Overall Objective Smallholder farmers increase their income sustainably by implementing activities applying SHEP Approach. Market-oriented agriculture approach, vegetable cultivation, distribution, marketing and extension methods will be shared within Course Objective their organizations and targeted areas. 4 6 1 2 3 5 analyze challenges of vegetable cultivation techniques for SHEP Approach and clarify participant's how to apply it to the participant's agricultu<u>ral</u> marketing and extension methods Introduction to SHEP Plant physiology and biology for vegetable production(2)
 Crop production and water Marketing for promoting small-scale business(3) Japanese agricultural extension Explanation of interim & final Preliminary Phase Approach/Expansion of SHEP report writing(1) Online Kick-off Meeting Approach(2)
Facilitating intrinsic and autonomous motivation(1)
SHEP Approach(4) Production area formation to Marketing and trade of requirement(2) secure quantity and quality(1) horticulture(1)
Japanese agricultural value Tomato mulching How to write and read experiment(7)
Management of Cucurbitaceae
(melon and pumpkin)(9) scientific graphs and tables(1) Analysis of regional issues fo extension planning(4)
Rural life improvement and Development of cropping types in vegetable(1) Grafting in vegetables(2) Basic agro-economics of input- Effect of growing media for nursery production(4) rural development(2) output relation(2) Organizing small scale · Diagnosis and management of farmers(2) vegetable pests(2) Diagnosis and mana vegetable diseases(4) Physiology and management of nematode(1) · Soil physical properties and plant growth(2) Sustainable soil fertility Unit is shown in ( ). management(1) One unit is equivalent to 2.5 hrs. One day usually has 2 units. Nutrient deficiency of vegetables(4) Preparation for the Inception Cultivar trial of melon(4) Preparation for Field day(5) Individual Project(41) Tomato seed extraction(2) Preliminary Phase Field day(5)
Participatory agricultural and Writing a report on individual project(23) Cost-benefit analysis of Farmer Interview Farmer Interview
 Market Survey Microscopic observation of pumpkin cultivation(4) Mid-term discussion for individual rural development(2) Effect of thinning on carrot marketable yield (7) flower-bud in tomato(1) Neridoko, soil block nursery(1) project(12) Correction and submission of Soil solarization(2) experimental reports(3) Experimental design for individual project(3) Seed disinfection methods(2) Soil sampling and testing(2) Agricultural policy & systen Formulation and presentation of Compost and Bokashi the interim report(5) making(2) Carbonized rice husk, "Kuntan' making(1) Maintenance of freshness in vegetables(1) Food processing (Jam and ketchup making)(1) Report presentation(5) Inception Report Plant physiology and biology Preliminary Phase Presentation(2) Write up the Inception Report Pest & disease Experience sharing of the SHEP Agricultural extension syste activities(1) in the respective countries(1) Soil & fertilizer Postharvest handling Fostering youth farmers(2) Agricultural extension in Collective grading & shipment Irrigation facilities(1)Seed company and breeding Diversified marketing institute(2) Japan(2) channels(4) Horticultural crop production Production and distribution of Consumer cooperative(1)
Role & function of the and processing(5) potato tubers(1) • Raising vegetable vegetables(1) Research activities in NARO wholesale market(2) Agro chemical company(1) Agricultural inputs shop (seeds, Women in agriculture(1) fertilizer, etc.)(1)
Contract farming with food
company(2) Soil media manufacture(1) Winter tomato production(1) Recycling and utilization of organic waste(1) Farm management in tourism Value addition(1) orchard farm(1) Home delivery of a sorted vegetables(1)

## 7

To share learning points and contents of technical and interim reports with related persons and to inform the result to JICA

## Finalization Phase

 Share learning points and contents of technical and interim reports with related persons and to inform the result to JICA





## SA TSUKUBA

MARKET-ORIENTED AGRICULTURE PROMOTION FOR EXTENSION OFFICER FY2022