



# CVM UNIVERSITY

Aegis: Charutar Vidya Mandal (Estd.1945)

## FACULTY OF ENGINEERING & TECHNOLOGY

Effective from Academic Batch: 2022-23

**Programme:** Bachelor of Technology (Dairy Technology)

**Semester:** VII

**Course Code:**

**Course Title:** Dairy Development and Extension

**Course Group:** Professional Elective Course IV

**Course Objectives:** To learn the basics of dairy extensions, Pre and post independent extension and rural development programs, Primary and secondary groups, quality of leaders as well as programming planning.

### Teaching & Examination Scheme:

Contact hours per week			Course Credits	Examination Marks (Maximum / Passing)				
Lecture	Tutorial	Practical		Theory		J/V/P*		Total
				Internal	External	Internal	External	
2	0	0	2	50/18	50/17	-	-	100/35

\* J: Jury; V: Viva; P: Practical

### Detailed Syllabus:

Sr.	Contents	Hours
1	<b>Basics of Dairy Extension Education:</b> History and concept of extension education, Objectives, functions and Philosophy of extension education, Principles of extension education.	04
2	<b>Extension and Rural development Programmes:</b> Present status of dairy and animal husbandry development program, Pre-Independence extension and rural development programmes, Post-Independence extension and rural development programmes, First-line extension system of ICAR, Innovations in field extension.	08
3	<b>Extension Teaching &amp; Learning Process:</b> Extension learning process, Teaching process in extension, Extension teaching methods, Classifications of teaching method, Selection of extension teaching methods, Importance of Audio-visual-aids	06
4	<b>Groups and Leadership:</b> Introduction of Groups- concepts and types, Definitions, In groups, Out groups and reference groups, Primary and Secondary groups, Formal and informal groups, Introduction of leaders and leadership, Qualities of a good leader, Types of Leader or Leadership style	06
5	<b>Programming Planning:</b> Need, Concept, Objectives and Principles of Programme Planning, Objectives of	04



	programme, Principles of extension programme planning, Programme-Planning Process, Evaluation, Reconsideration,	
	Total	<b>28</b>

### Reference Books:

1	Dairy Extension Education, B. S. Meena, Agrimoon.com
2	Fundamentals of Extension Education and Rural Development with Practical, Sagar Mondal and Om Prakash Mishra, Kalyani Publications
3	Textbook of Rural Development Entrepreneurship & Communication Skill, Sagar Mondal, Kalyani Publications
4	Fundamentals of Agricultural Extension Education, Sagar Mondal, Kalyani Publications

### Supplementary learning Material:

1	NPTEL and Coursera Video lectures.
2	<a href="http://ecoursesonline.iasri.res.in">http://ecoursesonline.iasri.res.in</a>

### Pedagogy: Following one or more points can be incorporated as relevant pedagogy methods.

<ul style="list-style-type: none"> <li>• Direct classroom teaching</li> <li>• Audio Visual presentations/demonstrations</li> <li>• Assignments/Quiz</li> <li>• Continuous assessment</li> <li>• Interactive methods</li> <li>• Seminar/Poster Presentation</li> <li>• Course Projects</li> </ul>
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### Internal Evaluation:

The internal evaluation comprised of written exam (40% weightage) along with combination of various components such as Certification courses, Assignments, Mini Project, Simulation, Model making, Case study, Group activity, Seminar, Poster Presentation, Unit test, Quiz, Class Participation, Attendance, Achievements etc. where individual component weightage should not exceed 20%.

### Suggested Specification table with Marks (Theory) (Revised Bloom's Taxonomy):

Distribution of Theory Marks in %						R: Remembering; U: Understanding; A: Applying; N: Analyzing; E: Evaluating; C: Creating
R	U	A	N	E	C	
10%	45%	20%	10%	10%	5%	

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

### Course Outcomes (CO):

Sr.	Course Outcome Statements	%weightage
CO-1	To understand the function, philosophy and principles of Dairy extension	20
CO-2	To get the knowledge of pre independence and post independence dairy extension and rural development program	30
CO-3	To acquire the information about extension of teaching and learning process for Dairy extension along with audio visual aids.	20



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<b>CO-4</b>	To enhance the knowledge about formation of groups and quality of good leadership with programming planning.	<b>30</b>
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<b>Curriculum Revision:</b>	
Version:	2.0
Drafted on (Month-Year):	June-2022
Last Reviewed on (Month-Year):	-
Next Review on (Month-Year):	June - 2025