

**RAMAKRISHNA MISSION VIVEKANANDA
EDUCATIONAL AND RESEARCH INSTITUTE
(RKMVERI), Narendrapur Campus**

(Deemed-to-be-University)

(Declared by Government of India under section 3 of UGC Act, 1956)

P.O. Belur Math, District- Howrah, West Bengal: 711202

SCHOOL OF AGRICULTURE & RURAL DEVELOPMENT

Ramakrishna Mission Ashrama, Narendrapur



Four year B. Sc. (Hons.) in 'Agriculture'

PROPOSED COURSE CONTENT (with effect from academic year 2026-27)

Semester-I

Code	Title of the Course	Credits
CC 101	<i>Deeksharambh</i> (Induction cum Foundation Course) (Common Course)	1 week (NG)
AGR 105	Fundamentals of Agronomy	2 + 1 = 3
HORT 108	Fundamentals of Horticulture	2 + 1 = 3
ACSS 106	Fundamentals of Soil Science	2 + 1 = 3
AEX 107	Rural Sociology and Educational Psychology	2 + 0 = 2
CC 102	Communication Skills (Ability Enhancement Course)	1 + 1 = 2
CC 103	Environmental Studies and Disaster Management (Value Added Course)	2 + 1 = 3
CC 104	*NSS - I/NCC - I (Ability Enhancement Course)	0 + 1 = 1
SEC 113	Skill Enhancement Course - I (Post Harvest Processing Technology)	0 + 2 = 2
SEC 162	Skill Enhancement Course - I (Commercial Apiculture)	0 + 2 = 2
SEC 161	Skill Enhancement Course - II (Soil, Water and Plant Testing)	0 + 2 = 2
SEC 109	Skill Enhancement Course - II (Biofertilizer and Vermicompost Production)	0 + 2 = 2
TOTAL		11+10=21

[Note: * denotes National Service Scheme & National Cadet Corps]

Semester-II

Code	Title of the Course	Credits
ACSS 154	Soil Fertility Management	2 + 1 = 3
AEN 155	Fundamentals of Entomology	2 + 1 = 3
PPA 156	Fundamentals of Plant Pathology	2 + 1 = 3
ASC 157	Livestock and Poultry Management	1 + 1 = 2
CC 151	Farming based Livelihood Systems (Multi-Disciplinary Course)	2 + 1 = 3
CC 152	Personality Development (Ability Enhancement Course)	1 + 1 = 2
CC 153	NSS - II/NCC - II (Ability Enhancement Course)	0 + 1 = 1
SEC 166	Skill Enhancement Course - III (Horticulture Nursery Management)	0 + 2 = 2
SEC 163	Skill Enhancement Course - III (Orchard Floor Management)	0 + 2 = 2
SEC 110	Skill Enhancement Course - IV (Production of Ornamental Fish & Aquarium Plants)	0 + 2 = 2
SEC 111	Skill Enhancement Course - IV (Beneficial Insect Farming)	0 + 2 = 2
TOTAL		10+11=21
Internship - I [For UG-Certificate in Agriculture]		0 + 10 = 10

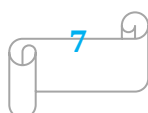
Semester-III

Code	Title of the Course	Credits
AGR 202	Crop Production Technology - I (Kharif crops)	2 + 1 = 3
AGR 254	Water Management	1 + 1 = 2
HORT 208	Production Technology of Fruit and Plantation Crops	1 + 1 = 2
GPB 204	Fundamentals of Genetics	2 + 1 = 3
AEN 205	Fundamentals of Nematology	1 + 1 = 2
AEX 206	Fundamentals of Extension Education	1 + 1 = 2
CC 252	Entrepreneurship Development and Business Communication (Multi-Disciplinary Course)	2 + 1 = 3
CC 201	Physical Education, First Aid, Yoga Practices and Meditation (Ability Enhancement Course)	0 + 2 = 2
SEC 211	Skill Enhancement Course - V (Mushroom Production Technology)	0 + 2 = 2
SEC 212	Skill Enhancement Course - V (Biopesticide Production)	0 + 2 = 2
TOTAL		11+10=21

Semester-IV

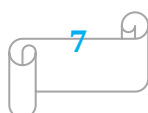
Code	Title of the Course	Credits
AGR 253	Crop Production Technology - II (Rabi crops)	2 + 1 = 3
AGR 203	Principles and Practices of Natural Farming	1 + 1 = 2
HORT 258	Production Technology of Vegetables and Spices	1 + 1 = 2
ACSS 255	Problematic Soils and their Management	1 + 1 = 2
GPB 256	Basics of Plant Breeding	2 + 1 = 3
AEC 207	Principles of Agricultural Economics and Farm Management	2 + 0 = 2
AEG 209	Farm Machinery and Power	1 + 1 = 2
CC 251	Agricultural informatics and Artificial Intelligence (Value Added Course)	2 + 1 = 3
SEC 263	Skill Enhancement Course - VI (Organic Production Technology)	0 + 2 = 2
SEC 214	Skill Enhancement Course - VI (Seed Production Technology)	0 + 2 = 2
SEC 261	Skill Enhancement Course - VI (Micropropagation Technology)	0 + 2 = 2
TOTAL		12+9=21
Internship - II [For UG-Diploma in Agriculture]		0 + 10 = 10

Semester-V



Code	Title of the Course	Credits
AGR 302	Weed Management	1 + 1 = 2
SWC 308	Introductory Agro forestry	1 + 1 = 2
HORT 309	Ornamental Crops, MAPs, and Landscaping	1 + 1 = 2
GPB 353	Crop Improvement - I (Kharif crops)	1 + 1 = 2
PPA 304	Diseases of Field & Horticultural Crops & their Management	2 + 1 = 3
AEN 303	Pest Management in Crops and Stored Grains	2 + 1 = 3
PPH 356	Fundamentals of Crop Physiology	2 + 1 = 3
AMP 352	Introduction to Agro-meteorology	1 + 1 = 2
CC 301	Agricultural Marketing and Trade (Multi-Disciplinary Course)	2 + 1 = 3
TOTAL		13+9=22

Semester-VI



Code	Title of the Course	Credits
AGR 351	Dryland/Rainfed Agriculture and Watershed Management	1 + 1 = 2
GPB 305	Crop Improvement - II (Rabi crops)	1 + 1 = 2
SST 358	Fundamentals of Seed Science & Technology	1 + 1 = 2
ABC 307	Plant Biochemistry	2 + 1 = 3
ABT 354	Fundamentals of Agricultural Biotechnology	2 + 1 = 3
ACSS 306	Agricultural Microbiology and Phyto-remediation	1 + 1 = 2
AEG 359	Renewable Energy in Agriculture and Allied Sector	1 + 1 = 2
AST 355	Basic and Applied Agricultural Statistics	2 + 1 = 3
AEC 357	Agricultural Finance & Cooperation	1 + 1 = 2
TOTAL		12+9=21

Semester-VII

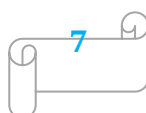
Code	Title of the Course	Credits
-	5 Elective Courses (major/ minor) each of 4 (3+1) credits for B.Sc. (Hons) Agriculture degree (Table 1)	3 + 1 = 4
TOTAL		15+5=20

Semester-VIII

Code	Title of the Course	Credits
AG 451	Student READY (RAWE/ Industrial Attachment /Experiential Learning / Hands-on Training/ Project Work / Internship)	0 + 20 = 20
TOTAL		0 + 20 = 20

Table 1: Bouquet of Elective Courses to be offered in 7th Semesters

Sl. No.	Course No.	Title of Course	Credit(s)
1	EC 401	Dry land and Coastal Agriculture: Scenario in West Bengal	4(3+1)



2	EC 402	Principles and Practices of Organic Farming and Conservation Agriculture	4(3+1)
3	EC 403	Issues and Advances in Weed Management	4(3+1)
4	EC 404	Watershed and Wetland Management	4(3+1)
5	EC 405	Production and Use of Biofertilizers	4(3+1)
6	EC 406	Agriculture Waste Management	4(3+1)
7	EC 407	Deficiency and Toxicity of Elements in Soil, Plant, Water	4(3+1)
8	EC 408	Non-insect Pests of Crops and Their Managements	4(3+1)
9	EC 409	Bio-control Agents and Bio-pesticides in insect-pest Management	4(3+1)
10	EC 410	Insect Ecology & IPM	4(3+1)
11	EC 411	Commercial Entomology	4(3+1)
12	EC 412	Principles and methods of plant disease management	4(3+1)
13	EC 413	Essentials of Plant Pathology	4(3+1)
14	EC 414	Commercial Plant Breeding	4(3+1)
15	EC 415	Weather Services, Crop weather modeling & Climate change in Agriculture	4(3+1)
16	EC 416	Agricultural Journalism	4(3+1)
17	EC 417	Strategies and approaches of Agricultural Extension	4(3+1)
18	EC 418	Agricultural Business Management	4(3+1)
19	EC 419	Agricultural Development Policy	4(3+1)
20	EC 420	Statistical Methods I	4(3+1)
21	EC 421	Statistical Methods II	4(3+1)
22	EC 422	Biotechnology for Crop Improvement	4(3+1)
23	EC 423	Plant Biochemistry and Molecular Biology	4(3+1)
24	EC 424	Plant Developmental Biology	4(3+1)
25	EC 425	Advances in Seed Technology	4(3+1)
26	EC 426	Pesticides Chemistry and Technology	4(3+1)
27	EC 427	Soil and Water Conservation	4(3+1)