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**Format for syllabus development of  
Skill development course**

<b>Title of Course: "Certificate in Apiculture" (Bee Keeping)</b>	
Nodal Department of HEI to run course:	
Board Area/Sector	Life Science
Sub Sector:	Entomology/ Agricultural Science
Nature of Course: Independent / Progressive	Independent
Name of suggestive Sector Skill Council	Apiculture Industry
Aliened NSQF level:	6
Expected fees of the course – Fee/ Paid: Paid	
Stipend to student expected from Industry	
Number of Seats :	
Course Code: Will be Provided by the University	Credits- 03(1 Theory, 2 Practical)
Max. Marks : 100 Minimum Marks :	
Name of proposed skill Partner ( Please specify; Name of Industry/ Company etc. for Practical/ Training/Internship/ OJT	
Job prospects- Expected fields of occupation where student will be able to get job after completing this course in (Specify name / type of Industry, company etc. )	Apiculture Industry

**Syllabus**

Unit	Topic	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	Introduction to Bee Keeping Scope of Apiculture	General	Theory	3 Hrs	-----
II	Types & Domesticable Bees Tools(Artificial Hive & Accessories) & Techniques for Apiculture	General/ Skill component	Theory/ Practical	2 Hrs	20 Hrs
III	Morphology of Honey Bee and caste system Selection of site for Apiculture.	General/ Skill component	Theory/ Practical	2 Hrs	20 Hrs
IV	Factors affecting Apiculture Diseases of Bees : Prevention & Control, Enemies of Bees	General	Theory	3 Hrs	-----
V	Food plants, Extraction of Honey	General/ Skill component	Theory/ Practical	2 Hrs	20 Hrs
VI	Economic Importance of Bee Keeping / Apiculture.	General	Theory	3 Hrs	-----

**Suggested Readings :** Apiculture by N. Arumugam, K.V. Jayashree, C.S. Tharadevi,  
Apiculture (Bee Keeping) by Dr.D.K.Belsare  
Bees by Pitr Socha, Wojciech, Grajkoski

**Suggested Digital platforms/ Web links for reading:** Swayam Central <https://swayam.gov.in>  
Diksha <https://diksha.gov.in>

**Suggested OJT/ Internship/Training/Skill Partner:**  
**Suggested Continuous Evaluation Methods:** Internal Assessment

**Course Pre-requisites:**

- No pre-requisite is required, open to all
- To study this course, a student must have the subject.....Science..... in Class 12<sup>th</sup> / Certificate/ Diploma
- If progressive, to study this course a student must have passed previous courses of this series. Nil

**Suggested equivalent online courses:****Any Remarks / Suggestions:****Notes:**

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

**Name of the course: "Certificate in Apiculture" (Bee Keeping)**

S.No	Semester	Paper	Topics	Marks	Credits
<b>Theory</b>				<b>50</b>	
<b>I</b>	<b>I Semester</b>	<b>I</b>	*Introduction to Bee Keeping *Scope of Apiculture, *Types & Domesticable Bees *Tools(Artificial Hive & Accessories) & Techniques for Apiculture, *Morphology of Honey Bee and caste system * Selection of site for Apiculture. *Factors affecting Apiculture *Diseases of Bees : Prevention & Control, Enemies of Bees, *Food plants, Extraction of Honey. *Economic Importance of Bee Keeping / Apiculture.		<b>3</b>
<b>Practical</b>		<b>Paper</b>		<b>50</b>	
<b>I</b>	<b>I Semester</b>	<b>II</b>	*Methods in Apiculture *Laboratory techniques in bee rearing, feed, breeding, honey extraction & Marketing.		
<b>Total</b>				<b>100</b>	