Syllabus on Vocational Education and Training Course (VTC)

				ducation and Training Course (VTC)						
Paper Title		: Piggery -I								
CODE		:VTC: 240.4.								
Number of Credits			:4							
Semester			III							
No. of Th	eory Hours	:	One (1	hour)						
Per Week	•		`	,						
No. of Prac	ctical Hours	:'	Three (3	3 Hours)						
per Week			`	Ź						
Outline of th	e Paper:	ı								
Type of	Units in t	he	Hours	Credits	Total	Distribu	tion of Mar	ks (as per	OC-8)	
Course	VTC				Marks					
Piggery-I						In-Semester		End-Semester Theory Propries		
	Unit-I Theo	10X 7	15			Theory 25	Practical	Theory	Practical	
	(25 Marks)	ı y	13			23				
	, ,	IV	90				15		60	
	•	75		4	100					
	Marks)									
Marks Dist	ribution			l Assessi						
		:		al Assess						
Course Obj	ectives		1. Provide students with opportunities to understand the							
			basics of pig farming and its related technology.							
Course	Learning	Α					vill able to	•		
Outcome				-		-	of piggery			
		2. draw the organization chart of piggery								
			3. explain the different Indigenous and Exotic breeds of pigs							
			4. develop a small-scale piggery unit							
			5. choose the housing requirement of piggery							
			6. describe the process for scientific care and management							
			O	f pig farn	ning					
Unit I: (Theory)						_	_		in India with	
15 Hours			special reference to NorthEastern region. Zoological							
		Classification of pigs.								
			• Common terms in relation to pig husbandry. Swine							
		population, Indian and exotic breeds of swine, distribution								
		of swine. Advantages of swine production. Economic								
			tr	aits of sw	vine.					
									t/ sows, care	
		at mating. Care and management of pregnant sows/gilts,								
			ca	are at far	rowing.	Care and	l managen	nent of la	ctation sows	
			aı	nd litters	. Care a	and Man	agement	of piglet	s, colostrum	
			fe	eding, c	reep fee	eding, w	eaning. C	are of g	growing and	
			fi	nishing s	wine.					
UNIT-II: (Practical)		Care and handling of different categories of pigs								
30 Hours			 Identification of different body parts of pigs 							
							• •		temperature,	
		1		, 0		J		0,	1	

	nulsa rata and respiration rate of nige
	pulse rate and respiration rate of pigs.
	Basics of pig housing. Study on suitable sty design for pig forming.
	Study on suitable sty design for pig farming.
UNIT-III: (Practical) 30 Hours	 Identification of different indigenous and exotic breeds of pigs. Study about the economic traits of swine Visit to pig farm and familiarize with various categories of pigs. Visit to local slaughterhouses and collection of data Visit local and improved farmers house and study the existing practices of pig farming.
UNIT-IV: (Practical)	1. Scientific Care and Management of Piggery
30 Hours	i. Care of the Sow and litter at farrowing time.
	ii. Disinfection of pregnant Sow.
	iii. Bedding of farrowing Pen.
	iv. Care of the litters during the first 8 weeks.
	v. Needle Teeth Cutting.
	vi. Creep Feeding and weaning.
Suggested Readings	 A Textbook of Animal Husbandry (2015), OXFORD & IBH Publishing Co. Pvt. Ltd. New Delhi. Chauhan et al. 2024. Swine Production and Management: A Practical Manual. Satish Serial Pub. House, New Delhi. Handbook of Animal Husbandry Published by Indian Council of Agricultural Research, New Delhi. Handbook on Pig Farming and Pork Processing (2018) (Feeding Management, Breeding, Housing Management, Sausages, Bacon, Cooked Ham with Packaging) 2nd Revised Edition. Pig Farming Published Director ICAR-Agricultural Technology Application Research Institute Zone-I, PAU Campus, Ludhiana-141004 0161-2401018, 2401092 Email: atari.ludhiana@icar.gov.in, zcu1ldh@gmail.com Website: www.atari1icar.res.in
Requirements	 Classrooms and Laboratories: Equipped with necessary teaching aids and practical tools. Pig Farms: On-site farm for hands-on training.
	Veterinary Facilities: For health management training.
	• Market Linkages: Exposure to market and processing facilities.
	Any other item as required
Qualified Instructors:	Instructors with experience in Piggery
Zummich mindi detoib.	Certifications or relevant qualifications in Piggery
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Paper Title	: Piggery-II								
CODE	: VTC: 260.4								
Number of	: 4								
Semester		: IV							
No. of Theory Hours Per Week		: One (1 hour)							
	actical Hours	: Thre	e (3 Hou	rs)					
per Week			`	,					
Outline of	the Paper:								
Type of Course	Units in the VTC	Hours	Credits	Total Marks	Distribution of Marks (as per OC-8)				
Piggery-II					In-Seme	ster	End-Sen	nester	
					Theory	Practical	Theory	Practical	
	Unit-I Theory	15			25				
	(25 Marks)		4	100					
	Unit-II to IV Theory (75	90				15		60	
	Marks)								
Marks Dist	ribution		nal Asse						
		: Exter	rnal Asse	essment	: 60				
Course Ob	jectives	To impart students with knowledge on Piggery and acquaint							
		them with the Scientific Breeding, Feeding, Housing,							
		Slaughtering, Marketing and focusing on skill development to							
		meet the demands from ongoing innovations in the field.							
Course Learning		After completion of the course students are able to:							
Outcome		1. demonstrate Scientific feeding techniques for pig farming							
		2. Identify Scientific breeding techniques for pig farming							
		3. develop Scientific housing management for pig farming							
		4. maintenance and sanitation in pig farming.							
		5. identify Symptoms of common diseases of pigs, their							
		prevention and control.							
		6. explore Marketing of pigs and pork.							
		7. demonstrate different methods of slaughter.							
		Calcular of handling has 12 1 1 124 Co. C.							
Unit I: (Th	• Selection of breeding, breeding boars and gilts. System of								
15 Hours		breeding.							
		Adverse effects of inbreeding. System of management of							
		swine.							
		• Feeding Pigs economically, creep feeding. Use of							
		unconventional feed resources.							
	• System of housing and housing requirement of swine.								
	Slaughter and preservation of pork.								
	Marketing of different pig products in India and abroad.								
	Common diseases of pigs, their prevention and control.								
		Use of herbal medicines for disease management.							
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UNIT-II: (I	Selection of breeding stock.								
30 Hours	System of breeding suitable for piggery								

UNIT-III: (Practical) 30 Hours	 Formulation of rations and feeding schedules for various classes of swine. Feeding schedule for various classes of pigs. Feed formulation for various classes of pigs. Pig production system. Design of sty and its various components. Construction of farrowing pen. Housing system of pigs. Hygiene and sanitation maintenance in the housing system
UNIT-IV: (Practical) 30 Hours	 Bacterial diseases of pigs. Viral diseases of pigs Fungal diseases and nutritional deficiencies of pigs. Methods of slaughter and marketing of pork.
Suggested Readings	 A Textbook of Animal Husbandry (2015), OXFORD & IBH Publishing Co. Pvt. Ltd. New Delhi. Chauhan et al. 2024. Swine Production and Management: A Practical Manual. Satish Serial Pub. House, New Delhi. Handbook of Animal Husbandry Published by Indian Council of Agricultural Research, New Delhi. Handbook on Pig Farming and Pork Processing (2018) (Feeding Management, Breeding, Housing Management, Sausages, Bacon, Cooked Ham with Packaging) 2nd Revised Edition. Pig Farming, Pub. ICAR-Agricultural Technology Application Research Institute Zone-I, PAU Campus, Ludhiana-141004 0161-2401018, 2401092 Email: atari.ludhiana@icar.gov.in, zcu1ldh@gmail.com Website: www.atari1icar.res.in
Requirements	 Classrooms and Laboratories: Equipped with necessary teaching aids and practical tools. Pig Farms: On-site farm for hands-on training. Veterinary Facilities: For health management training. Market Linkages: Exposure to market and processing facilities. Any other item as required
Qualified Instructors	 Instructors with experience in Piggery Certifications or relevant qualifications in Piggery

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Paper Title		: Piggery-III									
CODE		:VTC: 360.4									
Number of		: 4									
Credits		• X7T									
Semester	Theory	:VI	. (1 hou	· · ·)							
No. of Hours Per	Theory	: One	e (1 hou	I r)							
No. of P		. The	ree (3 H	ourg)							
Hours per		. 1111	ее (3 п	ours)							
Outline of the											
Type of	Units in	n the	Hours	Credits	Total	Distribu	tion of Mar	ks (as per	OC-8)		
Course	VTC				Marks						
Piggery-						In-Seme		End-Sen			
	TI24 T /T	VI	15			Theory	Practical	Theory	Practical		
	Unit-I T (25 Mark	-	15			25					
	Unit-II		90	4	100		15		60		
	Theory	(75									
Manley	Marks)	. T4	1 A		4 40						
Marks Distributio	n	: Internal Assessment: 40									
Course Ob		: External Assessment: 60									
Course Ob	jecuves	To impart basic and applied knowledge on value-added products from									
		piggery and project formulation and funding opportunities in Pig farming.									
		Tarming.									
Course L	earning	After completion of the course students are able to:									
Outcome	U		1. demonstrate the skills on piggery farming through various								
		training									
		2. choose funding schemes on pig farming									
		3. prepare and present the proposals on pig farming									
		4. prepare and present different value-added projects									
		5. plan the Benefit-Cost ratio of pig farming									
			6. plan Benefit-Cost ratio of value-added products from pork								
Unit I: (Theory)		• Entrepreneurship training programme and skill development									
15 Hours		programme on "Processing on value added pork products".									
1		Entrepreneurship Development Scheme under piggery, chicatives eligible beneficieries financial institutions eligible									
		objectives, eligible beneficiaries, financial institutions eligible for finance and re-finance under various schemes.									
		Value added products from pork. Economics of pig farming. Use of ICT and artificial intelligence in pig byshendry.									
		Use of ICT and artificial intelligence in pig husbandry.									
UNIT-II:		To learn the essential skills of pig farming, health management,									
(Practical)		and efficient farm management practices.									
30 Hours		 To attend various skill development training on pig farming 									
		Maintenance of various record for pig farming									
							r-5 ···	8			

UNIT-III: (Practical) 30 Hours UNIT-IV: (Practical) 30 Hours	 Essentials of pig project formulation. Preparation of model Piggery project for small, marginal, and landless farmers suiting to local condition and availability of market. and analysis of cost benefit ratio. Estimation of benefit cost ratio in pig farming Visit to various financial agencies to know about funding on pig farming Preparation of various value-added products of pork. Cost benefit ration of value-added products.
Suggested Readings	 A Textbook of Animal Husbandry (2015), OXFORD & IBH Publishing Co. Pvt. Ltd. New Delhi. Chauhan et al. 2024. Swine Production and Management: A Practical Manual. Satish Serial Pub. House, New Delhi. Handbook of Animal Husbandry. Published by Indian Council of Agricultural Research, New Delhi. Handbook on Pig Farming and Pork Processing (2018) (Feeding Management, Breeding, Housing Management, Sausages, Bacon, Cooked Ham with Packaging) 2nd Revised Edition. Pig Farming. Published Director ICAR-Agricultural Technology Application Research Institute Zone-I, PAU Campus, Ludhiana-141004 0161-2401018, 2401092 Email: atari.ludhiana@icar.gov.in, zcu1ldh@gmail.com Website: www.atari1icar.res.in
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