

**B.Sc. (Ag.) & MBA (Agri-Business) Integrated Degree Programme**  
**Semester- wise distribution of courses syllabus Session 2018-19**

<b>Semester I</b>				
	<b>S.No.</b>	<b>Course No.</b>	<b>Name of subjects</b>	<b>Credit</b>
<b>D5</b>	1.	HORT 4111	Fundamentals of Horticulture	2 (1+1)
<b>D5</b>	2.	BTOCH 4111	Fundamentals of Plant Biochemistry and Biotechnology	3(2+1)
<b>D5</b>	3.	SCHEM 4111	Fundamentals of Soil Science	3(2+1)
<b>D5</b>	4.	SAF 4111	Introduction to Forestry	2 (1+1)
<b>D5</b>	5.	ENG 4111	Comprehension & Communication Skills in English	2 (1+1)
<b>D5</b>	6.	AGRON 4111	Fundamentals of Agronomy	4(3+1)
<b>D5</b>	7.	MATHS 4111	Introductory Biology*/Elementary Mathematics*	2(1+1)/ 2(2+0)*
<b>D5</b>	8.	AGRON 4112	Agriculture Heritage*	1(1+0)*
<b>D5</b>	9.	EXTED 4111	Rural Sociology & Educational Psychology	2 (2+0)
<b>D5</b>	10.	HVE 4111	Human Values & Ethics (non gradial)	1(1+0)**
<b>D5</b>	11.	NSNC 4111	NSS/NCC/Physical Education & Yoga Practices**	2 (0+2)**
<b>D5</b>	12.	FD 101	Foundation Course	1 (1+0)
<b>TOTAL *R: Remedial course; **NC: Non-gradial courses</b>				<b>19+04*/04*+03**</b>
<b>Semester II</b>				
	<b>S.No.</b>	<b>Course No.</b>	<b>Name of subjects</b>	<b>Credit</b>
<b>D5</b>	1.	PBG 4121	Fundamentals of Genetics	3(2+1)
<b>D5</b>	2.	PPATH 4121	Agricultural Microbiology	2(1+1)
<b>D5</b>	3.	AENGG 4121	Soil and Water Conservation Engineering	2(1+1)
<b>D5</b>	4.	PPHYS 4121	Fundamentals of Crop Physiology	2 (1+1)
<b>D5</b>	5.	AGECON 4121	Fundamentals of Agricultural Economics	2(2+0)
<b>D5</b>	6.	PPATH 4122	Fundamentals of Plant Pathology	4(3+1 )
<b>D5</b>	7.	ENTO 4121	Fundamentals of Entomology	4(3+1)
<b>D5</b>	8.	EXTED 4121	Fundamentals of Agricultural Extension Education	3(2+1)
<b>D5</b>	9.	EXTED 4122	Communication Skills and Personality Development	2(1+1)
<b>D5</b>	10.	FD 102	Foundation Course	1 (1+0)
			<b>Total</b>	<b>25 (17+8)</b>

**Semester III**

	<b>S.No.</b>	<b>Course No.</b>	<b>Name of subjects</b>	<b>Credit</b>
<b>D5</b>	1.	AGRON 4211	Crop Production Technology – I ( <i>Kharif Crops</i> )	2 (1+1)
<b>D5</b>	2.	PBG 4211	Fundamentals of Plant Breeding	3 (2+1)
<b>D5</b>	3.	AGECON 4211	Agricultural Finance and Cooperation	3 (2+1)
<b>D5</b>	4.	COMP 4211	Agriculture Informatics	2(1+1)
<b>D5</b>	5.	AGENGG 4211	Farm Machinery and Power	2 (1+1)
<b>D5</b>	6.	HORT 4211	Production Technology for Vegetables and Spices	2 (1+1)
<b>D5</b>	7.	ENVS 4211	Environmental Studies and Disaster Management	3(2+1)
<b>D5</b>	8.	STAT 4211	Statistical Methods	2 (1+1)
<b>D5</b>	9.	LPM 4211	Livestock and Poultry Management	4 (3+1)
			<b>Total</b>	<b>23(14+9)</b>

**Semester IV**

	<b>S.No.</b>	<b>Course No.</b>	<b>Name of subjects</b>	<b>Credit</b>
<b>D5</b>	1.	AGRON 4221	Crop Production Technology –II ( <i>Rabi Crops</i> )	2(1+1)
<b>D5</b>	2.	HORT 4221	Production Technology for Ornamental Crops, MAP and Landscaping	2(1+1)
<b>D5</b>	3.	AENGG 4221	Renewable Energy and Green Technology	2(1+1)
<b>D5</b>	4.	SCHEM 4221	Problematic Soils and their Management	2(2+0)
<b>D5</b>	5.	HORT 4222	Production Technology for Fruit and Plantation Crops	2(1+1)
<b>D5</b>	6.	PBG 4221	Principles of Seed Technology	3(1+2)
<b>D5</b>	7.	AGRON 4222	Farming System & Sustainable Agriculture	1(1+0)
<b>D5</b>	8.	AGECON 4221	Agricultural Marketing Trade & Prices	3(2+1)
<b>D5</b>	9.	AGRON 4223	Introductory Agro-meteorology & Climate Change	2(1+1)

<b>D5</b>	10.		Elective Course	3 credit
			<b>Total</b>	<b>19(11+8)+ 3</b>
<b>Semester V</b>				
	<b>S.No.</b>	<b>Course No.</b>	<b>Name of subjects</b>	<b>Credit</b>
<b>D5</b>	1.	PPATH 4311	Principles of Integrated Pest and Disease Management	3(2+1)
<b>D5</b>	2.	SCHEM 4311	Manures, Fertilizers and Soil Fertility Management	3 (2+1)
<b>D5</b>	3.	ENTO 4312	Pests of Crops and Stored Grain and their Management	3 (2+1)
<b>D5</b>	4.	PPATH 4312	Diseases of Field and Horticultural Crops and their Management -I	3 (2+1)
<b>D5</b>	5.	PBG 4311	Crop Improvement-I ( <i>Kharif Crops</i> )	2 (1+1)
<b>D5</b>	6.	EXTED 4311	Entrepreneurship Development and Business Communication	2 (1+1)
<b>D5</b>	7.	AGRON 4311	Geoinformatics and Nano-technology for Precision Farming	2(1+1)
<b>D5</b>	8.	AGRON 4312	Practical Crop Production – I ( <i>Kharif crops</i> )	2 (0+2)
<b>D5</b>	9.	IPR 4311	Intellectual Property Rights	1(1+0)
<b>D5</b>	10.		Elective Course	3 credit
			<b>Total</b>	<b>21(12+09)+3</b>

<b>Semester VI</b>				
	<b>S.No.</b>	<b>Course No.</b>	<b>Name of subjects</b>	<b>Credit</b>
<b>D5</b>	1.	AGRON 4321	Rainfed Agriculture & Watershed Management	2 (1+1)
<b>D5</b>	2.	AGENGG 4321	Protected Cultivation and Secondary Agriculture	2 (1+1)
<b>D5</b>	3.	PPATH 4321	Diseases of Field and Horticultural Crops and their Management-II	3 (2+1)
<b>D5</b>	4.	HORT 4321	Post-harvest Management and Value Addition of Fruits and Vegetables	2 (1+1)
<b>D5</b>	5.	ENTO 4321	Management of Beneficial Insects	2 (1+1)
<b>D5</b>	6.	AGRON 4322	Crop Improvement-II ( <i>Rabi crops</i> )	2 (1+1)
<b>D5</b>	7.	AGRON 4323	Practical Crop Production –II ( <i>Rabi crops</i> )	2 (0+2)

<b>D5</b>	8.	AGRON 4324	Principles of Organic Farming	2(1+1)
<b>D5</b>	9.	AGECON 4321	Farm Management, Production & Resource Economics	2 (1+1)
<b>D5</b>	10.	FSN 4321	Principles of Food Science and Nutrition	2(2+0)
<b>D5</b>	11.		Elective Course	3 credits
<b>D5</b>	12.	CA 4321	Consumer Affairs	2(1+1)
		<b>Total</b>		<b>23 (12 + 11)+ 3</b>

### VII Semester

<b>Course No.</b>	<b>Course Title</b>	<b>Credits</b>
AGECON 4411	Marketing Management	3 (2+1)
AGECON 4412	Project Formulation, Evaluation and Monitoring	3 (1+2)
AGECON 4413	Natural Resource Economics and Management	3 (2+1)
EXTED 4411	Visuals and Graphic Communications	3 (1+2)
EXTED 4412	Govt. Policies and Programmers on Agriculture	3 (1+2)
PBG 4411	Advance Seed Technology	3 (1+2)
HORT 4412	Commercial Vegetable Production	3 (1+2)
<b>Total</b>		<b>21 (9+12)</b>

### B.Sc. (Ag.) & MBA (Agri-Business) Integrated Degree Programme

#### VIII Semester

<b>Course No.</b>	<b>Course Title</b>	<b>Credits</b>
ABM-521	Principles Of Management and Organization Behaviour	3 (3+0)
ABM-522	Agribusiness Environment and Policy	2 (2+0)
ABM-	Managerial Economics	3 (3+0)

523		
ABM-524	Managerial Accounting and Control	2 (1+1)
ABM-525	Consumer Behaviour	2 (2+0)
ABM-526	Agriculture Marketing Management	2 (2+0)
ABM-527	Management Information Systems	2 (2+0)
ABM-528	Operations Research	2 (2+0)
ABM-529	Rural Marketing	2 (2+0)
ABM-501	Sales and Distribution Management Marketing	2 (2+0)
ABM-502	Management of Agricultural Input Marketing	2 (2+0)
<b>Total</b>		<b>24 (23+1)</b>

**B.Sc. (Ag.) & MBA (Agri-Business) Integrated Degree Programme  
IX Semester**

<b>Course No.</b>	<b>Course Title</b>	<b>Credits</b>
ABM-531	Agri-Supply Chain Management	2 (2+0)
ABM-532	Human Resource Management	2 (2+0)
ABM-533	Agribusiness Financial Management	2 (2+0)
ABM-534	Production and Operations Management	2 (2+0)
ABM-535	Research Methodology in Business Management	3 (2+1)
ABM-536	Project Management and Entrepreneurship	2 (2+0)
ABM-537	International Trade and Sustainability Governance	2 (2+0)
ABM-538	Quality Management in Agribusiness	2 (2+0)

ABM-539	Agriculture Information System	2 (1+1)
ABM-503	Food Retail Management	2 (2+0)
ABM-504	Problem Solving Methodology	2 (1+1)
<b>Total</b>		<b>23 (20+3)</b>

**B.Sc. (Ag.) & MBA (Agri-Business) Integrated Degree Programme  
X Semester**

**Rural Agricultural Work Experience (RAWE) and Management Traineeship of ABM**

<b>Programme</b>	<b>Duration (Weeks) credits</b>
Master's Seminar	1 (1 Credits)
Research Station/KVK/Including Village Attachment And In-Situ Interaction Of Farmers, Students And Research Station (4 Weeks)	6 (6 Credits)
In-Situ Interaction Of Farmers, College Faculty And Students (2 Weeks)	2 (2 Credits)
* Industrial Attachment/Skill Development/Experiential Learning Courses (8 Weeks)	8 (8 Credits)
Educational Tour (1 Week)	2 (2Credits)
Management, Traineeship Project Report Preparation And Evaluation (8 Weeks)	10 (10 Credits)
<b>Total</b>	<b>29 (29 Credits)</b>

**\* Industrial attachment shall include attachment with any of the following industries/Organizations**

1. Seed industries/companies
2. Fertilizer industries/companies
3. Pesticide industries/companies
4. Biotechnological industries/companies

5. Tissue culture laboratories
6. Bio-Pesticide industries
7. Commercial nurseries/land scaping units
8. Food processing units
9. Agricultural finance institutions/banks/credits societies, etc.
10. Ngo's

**Rural agricultural work experience (RAWEx) and Management Traineeship**

**(0+29)**