CURRICULUM

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POINTED GUARD GROWER (PGG)



Council for Technical Education and Vocational Training

Curriculum Development Division

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Introduction

This curriculum for "Pointed Guard Grower" is designed to produce lower level technical workforce equipped with knowledge and skills related to Pointed Guard growing. It makes the trainees able to get opportunities for wage and self-employment in the related occupational field.

Aim

To produce lower level Pointed Guard growing workers (Pointed Guard Grower) able to provide Pointed Guard cultivation/growing services in the community being an entrepreneur/employee/self employed.

Objectives

After the completion of this training program, the trainees will fulfill the following objectives:

- To make plan for growing pointed guard
- To prepare land for growing pointed guard
- To apply fertilizer
- To obtain cuttings of pointed guard
- To propagate cuttings of pointed guard
- To carry out intercultural operations
- To apply plant protection measures
- To harvest pointed guard
- To market pointed guard

Course description

This curriculum provides skills & knowledge necessary for Pointed Guard Grower. There will be both demonstration by instructors/trainers and opportunity by trainees to perform skills/tasks specified in this curriculum. Trainees will practice & learn skills using typical tools, materials, equipment & machines necessary for the program.

After successful completion of this program the trainees will be equipped with the knowledge and skills related to planning for growing pointed guard, preparing land for growing pointed guard, applying fertilizer, obtaining cuttings of pointed guard, propagating cuttings of pointed guard, carrying out intercultural operations, applying plant protection measures, harvesting pointed guard, and marketing pointed guard.

Course structure

Job	o: Pointed guard grower	Nature		Hour	·s		Mark	S
SN	Modules/sub modules		Th.	Pr.	Tot.	Th.	Pr.	Tot.
1.	Planning for growing pointed guard	T + P	5	5	10	4	16	20
2.	Land preparation and fertilizer	T + P	22	44	66	10	40	50
	1. Land preparation	T + P	11	22	33			
	2. Fertilizer application	T + P	11	22	33			
3.	Propagation	T + P	19	38	57	10	40	50
	1. Obtaining cuttings of pointed guard	T + P	8	16	24			
	2. Propagating cuttings of pointed guard	T + P	11	22	33			
4.	Intercultural operations	T + P	13	13	26	5	20	25
5.	Plant protection measures-	T + P	9	18	27	5	20	25
6.	Harvesting and marketing-	T + P	18	26	44	6	24	30
	1. Harvesting pointed guard	T + P	8	16	24			
	2. Marketing pointed guard	T + P	10	10	20			
	Sub total:		86	144	230	40	160	200
7.	On the job training (OJT)	P		160	160		100	100
	Total:		86	304	390	40	260	300

Duration

The total duration of the course will be of 390 hours (three months) [230 hours of in house training plus 160 hours of OJT].

Target group

The target group will be of all the literate and interested individuals in the field of vegetable growing.

Group size

Maximum of thirty

Medium of instruction

Nepali or English or both

Pattern of attendance

- 80% attendance in theory
- 90% in practical/ performance

Focus of curriculum

This curriculum emphasizes on competency /performance. 80% time is allocated for performance and only 20% for related technical knowledge. So the focus will be on performance of the specified competencies in the curriculum

Entry criteria

- Literate
- Minimum of 16 years of age
- Should pass entrance examination

Follow up suggestions

In order to assess the success of this program and collect feedbacks/ inputs for the revision of the curriculum a schedule of follow up is suggested as follows:

- First follow up: Six months after the completion of the program
- Second follow up: Six months after the completion of the first follow up
- Follow up cycle: In a cycle of one year after the completion of the second follow up for five years

Certificate

The related training institute will provide the certificate of "Pointed Guard Grower" to those individuals who passes and fulfills all the requirements of this curriculum.

Grading

• Distinction: passed with 80% or above

- First division: passed with 75% or above
- Second division: passed with 65% or above
- Third division: passed with 60% or above

Students evaluation

- Continuous evaluation of the trainees' performance is to be done by the related instructor/ trainer to ensure the proficiency over each competency under each of the sub-module.
- Related technical knowledge learnt by trainees will be evaluated through written or oral tests.
- Trainees must secure minimum marks of 60% in an average of both theory and practical evaluations.
- There will be three internal evaluations and one final evaluation in each module.
- The entrance test will be conducted by the concerned training institute

Trainers qualification

- I. Sc. Ag or equivalent in related field
- Good communicative and instructional skills
- Experience in related field

Trainer-trainees ratio

- 1:10 for practical classes
- For theory, as per the class room situation

Suggestions for instructor

Suggestions for instruction

- 1. Select objectives
 - Write objectives of cognitive domain
 - Write objectives of psychomotor domain
 - Write objectives of affective domain

2. Select subject matter

- Study subject matter in detail
- Select content related to cognitive domain
- Select content related to psychomotor domain
- Select content related to affective domain

3. Select instructional methods

- Teacher centered methods: like lecture, demonstration, questions answer inquiry, induction and deduction methods.
- Student initiated methods like experimental, field trip/excursion, discovery, exploration, problem solving, and survey methods.
- Interaction methods like discussion, group/team teaching, microteaching and exhibition.
- Dramatic methods like role play and dramatization
- 4. Select Instructional method (s) on the basis of objectives of lesson plans and KAS domains
- 5. Select appropriate educational materials and apply at right Time and place.

- 6. Evaluate the trainees applying various tools to correspond the KAS domains
- 7. Make plans for classroom / field work / workshop organization and management.
- 8. Coordinate among objectives, subject matter and instructional methods.
- 9. Prepare lesson plan for Theory and Practical classes.
- 10. Deliver /conduct instruction / program
- 11. Evaluate instruction/ program

Suggestion for the performance evaluation of the trainees

- 1. Perform task analysis
- 2. Develop a detail task performance checklist
- 3. Perform continuous evaluation of the trainees by applying the performance checklist.

Suggestion for skill training

Demonstrate performance

- 1. Demonstrate task performance in normal speed
- 2. Demonstrate slowly with verbal description of each and every step in the sequence of activity of the task performance using question and answer techniques.
- 3. Repeat 2 for the clarification on trainees demand if necessary
- 4. Perform fast demonstration of the task.

Provide trainees the opportunities to practice the task performance demonstration

- 1. Provide trainees to have guided practice
- 2. Create environment for practicing the demonstrated task performance
- 3. Guide the trainees in each and every step of task performance
- 4. Provide trainees to repeat and repeat as per the need to be proficient on the given task performance
- 5. Switch to another task demonstration if and only trainees developed proficiency in the task performance.

Other suggestions

- 1. Apply principles of skill training
- 2. Allocate 20% Time for Theory classes and 80% Time for task performance while delivering instructions
- 3. Apply principles of adult learning
- 4. Apply principles of intrinsic motivation
- 5. Facilitate maximum trainees involvement in learning and task performance activities
- 6. Instruct the trainees on the basis of their existing level of knowledge, skills and attitude.

List of modules and sub modules

Module: 1: Planning for growing pointed guard Module: 2: Land preparation and fertilizer

Sub module: 1: Land preparation Sub module: 2: Fertilizer application

Module: 3: Propagation

Sub module: 1: Obtaining cuttings of pointed guard Sub module: 2: Propagating cuttings of pointed guard

Module: 4: Intercultural operations Module: 5: Plant protection measures Module: 6: Harvesting and marketing Sub module: 1: Harvesting pointed guard Sub module: 2: Marketing pointed guard

Details of modules and sub modules

	Module: 1: Planning for growing pointed guard					
	Description: It consists of skills and k	no	wledge related to the planning of	factiv	vities	
	essential for pointed guard growing techno	log	y.			
	Objectives:					
	• Identify nutritive value of / uses of	/ cl	imatic requirement/ soil requirement	it for		
	growing pointed guard					
	Enlist botanical characteristics of pointed guard					
	 Enlist varieties of pointed guard 					
	Identify the season of planting the continuous con	cutt	ings of pointed guard			
	• Make plan for :					
	 Obtaining cuttings 					
	Preparing land					
	Applying fertilizer					
	 Propagating the cuttings 					
	 Intercultural operations 					
	 Plant protection 					
	 Harvesting and marketing the p 					
	Tasks: Each task consists of its related tech			the tas	sk	
	and time allocation for both the theory and	pra	actical classes for the task.		(1	
CNI	m 1		D 1 . 1 . 1 . 1 . 1 . 1 . 1		e (hrs.	<u> </u>
SN	Task statements		Related technical knowledge	Th.	Pr.	Tot.
1.	Identify the followings:		<u>Introduction</u> :	1.0	1.0	2
	NI (''.' 1 C ' ' 1 1		A '1 1' 1'			
	Nutritive value of pointed guard		A perennial climbing type			
			vegetable crop.			
			• Nutrients:			
			• Protein (2%)			
	- IIaa		vitamin 'A' & 'C'			
	• Uses		• calcium,			
			Phosphorous & iron			
			king of vegetables			
			• Uses:			
			• Young fruits as			
			vegetables.			
	• Climatia da avinamant		 Health promoting 			
	Climatic requirement		vegetable Beneficial for the			
			patient of heart, stomach & mental			
	Cail magninamage		diseases			
	Soil requirement					
			Climate: het and wat alimate.			
			• hot and wet climate			
			of Terai & inner			

2.	Enlist botanical characteristics of pointed guard	Terai	0.5	0.5	1
3.	Enlist varieties of pointed guard	Varieties of pointed guard and their characteristics: • White striped long • Green long • Green round • White striped green round	1.0	1.0	2
4.	Identify the season of planting the cuttings of pointed guard	Season of planting the cuttings of pointed guard: Bhadra to Kartic	0.5	0.5	1
5.	 Make plan for : Obtaining cuttings Preparing land Applying fertilizer Propagating the cuttings Intercultural operations Plant protection Harvesting and marketing the products 	Making plan for growing pointed gourd: Planning for: Obtaining cuttings Preparing land Applying fertilizer Propagating the cuttings Intercultural operations Plant protection Harvesting and marketing the products	1.0	1.0	2

6.	Enlist economic importance of growing pointed guard	Economic importance of growing the crop: • Economic importance of growing pointed guard • Income per Ropani Rs.8000 to 12000.	1.0	1.0	2		
	Modulo, 2, Land n	Sub total:	5	5	10		
	Description: It consists of skills and know	preparation and fertilizer	rtiliza	or			
	application technology for growing pointed		51 t1111Z	C 1			
	Objectives:						
	To prepare land for growing pointe	d guard					
	To apply fertilizer for growing point	nted guard					
	Sub modules:						
	1. Land preparation						
	2. Fertilizer application						
		1: Land preparation					
	Description:						
	 Objectives: To select field for growing pointed gourd To plow the field deeply To break the clods To remove weeds/unwanted materials To level the land To make lines on the field 						
	To dig pitsTo make channel						
	Tasks: Each task consists of its related tech	hnical knowledge essential to perform t	the tas	sk			
	and time allocation for both the theory and						
				e (hrs.	·		
SN	Task statements	Related technical knowledge	Th.	Pr.	Tot.		
1.	Select field for growing pointed gourd	 Selecting field for growing pointed gourd: Field selection criteria for growing pointed gourd 	1	2	3		
2.	Plow the field deeply	 Plowing the field: Carrying out deep plowing during hot and dry season to improve the condition of the field 	1	2	3		

		• Plowing 2/3 times at the time of planting the cuttings			
3.	Break the clods	Break the clods: • Clod breaking	1	2	3
4.	Remove weeds/unwanted materials	Weeding:	1	2	3
		Removal of weeds and unwanted materials from the field			
5.	Level the land	Leveling: • Leveling the filed	1	2	3
6.	Make 2m apart lines on the field	Making lines: Principle and procure for making lines on the field	1	2	3
7.	Dig pits (30cm x 30cmx 30cm) on each line maintaining pi to pit distance as 1 m.	 Digging pits or long channels: Size of the pit: 30cm x 30cm x 30cm Distance: R-R - 2m, P-P - 1cm Cuttings can be planted either in the pits or in the channels 	1	2	3
8.	Make channel of (25cm wide and 30 cm deep) maintaining channel to channel distance as 2m (if cuttings are not planted in the pits)	 Making channel: Size of the channel: 25cm wide and 30cm deep; length as per the need Distance: R-R – 2m, P-P – 1cm Cuttings can be planted either in the pits or in the channels 	1	2	3
9.	Follow precautions	Precautions:	1	2	3

			Precaution to be followed			
10.	Clean/store tools/materials / equipment		 Cleaning and storing: Cleaning and storing tools materials and equipment 	1	2	3
11.	Keep records		Records: • Record keeping	1	2	3
			Sub total:	11	22	33
			ertilizer application			
	Description: It consists of skills and know	led	ge related to fertilizer application to	echnol	logy	
	for growing pointed guard growing. Objectives:					
	 To identify recommended doses of an action of the calculate amount of fertilizer needs. To obtain the fertilizer. To weigh the calculated amount of an apply the fertilizer in the pits/channels ready to plant. To make pits/channels ready to plant. Tasks: Each task consists of its related technology. 	ede fer anr soil	ed as per the recommended doses tilizer nel uttings of pointed gourd	the ta	sk	
	and time allocation for both the theory and	pra	actical classes for the task.			
				+	me (h	
SN	Task statements		Related technical knowledge	Th.	Pr.	Tot.
1.	Identify recommended doses of fertilizer		 Recommended doses of fertilizer: Application of fertilizer depends upon the soil fertility status of the field Dose per ropani: 3kg N, 2 kg P, 2 kg P, and 1.5 ton Fym or compost 	1	2	3
2.	Calculate amount of fertilizer needed as per the recommended doses		Fertilizer calculation: • Formulae • Calculation procedures	1	2	3

3.	Obtain the fertilizer	Obtaining the fertilizer:	1	2	3	
		Sources of fertilizerProcedure for obtaining the fertilizers needed				
4.	Weigh the calculated amount of fertilizer	 Weighing fertilizer: Procedure for weighing fertilizer Handling fertilizer 	1	2	3	
5.	Apply the fertilizer in the pits/channel	 Fertilizer application: 1 kg compost, 50 gm complexal and 15gm potash is to be applied in each pits Fertilizer application procedures 	2	4	6	
6.	Mix the applied fertilizer in the soil	 Mixing fertilizer in the soil: Through mixing the fertilizer with the soil in the pit/channel 	1	2	3	
7.	Make pits/channels ready to plant cuttings of pointed gourd	 Making pits/channel ready: Making pits/channel ready to plant the cuttings 	1	2	3	
8.	Clean/store tools/materials/ equipment	 Cleaning and storing: Cleaning tools and equipment Storing tools, materials and equipment 	1	2	3	
9.	Follow precautions	Precautions: • Precaution to be followed	1	2	3	
10.	Keep records	Recording: • Record keeping	1	2	3	
		Sub total:	11	22	33	
	Module: 3	3: Propagation				
	Description: It consists of skills and knowledge related to obtaining and propagating the cuttings of pointed guard.					
	Objectives:					

	 To obtain cuttings of pointed § 		
	 To propagate cuttings of point 	ed guard	
	Sub modules:		
	1. Obtaining cuttings of pointed	guard	
	2. Propagating cuttings of pointe	d guard	
	1 0 0 1	ng cuttings of pointed guard	
		ledge related to obtaining the cuttings of pointed	i
	guard.		
	Objectives:		
	To identify reliable source of obtain	ning cuttings of pointed gourd	
	• To contact the source of obtaining	cuttings of pointed gourd	
	To select healthy limber shoots of page 1. To select healthy limber shoots of page 2. To select healthy limber shoots of page 3. To select healthy li		
	To make cuttings	-	
	 To collect/obtain the cuttings 		
	To place the cuttings in a safe place		
		nnical knowledge essential to perform the task	
	and time allocation for both the theory and	practical classes for the task.	
		Time (h	rs.)
SN	Task statements	Related technical knowledge Th. Pr	
1.	Identify reliable source of obtaining	Source of cuttings : $1.0 \mid 2$	3.0
	cuttings of pointed gourd		
		Fields with already grown	
		pointed gourd	
2.	Contact the source of obtaining outlings	Contacting the sources: 1.0 2	3.0
۷.	Contact the source of obtaining cuttings of pointed gourd	Contacting the sources: $\begin{vmatrix} 1.0 & 2 \end{vmatrix}$	3.0
	or pointed gourd	Contacting the source of	
		obtaining cuttings of	
		pointed gourd	
		Pointed godie	
3.	Select healthy limber shoots of pointed	<u>Selection</u> : 1.0 2	3.0
	gourd		
		Selection criteria	
		Selection of healthy climber	
		shoots of pointed gourd	
		from the crop field	
4.	Make cuttings of 120 – 150 cm long	Making cuttings: 2.0 4	6.0
	from the selected climber shoots of		
	pointed gourd	How to make cuttings of	
		120 – 150 cm long from the	
		selected healthy climber	
		shoots of pointed gourd	

5.	Collect/obtain the cuttings	Collecting/obtaining the cuttings: • Cuttings should be 85 – 90% from female plant and 10-15% from the make plant	1.0	2	3.0
6.	Place the cuttings in a safe place	Handling of the cuttings: • Safe handling of the cuttings	1.0	2	3.0
7.	Follow precaution	Precautions:Precautions to be followed while carrying out this task	0.5	1	1.5
8.	Keep record	Recording: • Record keeping	0.5	1	1.5
		Sub total:	8	16	24
		ing cuttings of pointed gua			
	Description: It consists of skills and knowled pointed guard.	edge related to propagating the cutting	gs of		
	Objectives: To make ring of the cutting To take the rings in the plantation sit To plant the rings in the pit To plant the rings in the channels To water lightly				
	Tasks : Each task consists of its related tech		the tas	sk	
	and time allocation for both the theory and p	ractical classes for the task	Time	e (hrs.)
SN	Task statements	Related technical knowledge	Th.	Pr.	Tot.
1.	Obtain cuttings (120 – 150 cm long)	Obtaining cuttings:	1.0	2.0	3.0
		 Male and female plants are separate Male plant does not bear fruits but are essential for pollination 10 – 15% of the cuttings should be from the male plants and 85 to 90% from female plant 			

		Obtaining cuttings			
2.	Take one cutting	Handling cuttings: Taking one cutting at a time Safe handling of the cutting	1.0	2.0	3.0
3.	Make ring of the cutting with roundness of about 30 cm exposing the both ends of the cutting	 Rings making procedure: Principle and procedure for making rings Making rings of the obtained cuttings Roundness of the rind should be about 30 cm 	1.0	2.0	3.0
4.	Make rings of all the cuttings (steps 2 and 3)	 Making rings: Making rings of the obtained cuttings Roundness of the rind should be about 30 cm 	1.0	2.0	3.0
5.	Take the rings in the plantation site	 Handling rings: Taking the rings in the plantation site Safe handling of the rings 	1.0	2.0	3.0
6.	Plant the rings in the pit at a depth of 10cm keeping 10 – 15 cm of both the cut ends out of soil/ground	 Planting the rings in the pit: Procedure of planting rings in the pit Cut ends of the pointed gourd should be exposed out of the ring Burying the rings in the pits exposing about 10 – 15 cm of both the ends of the cuttings above the ground Row to row distance - 2m Plant to plant distance : 1m Depth of planting : 10 cm 	2.0	4.0	6.0

7.	Plant the rings in the channels as step no. 6 (if channel plantation is preferred) at a distance of 1 m each	 Planting the rings in the channel: Burying the rings in the pits exposing about 10 – 15 cm of both the ends of the cuttings above the ground Row to row distance - 2m 	1.0	2.0	3.0
		Plant to plant distance : 1mDepth of planting : 10 cm			
8.	Water lightly	Watering:	1.0	2.0	3.0
		Need to water the planted cuttings lightlyWatering procedures			
9.	Clean/store tools/materials/ equipment	 Storing: Cleaning tools and equipment Storing tools, materials and equipment 	1.0	2.0	3.0
10.	Follow precautions	Precautions:Precaution to be followed	0.5	1	1.5
11.	Keep records	Recording:	0.5	1	1.5
		Record keeping			
		Sub total:	11	22	33
		rcultural operations			
	Description: It consists of skills and knowl	edge related to intercultural operation	s esse	ntial	
	for growing pointed guard. Objectives:				
	To carryout irrigation				
	To clean the field frequently				
	• To carryout weeding/loosening the s				
	manipulation of the crop shoots	ent in the climber shoots through freq			
	 To lit supporting structures at the tire To let the climber shoots to climb or 	ne when new branches begin to appeanthe the supporting structure	I.		

	m 0 111 1 1 1 1				l	
	 To facilitate the development of more branches To cut dry climber shoot/branches 					
	• To loosen the soil at the bottom of	he plant				
	 To apply manure/fertilizer 					
	Tasks: Each task consists of its related tec		the tas	sk		
	and time allocation for both the theory and	practical classes for the task.	Time	e (hrs.	,	
SN	Task statements	Related technical knowledge	Th.	Pr.	Tot.	
1.	Carryout irrigation	Irrigation:	1.0	2.0	3.0	
		 Irrigation is done as per the need of the crop and soil moisture level of the soil. Irrigation is done at an interval of 8 – 10 days during hot season Excess water should be well drained from the field 				
2.	Clean the field frequently	 Cleaning the field: Frequent cleaning of the field is necessary because grains and weeds hampers the vegetative development of the crop 	1.0	2.0	3.0	
3.	Carryout weeding/loosening the soil	 Weeding/soil loosening: Weeding/soil loosening is done 3 – 4 times since the date of plantation of the cuttings to the fruit bearing stage. 3 – 4 times per year 	1.0	2.0	3.0	
4.	Prevent unwanted root development in the climber shoots through frequent manipulation of the crop shoots	 Manipulation of the crop shoots: Concept and need Preventing unwanted root development in the climber shoots through frequent manipulation of the crop shoots 	1.0	2.0	3.0	

5.	Fit supporting structures at the time when new branches begin to appear	 Supporting structures: Supporting structure of bamboos and rope: Size: 2 m wide, 1.25 m high & length as per the need 	2.0	4.0	6.0
6.	Let the climber shoots to climb on the supporting structure	Letting the climber shoots to climb on the supporting structure: • Concept and need • Climbed shoot on the supporting structure gives more fruits	1.0	2.0	3.0
7.	Facilitate the development of more branches by cutting climbing shoots leaving only 22 – 30 cm length from the ground after harvesting the first lot of fruits	Facilitating the development of branches: • More branches give the more fruits / product	1.0	2.0	3.0
8.	Cut dry climber shoot/branches leaving only ½ m from the ground	 Cutting dry climber shoot/branches: Dry climber shoot / branches is cut to facilitate the development of more branches from the main root and the soil should be loosened and apply fertilizer 	1.0	2.0	3.0
9.	Loosen the soil at the bottom of the plant	 Loosening the soil: Need Loosening the soil at the bottom of the plant 	1.0	2.0	3.0
10.	Apply manure/fertilizer	Manure/fertilizer applicationMethodsPrecautions	1.0	2.0	3.0
11.	Apply fertilizer since second year of crop	Applying fertilizer since	1.0	2.0	3.0

	grown (Ashwin - Kartic)		second year of crop grown:			
			• Fertilizer to the crop of second year on ward should be applied for each year during Ashwin – Kartic at the rate of 50 gm. Urea and 1kg FYM/plant			
12.	Follow precautions		Precautions: • Precaution to be followed	0.5	1	1.5
13.	Keep records		Records: • Record keeping	0.5	1	1.5
			Sub total:	13	26	39
	Module: 5: Plar	nt pr	rotection measures			
	Description: It consists of skills and know growing pointed guard.	wledg	ge related to plant protection essen	tial foi	r	
	 Objectives: To identify common insects / disease To control fruit rot disease of poin To control Seto Dhusi (社前	nted g isease inted	e of pointed gourd gourd			
	Tasks: Each task consists of its related ted and time allocation for both the theory and	chnic	al knowledge essential to perform	the tas	sk	
	Tasks : Each task consists of its related ted and time allocation for both the theory and	chnic	al knowledge essential to perform ctical classes for the task.	Tim	e (hrs.	
SN 1.	Tasks: Each task consists of its related ted	chnic	al knowledge essential to perform) Tot. 3.0

2.	Control fruit rot disease of pointed gourd	Controlling fruit rot: 1.0 2.0 3 Spray 0.3% solution of copper oxychloride 50 E.C. to control	3.0
3.	Control Seto Dhusi (सेतो दुसी) disease of pointed gourd	fruit rot disease Controlling Seto Dhusi (;]tf] 1.0 2.0 3 (';L):	3.0
		 Signs/symptoms, identification and nature of damage caused by the Seto Dhusi (社前	
4.	Control fruit rot maggots of pointed gourd	 Controlling fruit rot maggots: 1.0 2.0 3 Identification of fruit rot maggots use of Marathione 50 E.C., 10 - 15 days interval 2 or three times use Malathione or savin to control other insects of pointed gourd preparation of solutions of fancied/insecticide and principles and procedures of spraying 	3.0
5.	Control other insects of pointed gourd	Controlling other insects of pointed gourd: • Identification of other insects of pointed gourd • Controlling other insects of pointed gourd	6.0
6.	Follow precautions	Precautions: 1.0 2.0 3 • Precaution to be followed	3.0

		1		T		
7.	Clean/store tools/materials/ equipment		Cleaning and storing:	1.0	2.0	3.0
			• Cleaning tools and			
			 Cleaning tools and equipment 			
			 Storing tools, materials and 			
			equipment			
			ефириси			
8.	Dispose / store chemicals safely		Using the mask :	0.5	1	1.5
			 Need to use mask 			
			Need to use maskHow to use mask			
			Handling the mask			
			Tranding the mask			
9.	Keep records		Recording:	0.5	1	1.5
			December of			
			 Record keeping 			
			Sub total:	9	18	27
	Module: 6: Harv	ves	sting and marketing		•	
	Description: It consists of skills and know			ing of	•	
	pointed guard.					
	Objectives:					
	 To harvest pointed guard 					
	To market pointed guard					
	Sub modules:					
	1. Harvesting pointed guard					
	2. Marketing pointed guard					
			esting pointed guard			
	Description: It consists of skills and know	led	ge related to harvesting of pointed	guard.		
	Objectives:					
	To inspect the field To identify the first a final residual	1	41-4			
	To identify the fruits of pointed gu To also be for the fruits of pointed gu		•			
	To pluck/harvest the fruits twice per The place of the beautiful fruits of the first of th					
	• To clean the harvested fruits of po		9			
	To store the cleaned fruits of points Togles: Feel togle consists of its related tog			tha ta	o.lz	
	Tasks : Each task consists of its related tec and time allocation for both the theory and			me tas	SK	
	and time anocation for both the theory and	pre	ictical classes for the task.	Tim	e (hrs.)
SN	Task statements		Related technical knowledge	Th.	Pr.	Tot
	Inspect the field		Inspecting the field :	1.0	2.0	3.0
	_					
			 Field inspection to find out 			
			the time of harvesting			

Identify the fruits of pointed guard that are ready to harvest	Identifying the fruits of pointed guard that are ready to harvest:	1.0	2.0	3.0
	 Green young fruits of pointed guard are used as vegetables Plants give fruits from 			
	Falgun to Jestha			
Pluck/harvest the fruits twice per week	 Plucking/harvesting the fruits: Plucking of fruits can be done twice per week 	1.0	2.0	3.0
Clean the harvested fruits of pointed guard	 Cleaning of fruits: Cleaning of the harvested fruits of pointed guard Safe handling while cleaning 	1.0	2.0	3.0
Store the cleaned fruits of pointed guard	 Storing fruits: Storing the cleaned fruits of pointed guard Safe handling while storing 	1.0	2.0	3.0
Follow precautions	Precautions:Precautions to be followed while harvesting the pointed gourd product.	1.0	2.0	3.0
Clean/store tools used	 Cleaning / storing: Cleaning tools and equipment. Storing the tools, material and equipment. 	1.0	2.0	3.0
Keep records/ be familiar with the yield/keep records of yield	Recording and yield:Record keepingYield:	1.0	2.0	3.0

			 First Year: 300 - 400 kg per Ropani Second year: 600 - 800 kg per Ropani 			
			Sub total:	8	16	24
			keting pointed guard			
	Description: It consists of skills and know	lec	ge related to marketing of pointed g	guard.		
	 Objectives: To grade the harvested fruits of point To weigh the graded fruits of point To make packages To fix grade wise price To transport the product packages To sell the product To calculate cost To calculate profit / loss Tasks: Each task consists of its related tec	ed	gourd.	the tas	sk	
	and time allocation for both the theory and					
				_	e (hrs	<u> </u>
SN	Task statements		Related technical knowledge	Th.	Pr.	Tot.
1.	Grade the harvested fruits of pointed gourd.		Grading the fruits:Grades and grading criteria.	1	1	2
2.	Weigh the graded fruits of pointed gourd.		 Weighing the graded fruits: Weighing and handling the balance safely. 	1	1	2
3.	Make packages		Packaging: Packaging materials and making packages.	1	1	2
4.	Fix grade wise price		Pricing:Pricing technique and market price information.	1	1	2
5.	Transport the product packages		Transporting: • Economic means of transport.	1	1	2

6.	Sell the product	Selling:	1	1	2
		Selling technique			
7.	Calculate cost	Costing:	1	1	2
		• Safe handling the fruits of pointed gourd.			
8.	Calculate profit / loss	Profit / loss:	1	1	2
		Calculation of costCalculation of profit and loss			
9.	Follow precautions	Precautions :	1	1	2
		• Precautions to be followed			
10.	Keep records/be familiar with income	Recording:	1	1	2
		Records keepingIncome: Rs. 8000 - 12000 per Ropani			
		Sub total:	10	10	20
		Total:	86	144	230

On the job training

Objectives of OJT

- To practice/ apply the skills/ knowledge developed by the trainees through institutional training in the real world of the related occupation
- To practice the skills gained through institutional training that the trainees have not got enough opportunity to practice and apply them due to the institutional constraints and or limitations
- To gain world of work experiences
- To acquire skills and knowledge recently developed in the related field of occupation
- To make trainees familiar with the future occupation / job they are going to hold
- To provide trainees with supporting skills and knowledge necessary for the related occupation
- To make trainees familiar with the day to day administrative / management activities applicable in their related occupation.

OJT placement

The related training institute needs to perform the followings for OJT placement of the trainees:

- 1. Make list of the employer agencies:
 - Agriculture farms run by the government / private agencies/farmers
 - Agriculture farms run by NGOS / INGOS
 - Agriculture projects
 - Others
- 2. Select the employer agencies / related farms:
 - Obtain the curriculum
 - Match the skills specified in the curriculum with the occupational activities conducting by the farm.
 - Select the employer agency / farm for OJT which:
 - o Is well equipped and can provide maximum opportunity to practice /develop / apply the skills and knowledge included in the curriculum
 - o Can provide recently developed knowledge / skills in the related occupation
 - Has the possibility to offer job for the trainees having satisfactory job performance after the completion of OJT.
 - Can offer facilities to the trainees during OJT.
- 3. Contact to the farm / employer agency for OJT
- 4. Make agreement with the farm / employer agency regarding OJT.
- 5. Orient the employer / farm regarding supervision & evaluation of the trainees on OJT.
- 6. Assign the trainees who have passed institutional training to the selected farms / employer agencies
- 7. Orient the trainees for OJT (Objectives, curriculum, activities in which they have to be involved, recording, supervision & evaluation etc.)

- 8. Send trainees with official letter for OJT.
- 9. Manage / provide salary (at least to cover the living cost) to the trainees (if applicable)
- 10. Have initial supervision to help socialize and guide the trainees sent for OJT
- 11. Have periodic supervision and evaluation of the trainees at least three times during the period of OJT.
- 12. Collect feedback as inputs for the revision of the curriculum in the future
- 13. Keep records.

Orientation to the Trainees for OJT:

The trainees who are placed on OJT are to be oriented by the related institute about the followings:

- 1. OJT Activities
- 2. OJT Evaluation
- 3. OJT curriculum

Suggestion for Trainees for OJT:

- 1. Receive orientation for OJT provided / delivered by the related training institute
- 2. Obtain curriculum
- 3. Obtain official letter for joining OJT
- 4. Contact the assigned farm / organization
- 5. Maintain attendance
- 6. Manage accommodation
- 7. Obtain job description
- 8. Visit / observe the activities related
- 9. Study the characteristics of the related farm unit(s)
- 10. Obtain curriculum
- 11. Match the tasks specified in the curriculum with the actual tasks / activities being carried in the farm.
- 12. Make lists of tasks:
 - You need to practice for confidence building
 - You need to practice the skills that are not covered in the institutional training
 - You need to practice the skills that are not included in the curriculum but need to perform in the real world of the occupation for successful job performance.
 - Recently developed skills through research applicable to your level of job after OJT.
- 13. Finalize the task list consulting with your supervisor & instructor
- 14. Practice / perform / develop as many related skills as possible related to your level of job
- 15. Perform related administrative functions
- 16. Perform / develop skills related to the duties and tasks specified in the JOB description provided by the farm / employer during OJT.
- 17. Get help form the senior (s) / supervisor (s) to perform the tasks \ develop skills as maximum as possible.
- 18. Develop daily diary / log book
- 19. Fill the daily diary / log book

- 20. Get the daily diary / log book signed by your supervisor regularly
- 21. Seek & follow suggestion from seniors
- 22. Show excellent job performance to influence your senior (s) / supervisor so that they could willingly recommend to the employer to offer you the job after OJT.
- 23. Develop professionalism.

OJT evaluators

The OJT will be evaluated by:

- Related supervisor of the farm/ organization
- Related instructor/supervisor of the related training institute
- CTEVT (representative or assigned expert)

Marks distribution schedule for OJT evaluation

The marks distribution for the OJT evaluation of the trainees will be as follows:

S.N.	Evaluators	Marks Distribution	
		Full Marks	Percentage
1.	Related Supervisor of the farm / Organization	50	50%
2.	Related supervisor / instructor of the training institute	25	25%
3.	CTEVT representative or assigned expert	25	25%
Total	•	100	100

Objectives of OJT for pointed guard grower

- 1. To practice/ apply the skills/ knowledge developed by the trainees through institutional training in the real world of the related occupation
- 2. To practice the skills gained through institutional training that the trainees have not got enough opportunity to practice and apply them due to the institutional constraints and or limitation
- 3. To gain world of work experiences
- 4. To acquire skills and knowledge developed in the related field of occupation
- 5. To make trainees familiar with the future occupation/job they are going to hold
- 6. To provide trainees with supporting skills and knowledge necessary for the related occupation
- 7 To make trainees familiar with the day to day administrative / management activities applicable in their related occupation.

Skills to be developed during OJT for pointed guard grower

The trainees who are placed on the job training will develop specific skills as maximum as possible utilizing the opportunity to practice skills in the assigned job environment.

The Skills related to the following areas will be practiced as maximum as possible during OJT.

- Planning for growing pointed guard
- Land preparation for growing pointed guard
- Fertilizer application for growing pointed guard
- Obtaining cuttings of pointed guard
- Propagating cuttings of pointed guard
- Intercultural operations necessary for growing pointed guard
- Plant protection measures to be applied for protecting the plants of pointed guard
- Harvesting pointed guard products
- Marketing pointed guard products

Reading materials

- 1. Instructor selected reading materials available in the market based on this curriculum
- 2. Instructor prepared handouts and manuals based on this curriculum

Facilities:

- 1. Well equipped class rooms
- 2. Agricultural field available to use.
- 3. Related books/ reading materials available to use.

Tools/materials/equipment

- 1. Chalk
- 2. Duster
- 3. Blackboard
- 4. Audio-visual Aids
- 5. Fruit/plant of pointed gourd
- 6. Sample of varieties of pointed gourd
- 7. Handout / reading materials
- 8. Paper/pencil/pencil cutter/eraser/pen
- 9. Record book
- 10. Plow set/oxen
- 11. Clod breaker
- 12. Leveler
- 13. Rake
- 14. Doko/basket/sacks
- 15. Khukuri
- 16. Kuto/Kodalo/Khanti/Sickle
- 17. Measuring tape
- 18. pegs/rope/chuche kuto
- 19. FYM/compost
- 20. Fertilizer (N, P & K)/ complexal/murate of potash
- 21. Shovel
- 22. Balance set
- 23. Water/watersource/hazari/pipes/soap
- 24. Money
- 25. Cuttings of pointed gourd
- 26. Knife
- 27. Bamboo/choya/ropes
- 28. Urea
- 29. Bowl/bucket
- 30. Copper oxychloride
- 31. Kerathane
- 32. Malathione

- 33. Savin
- 34. Sprayer
- 35. Mask
- 36. Insect catching box/bottle
- 37. Measuring cylinder
- 38. packaging materials
- 39. Means of transport
- 40. Other teaching and learning materials and supplies as per needs.

Product of job analysis

Duty: 1: Plan for growing pointed guard

Tasks:

- 1. Make plan for obtaining cuttings
- 2. Make plan for preparing land
- 3. Make plan for applying fertilizer
- 4. Make plan for propagating the cuttings
- 5. Make plan for intercultural operations
- 6. Make plan for plant protection
- 7. Make plan for harvesting and marketing the products
- 8. Make plan for enlist economic importance of growing pointed guard

Duty: 2: Prepare land

Tasks:

- 1. Select field for growing pointed gourd
- 2. Plow the field deeply
- 3. Break the clods
- 4. Remove weeds/unwanted materials
- 5. Level the land
- 6. Make 2m apart lines on the field
- 7. Dig pits (30cm x 30cm x 30cm) on each line maintaining pi to pit distance as 1 m.
- 8. Make channel of (25cm wide and 30 cm deep) maintaining channel to channel distance as 2m (if cuttings are not planted in the pits)
- 9. Follow precautions
- 10. Clean/store tools/materials / equipment
- 11. Keep records

Duty: 3: Apply fertilizer

Tasks:

- 1. Identify recommended doses of fertilizer
- 2. Calculate amount of fertilizer needed as per the recommended doses
- 3. Obtain the fertilizer
- 4. Weigh the calculated amount of fertilizer
- 5. Apply the fertilizer in the pits/channel
- 6. Mix the applied fertilizer in the soil
- 7. Make pits/channels ready to plant cuttings of pointed gourd
- 8. Clean/store tools/materials/ equipment
- 9. Follow precautions
- 10. Keep records

Duty: 4: Obtain cuttings of pointed guard

Tasks:

- 1. Identify reliable source of obtaining cuttings of pointed gourd
- 2. Contact the source of obtaining cuttings of pointed gourd
- 3. Select healthy limber shoots of pointed gourd
- 4. Make cuttings of 120 150 cm long from the selected climber shoots of pointed gourd
- 5. Collect/obtain the cuttings
- 6. Place the cuttings in a safe place
- 7. Follow precaution
- 8. Keep record

Duty: 5: Propagate cuttings of pointed guard

Tasks:

- 1. Obtain cuttings (120 150 cm long)
- 2. Take one cutting
- 3. Make ring of the cutting with roundness of about 30 cm exposing the both ends of the cutting
- 4. Make rings of all the cuttings (steps 2 and 3)
- 5. Take the rings in the plantation site
- 6. Plant the rings in the pit at a depth of 10cm keeping 10-15 cm of both the cut ends out of soil/ground
- 7. Plant the rings in the channels as step no. 6 (if channel plantation is preferred) at a distance of 1 m each
- 8. Water lightly
- 9. Clean/store tools/materials/ equipment
- 10. Follow precautions
- 11. Keep records

Duty: 6: perform intercultural operations

Tasks:

- 1. Carryout irrigation
- 2. Clean the field frequently
- 3. Carryout weeding/loosening the soil
- 4. Prevent unwanted root development in the climber shoots through frequent manipulation of the crop shoots
- 5. Fit supporting structures at the time when new branches begin to appear
- 6. Let the climber shoots to climb on the supporting structure
- 7. Facilitate the development of more branches by cutting climbing shoots leaving only 22 30 cm length from the ground after harvesting the first lot of fruits
- 8. Cut dry climber shoot/branches leaving only ½ m from the ground

- 9. Loosen the soil at the bottom of the plant
- 10. Apply manure/fertilizer
- 11. Apply fertilizer since second year of crop grown (Ashwin Kartic)
- 12. Follow precautions
- 13. Keep records

Duty: 7: Apply plant protection measures

Tasks:

- 1. Identify common insects / diseases
- 2. Control fruit rot disease of pointed gourd
- 3. Control Seto Dhusi (सेतो द्सी) disease of pointed gourd
- 4. Control fruit rot maggots of pointed gourd
- 5. Control other insects of pointed gourd
- 6. Follow precautions
- 7. Clean/store tools/materials/ equipment
- 8. Dispose / store chemicals safely
- 9. Keep records

Duty: 8: Harvest pointed guard

Tasks:

- 1. Inspect the field
- 2. Identify the fruits of pointed guard that are ready to harvest
- 3. Pluck/harvest the fruits twice per week
- 4. Clean the harvested fruits of pointed guard
- 5. Store the cleaned fruits of pointed guard
- 6. Follow precautions
- 7. Clean/store tools used
- 8. Keep records/ be familiar with the yield/keep records of yield

Duty: 9: Market pointed guard

Tasks:

- 1. Grade the harvested fruits of pointed gourd.
- 2. Weigh the graded fruits of pointed gourd.
- 3. Make packages
- 4. Fix grade wise price
- 5. Transport the product packages
- 6. Sell the product
- 7. Calculate cost
- 8. Calculate profit / loss
- 9. Follow precautions
- 10. Keep records/be familiar with income

Modules, sub modules, tasks, and time allocation

Module	Sub module	SN	Tasks	Th.	Pr.	Tot.
Planning for		1.	Identify the followings:	1.0	1.0	2
growing pointed			 Nutritive value of pointed guard 			
guard			• Uses			
			Climatic requirement			
			Soil requirement			
		2.	Enlist botanical characteristics of	0.5	0.5	1
			pointed guard			
		3.	Enlist varieties of pointed guard	1.0	1.0	2
		4.	Identify the season of planting the	0.5	0.5	1
			cuttings of pointed guard			
		5.	Make plan for:	1.0	1.0	2
			Obtaining cuttings			
			Preparing land			
			Applying fertilizer			
			Propagating the cuttings			
			Intercultural operations			
			Plant protection			
			Harvesting and marketing the			
			products			
		6.	Enlist economic importance of growing	1.0	1.0	2
			pointed guard			
			6 Sub total:	5	5	10
Land preparation	Land	7.	Select field for growing pointed gourd	1	2	3
and fertilizer	preparation	8.	Plow the field deeply	1	2	3
		9.	Break the clods	1	2	3
		10.	Remove weeds/unwanted materials	1	2	3
		11.	Level the land	1	2	3
		12.	Make 2m apart lines on the field	1	2	3
		13.	Dig pits (30cm x 30cmx 30cm) on each	1	2	3
			line maintaining pi to pit distance as 1			
			m.			
		14.	Make channel of (25cm wide and 30 cm	1	2	3
			deep) maintaining channel to channel			
			distance as 2m (if cuttings are not			
		4.5	planted in the pits)	1		
		15.	Follow precautions	1	2	3
		16.	Clean/store tools/materials / equipment	1	2	3
		17.	Keep records	1	2	3
			Sub total:	11	22	33

	Fertilizer application	18.	Identify recommended doses of fertilizer	1	2	3
		19.	Calculate amount of fertilizer needed as per the recommended doses	1	2	3
		20.	Obtain the fertilizer	1	2	3
		21.	Weigh the calculated amount of fertilizer	1	2	3
		22.	Apply the fertilizer in the pits/channel	2	4	6
		23.	Mix the applied fertilizer in the soil	1	2	3
		24.	Make pits/channels ready to plant cuttings of pointed gourd	1	2	3
		25.	Clean/store tools/materials/ equipment	1	2	3
		26.	Follow precautions	1	2	3
		27.	Keep records	1	2	3
			Sub total:	11	22	33
Propagation	Obtaining cuttings of	28.	Identify reliable source of obtaining cuttings of pointed gourd	1.0	2	3.0
	pointed guard	29.	Contact the source of obtaining cuttings of pointed gourd	1.0	2	3.0
		30.	Select healthy limber shoots of pointed gourd	1.0	2	3.0
		31.	Make cuttings of 120 – 150 cm long from the selected climber shoots of pointed gourd	2.0	4	6.0
		32.	Collect/obtain the cuttings	1.0	2	3.0
		33.	Place the cuttings in a safe place	1.0	2	3.0
		34.	Follow precaution	0.5	1	1.5
		35.	Keep record	0.5	1	1.5
			8 Sub total:	8	16	24
	Propagating	36.	Obtain cuttings (120 – 150 cm long)	1.0	2.0	3.0
	cuttings of	37.	Take one cutting	1.0	2.0	3.0
	pointed guard	38.	Make ring of the cutting with roundness of about 30 cm exposing the both ends of the cutting	1.0	2.0	3.0
		39.	Make rings of all the cuttings (steps 2 and 3)	1.0	2.0	3.0
		40.	Take the rings in the plantation site	1.0	2.0	3.0
		41.	Plant the rings in the pit at a depth of 10cm keeping 10 – 15 cm of both the cut ends out of soil/ground	2.0	4.0	6.0
		42.	Plant the rings in the channels as step no. 6 (if channel plantation is preferred)	1.0	2.0	3.0

		at a distance of 1 m each			
	43.	Water lightly	1.0	2.0	3.0
	44.	Clean/store tools/materials/ equipment	1.0	2.0	3.0
	45.	Follow precautions	0.5	1	1.5
	46.	Keep records	0.5	1	1.5
	+0.	11 Sub total:	11	22	33
		11 Sub total.	11	22	33
Intercultural	47.	Carryout irrigation	1.0	2.0	3.0
operations	48.	Clean the field frequently	1.0	2.0	3.0
operations	49.	1 4	1.0	2.0	3.0
		Carryout weeding/loosening the soil	1.0	2.0	3.0
	50.	Prevent unwanted root development in	1.0	2.0	3.0
		the climber shoots through frequent			
	7.1	manipulation of the crop shoots	2.0	4.0	6.0
	51.	Fix supporting structures at the time	2.0	4.0	6.0
	50	when new branches begin to appear	1.0	2.0	2.0
	52.	Let the climber shoots to climb on the	1.0	2.0	3.0
		supporting structure	1.0	•	2.0
	53.	Facilitate the development of more	1.0	2.0	3.0
		branches by cutting climbing shoots			
		leaving only $22 - 30$ cm length from the			
		ground after harvesting the first lot of			
		fruits			
	54.	Cut dry climber shoot/branches leaving	1.0	2.0	3.0
		only ½ m from the ground			
	55.	Loosen the soil at the bottom of the	1.0	2.0	3.0
		plant			
	56.	Apply manure/fertilizer	1.0	2.0	3.0
	57.	Apply fertilizer since second year of	1.0	2.0	3.0
		crop grown (Ashwin - Kartic)			
	58.	Follow precautions	0.5	1	1.5
	59.	Keep records	0.5	1	1.5
		Sub total:	13	26	39
Plant protection	60.	Identify common insects / diseases	1.0	2.0	3.0
measures	61.	Control fruit rot disease of pointed	1.0	2.0	3.0
		gourd			
	62.	Control Seto Dhusi (सेतो दूसी) disease of	1.0	2.0	3.0
		pointed gourd			
	63.	Control fruit rot maggots of pointed	1.0	2.0	3.0
	05.	gourd	1.0	2.0	3.0
	64.	Control other insects of pointed gourd	2.0	4.0	6.0
	65.	Follow precautions	1.0	2.0	3.0
	66.	Clean/store tools/materials/ equipment	1.0	2.0	3.0
	67.	Dispose / store chemicals safely	0.5	1	1.5
	68.	Keep records	0.5	1	1.5
	00.	recep records	0.5	1	1.5

			9 Sub total:	9	18	27
Harvesting and	Harvesting	69.	Inspect the field	1.0	2.0	3.0
marketing	pointed guard	70.	Identify the fruits of pointed guard that are ready to harvest	1.0	2.0	3.0
		71.	Pluck/harvest the fruits twice per week	1.0	2.0	3.0
		72.	Clean the harvested fruits of pointed guard	1.0	2.0	3.0
		73.	Store the cleaned fruits of pointed guard	1.0	2.0	3.0
		74.	Follow precautions	1.0	2.0	3.0
		75.	Clean/store tools used	1.0	2.0	3.0
		76.	Keep records/ be familiar with the yield/keep records of yield	1.0	2.0	3.0
			8 Sub total:	8	16	24
	Marketing pointed guard	77.	Grade the harvested fruits of pointed gourd.	1	1	2
		78.	Weigh the graded fruits of pointed gourd	1	1	2
		79.	Make packages	1	1	2
		80.	Fix grade wise price	1	1	2
		81.	Transport the product packages	1	1	2
		82.	Sell the product	1	1	2
		83.	Calculate cost	1	1	2
		84.	Calculate profit / loss	1	1	2
		85.	Follow precautions	1	1	2
		86.	Keep records/be familiar with income	1	1	2
			10 Sub total:	10	10	20
			86 Total:	86	144	230