

Lokbharati University for Rural Innovation, Sanosara
School of Skills and Entrepreneurship
Academic Year 2025-2026
Department of Agronomy
Bachelor of Rural Studies (B.R.S.)
Specialization: Agronomy
Semester 2

Sr.No	Category	Course Code	Title	Credit
1	Major	03BRSMJ202	Principles of Organic Farming	4
2	Minor	03BRSMN202	Introduction of Animal Husbandry& Dairy Science Part(2)	4
3	Multidisciplinary	03BRSMMD202	Indian Knowledge System	3
4	Ability Enhancement	03BRSAE202	Functional English 2	3
5	Skill Enhancement	03BRSSSE202	Farm Implements and Machinery	3
6	Value Added	03BRSSVA202	Writing Skills	3
Total Credit				20



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Academic year
2025-26

A. Course Profile:

Course Type	Core Compulsory	Year	1
Course Code	03BRSMJ202	Semester	2
Course Title	Principles of organic farming	Credit	2 (LC)+1 (TC) +1(PC)
Certification	NA	Hours Per Week	5

B. Outcomes:

Program Outcomes(PO)	<ol style="list-style-type: none">1. Acquire fundamental and applied knowledge of agriculture, agronomy, and allied sciences relevant to rural development.2. Develop practical skills for sustainable agricultural production, resource management, and farm operations.3. Identify, analyze, and solve field-level agricultural and rural problems using scientific and indigenous knowledge.4. Apply agricultural knowledge for livelihood generation, entrepreneurship, and promotion of sustainable rural livelihoods.
Program Specific Outcomes (PSO)	<ol style="list-style-type: none">1. Understand principles and practices of crop production from traditional to modern agronomic systems.2. Apply knowledge of soil, water, and nutrient management for efficient and sustainable crop production.3. Develop hands-on skills in crop cultivation, cropping systems, and field experimentation.4. Diagnose and manage agronomic constraints related to weeds, moisture stress, and crop productivity under field conditions.

Course Level Outcomes (LO)	<ol style="list-style-type: none"> 1. Develop the basic understanding of organic and natural farming 2. Gain knowledge about organic certification 3. Practically aware about organic crop protection 4. To have hands on experience of the basic organic and natural practices
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C. LURIPedagogy: Approx.20%Lectures, 30%Multimediaand50%Practical(Reference:https://www.ugc.ac.in/pdfnews/8126011_Draft--curriculum-framework-credit-struture-FYUGP.pdf)

D. Course Contents:

Unit	Content	Study Texts	Methods	Specific Tasks/Activities	Evaluation
1.	Introduction: 1.1 Organic farming, principles, objectives and its scope in India 1.2 Initiatives taken by Government (central/state), NGOs and other organizations for promotion of organic agriculture	1.	Group Discussion		PPT (30)
2.	Concept 2.1 Organic ecosystem and their concepts 2.2 Organic nutrient resources and its fortification 2.3 Restrictions to nutrient use in organic farming	1.	Tutorial Self study Guided Video	1.	Attendance, regularity and behaviour (10)
3.	Components of organic Farming 3.1 Crop rotation 3.2 Crop and animal residues 3.3 Manures and green manuring 3.4 Biofertilizers		Discussion	1.	Practical and viva (20)

4.	Crops and its protection 4.1 Choice of crops and varieties in organic farming 4.2 Fundamentals of insect, pest, disease and weed management under organic mode of production;		Guided Video	1.	
5.	Organic certification 5.1 Operational structure of NPOP 5.2 Certification process and standards of organic farming 5.3 Processing, labelling, economic considerations and viability, marketing and export potential of organic products	1.	Guest Lecture	1.	Written exam (20)
6.	Natural Farming 6.1 Concept and its importance 6.2 Components of natural farming 6.3 Crop protection	2.		2.	Attendance test (10)

E. List of Practical:

No	Name	Outcomes	From Unit No.
1.			
2.			
3.			
4.			

F. Minimum Requirements:

No	Type	Yes/No
1.	Journal	Yes
2.	Assignment	Yes
3.	Presentation	Yes
4.	Written Test	Yes
5.	Viva Voce	Yes
6.	Report	Yes

G. Suggested Knowledge Resources:

Print	
Digital	

H. Internship:

Credits	Days	Place	Theme	Outcomes	Evaluation
3	28	Progressive farmer's Farm / Research farm	<ol style="list-style-type: none"> 1. Soil types and tillage 2. Seed treatment and sowing methods 3. Soil fertility and nutrient management 4. Irrigation management 	<ol style="list-style-type: none"> 1. Able to perform tillage for different crops 2. Learn different seed treatment for different crop chemically or organically 3. Collect soil sample and soil analysis 4. Able to apply fertilizer with different techniques 5. Able to irrigate a field with different techniques 	Report and viva voce



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A. Course Profile:

Course Type	Core Compulsory	Year	1
Course Code	03BRSMN202	Semester	2
Course Title	Introduction of Animal Husbandry & Dairy Science Part(2)	Credit	2 (LC)+1 (TC) +1 (PC)
Certification	Certificate Course in Livestock Attendant	Hours Per Week	5

B. Outcomes:

Program Outcomes(PO)	<ol style="list-style-type: none"> 1. Acquire fundamental and applied knowledge of agriculture, agronomy, and allied sciences relevant to rural development. 2. Develop practical skills for sustainable agricultural production, resource management, and farm operations. 3. Identify, analyze, and solve field-level agricultural and rural problems using scientific and indigenous knowledge. 4. Apply agricultural knowledge for livelihood generation, entrepreneurship, and promotion of sustainable rural livelihoods.
Program Specific Outcomes (PSO)	<ol style="list-style-type: none"> 1. Understand principles and practices of crop production from traditional to modern agronomic systems. 2. Apply knowledge of soil, water, and nutrient management for efficient and sustainable crop production. 3. Develop hands-on skills in crop cultivation, cropping systems, and field experimentation. 4. Diagnose and manage agronomic constraints related to weeds, moisture stress, and crop productivity under field conditions.
Course Level Outcomes (LO)	<ol style="list-style-type: none"> 1. Understand the principles Animal Husbandry in Animal Nutrition, Animal breeding, Animal management. 2. Acquire knowledge about Fundamentals of Animal Husbandry and dairy science. 3. Understand the Rural problems and learn to Solve them.

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D. Course Contents:

Unit	Content	Study Resource	Methods	Specific Tasks/Activities	Evaluation
1.	Animal Health & Hygiene 1.1 Importance of Hygiene and sanitation at Dairy Farm 1.2 Important Animal Disease 1.3 Sign and symptom of Healthy and Disease Animal 1.4 Vaccination schedule and First Aid at Dairy Farm	પશુચિકિત્સા વિજ્ઞાનના મૂળ તત્વો ભાગ -1,2	Discussion Self study Field visit in the Cattle Farm	Writing Activities First Aid and Vaccination	Writing test - 10 Assignment - 05 Viva voce - 10
2.	Dairy Industry in India 2.1 History & present scenario of dairy industry in India 2.2 Dairy Industry in Gujarat-White Revolution 2.3 Structure and Function of Village Co-operative Society	દૂધ અને દૂધની બનાવટો પ્રકરણ - 1, 22,23	Guided video Self study Field visit	Group discussion Writing Activities Visit to village Co – Operative	Writing test – 05 Assignment -05 Report Rating - 10
3.	Importance of Milk, Milk Product and its Composition a. Importance of Milk in Human diet b. Physical & Chemical Composition of Milk c. Factors affecting Milk Production and its Composition	દૂધ અને દૂધની બનાવટો પ્રકરણ - 4,8,14	Discussion Laboratory Self study	Milk Analysis in laboratory Writing Activities	Viva voce – 10 Assignment - 05
4.	Milk and Milk Product 4.1 Clean milk Production 4.2 Study of indigenous milk Products	દૂધ અને દૂધની બનાવટો પ્રકરણ - 4,8,14	Discussion Self study Field visit	Writing Activities Data collection of milk production	Writing test -05 Assignment - 05 Presentation – 10 Report Rating - 10

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No	Name	Outcomes	From Unit No.
1	Visit to Village Milk Co-operative Society	Understanding the functioning and significance of village milk co-operative societies in the community.	02
2	Introduction of Different Dairy Equipment (Fat testing, Cream separator etc.)	Familiarity with various dairy equipment excluding fat testing, such as cream separators, and their functions.	03
3	Animal Health Camp	Participation in health camps for cattle, gaining practical knowledge and skills related to animal health management.	01
4	Participation in Vaccination Camp	Acquiring the ability to administer vaccinations to cattle and buffalo as part of community vaccination programs.	01
5	First Aid for Common Disease of Cattle & buffalo	Proficiency in providing first aid treatment to cattle and buffalo for common diseases and health issues.	01
2.	Optimizing Harvesting and Handling for Maximum Crop Yield and Quality	Students will learn crop maturity indices, appropriate harvesting methods, and tools, as well as transportation systems and cold chain management.	2
3.	Ensuring Agro-Product Quality: Storage and Preservation Strategies	Students will comprehend the role of storage and preservation in maintaining agro-product quality, identify storage structures, and understand factors influencing storage and quality parameters.	3
4.	Adding Value to Agricultural Produce: Pre-Processing Techniques	Students will gain knowledge in cleaning, grading, and sorting of agricultural produce, as well as techniques for value addition and product diversification.	4

F. Minimum Requirements:

No	Type	Yes/No
1.	Journal	Yes
2.	Assignment	Yes
3.	Presentation	Yes
4.	Written Test	Yes
5.	Viva Voce	Yes

G. Suggested Knowledge Resources:

Print	<p>પશુ ચિકિત્સા વિજ્ઞાન વિષયના મૂળ તત્વો ભાગ 1,2 – દૂધ અને દૂધની બનાવટો – પશુપાલન – કૃષિ યુનિવર્સિટી જૂનાગઢ Hand book of Animal Husbandry – Dr . Prem Nath A Text book of Animal Husbandry – G.C.Banerjee</p>
Digital	<p>https://yoube/-6U400uy06 Animalmanagement</p> <p>https://you.be/Fps-MbdMSVg</p>



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2025-26

A. Course Profile:

Course Type	Multidisciplinary	Year	1
Course Code	03BRS MD202	Semester	2
Course Title	Indian Knowledge Systems	Credit	3
Certification		Hours Per Week	3

B. Outcomes:

Program Outcomes(PO)	<ol style="list-style-type: none">1. Acquire fundamental and applied knowledge of agriculture, agronomy, and allied sciences relevant to rural development.2. Develop practical skills for sustainable agricultural production, resource management, and farm operations.3. Identify, analyze, and solve field-level agricultural and rural problems using scientific and indigenous knowledge.4. Apply agricultural knowledge for livelihood generation, entrepreneurship, and promotion of sustainable rural livelihoods.
Program Specific Outcomes (PSO)	<ol style="list-style-type: none">1. Understand principles and practices of crop production from traditional to modern agronomic systems.2. Apply knowledge of soil, water, and nutrient management for efficient and sustainable crop production.3. Develop hands-on skills in crop cultivation, cropping systems, and field experimentation.4. Diagnose and manage agronomic constraints related to weeds, moisture stress, and crop productivity under field conditions.
Course Level Outcomes (LO)	<ol style="list-style-type: none">1. Students will develop understanding of knowledge attainment2. Students will appreciate knowledge tradition3. Students will develop analytical thinking skills

	4. Students will apply insights from the Indian Knowledge System to the solve the contemporary rural issues
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C. **LURIPedagogy:**Approx.20%Lectures, 30%Multimediaand50%Practical(Reference:https://www.ugc.ac.in/pdfnews/8126011_Draft--curriculum-framework-credit-struture-FYUGP.pdf)

D. Course Contents:

Unit	Content	Study Resources	Methods	Specific Tasks/Activities	Evaluation
1	Upanishad Ganga (Indian TV Series)				
2	Samvidhaan (Indian TV Series)				
3	HimalaynoPravas by Kaka Saheb Kalelkar				
4	Apano Vaibhav aneVarso by Manubhai Pancholi				

E. List of Practical:

No	Name	Outcomes	From Unit No.
1.			

F. Minimum Requirements:

No	Type	Yes/No
1.	Video Shooting	
2.	Assignment	
3.	Presentation	
4.	Written Test	
5.	Viva Voce	
6.	Poster Making	

Evaluation Scheme

Teaching Scheme (Hours per week)	Evaluation Pattern					
Theory	ESE	IA (In-Class Participation & Assignments)	CSE	Term-End Presentation	Viva	Total Marks

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G. Suggested Knowledge Resources:

Print	
Digital	

	<p>Lokbharati University for Rural Innovation, Sanosara, Bhavnagar School of Skills and Entrepreneurship Department of Agronomy Bachelor of Rural Studies (B.R.S.) Specialization: Agronomy</p>	<p>Academic year 2025-26</p>
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A. Course Profile:

Course Type	Ability Enhancement Course	Year	1
Course Code	03BRSAE202	Semester	2
Course Title	Functional English 2	Credit	3
Certification		Hours Per Week	3

B. Outcomes:

Program Outcomes(PO)	<ol style="list-style-type: none"> 1. Acquire fundamental and applied knowledge of agriculture, agronomy, and allied sciences relevant to rural development. 2. Develop practical skills for sustainable agricultural production, resource management, and farm operations. 3. Identify, analyze, and solve field-level agricultural and rural problems using scientific and indigenous knowledge. 4. Apply agricultural knowledge for livelihood generation, entrepreneurship, and promotion of sustainable rural livelihoods.
Program Specific Outcomes (PSO)	<ol style="list-style-type: none"> 1. Understand principles and practices of crop production from traditional to modern agronomic systems. 2. Apply knowledge of soil, water, and nutrient management for efficient and sustainable crop production. 3. Develop hands-on skills in crop cultivation, cropping systems, and field experimentation.

	4. Diagnose and manage agronomic constraints related to weeds, moisture stress, and crop productivity under field conditions.
Course Level Outcomes (LO)	<ol style="list-style-type: none">1. Demonstrate comprehension of complex written texts by accurately identifying main ideas, supporting details, and implied meanings in various genres of writing.2. Construct coherent narratives using appropriate storytelling techniques, incorporating proper sequence, character development, and descriptive language in both written and oral forms.3. Analyze different viewpoints in discussions and debates, distinguishing between facts and opinions while effectively articulating personal perspectives with supporting evidence.4. Generate well-structured written and oral content that effectively communicates ideas, opinions, and arguments in various academic and professional contexts.

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D. Course Contents:

Unit	Content	Study Resources	Methods	Specific Tasks/Activities	Evaluation
1	Reading Comprehension 1.1. Reading a Short Story and Forming Questions	‘The Last Leaf’ by O. Henry ‘How Much Land Does a Man Need’ by Leo Tolstoy			
2	Reading and Paraphrasing 2.1. Summary Writing 2.3. Scanning and Skimming	‘Where Mind is Without Fear’ by Tagore ‘Travel’ by Gio Evan ‘The War Will End’ by Mahmoud Darwish			
3	Sharing an Opinion	Excerpts from <i>India of My Dreams</i> by M K Gandhi <i>To Students</i> by M K Gandhi (Instructor may also select Interviews appropriate for the language function)			
4	Story Telling	Selected stories from <i>The Mahabharata</i> and <i>The Ramayana</i>			

E. List of Practical:

No	Name	Outcomes	From Unit No.
2.			

F. Minimum Requirements:

No	Type	Yes/No
1.	Video Shooting	
2.	Assignment	
3.	Presentation	
4.	Written Test	
5.	Viva Voce	
6.	Poster Making	

Evaluation Scheme

Teaching Scheme (Hours per week)	Evaluation Pattern					Total Marks
	ESE	IA (In-Class Participation & Assignments)	CSE	Term-End Presentation	Viva	
Theory 4	20	30	20	30	00	100

G. Suggested Knowledge Resources:

Print	
Digital	



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2025-26

A. Course Profile:

Course Type	Skill Enhancement Course	Year	1
Course Code	03BRSSSE202	Semester	2
Course Title	Farm Implements and Machinery	Credit	3
Certification		Hours Per Week	3

B. Outcomes:

Program Outcomes (PO)	<ol style="list-style-type: none"> 1. Acquire fundamental and applied knowledge of agriculture, agronomy, and allied sciences relevant to rural development. 2. Develop practical skills for sustainable agricultural production, resource management, and farm operations. 3. Identify, analyze, and solve field-level agricultural and rural problems using scientific and indigenous knowledge. 4. Apply agricultural knowledge for livelihood generation, entrepreneurship, and promotion of sustainable rural livelihoods.
Program Specific Outcomes (PSO)	<ol style="list-style-type: none"> 1. Understand principles and practices of crop production from traditional to modern agronomic systems. 2. Apply knowledge of soil, water, and nutrient management for efficient and sustainable crop production. 3. Develop hands-on skills in crop cultivation, cropping systems, and field experimentation. 4. Diagnose and manage agronomic constraints related to weeds, moisture stress, and crop productivity under field conditions.
Course Level Outcomes (LO)	<ol style="list-style-type: none"> 1.

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D. Course Contents:

Unit	Content	Study Texts	Methods	Specific Tasks/Activities	Evaluation
1.	Tillage implements 1.1 Hand operated Implements 1.2 Animal operated Implements 1.3 Power operated Implements and machinery	ખેતીતેમજપ્રાથમિકપ્રસંસ્કરણમા ટેનાઓજારો, યંત્રોઅનેસાધનો- ડો. એન. સી. પટેલ, ડો. આર. આર. ગજેરા (AAU)		1.	
2.	High-tech mechanization in Agriculture 2.1 Tractor in Agricultural mechanization	ખેતીતેમજપ્રાથમિકપ્રસંસ્કરણમા ટેનાઓજારો, યંત્રોઅનેસાધનો- ડો. એન. સી. પટેલ, ડો. આર. આર. ગજેરા (AAU)	1.	1.	
3.	Spraying equipments 3.1 Different types of sprayers, dusters	http://eagri.org/eagri50/FMP211/lec12.html	1.		
4.	Processing equipments and machinery 4.1 Post harvest treatment machinery 4.2 Processing machinery	ખેતીતેમજપ્રાથમિકપ્રસંસ્કરણમા ટેનાઓજારો, યંત્રોઅનેસાધનો- ડો. એન. સી. પટેલ, ડો. આર. આર. ગજેરા (AAU)	1.	2.	
5.	Machinery and implements for dairy farms 5.1 Hand operated			1.	

	5.2 implements Power operated implementsand Machinery				
6.7.	Schemes and subsidies for farm machinery and implements	ખેતીતેમજપ્રાથમિકપ્રસંસ્કરણમા ટેનાઓજારો, યંત્રોઅનેસાધનો- ડો. એન. સી. પટેલ, ડો. આર. આર. ગજેરા (AAU)		2.	

E. List of Practical:

No	Name	Outcomes	From Unit No.
3.			
4.			
5.			
6.			
7.			

F. Minimum Requirements:

No	Type	Yes/No
1.	Journal	Yes
2.	Assignment	Yes
3.	Presentation	Yes
4.	Written Test	Yes
5.	Viva Voce	Yes
6.	Report	Yes

G. Suggested Knowledge Resources:

Print	1. ખેતીતેમજપ્રાથમિકપ્રસંસ્કરણમાટેનાઓજારો, યંત્રોઅનેસાધનો-ડો. એન. સી. પટેલ, ડો. આર. આર. ગજેરા (AAU)
Digital	1. http://eagri.org/eagri50/FMP211/lec12.htm



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2025-26

A. Course Profile:

Course Type	Value Added Course	Year	1
Course Code	03BRSVA202	Semester	2
Course Title	Writing Skills	Credit	3
Certification		Hours Per Week	3

B. Outcomes:

Program Outcomes(PO)	<ol style="list-style-type: none"> 1. Acquire fundamental and applied knowledge of agriculture, agronomy, and allied sciences relevant to rural development. 2. Develop practical skills for sustainable agricultural production, resource management, and farm operations. 3. Identify, analyze, and solve field-level agricultural and rural problems using scientific and indigenous knowledge. 4. Apply agricultural knowledge for livelihood generation, entrepreneurship, and promotion of sustainable rural livelihoods.
Program Specific Outcomes (PSO)	<ol style="list-style-type: none"> 1. Understand principles and practices of crop production from traditional to modern agronomic systems. 2. Apply knowledge of soil, water, and nutrient management for efficient and sustainable crop production. 3. Develop hands-on skills in crop cultivation, cropping systems, and field experimentation. 4. Diagnose and manage agronomic constraints related to weeds, moisture stress, and crop productivity under field conditions.
Course Level Outcomes (LO)	<ol style="list-style-type: none"> 1. Demonstrate proficiency in grammar, punctuation, and sentence structure. 2. Organize and structure ideas coherently in written form for a variety of purposes and audiences. 3. Analyze and apply effective writing techniques, such as clarity, conciseness, and cohesiveness.

	4. Develop and revise drafts based on feedback and self-assessment.
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D. Course Contents:

Unit	Content	Study Resources	Methods	Specific Tasks/Activities	Evaluation
1	<p>1.1. Introduction to Writing Process</p> <ul style="list-style-type: none"> • Overview of writing as a process; • pre-writing, drafting, • revising; understanding audience and purpose <p>1.2. Grammar and Sentence Structure</p> <ul style="list-style-type: none"> • Parts of speech, sentence types, and sentence structure; • avoiding fragments and run-ons; • exercises for clarity and precision <p>1.3. Punctuation and Mechanics</p> <ul style="list-style-type: none"> • Proper use of commas, semicolons, colons, and other punctuation; • common grammar pitfalls; • capitalization and spelling 	<p><i>The Story of My Experiments with Truth</i> by M K Gandhi</p>			
2	<p>2.1. Paragraph Development</p> <ul style="list-style-type: none"> • Topic sentences and supporting details; • creating unity and coherence within paragraphs; • using transitions to improve flow <p>2.2. Writing for Different Purposes</p> <ul style="list-style-type: none"> • Exploring different writing types (narrative, descriptive, expository, persuasive); • identifying purpose and adjusting tone accordingly <p>2.3. Style and Clarity</p> <ul style="list-style-type: none"> • Techniques for concise writing; 	<p>Excerpts from <i>SarvodayaneShikshan Bhag 1 and 2</i> by Manubhai Pancholi</p>			

E. List of Practical:

No	Name	Outcomes	From Unit No.
8.			

No	Type	Yes/No
7.	Video Shooting	
8.	Assignment	