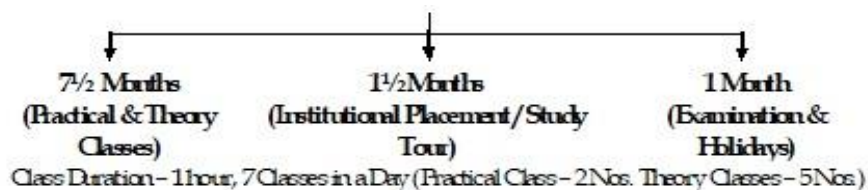
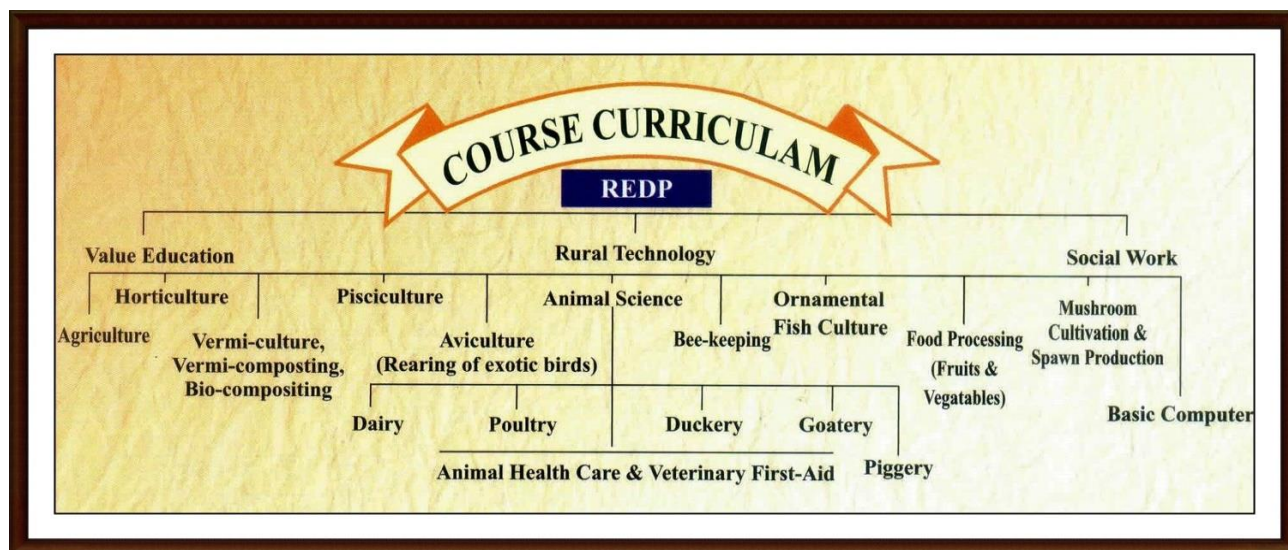


RAMAKRISHNA MISSION SAMAJ SEVAK SIKSHAN MANDIR
(A RUDSETI type institute in collaboration with United Bank of India and NABARD)
BELUR MATH, HOWRAH-711 202

SYLLABUS
FOR
RURAL ENTREPRENEURIAL DEVELOPMENT PROGRAMME (REDP)
FOR 10 MONTHS DURATION CONDUCTED BY
RAMAKRISHNA MISSION SAMAJ SEVAK SIKSHAN MANDIR



A) VALUE EDUCATION : HISTORY & PHILOSOPHY OF RAMAKRISHNA VIVEKANANDA MOVEMENT AND THE LIVES OF SRI RAMAKRISHNA, VIVEKANANDA & HOLLY MOTHER			
SL. No.	SUBJECTS	Hours	
		Theory	Practical
1	Teaching and Messages of Ramakrishna-Vivekananda & Holly Mother, Ramakrishna-Vivekananda Movement and their relevance to present day Development programme. Social Philosophy into action. Rural Development programmes of Ramakrishna mission, karma yoga, Life and Works of Sisters Nivedita	150	0

B) SOCIAL WORK			
SL. No.	SUBJECTS	Theory	Practical
1)	Social Work – I : 1) Social Case Work and 2) Social Group Work		
	1) Social Case Work:		
	i) Concept & definition of social case work		
	ii) Process of social case work, Stages of social case work, Study, Diagnosis, Treatment		
	iii) Components of case work, Person, Problem, Place, Process		
	iv) Principles of social case work	12	0

	v) The case worker-client relationship, Interviewing in case work, Procedures of Interviewing vi) Recording in social work vii) Case work in different agency settings. b) Social Group Work: i) Concept and definition of social group work, Function of group work, Purpose of group work ii) Principles of group work, Evaluation of a group, Group development iii) Role of group worker iv) Attributes of a group leader, effective programme criteria v) Meaning of group, Types of group vi) Important variables in working with the group, Agency, Group member, Programme, Group worker, Group leader	13	0
II)	Social Work – II : 1) Community Organisation, 2) Community Development & Management of Rural Entrepreneurship and Capacity Building 1) Community Organisation: i) Concept of community organisation, Aims of community organisation, Methods of community organisation ii) Specific objectives of community organisation iii) Techniques and Media for community consciousness iv) Principles of community organisation, Techniques for making the organisation effective. v) Role of a community organiser, Steps in community organisation 2) Community Development & Management of Rural Entrepreneurship and Capacity Building: i) Concept of community and development, Definition of community development, History of community development project. ii) Essential elements of community development, Objectives of community development, Programmes of community development. iii) Early extension movement – Ramakrishna Mission, Sriniketan experiment etc. iv) Concept of extension education, Scope and objectives of extension v) Principles of extension vi) Qualities of a good extension worker vii) Concept of leader and leadership, Types of leader, Role of a leader in rural development / community development, Identification of a good leader viii) Concept of communication, Pre-requisites of communication, Barriers of effective communication, Key-elements of communication ix) History of rural development in India x) Entrepreneurship development and capacity building	Theory 15 20	Practical 0 0
III)	Social Work – III : 1) Social Welfare Administration, 2) Social Action and 3) Fields of Social Work 1) Social Welfare Administration: i) Concept and definition of social administration, Importance of administrative process ii) Principles of administration, Function of administration, Areas of administration iii) Budget: Purpose of budget, Methods of preparing budget, Guiding principles of budget iv) Supervision: Concept and definition of supervision, Purpose and function of supervision, Methods and techniques of supervision	Theory 10	Practical 0

	v) Concept and Definition of Policy & planning – steps of policy determination, Principles of policy making, Aspects of planning, Principles of planning		
	vi) Coordination: Concept and definition of coordination, Principles of coordination, Objectives of coordination		
	vii) Evaluation: Concept & definition of evaluation, Functions of evaluation, Principles of evaluation, Types of evaluation		
	2) Social Action:		
	i) Concept and definition of social action, Purpose and objectives of social action		
	ii) Principles of social action	10	0
	iii) Methods of social action		
	iv) Concept & definition of social defence, Approaches of social defence, Services for Adult prisoners, Juvenile Delinquency, Social & Moral Hygiene, Causes & remedies, Social legislation		
	3) Fields of Social Work:		
	i) Needs of youth organisation welfare services for the youth (current programmes for the youth), Swamiji's approach on Indian Youth.		
	ii) Welfare of the backward classes (specially Scheduled Castes and Scheduled Tribes) – Characteristics of Scheduled Tribes in India, Welfare measures undertaken by the govt. for the scheduled castes and scheduled tribes, Constitutional safe guard for the scheduled castes and scheduled tribes.		
	iii) Medical social work – Role of social worker in health and hygiene programme – Steps to sanitation	10	0
	iv) Family & Child Welfare: Modern concept of child care, Problems of the destitute, Psychologically, Mentally and Socially handicapped children, Role of the family, The School, The community and The state in providing for the childhood, Needs of the children.		
	v) Changing concept of women's rights and role in society, Institutional care for socially handicapped women, Family planning, Welfare programmes for women & children		
IV)	Social Work – IV : Social Survey and Social Research	Theory	Practical
	1) Social Survey:		
	i) Concept of social survey, Development of social survey movement		
	ii) Object of social survey, Subject matter of social survey, Types of social survey	15	0
	iii) Planning of a social survey		
	iv) Design of sample, types of sampling, Methods of data collection, Purpose of schedules, Kinds of schedules, Essential of a good schedule		
	v) Socio-economic survey, Collection of basic information of a village		
	2) Social Research:		
	i) Definition of social research and social work research, Difference between social survey and social research		
	ii) Objectives of social research, Motivating factors of social research, Subject matter of social research, Utility of social research, Steps of social research	15	0
	iii) Proceeding of data : Coding, Editing, Checking, Classification, Evaluation and analysis of data / Interpretation of data, Report writing / Preparation of fields reports		
	Total (B)	120	0

C)	ENTREPRENEURSHIP DEVELOPMENT PROGRAMME (EDP)		
SL. No.	SUBJECTS	Theory	Practical
I)	Becoming an Entrepreneur:		
	2) Micro lab – Ice breaking exercise	1	0
	3) Achievement Motivation – Confidence building	1	0
	4) Why self-employment – Advantages over wage employment, Entrepreneurship Development – What, Why & How? – Introduction	1	0
	5) Entrepreneurial competencies – Importance, explanation with examples, case study for identification of different competencies	1	0
	6) Characteristics of a Successful Entrepreneur	1	0
	7) Risk taking, creativity & innovativeness	2	0
	8) Perceiving and mobilizing resources	1	0
	9) Influencing and negotiation skill	1	0
	10) Problem solving orientation, process and skill	1	0
	11) Achieving business goals	1	0
II)	Launching the Enterprise:	Theory	Practical
	12) Formalities in enterprise selling (including for obtaining license)	1	0
	13) Availing bank finance & banking formalities	1	0
	14) Insurance of enterprise : Need & formalities	1	0
	15) Project implementation & monitoring	1	0
	16) Financial support system	1	0
	17) Interface with existing entrepreneurs	1	0
III)	Managing the Enterprise:	Theory	Practical
	18) Small business management (fundamental & basic concept)	1	0
	19) Monitoring books of accounts	1	0
	20) Handling and resourcing working capital	1	0
	21) Costing & pricing	1	0
	22) Marketing of products / services	1	0
	23) Taxation : Sale tax, Income tax, Exercise duties etc.	1	0
	24) Organising works for better performance	1	0
	25) Enterprise failure - cause & cures	1	0
	26) Developing business / services contact	1	0
	27) Quality control / packaging	1	0
	28) Enterprise growth - exposing & diversification	1	0
	29) Action plan	1	0
IV)	Services:	Theory	Practical
	30) Selling and salesmanship	1	0
	31) Dealing with customer & developing customer	1	0
	32) Sales, credit & collection	1	0
	33) Common pitfalls and how to avoid them	1	0
	34) Business ethics and entrepreneurship	1	0
	35) Legal formalities in setting and running a small enterprise	1	0
V)	Financial Literacy & Important Laws:	Theory	Practical
	36) Financial literacy, banking system, account opening procedure	2	0
	37) Income generation and preservation system	1	0
	38) Project formulation and effective budgetary procedure	2	0
	Total (C)	40	0

D)	AGRICULTURE AND ALLIED ACTIVITIES		
Sl. No	I) SUBJECT : AGRICULTURE	Theory	Practical
1	Agriculture in W.B- Major crops acreage , yield, production	1	

2	Agro-climatic Zones – Characteristics of soil, crops, vegetables, fruits etc.	1
Soil:		
3	Soil as medium of plant, growth components of soil, mineral matter, organic matter, water etc.	1
4	Soil types – Physical, Chemical, Biological characteristics	1
5	Soil rhizosphere activity, soil solution, nutrient supply etc.	1
6	Soils of West Bengal & their fertility status	1
7	Problematic soils – acidic, saline, waterlogged soils & their management	2
8	Soil testing – soil sample collection, analysis & interpretation of ST reports	3
9	Soil health attributes & their management	1
10	Soil erosion cause type & methods of conservation	3
Plant Nutrient & Nutrition:		
11	Essential plant nutrients & their functions	2
12	Nutrient deficiency symptoms & remedies	2
13	Nutrient uptake process & pattern in major crops	1
14	Nutrient availability from mineral & organic matter	1
15	Balanced use of nutrients	1
16	Integrated Nutrient Management - organic, bio-fertilizer	1
Manures & Fertilisers:		
17	Organic Manures – Nutrient content, FYM, Compost, Poultry manure etc.	3
18	Bio fertilizers – types, preparation & role	2
19	Vermicompost – composition, preparation & use	4
20	Basic principles of organic farming & methodology	2
21	Fertilizers – kind, nutrient content and identification of M & F	2
22	Micronutrient, speciality fertilizers & application methods	1
23	Fertilizer application – kind, method, time & placement technique	2
24	Fertilizer application based on ST reports and local agro-climatic conditions	2
25	Fertilizer use efficiency – ways to maximise	1
26	Fertiliser control - order & easy ways to direct adulterated fertiliser	1
Seed and Seed Production :		
27	Basic concept of seed technology	1
28	Characteristics of good seed, quality, parameters	1
29	Seed production & preservation	2
30	Seed act and Seed certification procedures	1
31	Marketing & quality control of seeds	2
32	Seed Village Concept	2
Cultivation of Major Crops :		
33	Package & practices of Rice Cultivation – 3 seasons - Aus, Aman, Boro; SRI; Drum Seeder, Hybrid Rice Cultivation, SARP, Seed bed preparation for both	5
34	A) Insect management of rice	2
	B) Disease management of rice	2
35	Cultivation of Jute	2
36	Potato Cultivation	2
37	Wheat Cultivation	2
38	Cultivations of Pulses including Soyabean	3
39	Cultivation of mustard & other oilseeds, sunflower, groundnut	3
40	Cultivation of maize, sugarcane	3

41	Concept of multiple cropping system – mixed, relay, pairs etc.	1	
42	A) Farm Management Practices	4	
	B) Puddling, Zero tillage, Minimum tillage		
43	Calculation of cost of cultivation & cost-benefit ratio	1	
44	Post-harvest technology & rodent management	2	
45	Crop insurance & modified crop insurance	3	
Farm Machinery & Agril-implements :			
46	Tractor & power tiller operation	2	
47	Improved agri-implements like drum seeder, seed drill, sprayer duster etc.	3	
Pest Management & Equipment :			
48	Diseases of major crops & management	2	
49	Major insect & their management	2	
50	Integrated Pest Management	3	
51	Management of major weeds & use of herbicides	3	
52	Judicious use of pesticides, dose method & time of application	3	
53	Concept of bio-technology, bio-pesticide & bio village	2	
54	A) Operation of plant health clinic	1	
	B) Stored grain pest and its management	2	
Water Management :			
55	Water requirement of major crops & water table depletion and its managements	1	
56	Irrigation practices, time of application & minimising losses and drainage problems & solution	2	
Soil Erosion & Conservation :			
57	Soil conservation practices- watershed management, NWDpra concept, rain water harvesting	2	
58	Farm & social forestry management	1	
Agricultural Extension :			
59	Basic of agriculture extension network – Govt., NGO, Pvt., KVK, Panchayet Raj	1	
60	Concept of RKVY, SAMETI, ATMA	1	
61	Rural survey methodology, monitoring & evaluation etc	1	
Environment & Ecology :			
62	Environmental & ecological issues & management	1	
63	Eco friendly farming practices	1	
64	Agriculture related pollution and its probable remedies	2	
Record Keeping :			
65	Concept and maintenances of farm records and visit	1	
66	Agricultural finance cooperation through commercial banks, co-operatives etc.	2	
67	Integrated farming system & composite farming	2	
68	Marketing of Agricultural Produce		
	a) Concept of rural market and marketing	1	
	b) Daily Hat, Bazar, Wholesale market	1	
	c) Brand, Shelf coverage, price	1	
69	Crop cutting & experiment	1	
70	Crop insurance and modified crop insurance	1	
71	Consumer protection act	1	
72	Medicinal plant, it's prospect problems and solution	1	
Total (I)		135	190
Sl. No	II) SUBJECT : HORTICULTURE	Practical	Theory

Basics of Horticulture :		
1	Fundamentals on horticulture- different divisions	1
2	Economic importance. Acreage, production of different fruit & vegetable crops & flowers	2
3	Principles of vegetable cultivation	2
Cultivation of Fruit Crops :		
4	Cultivation practices of Mango	2
5	Cultivation of litchi / Guava	1
6	Cultivation of papaya / pomegranate	1
7	Cultivation of citrus-different varieties	2
8	Banana cultivation- tissue culture technique	2
9	Management practice coconut / arecanut	2
10	Cultivation of pine apple	2
11	Cultivation of water melon	2
Cultivation of Vegetable Crops :		
12	Vegetables in different seasons –winter ,summer, rainy,	5
13	Cultivation of summer vegetable-cucurbits, leafy vegetables	4
14	Cultivation of cabbage, cauliflower & Cole crops	4
15	Cultivation of brinjal round the year	4
16	Cultivation of chilli / ladies finger	2
17	Tomato cultivation	2
18	Carrot, turnip, radish	2
19	Cultivation of capsicum, baby corn, broccoli & other high value vegetable	4
Spice & Medicinal Plant with special reference to Organic Cultivation:		
20	Cultivation of Onion, Ginger, Turmeric	2
21	Cultivation practices of Pan- plant protection measures	2
22	Agricultural marketing (EDB)	2
Vegetative Propagation :		
23	Methods of vegetative propagation of fruit crops – cutting, budding, grafting, layering etc.	6
Cultivations of Flowers :		
24	Seasonal flowers – Gladiolus, Gerbera, Succulents, Tuberose etc.	5
25	Cultivation of rose, cactus, orchid etc.	5
Nursery & Kitchen Garden with special reference to Organic Cultivation :		
26	Kitchen garden management	3
27	Nursery preparation & management	3
28	Pot culture management	3
Plant Protection :		
29	Major insects of fruits & vegetables	3
30	Major diseases of fruits & vegetables	3
31	Integrated pest management in horticultural crops- bio pesticide	3
32	Precautions in pesticide application – do's & don't	3
33	Application & maintenance sprayer, duster etc.	2
34	Post-harvest pest management of fruits & vegetables	3
Manures & Fertiliser use :		
35	Manure & fertiliser doses, applications on fruits & vegetables	3
36	Foliar spray, fertigation, drip irrigation methods of nutrient application	3
Processing & Preservation of Fruits & Vegetables :		
37	Post harvesting handling operations of fruits & vegetables	2
38	Processing for storage – sorting, grading etc.	2
39	Preparation of fruit products like sauce, Jam, Jelly, Pickle etc	4
Seed Production of Horticultural Crops :		
40	a) Vegetable- Cucurbits / Onion / Garlic / Solanaceous / Papaya	4

	b) Seasonal flowers	3	
41	Social forestry (Horticulture Crops exclusively), Ber beal appeal, Gola, Bail, Custared apple	5	
	Total (II)	120	186
SL. NO.	III) SUBJECT : ANIMAL HUSBANDRY	Theory	Practical
Animal Science – Introduction :			
1	Importance of Animal Husbandry in Rural Economy	1	0
2	Breeds of livestock in West Bengal	2	0
3	Concept of breed & breeding	1	0
4	Importance of artificial insemination breeding, problem in West Bengal	2	0
Housing Management :			
5	Housing of cattle, buffalo, sheep goat & pigs	2	0
6	Housing of poultry farming including duck, quail, broiler farming	2	0
7	Backyard poultry farming	1	0
8	Layer farming	1	0
Goat & Rabbit Management :			
9	Goat production & management	1	0
10	Rabbit production & management	1	0
Care & Management :			
11	Reproductive characteristics of dairy bovines	1	0
12	Care & management of pregnant cow including parturition	2	0
13	Care & management of new born calves & rearing upto three months of age	2	0
14	Care & management of lactating cow	1	0
15	Care & management of pigs	1	0
16	Rearing of heifer & dry animals	1	0
Food & Nutrition :			
17	Various feeds of livestock	2	0
18	Computation of ration	1	0
19	Various fodders, their cultivation & preservation	2	0
20	Feeding & management of poultry, duck, pnaill, duck farming	2	0
21	Essential vitamins & minerals & their deficiency and live stock & poultry	2	0
Disease & Health Care :			
22	Temperature, pulse, respiration ruminal motility	2	0
23	Parasitic disease of livestock & poultry	2	0
24	Bacterial disease of livestock	2	0
25	Viral disease of livestock	2	0
26	Metabolic disease of livestock	2	0
27	Diseases associated with parturition & its care & preservation	1	0
28	Reproductive disorders in cattle & buffalo & primary health care	2	0
29	First aid in livestock	2	0
30	Different route of drug administration	1	0
31	Vaccination schedule in cattle, buffalo, sheep, goat, pig & poultry	3	0
32	Collection & despatch of pathological materials for disease diagnosis	2	0
Record Keeping, Insurance :			
33	Livestock insurance record keeping	1	0
Co-operatives & Others Scheme :			
34	Concept of diary co-operatives, SHGs and different schemes	1	0
SL. NO.	III/a) SUBJECT : GOAT REARING	Theory	Practical
1	Prospects of sustainable goat farming	1	0

2	Important goat breeds	1	0
3	Nutrition & feeding of goats and preparation of concentrate feed	2	0
4	Fodder management of goats	1	0
5	Low cost goat housing	1	0
6	Reproduction & breeding of goats and artificial insemination	1	0
7	Management of pregnant doe (pregnant female)	1	0
8	Kid rearing and sterilization	1	0
9	Common diseases of goats and their control	2	0
10	Marketing of goats	1	0
11	Economics and preparation of project report	1	0
SL. NO.	III/b) SUBJECT : DAIRY FARMING	Theory	Practical
1	Prospect of dairy farming as a suitable self-employment venture	1	13
2	Important breeds of dairy cattle (indigenous and exotic) and buffaloes	1	
3	Improvement of non-descriptive local cattle	3	
4	Nutrition and feeding of dairy animals, preparation of feeds	1	
5	Fodder cultivation, use of azola, silage and hay preparation, enrichment of straw & UMM block	2	
6	Ideal cattle shed construction, disposal of solid and liquid waste manure pit	1	
7	Artificial insemination	2	
8	Management of pregnant animals	2	
9	Calf rearing	2	
10	Important diseases of dairy animals, their control and prevention	2	
11	Insurance of dairy animals	1	
12	Management of lactating animals and production of clean milk	1	
13	Factors affecting quality of milk, milk recording and testing	1	
14	Preparation of different milk products	2	
15	Marketing of milk and milk product	1	
16	Economics of small dairy unit preparation of project report	1	
SL. NO.	III/c) SUBJECT : BROILER & BROILER FARMING	Theory	Practical
1	Scope of broiler farming	1	2
2	Procurement of chicks and handling	1	
3	System of rearing, preparation of deep litter, preparation and management of brooder, poultry equipments and their maintenance	2	
4	Broiler feeds, its preparation availability of broiler feed in market, practical aspect of feeding	2	
5	Important diseases and their prevention, schedule of vaccination and their medication	2	
6	Marketing of broiler birds	2	
7	Economics and preparation of project report	1	
SL. NO.	III/d) SUBJECT : DUCK FARMING	Theory	Practical
1	Scope of duck farming	1	1
2	Common breeds of duck for egg & meat purpose	1	
3	Procurement of duckling and handling	2	
4	System of rearing, construction of brooder house & management and duck feeds at different stages	2	
5	Important diseases of ducks and their prevention, schedule of vaccination and their medication	2	
6	Economics and preparation of project report	1	
SL. NO.	III/e) SUBJECT : PIGGERY	Theory	Practical
1	Scope of piggery	1	0
2	Important breeds	1	0
3	Selection of boar and sow	1	0

4	Housing, space requirement, construction of ideal shed, disposal of waste	1	0
5	Feeding of pigs, preparation of low cost feed	1	0
6	Common diseases of pigs and their prevention, schedule of vaccination	1	0
7	Marketing of pigs	1	0
8	Insurance of pigs	1	0
9	Economics of pigs and preparation of project report	1	0
Total (III)		120	16
SL. NO.	IV) SYLLABUS ON PISCICULTURE (INLAND FISHERIES) (GENERAL)	Theory	Practical
Fisheries – Introduction :			
1	Introduction to Pisciculture	1	0
2	Indian fisheries	1	0
3	Fresh & brackish water cultivable Fish & Prawns	1	0
4	Classification of cultivable fish depending on habitates	1	0
Food & Feeding Habit :			
5	Food, feeding habit & habitats of cultivable fish	1	0
6	Fish food organisms & classification – it's culture methods	1	1
7	Food web & food chain in freshwater eco-system	1	0
Pond Management :			
8	Different types of pond	1	0
9	Pond eco-system and different tropic level	1	0
10	Construction of Pond	1	2
11	Preparation of Pond	1	1
12	Measurement of Pond	1	2
13	Water & soil qualities for fish culture	1	2
14	Rearing pond management	1	0
15	Stock pond management and CFC	1	0
16	Magur & prawn culture	1	0
Breeding Methods :			
17	Induced breeding of cultivable fish :		0
	a) Breed fish management	1	1
	b) Items required for breeding	1	1
	c) Breeding of carps by hapa method	1	2
	d) Stripping method	1	1
	e) Breeding of carps in eco-hatchery	1	1
	f) Bundh breeding	1	1
	g) Controlled breeding of common carp	1	1
	h) Breeding of magur	1	1
	i) Low cost carp breeding process	1	1
18	Pituitary gland & it's role in breeding	1	2
Nursery Management :			
19	Nursery management	1	0
Carp Breeding :			
20	Different modes of carp culture	1	0
Integrated Aqua Farming :			
21	Integrated aqua farming and low cost production system		0
	a) Sewage – fed fish culture	1	1
	b) Paddy-cum-horticulture- cum fish culture	1	0
	c) Duck-cum-fish culture	1	0
	d) Pig-cum-fish culture	1	0
	e) Poultry-cum-fish culture	1	0
Fresh & Brackish Water Culture :			

22	Fresh water prawn culture	1	0
23	Brackish water fish culture system	1	0
Parasite & Diseases :			
24	Parasites & diseases of fish and their control	1	2
Marketing & Economics :			
25	Economics of different culture system	1	0
26	Transportation of live fish	1	1
27	Marketing of fish	1	0
28	Maintenance of records & registers	1	0
Total (IV)		40	24
Sl. NO.	V) SYLLABUS ON ORNAMENTAL FISH CULTIVATION (GENERAL)	Theory	Practical
1	Ornamental fish biodiversity in India		
	a) Freshwater	1	0
	b) Brackish water		0
	c) Marine		0
2	Classification of ornamental fish	1	0
3	Construction and maintenance of aquarium	1	0
4	Stocking & compatibility	1	0
5	Feed & feeding of ornamental fishes	1	0
6	Breeding techniques of ornamental fish	1	0
7	Diseases of aquarium fishes and their control	1	0
Sl. NO.	V/a SYLLABUS ON ORNAMENTAL FISH CULTIVATION (SPECIAL)	Theory	Practical
1	Ornamental fish farming - A new dimension in aquaculture entrepreneurship	1	2
2	Fabrication, beautification, setting & maintenance of aquarium		
3	Water chemistry and suitable environment for aquarium fish species		
4	Maintenance of brood fishes	1	
5	Breeding process of live bearing species		
6	Breeding process of egg layers	1	
7	Live feed culture for ornamental fish	1	
8	Breeding of Gold fish	1	
9	Rearing of different species	1	
10	Export potential of ornamental fish	1	
11	Development of Private Entrepreneurship for establishment of ornamental fish breeding & rearing unit		
12	Health management in ornamental fish culture	1	
13	Code of conduct for export of ornamental fish keeping & its trade	1	
14	Different avenues for ornamental fishes to develop entrepreneurship	1	
15	List of ornamental fish exporters	1	
16	Success stories		
17	Market visit for trade experience	1	
Total (V)		19	2
Sl. NO.	VI) SYLLABUS ON AVICULTURE & CONSERVATION OF BIRDS (EXOTIC)	Theory	Practical
1	Introduction of Cage birds & Confidence building	1	2
2	Feeding & watering, Management of cage birds		
3	Health problem & treatment, Cage of pre-breeding period	1	
4	Management of birds & care, Problem & treatment	1	
5	Cage size & aviculture, Area of brood birds	1	
6	Health problem in cage, Caring of birds	1	
7	Rearing of chicks, E.D. P Market survey	1	
8	Feeding & watering, Managements		
9	Breeding and About Laws	1	
10	Motivation & leadership, Financial literacy and Project formulation	1	

11	Animal health care, Symptoms etc.	1	
12	Evaluation, Discussed with trainees		
Total (VI)		9	2
SL. NO.	VII) SYLLABUS ON BEE KEEPING	Theory	Practical
Theoretical :			
1	Introduction, Brief History of Modern Beekeeping	1	0
2	Honey bee as useful insects.		
3	Species of honey bees, their nesting behaviour		
4	Manifold benefits of modern bee keeping as compared to crude methods of honey collection.	1	
5	Relationship between flowers and honey bees and their interdependence	1	
6	Selection of apiary site, important bee sources natural vegetation.		
7	Agri-horticulture crops, bee hives and equipments	1	
8	Queen rearing	1	
9	Apis cerena and Apis mellifera beekeeping		
10	Insect pests, diseases and other enemies and their control	1	
11	Seasonal bee management, growth period, swarming season	1	
12	Swarm control, dividing. requeening, queen introduction.		
13	Uniting, combs renewal, feeding, migration, honey flow season.	1	
14	Preservation of drawn out super comb, dearth period & its control	1	
15	Monsoon and winter management, extraction of bee wax etc.		
16	Honey bee pollination and its advantage.	1	
17	Bee products: Bee wax. Royal Jelly, Bees venom, Pollen	1	
18	Medicinal and food values of Honey	1	
19	Beekeeping as hobby, on commercial basis or semi commercial basis	1	
20	Granulation and fermentation of honey, their prevention	1	
21	Uses of bees wax, question & answer session		
22	Question answer session	1	
Practical :			
1	Introduction of species of honey bees	0	17
2	Different castes of bees		
3	Colony organization		
4	Bees' coherence in colony development and production of honey & wax		
5	Colony handling, inspection, maintenance, office record		
6	Keeping colony away from pests, predators, enemies, disturbances		
7	Robbing, fighting, drifting, removal of old combs.		
8	Preparation of comb foundation strips.		
9	Acquaintance with queen cell, swarm cell, emergency cell		
10	Swarm control, colony division, re-queening, queen introduction.		
11	Packing, colony migration		
12	Honey extraction, processing quality control.		
13	Granulation and storing, extraction of bees wax		
14	Use of solar wax extraction		
15	Visit to local apiaries.		
16	Summing up		
Total (VII)		15	17
SL. NO.	VIII) SYLLABUS ON FOOD PROCESSING & PRESERVATION	Theory	Practical
Theory Classes:			
1	What is Preservation & why?	1	
2	Describe some basic tropics relating to wastefulness of food products	1	
3	Preservation Theory	1	

4	Short note and definition about food processing	1	0
5	Necessary instruments and accessories, if any required for the production of fruits & vegetables	2	
6	Mention the name, address and price of the availabilities of chemical objects, powder, Flavour colour etc. for the betterment of fruits & vegetables	1	
7	The process of extracting the fruit juice, Pulp, Pectin etc. may be mentioned.	3	
8	Mode of preparation and bottling systems: a) Pickle, b) Chatni, c) Sauce, d) Jam, e) Jelly, f) Squash, g) Mixed Fruit Jam, h) Cordial, i) Barli Water, j) Neckter, k) Marmalade etc.	20	
9	Some basic fault of the product of Jam & Jelly	2	
10	The products of Tomato	10	
11	Fixing of the price / cost		
12	Government policy for necessary permission of food production	2	
13	Marketing of the products	4	
14	The system & procedure of getting bank loan against proper project proposal	2	
Production House:			
1	Introduction / accustom to the use of the necessary instruments and accessories for the production of fruits & vegetables	0	1
2	Identification of various chemical articles, colour and flavour etc. for the production of grains		1
3	Production and bottling process of a) Different types of Pickle, b) Kasundi, c) Different types of Sauce, d) Different types of Jam, e) Different types of Jelly, f) Different types of Squash, g) Chatni etc.		126
4	Extension of fruit juice, Kernel, Pulp & Pectin etc.		3
5	Level preparation and fixing on the bottle		3
6	Chanachur, Papad etc. making		6
	Total (VIII)	50	140
SL. NO.	IX) SYLLABUS ON MUSHROOM CULTIVATION	Theory	Practical
1	Introduction, history & origin	1	20
2	Importance of mushroom – nutritive value & medicinal value	1	
3	Mushroom Vs. others proteins food stuff – comparative importance & its digestion	1	
4	Edible Vs. poisonous mushroom – identification – special features – types & varieties.		
5	Wild mushroom in forest fringe – type & varieties – its culture	1	
6	Cultivated & cultivable mushroom – different types and varieties of mushroom based on season of cultivation and its importance.	1	
7	Cultivation process and input management for cultivation of mushroom of different varieties under controlled condition and under different agro-ecological environment / climate.	2	
8	Protection of mushroom from different categories pests.	1	
9	Mushroom collection, drying & preservation technique (including laboratory management)	2	
10	Food processing – Mushroom as an ingredient	3	
11	Economic & marketing of mushroom – accounts & record keeping and data management – cost benefit ratio of mushroom cultivation , its preservation processing & marketing – study of marketing channels & opportunities.	2	
	Total (IX)	15	20
	TOTAL (I+II+III+IV+V+VI+VII+VIII+IX)	523	597

E)	BASIC COMPUTER APPLICATION		
SL. NO.	SUBJECT	Theory	Practical
Theory:			
1	Introduction, Basic operation of a computer	1	
2	Classification of a Computer	1	
3	Definition and classification of Software and Hardware	1	
4	Hardware:- Input, Output, CPU, Memory storage devices	1	
5	Category of software, Applications and Operating System	1	
6	Windows features, Application software and Data Management	2	
Practical & Theory:			
1	Introduction of Windows XP	1	4
2	Note Pad & Word Pad	3	4
3	MS Word 2007	4	5
4	MS Excel 2007	4	5
5	MS Access 2007	4	5
6	MS Power Point 2007	4	5
7	About Internet & e-mail	4	5
Total (E)		31	33

F)	SYLLABUS ON ENGLISH		
SL. NO.	SUBJECT	Theory	Practical
1	Basic Knowledge of		0
	a) Grammar	4	
	b) Parts of speech	4	
	c) Construction of different forms of sentence	4	
	d) Use of Who, Whom, Why, When, Whose, Where & How	3	
2	Words of opposite meaning	2	
3	Commonly confused words	2	
4	Common errors	2	
5	Some phrases	2	
6	Small speech	3	
7	Conversation	3	
8	Letter writing	3	
Total (F)		32	0

G)	FIELD / INSTITUTIONAL PLACEMENT FOR PRACTICAL CLASS (52 Days)		
Sl. No.	SUBJECT	Theory	Practical
1	Animal Husbandry for 30 Days	60	150
2	Field practical training on Induced Breeding of Fish and Seed Management for 7 Days	14	35
3	Practical training on Agriculture & Horticulture practice for 8 Days	16	40
4	Village Placement for 7 Days	0	49
Total (G)		90	274
H)	EXAMINATIONS & HOLIDAYS		
Sl. No.	SUBJECT	Theory	Practical
1	i) Examination	84	0
2	ii) Holidays	126	0
Total (H)		210	0
GRAND TOTAL (A+B+C+D+E+F+G+H)		1196	904