Title of	course- Skilled	Rookaanar					
		-		1			
Nodal Department of HEI to run course Broad Area/Sector-				Agriculture and Allied			
Sub Sector-				Economic Agriculture Entomology			
Nature of course - Independent / Progressive				Independent			
Name of suggestive Sector Skill Council				Agriculture Skill Council of India			
Aliened NSQF level				Level 4			
	d fees of the cours	e –Free/Paid					
	to student expecte						
Number of Seats							
	Code			Credits- 03 (1 Theory, 2 Practical)			
		Iinimum Marks		, , , , , , , , , , , , , , , , , , ,			
	f proposed skill Pa						
	<u> </u>	Fields of Occupation where student will b	e able to	Beekeeper: Tl	ne bee-keeper m	anages colonies o	
get job after completing this course in				bees in order to harvest honey and other Bee related by-products (Wax, Pollen, Propolish, Royal Jelly, Bee venometc etc). His responsibilities include nurturing the bees to sell the raw and finished products in the market.			
Syllabu	ıs						
Unit	Topics	General/ Skill component	Theory/ Practical/ OJT/ Internship/ Training		No of theory hours (Total-15 Hours=1 credit)	No of skill Hours (Total-60 Hours=2 credits)	
I	Bee keeping- Present Scenario	Understand the role of a Beekeeper and the progression pathway • Get acquainted with the role of bees in Pollination of crops and their importance in increasing crop productivity	Requirements of commercial bee keeping     Pit fails in bee keeping.		1 hour	2 hour	
П	Honey bee and Honey	Identify different types of bees - Different species of bees - Life span of different bees - Different roles played by different types of honey bee - Different castes of bees and their role in colony • Familiarize with the life cycle of different types of bees • Get acquainted with the communication method used by bees	Description and demonstration of use of different boxes     Cleaning of boxes     Other tools in bee keeping		3 hour	3 hour	
Ш	Identification of flora and location of sites and tools	Understand the difference between traditional and modern bee-keeping systems Familiarize with the bee-keeping system Identify the tools/equipments required for the bee keeping Understand the factors to be considered for site selection Select site for hive installation Install hives Manage the Colonies of Bee Perform the inspection of Colonies Register and Insure bee-keeping unit Maintain record Study the migration of bee colonies	and Div Rav gen diff of t Eff pol hon Col mai	erated by Ferent life stages bees beet of nectar and len properties on bey production bey production bey gray and bey flow and by by ferent life stages by	6 hour	25 hour	
IV	Managing insects and diseases	Identify different types of insects infesting beehive  • Understand the characteristics of different insects  • Practice the preventive measures/ insect management • Identify the different types of tools/equipment required for insect management	atta and • Ma	mmon pests that ck honey bees hives nagement of sance and bee	3 hour	20 hours	

management

	Indentify common diseases of bee Practice the disease preventive measures/ disease management Identify different types of tools/equipments required for disease management Study the colony collapse disorder Familiarize with pesticide poisoning of bees Undertake preventive measures to avoid pesticide poisoning			
V Harvesting Processing, preservation honey, cost pricing, packaging Marketing honey	to be considered during harvesting: - Time of Harvesting - Method of harvesting - Identify and use the tools/equipment required for harvesting	Methods of harvesting honey     Processing of honey     Preservation of honey     Methodologies adopted for costing and pricing     Packaging and labelling and branding     Marketing management	2 hours	10 hours

## Suggested Readings:

- NPCS Board Of Consultants & Engineers, The Complete Book On Beekeeping And Honey Processing, NIIR Project Consultancy Services, India, 2015, 2nd Revised Edition ISBN: 9788190568555 Pages: 544
- Sathe, T. V.; Fundamental of Beekeeping, Daya Publishing House, ISBN-10 X817035420:, ISBN-13-978: pages 109, 2007, 8170354208
- Michael Bush, The Practical Beekeeper Volume I, II & III Beekeeping Naturally, X-STAR PUBLISHING COMPANY, 2011, 674, ISBN: 9781614760641

Suggested Digital platforms/ web links for reading-:. N.A.

Suggested OJT/ Internship/ Training/ Skill partner: N.A.

Suggested Continuous Evaluation Methods: Course Examination/test/quiz

## Course Pre-requisites:

- No pre-requisite required, open to all
- To study this course, a student must have the subject ..... in class/12<sup>th</sup>/ certificate/diploma
- If progressive, to study this course a student must have passed previous courses of this series.

Suggested equivalent online courses: N.A.

Any remarks/ suggestions: N.A.

## Notes:

- Number of units in Theory/Practical may vary as per need
- Total credits/semester-3 (it can be more credits, but students will get only 3credit/ semester or 6credits/ year
- Credits for Theory =01 (Teaching Hours = 15)
- Credits for Internship/OJT/Training/Practical = 02 (Training Hours = 60)