
GPB-602	Advances in Biometrical Genetics	3(2+1)	Dr. Piyusha Singh Dr. Shiva Nath
GPB-609	IPR and Regulatory Mechanism (e course)	1(1+0)	Dr. Piyusha Singh Dr. Shiva Nath
GPB-691	Ph.D. Seminar	1(0+1)	Dr. S. C. Vimal Dr. Shiva Nath
GPB 699	Doctoral Research	Variable	Variable Advisors
GPB-700	Ph.D. Research	Variable	Variable Advisors
Department of Plant Pathology			
Courses for 1st Year Students:			
PL PATH 501	Mycology	3(2+1)	Dr. R. S. Mishra Dr. V. Prasad
PL PATH 505	Principles of Plant Pathology	3(2+1)	Dr. Subhash Chandra Dr. Pradeep Kumar
PL PATH 506	Techniques in Detection and Diagnosis of Plant Diseases	2(0+2)	Dr. H. K. Singh Dr. S. N. Rahul
PL PATH 502	Plant Virology	3(2+1)	Dr. S. K. Singh Dr. S.N. Rahul
PL PATH 504	Plant Nematology	3(2+1)	Dr. R. Chand Dr. Subhash Chandra
PL PATH 591	Master's Seminar	1(0+1)	Dr. S. N. Rahul Dr. H. K. Singh
PP-591	M.Sc. (Ag.) Seminar	1(0+1)	Variable Advisors

PP-600	M.Sc. (Ag.) Research	Variable	Variable Advisors
PL PATH 599	M.Sc. (Ag.) Research	Variable	Variable Advisors
PP-600	M.Sc. (Ag.) Research	Variable	Variable Advisors
PL PATH 604	Molecular Basis of Host-pathogen Interaction	3(2+1)	Dr. S. N. Rahul Dr. S. K. Singh
PP 615	Bacterial, Viral and Virus like Diseases of Plants	2(1+1)	Dr. H. K. Singh Dr. Pradeep Kumar
PP 616	Insect Vectors of Plant Viruses and other Pathogens	2(1+1)	Dr. S. K. Singh Dr. Subhash Chand
PL PATH 603	Advances in Plant Pathogenic Prokaryotes	3(2+1)	Dr. S. K. Singh Dr. S.N. Rahul
PP 691/PL PATH 692	Ph.D. Seminar	1(0+1)	Dr. S. K. Singh Dr. S.N. Rahul
PL PATH 699	Doctoral Research	Variable	Variable Advisors
PP-700	Ph.D. Research	Variable	Variable Advisors
Department of Plant Molecular Biology and Genetic Engineering			
MBB 503	Molecular Cell Biology	3(3+0)	Dr. Shambhoo Prasad Dr. Adesh Kumar
MBB 505	Omics and Systems Biology	3(2+1)	Dr. N.A. Khan Dr. D.K. Dwivedi
MBB 509	Plant Tissue Culture	3(2+1)	Dr. D.K. Dwivedi, Dr. N.A. Khan
MBB 510	Microbial and Industrial Biotechnology	3(2+1)	Dr. Adesh Kumar Dr. Shambhoo Prasad
MBB 591	M.Sc (Ag.) Seminar	1(0+1)	Dr. D.K. Dwivedi
MBB 599	M.Sc.(Ag.) Research	variable	Major Advisors
BT-600	M.Sc.(Ag.) Research	variable	Major Advisors
MBB 601	Plant Molecular Biology	3(3+0)	Dr. D.K. Dwivedi, Dr. N.A. Khan
MBB 602	Plant Genome Engineering	3(3+0)	Dr. Shambhoo prasad Dr. Adesh kumar
MBB 605	Plant Microbe Interaction	2(2+0)	Dr. Adesh Kumar Dr. Shambhoo Prasad
MBB 691	Ph.D. Seminar I	1(0+1)	Dr. D.K. Dwivedi
MBB699	Doctoral Research	Variable	Variable Advisors
BT-700	Ph. D. Research	Variable	Variable Advisors
Department of Soil Science & Agricultural Chemistry			
Soil 504	Soil Mineralogy, Genesis and Classification	3(2+1)	Dr. Ved Prakash Dr. Robin Kumar Dr. Suresh Kumar
Soil 506	Soil Biology and Biochemistry	3(2+1)	Dr. Adesh Kumar Dr. Alok Kumar Pandey
Soil 510	Analytical Technique and Instrumental Methods in Soil and Plant Analysis	2(0+2)	Dr. Ved Prakash Dr. Suresh Kumar Dr. Alok Kumar Pandey
Soil-511	Management of problematic soils and water	2(1+1)	Dr. Suresh Kumar Dr. Ved Prakash
Soil 599	Master's Research	Variable	Variable Advisors
SS-600	M.Sc. (Ag) Research	Variable	Variable Advisors
Soil 604	Soil Genesis and Micromorphology	2(2+0)	Dr. Ved Prakash Dr. Neeraj Kumar Dr Robin Kumar
Soil 605	Bio-chemistry of Soil Organic Matter	2(2+0)	Dr. Alok Kumar Pandey Dr. Adesh Kumar
SS-699	Doctoral Research	Variable	Variable Advisors
SS-700	Ph.D. Research	Variable	Variable Advisors

Section of Seed Science & Technology			
SST-501	Seed Developmental Biology	2(1+1)	Dr. S.C.Vimal
SST-502	Seed Dormancy and Germination	2(1+1)	Dr. S.C.Vimal Dr. Raj Bahadur
SST-503	Seed Production Principles and Techniques in Field Crops	3(2+1)	Dr. S.C.Vimal
SST-599	M.Sc. (Ag.) Research	Variable	Major Advisor
SST-600	M.Sc. (Ag.) Research	Variable	Major Advisor
SST 509	Seed Quality Testing and Enhancement	2 (1+1)	Dr. S.C.Vimal
SST 512	Seed Health Testing and Management	2 (1+1)	Dr. S.C.Vimal
SST-599	Research	Variable	Major Advisor
SST-591	Seminar	1(0+1)	Dr. S.C.Vimal
SST-601	Hybrid Seed Production Technology	3(2+1)	Dr. S.C.Vimal
SST-603	Physiology and Biochemistry of Seeds	2(1+1)	Dr. S.C.Vimal Dr. Raj Bahadur
SST 606	Advances in Seed Science	2 (2+0)	Dr. S.C.Vimal
SST-691	Seminar	1(0+1)	Dr. S.C.Vimal
SST-699	Doctoral Research	Variable	Variable Advisors
SST-700	Ph.D. Research	Variable	Variable Advisors

(Ved Prakash)
Dean, Agriculture

College of Agriculture
Acharya Narendra Deva University of Agriculture & Technology, Kumarganj, (U.P.)

No.: ANDUAT-51/1/DCA/Course Offer/2023-24/...7.2.1...

Dated: 21/07/2023

Copy forwarded to the following for information and necessary action please-

1. Registrar
2. Dean, College of Fisheries/Horticulture & Agro-Forestry/Home Science/Veterinary Science
3. Dean, Student' Welfare
4. All Head of Departments
5. All Course Instructor
6. SVC for kind information of Hon'ble Vice-Chancellor
7. Incharge Academic (College of Agriculture)
8. All students
9. Notice Board
10. T.A. (College of Agriculture)
11. Office file/UG/PG/Ph.D.
12. Dr. Vishal Mehta, Asstt.Prof.(Statistics) for uploading in website.

(Ved Prakash)
Dean, Agriculture