THE ASSAM
ROYAL GLOBAL UNIVERSITY
GUWAHATI

ROYAL SCHOOL OF LIFE SCIENCES

(RSLSC)

AGRICULTURE

COURSE STRUCTURE & SYLLABUS

FOR

B.SC. IN AGRICULTURE

(4 YEARS)

W.E.F

AY - 2025- 2026

S. No	Course Title	Credit Hours (T+P)	Total credit hours	Online/ MOOCS credit hours
Semester I				
Deeksharambh (non-gradial course of 15 days duration)		0+2 (Non-Gradial)	02	10 To be taken over the entire durtion from Semesters I-VIII
1.1. Core courses (Major+Minor) to be speficied				
1.1.1	Fundamentals of Agronomy	02+01=03		
1.1.2	Fundamentals of Horticulture	02+01=03		
1.1.3	Fundamentals of Soil Science	02+01=03		
1.1.4.	Principles of Organic Farming (Suggested for Minor)	02+01=03		
1. 2. -Multidisciplinary courses (students may choose any one of the courses) it has to be farming based livelihood systems				
1.2.1	Agroecology & Indigenous Knowledge	03+00=03		
1.2.2	Agribusiness and Rural Development		22	
1.2.3	Urban Farming And landscape design			
1.3. Ability enhancement courses (students may choose any one from 1.3.1 and 1.3.2) 1.3.3 is mandatory				
1.3.1	Personality development	02+00=02		
1.3.2	Communication Skills in English-I	02+00=02		
1.3.3	NSS/NCC	01+00=01		
1.4. Skill enhancement courses				
1.4.1	Basics of Startup and Entrepreneurship	04+00=04		
Total credits		22	22	
Semester II				
2.1. Core courses (Major+Minor) to be speficied				
2.1.1	Fundamentals of Entomology	03+01=04		
2.1.2	Introductory Animal Husbandry	02+01=03		
2.1.3	Farming based livelihood systems (Suggested Minor)	02+01=03		
2.2. Interdisciplinary courses (students may choose any one of the courses) (It has to be Entrepreneurship Development and Business Management)				
2.2.1	Mushroom Cultivation: Spore to Startup	03+00=03		
2.2.2	Production Technology for Vegetables and Spices	03+00=03		
2.2.3	Basics of agricultural marketing and Trade	03+00=03	22	
2.3. Value added courses (students may choose any one of the courses) (To be based on Environmental Studies and Disaster Management)				
2.3.1	Environmental Studies and Sustainable Development	01+02=03		
2.3.2	Disaster Management and Adpatation Strategies	01+02=03		
2.3.3	Ecological Restoration & Conservation	01+02=03		
2.4. Ability enhancement courses (students may choose any one from 2.4.1 and 2.4.2 courses) (Personality Development)				
2.4.1	Soft Skill and Personal Growth	02+00=02		
2,4,2	Stress Management & Positive Thinking	02+00=02		
2.4.3	NCC/NSS (Mandatory)	01+00=01		
2.5. Skill enhancement courses				
2.5.1	Floriculture	00+04=04		
Total credits		22		
2.6.1	Post semester Internship of 10 weeks (UG Certification)	10		

Semester III				
3.1 Advanced level Core courses (Major & Minor to be specified)			20	
3.1.1	Plant Pathology and crop diseases	03+01=04		
3.1.2	Principles of crop Genetics	03+01=04		
3.1.3	Agricultural microbiology and phytoremediation (Minor)	03+01=04		
3.1.4	Crop Production technology-1 (Kharif crops)	03+01=04		
3.2 Ability enhancement courses (students may choose any one of the courses)(Physical Education, First Aid and Yoga Practices)				
3.2.1	Lifestyle Management through Physical Education	01+01=02		
3.2.2	Yoga for Mental Health & Stress Management	02+00=02		
3.3 Skill enhancement courses (students may choose any one of the courses)				
3.3.1	3D graphics	01+01=02		
3.3.2	Bee culture	01+01=02		
Total credits		20		
Semester IV				
4.1. Advanced level core courses (Major+Minor to be specified)			20	
4.1.1	Plant breeding-I	02+01=03		
4,1,2	Crop physiology and biochemistry-I	02+01=03		
4.1.3	Crop Production technology-II (Rabi crops)	02+01=03		
4.1.4	Principles of Agricultural Economics and Farm Management (Minor)	02+01=03		
4.2 Interdisciplinary courses (students may choose any one of the courses) (To be based Agriculture Marketing & Trade)				
4.2.1	Agri-Finance, Marketing Risk and Insurance	02+01=03		
4.2.2	Digital Marketing in Agriculture	02+01=03		
4.2.3	Agri based Value addition Management	02+01=03		
4.3 Value added courses (students may choose any one of the courses) (To be based Agriculture Informatics)				
4.3.1	Agri-informatics	02+01=03		
4.3.2	Data management in Agriculture	02+01=03		
4.3.3	Big Data and AI in Agriculture	02+01=03		
4,4 Skill Development courses (students may choose any one of the courses)				
4.4.1	Vermicomposting	00+02=02		
	Cloud computing	00+02=02		
Total credits		20		
4.5.	Post semester internship (For UG Diploma)	10		
Semester V				
5.1	Core courses (Major +Minor to be specifie)		21	
5.1.1	Agricultural Economics	03+00=03		
5.1.2	Crop physiology and Biochemistry-II	02+01=03		
5.1.3	Plant Breeding- II	02+01=03		
5.1.4	Agri Biotechnology	02+01=03		
5.1.5	Pest management in Crops and Stored Grains	02+01=03		
5.1.6	Diseases of Field & Horticultural Crops & their Management	02+01=03		
5.1.7	Fundamentals of Extension Education (Suggested Minor)	03+00=03		
Total credits		21		
Semester VI				
6.1	Core courses (Major +Minor to be specified)		21	

6.1.1	Principles of Food Science & Nutrition	02+01=03		
6.1.2	Dryland agriculture and Rainfed agriculture	02+01=03		
6.1.3	Basic and Applied Statistics	03+00-03		
6.1.4	Seed Science & Technology	03+00=03		
6.1.5	Geo-informatics and Nanotechnology in agriculture	02+01=03		
6.1.6	Intellectual Property Rights (Suggested Minor)	02+00=02		
6.1.7	Watershed management	02+00=02		
6.1.8	Precision Farming & Sustainable Agriculture	02+00=02		
Total credits		21		
Semester VII				
7.1	Core courses (Major+Minor to be specified)		21	
7.1.1	Agroforestry	02+01=03		
7.1.2	Renewable energy in Agriculture and Allied Sectors	02+01=03		
7.1.3	Weed management	02+01=03		
7.1.4	Soil Fertility Management	02+01=03		
7.1.5	Post-harvest technology of horticulture crops	02+01=03		
7.1.6	Fish Processing and Value Addition	02+01=03		
7.7.7	Fundamentals of Seed Science & Technology (Suggested Minor)	02+01=03		
Total credits		21		
VIII Semester				
8.1	Elective Courses (The Department may offer any five papers in a given year)	03+01=04	20	**As per the 6th Deans committee draft the entire 8th semester is for Internship/ Project/ Student READY of 20 Credits**
8.1.1	Agriculture Waste Management	03+01=04		
8.1.2	Commercial Beekeeping	03+01=04		
8.1.3	Commercial Horticulture	03+01=04		
8.1.4	Seed Production and Technology	03+01=04		
8.1.5	Commercial Sericulture	03+01=04		
8.1.6	Production Technology for Bioagents and Biofertilizer	03+01=04		
8.1.7	Nanobiotechnology	03+01=04		
8.1.8	Food processing	03+01=04		
Total credits		20		
TOTAL CREDITS FOR THE ENTIRE COURSE: 167+20 (Internship)+2 (non-gradial)				