

## B.Sc (Hons ) Agriculture Semester Wise Course Lay Out (Proposed)

COURSE NO.	COURSES	CREDIT		
		T	P	Total
<b>A]</b>	<b>Core Courses</b>			
AGRO 111	Fundamental of Agronomy-1	1	1	2
AGRO 112	Introductory Agro-meteorology and Climate change	1	1	2
AHDS 111	Livestock Production & Management	1	1	2
EXTN 111	Rural Sociology & Educational Psychology	2	0	2
HORT 111	Fundamental of Horticulture	1	1	2
LANG 111	Comprehension & Communication Skills in English	1	1	2
MIBO 111	Introductory Microbiology	1	1	2
SSAC 111	Fundamental of soil science	2	1	3
	<b>Total Core Courses</b>	<b>10</b>	<b>7</b>	<b>17</b>
<b>B]</b>	<b>Remedial Courses (3 or 5 Credit )</b>			0
AGH 111	Agricultural Heritage	1	0	1
BIO 111	Introductory Biology	1	1	2
MATH 111	Elementary Mathematics	1	1	2
	<b>Sub Total</b>	<b>3/4</b>	<b>0/1</b>	<b>3/5</b>
<b>C]</b>	<b>Non-Gradial Courses (4 Credit )</b>			0
HVE 111	Human Values & Ethics	1	0	1
DEG 111	Democracy ,Elections and Good Governance	1	0	1
NCC 111/ NSS 111	NCC/ NSS*	0	1	1
PHEY 111	Physical Education and Yoga	0	1	1
	<b>Sub Total</b>	<b>2</b>	<b>2</b>	<b>4</b>
	<b>Total Credits (A+B+C)</b>	<b>15/16</b>	<b>9/10</b>	<b>24/26</b>

**\*Remedial Courses (3/5 Credit)**

**\*\* Non Remedial Courses(4 Credits)**

Students who have Biology in 12<sup>th</sup> std are exempted

Students who have Math in 12<sup>th</sup> std are exempted

\*\*NCC/ NSS

## Semester -II

COURSE NO.	COURSES	CREDIT		
		T	P	Total
<b>A]</b>	<b>Core Courses</b>			
AGRO 123	Fundamental of Agronomy-II	1	1	2
BOT 121	Fundamentals of crop physiology	1	1	2
ECON 121	Fundamental of Agriculture Economics	2	0	2
ENGG 121	Soil and water conservation of Engineering	1	1	2
ENTO 121	Fundamental of Entomology	1	1	2
EXTN 122	Fundamental of Agriculture Extension Education	2	1	3
GPB 121	Fundamental of Genetics	2	1	3
PATH 121	Fundamental of plant Pathology	2	1	3
	<b>Total</b>	<b>12</b>	<b>7</b>	<b>19</b>
<b>B]</b>	<b>Non-Gradial Course</b>			
FRST 121	Introduction to Forestry	1	1	2
EDNT 121	Educational Tour	0	1	1
	<b>Sub Total</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>C]</b>	<b>Common course</b>			
EXTN 123	Communication Skill and Personality Developments	1	1	2
	<b>Sub Total</b>	<b>1</b>	<b>1</b>	<b>2</b>
	<b>Total Credits (A+B+C)</b>	<b>14</b>	<b>10</b>	<b>24</b>

\*Education Tour shall be organized after completion of Sem .2 and before start of sem 3.

### Semester -III

COURSE NO.	COURSES	CREDIT		
		T	P	Total
<b>A]</b>	<b>Core Courses</b>			
AGRO 234	Crop production technology-I( Kharif crops)	1	1	2
AGRO 235	Rainfed agriculture and watershed Management	1	1	2
BIOCHM 231	Fundamental of Plant Biochemistry and Biotechnology	2	1	3
ENGG 232	Farm Machinery and Power	1	1	2
ENTO 232	Insect Ecology and Integrated Pest Management	1	1	2
GPB 232	Fundamental of Plant Breeding	1	1	2
HORT 232	Production Technology for Vegetable and Species	1	1	2
PATH 232	Principles of Integrated Diseases Management	1	1	2
STAT 231	Statistical Method	1	1	2
	<b>Sub Total</b>	<b>10</b>	<b>9</b>	<b>19</b>
<b>B]</b>	<b>Common course</b>			
COMP 231	Agri-Informatics	1	1	2
ESDM 231	Environmental studies and disaster Management	2	1	3
	<b>Subtotal</b>	<b>3</b>	<b>2</b>	<b>5</b>
	<b>Total Credits (A+B)</b>	<b>13</b>	<b>11</b>	<b>24</b>

## Semester -IV

COURSE NO.	COURSES	CREDIT		
		T	P	Total
<b>A]</b>	<b>Core Courses</b>			
AGRO 246	Crop Production Technology -2 (Rabi Crops)	1	1	2
AGRO 247	Farming System and Sustainable Agriculture	1	0	1
AGRO 248	Principal of Organic Farming	1	1	2
AHDS 242	Live stock Breeding and Nutrition	1	1	2
ECON 242	Agriculture Finance and Cooperation	2	1	3
ENGG 243	Renewable Energy and Green Technology	1	1	2
ENTO 243	Pest of Horticulture Crops and their Management	1	1	2
GPB 243	Principles of Seed Technology	1	2	3
HORT 243	Production Technology for Fruit and Plantation Crops	1	1	2
SSAC 242	Problematic Soils and their Management	1	1	2
	<b>Sub Total</b>	<b>11</b>	<b>10</b>	<b>21</b>
<b>B]</b>	<b>Elective courses(3credit)</b>			
ELE BOT 242	Micropropagation Technologies	1	2	3
ELE EXTN 244	Agricultural Journalism	2	1	3
ELE GPB 244	Commercial Plant Breeding	1	2	3
ELE PATH 243	Bio-Fertilizers, Bio-Control Agents and Bio-pesticides	2	1	3
	<b>Subtotal Elective</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>C]</b>	<b>Non-Gradiat Courses</b>			
EDNT 242	Study tour*	0	1	1
	<b>Total credit (A+B+C)</b>	<b>12</b>	<b>13</b>	<b>25</b>

\*Education Tour shall be organized after completion of Sem.3 and before start of sem. 4

## Semester -V

COURSE NO.	COURSES	CREDIT		
		T	P	Total
<b>A]</b>	<b>Core Courses</b>			
AGRO 359	Practical Crops Production -1 (Kharif Crops)	0	1	1
AHDS 353	Technology of Milk and Milk Products.	1	1	2
BOT 353	Intellectual Property Right	1	0	1
ECON 353	Agriculture Marketing Trade and Prices	2	1	3
ENTO 354	Pests of Crops and Stored Grains and their Management -1	1	1	2
GPB 355	Crop Improvement -1 (Kharif Crops )	1	1	2
HORT 354	Production Technology for Ornamental Crops .MAP and Land Scapping	1	1	2
PATH 354	Diseases of Field and Horticultural Crops and their Management	2	1	3
SSAC 353	Manures, Fertilizers and Soil Fertility Management	2	1	3
	<b>Sub Total</b>	<b>11</b>	<b>8</b>	<b>19</b>
<b>B)</b>	<b>Common Courses</b>			
EXTN 355	Entrepreneurship Development and Business Communication	1	1	2
	<b>Subtotal</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>(c)</b>	<b>Elective COURSES ( 3 Credits )</b>			
AGRO 3510	Weed Management	2	1	3
ELE ECON 354	Agribusiness Management	2	1	3
ELE FST 351	Food Safety and Standards	2	1	3
ELE HORT 355	Protected Cultivation of Horticulture Crops	2	1	3
	<b>Sub total</b>	<b>2</b>	<b>1</b>	<b>3</b>
	<b>Total credit (A+B+C)</b>	<b>14</b>	<b>10</b>	<b>24</b>

## Semester –VI

COURSE NO.	COURSES	CREDIT		
		T	P	Total
<b>A]</b>	<b>Core Courses</b>			
AGRO 3611	Practical Crops Production -2 (Rabi Crops)	0	1	1
AGRO 3612	Geo-Information and Nano-Technology and Precision Farming	1	1	2
AHDS 364	Sheep Goat and Poultry Production	1	1	2
ECON 365	Farm Management , Production and Resources Economics	1	1	2
ENGG 364	Protected Cultivation and Secondary Agriculture	1	1	2
ENTO 365	Management of Beneficial Insects	1	1	2
FST 362	Principle of Food Science and Nutrition	2	0	2
GPB 366	Crop Improvement -2 (Rabi Crops )	1	1	2
HORT 366	Post –harvest Management and Value Addition of Fruits and Vegetable	1	1	2
PATH 365	Diseases of Field and Horticulture Crops and their Management-2	2	1	3
	<b>Sub Total</b>	<b>11</b>	<b>9</b>	<b>20</b>
<b>B]</b>	<b>Elective COURSES</b>			
ELE AGM 361	System Stimulation and Agro-advisory	2	1	3
ELE HORT 368	Hi tech Horticulture	2	1	3
ELE HORTI 367	Landscaping	2	1	3
ELE SSAC 364	Agrochemicals	2	1	3
	<b>Sub total</b>	<b>2</b>	<b>1</b>	<b>3</b>
	<b>Total credit (A+B+C)</b>	<b>13</b>	<b>10</b>	<b>23</b>

## Semester -VIII

SR.NO	COURSE NO.	CREDIT	COURSE TITLE
1	ELM AGRO 04813	10(0+10)	Organic Farming Production Technology
2	ELM AGRO 4814	10(0+10)	Commercial Production of Organic Inputs
3	ELM AHDS 485	10(0+10)	Poultry Production
4	ELM AHDS 486	10(0+10)	Processing of Milk and Milk Products
5	ELM BOT 481	10(0+10)	Seed Production and Technology
6	ELM BOT 484	10(0+10)	Tissue Culture Technique
7	ELM ENGG 485	10(0+10)	Natural Resources Management
8	ELM ENTO 486	10(0+10)	Mass Production of Bio-agents and Bio-pesticides
9	ELM ENTO 487	10(0+10)	Commercial Beekeeping
10	ELM ENTO 488	10(0+10)	Silkworm Cocoon Production Technology
11	ELM FST 483	10(0+10)	Food Processing
12	ELM HORT 489	10(0+10)	Commercial Horticulture
13	ELM HORT 4810	10(0+10)	Floriculture and Landscape Gardening
14	ELM HORT 4811	10(0+10)	Nursery Management of Horticulture Crops
15	ELM HORT 4812	10(0+10)	Commercial Vegetable Production
16	ELM HORT 4813	10(0+10)	Protected Cultivation of Flowers and Vegetable
17	ELM HORT 4814	10(0+10)	Post –harvest Management and Value Additions of Horticultural Crops
18	ELM PATH 486	10(0+10)	Mushroom Cultivation Technology
19	ELM PATH 487/ELM SSAC 487	10(0+10)	Biofertilizer Production Technology
20	ELM SSAC 485	10(0+10)	Soil, Water, Plant and Fertilizer Analysis
21	ELM SSAC 486	10(0+10)	Agriculture Waste Management

Program will be undertaken by the student preferably during the Eighth semester for duration of **24 weeks** with a Weightage of **0+20** credit hours. The students will register two module ,listed as above ,of **0+10** credit hours each.