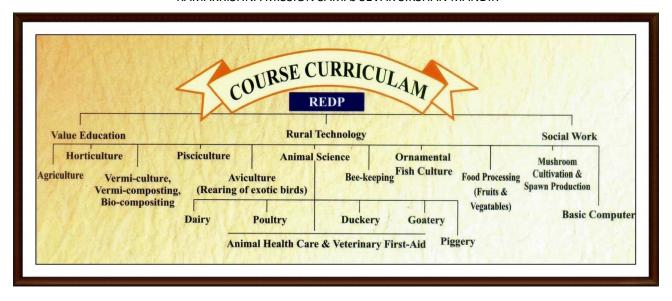
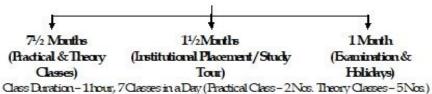
RAMAKRISHNA MISSION SAMAJ SEVAK SIKSHAN MANDIR

(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 EDICATION: HISTORY & PHILOSOPHY OF RAMAKRISHNA VIVEKANANDA MOVEMENT AND THE LIVES OF SRI RAMAKRISHNA, VIVEKANANDA & HOLLY MOTHER			
SI No	CUDIFCTC	Hours		
SL. No.	SUBJECTS	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	

В)	SOCIAL WORK		
SL. No.	SUBJECTS	Theory	Practical
I)	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

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	13	
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		
Social Work – II: 1) Community Organisation, 2) Community Development & Management of Rural Entrepreneurship and Capacity Building	Theory	Р
1) Community Organisation:		
i) Concept of community organisation, Aims of community organisation, Methods		
of community organisation		
ii) Specific objectives of community organisation	15	
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, Programmmes of community development.		
iii) Early extension movement – Ramakrishna Mission, Sriniketan experiment etc.		
iv) Concept of extension education, Scope and objectives of extension	20	
v) Principles of extension	20	
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		
Social Work – III : 1) Social Welfare Administration, 2) Social Action and 3) Fields of Social Work	Theory	Pı
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	10	
		1
iv) Supervision: Concept and definition of supervision, Purpose and function of	10	

	iii) Proceeding of data: Coding, Editing, Checking, Classification, Evaluation and analysis of data / Interpretation of data, Report writing / Preparation of fields reports		
	ii) Objectives of social research, Motivating factors of social research, Subject matter of social research, Utility of social research, Steps of social research	15	
	i) Definition of social research and social work research, Difference between social survey and social research		
ŀ	2) Social Research:		
	schedules, Kinds of schedules, Essential of a good schedule v) Socio-economic survey, Collection of basic information of a village		
	iv) Design of sample, types of sampling, Methods of data collection, Purpose of		
	iii) Planning of a social survey	_	
١	ii) Object of social survey, Subject matter of social survey, Types of social survey	15	
	i) Concept of social survey, Development of social survey movement		
- 1	1) Social Survey:	11.00.7	T ,
-	Social Work – IV : Social Survey and Social Research	Theory	Pra
	v) Changing concept of women's rights and role in society, Institutional care for socially handicapped women, Family planning, Welfare programmes for women & children		
	childhood, Needs of the children.		
	destitute, Psychologically, Mentally and Socially handicapped children, Role of the family, The School, The community and The state in providing for the		
	·		
	 iii) Medical social work – Role of social worker in health and hygiene programme – Steps to sanitation iv) Family & Child Welfare: Modern concept of child care, Problems of the 	10	
ļ		10	
	Constitutional safe guard for the scheduled castes and scheduled tribes.		
	undertaken by the govt. for the scheduled castes and scheduled tribes,		
	Tribes) – Characteristics of Scheduled Tribes in India, Welfare measures		
ı	ii) Welfare of the backward classes (specially Scheduled Castes and Scheduled		
	programmes for the youth), Swamiji's approach on Indian Youth.		
	i) Needs of youth organisation welfare services for the youth (current		
	3) Fields of Social Work:		
	remedies, Social legislation		
	for Adult prisoners, Juvenile Delinquency, Social & Moral Hygiene, Causes &		
	iv) Concept & definition of social defence, Approaches of social defence, Services		
	ii) Principles of social action iii) Methods of social action	10	
ļ	i) Concept and definition of social action, Purpose and objectives of social action		
ı			
	Principles of evaluation, Types of evaluation 2) Social Action:		
	vii) Evaluation: Concept & definition of evaluation, Functions of evaluation,		
	coordination, Objectives of coordination		
	vi) Coordination: Concept and definition of coordination, Principles of		

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,	1	0
	Entrepreneurship Development – What, Why & How? – Introduction	1	0
	5) Entrepreneurial competencies – Importance, explanation with examples, case	1	0
	study for identification of different competencies	1	U
	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	

	T	
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 Nut	rient & 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 indentification 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 adultered 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
Cultivatio	n 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
		2
37	Iwneat Cultivation	,
37 38	Wheat Cultivation Cultivations of Pulses including Sovabean	
37 38 39	Cultivation of Pulses including Soyabean Cultivation of mustard & other oilseeds, sunflower, groundnut	3

44 Post-harvest to 45 Crop insurance Farm Machinery & Agril- 46 Tractor & power 47 Improved agr Pest Management & Equation 48 Diseases of machinery & Agricultural Extension: 50 Integrated Per 51 Management 52 Judicious use 53 Concept of bire 54 A) Operation B) Stored gr Water Management: 55 Water requires 56 Irrigation prace problems & second conservate water harvest 57 Soil conservate water harvest 58 Farm & social Agricultural Extension: 59 Basic of agricultural Extension: 60 Concept of Rich Agriculture received and to the problems are conserved and the problems are conserved and to the problems are conserved and the problems are cons	ce and modified crop insurance	1 1 1 1 1 1 135	190
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44 Post-harvest to 45 Crop insurance Farm Machinery & Agril- 46 Tractor & power 47 Improved agril- 48 Diseases of miles 49 Major insect & 50 Integrated Per 51 Management 52 Judicious use 53 Concept of bious 54 A) Operation B) Stored growth	maintenances of farm records and visit	1	
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44 Post-harvest to 45 Crop insurance Farm Machinery & Agril- 46 Tractor & power 47 Improved agril- 48 Diseases of miles 49 Major insect & 50 Integrated Per 51 Management 52 Judicious use 53 Concept of bious 54 A) Operation B) Stored growth and St	arming practices	1	
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44 Post-harvest to 45 Crop insurance Farm Machinery & Agril-46 Tractor & power 47 Improved agril-48 Diseases of min 49 Major insect & 50 Integrated Pe	of pesticides, dose method & time of application	3	
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44 Post-harvest t 45 Crop insurand Farm Machinery & Agril-	i-implements like drum seeder, seed drill, sprayer duster etc.	3	
44 Post-harvest t 45 Crop insurance	•	2	,
44 Post-harvest t	ce & modified crop insurance	3	
	technology & rodent management	2	1
40 -	f cost of cultivation & cost-benefit ratio	1	<u>'</u>
	z, Zero tillage, Minimum tillage		1
	nagement Practices	4	
	ultiple cropping system – mixed, relay, pairs etc.	1	

Basics of Horticulture : 1 Fundamentals on horticulture- different divisions 2 Economic importance. Acreage, production of different fruit & vegetable crops & flowers 3 Principles of vegetable cultivation 2 Cultivation of Fruit Crops : 4 Cultivation of practices of Mango 5 Cultivation of Itchi / Guava 6 Cultivation of itchi / Guava 7 Cultivation of citrus-different varieties 8 Banana cultivation- tissue culture technique 9 Management practice oconout / arecanut 10 Cultivation of pine apple 11 Cultivation of pine apple 11 Cultivation of pine apple 12 Vegetables in different seasons—winter ,summer, rainy, 13 Cultivation of summer vegetable-cucurbits, leafy vegetables 14 Cultivation of summer vegetable-cucurbits, leafy vegetables 15 Cultivation of cabbage, cauliflower & Cole crops 16 Cultivation of chilli / ladies finger 17 Tomato cultivation 19 Cultivation of capsicum, baby corn, broccoli & other high value vegetable 19 Cultivation of of onion, Ginger, Turmeric 20 Cultivation of onion, Ginger, Turmeric 21 Cultivation of onion, Ginger, Turmeric 22 Agricultural marketing (EDB) 22 Vegetables of Prowers : 23 Methods of vegetative propagation of fruit crops—cutting, budding, grafting, larging etc. 24 Seasonal flowers — Gladiolus, Gerbera, Succulents, Tuberose etc. 25 Cultivation of Flowers : 26 Kitchen garden management 27 Nursery pegaration & management 30 Major diseases of fruits & vegetables 31 Integrated pest management in horticultural crops—bio pesticide 32 Pot culture management 33 Application & maintenance sprayer, duster etc. 34 Seasonal flowers — Gladiolus, Gerbera, Succulents, Tuberose etc. 35 Manure & Fertiliser use : 36 Kitchen garden management in horticultural crops—bio pesticide 33 Application & maintenance sprayer, duster etc. 34 Pot-harvest pest management in horticultural crops—bio pesticide 35 Foliar spray, fertilagion, drip irrigation methods of nutrient application 3 36 Foliar spray, fertilagion, drip irrigatio	Rasics of L	orticulture :	
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Seed Production of Horticultural Crops :	38		2
Seed Production of Horticultural Crops :	39		4
40 a) Vegetable- Cucurbits / Onion / Garlic / Solanacious / Papaya 4	Seed Produ		
	40	a) Vegetable- Cucurbits / Onion / Garlic / Solanacious / Papaya	4

	b) Seasonal flowers	3	Ī
	Social forestry (Horticulture Crops exclusively), Ber beal appeal, Gola, Bail,		
41	Custared apple	5	
	Total (II)	120	186
SL. NO.	III) SUBJECT : ANIMAL HUSBANDRY	Theory	Practical
Animal Sci	ence – 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
		2	0
4	Importance of artificial insemination breeding, problem in West Bengal	2	0
Housing M	lanagement :		
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
	bbit Management :	† -	
9	Goat production & management	1	0
10	Rabbit production & management	1	0
	nagement :	_	
11	Reproductive characteristics of dairy bovines	1	0
12	Care & management of pregnant cow including parturition	2	0
12	eare a management of pregnant cow melading partartion		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 & Nu		+ -	
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, pnail, duck farming	2	0
20	recalling & management of poultry, duck, phan, duck farming		0
21	Essential vitamins & minerals & their deficiency and live stock & poultry	2	0
	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
		1	0
30	Different route of drug administration Vaccination schedule in cattle, buffalo, sheep, goat, pig & poultry	3	0
31	Collection & despatch of pathological materials for disease diagnosis	2	0
		<u> </u>	U
	eping, Insurance :	1	
33	Livestock insurance record keeping	1	0
•	ives & Others Scheme :	1	
34	Concept of diary co-operatives, SHGs and different schemes	Theory.	0 Drastical
SL. NO.	III/a) SUBJECT : GOAT REARING	Theory	Practical
1	Prospects of sustainable goat farming	1	0

2 Important goat breeds 3 Nutrition & Teeding of goats and preparation of concentrate feed 2 0 4 Fodder management of goats 1 0 5 Low cost goat housing 5 Reproduction & breeding of goats and artificial insemination 1 0 7 Management of pregnant doe (pregnant female) 1 0 8 Kild rearing and sterilization 1 1 0 8 Kild rearing and sterilization 1 1 0 9 Common diseases of goats and their control 2 0 10 Marketing of goats 1 1 0 5 LNO. 11 Economics and preparation of project report 1 1 Prospect of dairy faming as a suitable self-employment venture 1 1 Prospect of dairy faming as a suitable self-employment venture 1 Imporvement of non-descriptive local cattle 1 Nutrition and feeding of dairy animals, preparation of feeds 1 Proder cultivation, use of azola, silage and hay preparation, enrichment of straw 2 Wild block 4 Nutrition and feeding of dairy animals, preparation of feeds 5 & UMM block 6 Ideal cattle shed construction, disposal of solid and liquid waste manure pit 7 Artificial insemination 2 1 Insurance of dairy animals 8 Management of pregnant animals 2 2 2 2 2 3 3 Feeting quality of milk, milk recording and testing 1 Insurance of dairy animals 1 Proparation of different milk products 1 Progreation of different milk products 1 Progreation of different milk products 1 Progreation of different milk products 1 Producement of chicks and handling 2 System of rearing, preparation of deep litter, preparation and management of succession of small dairy unit preparation of project report 2 Procurement of chicks and handling 3 System of rearing, preparation of deep litter, preparation and their maintenance 4 Broller feeds, its preparation of deep litter, preparation and management of Straw of rearing, preparation of deep litter, preparation and their maintenance 2 Broller feeds, its preparation of deep litter, preparation and their maintenance 3 Broller feeds, its preparation of deep litter, preparation and their maintenance 4 Scope of broller birds 5 Marketing of broller birds 6 Marketing of broller birds 7 Economics and	2	Lucy death and beautiful		0
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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 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 1 0 5 L. NO. III/O SUBJECT: DAIRY FARMING Theory Practical 1 Prospect of dairy farming as a suitable self-employment venture 1 1 Important breeds of dairy cattife (indigenous and exotic) and buffaloes 1 Important breeds of dairy cattife (indigenous and exotic) and buffaloes 1 Important breeds of dairy cattife (indigenous and exotic) and buffaloes 1 Important breeds of dairy cattife (indigenous and exotic) and buffaloes 1 Important breeds of dairy cattife (indigenous and exotic) and buffaloes 1 Important breeds of dairy cattife (indigenous and exotic) and buffaloes 1 Important breeds of dairy cattife (indigenous and exotic) and buffaloes 1 Important breeds of dairy cattife (indigenous and exotic) and buffaloes 1 Important diseases of dairy animals, preparation of feeds 1 Important diseases of dairy animals and production of clean milk 1 Important diseases of dairy animals and production of clean milk 1 Important diseases of dairy animals and production of clean milk 1 Important diseases of dairy animals and production of clean milk 1 Important diseases of dairy animals and production of clean milk 1 Important diseases of dairy animals and production of clean milk 1 Important diseases of dairy animals and production of clean milk 1 Important diseases of dairy animals and production of clean milk 1 Important diseases of dairy animals and production of clean milk 1 Important diseases of dairy animals and production of project report 1 Important diseases of dairy animals and production of project report 1 Important diseases of dairy animals and production of project report 1 Important diseases of duck for egg & meat purpose 1 Imp				_
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			1
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
9	Total (III)	120	16
SL. NO.	IV) SYLLABUS ON PISCICULTURE (INLAND FISHERIES) (GENERAL)	Theory	Practical
	- Introduction :	Theory	Practical
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
	eeding 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
	nagement :		
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
	Aanagement :	1	
19		1	0
	Nursery management	 	U
Carp Bree		1	
20	Different modes of carp culture	1	0
	d 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 & B	rackish Water Culture :		

22	Fresh water prawn culture	1	0
23	Brackish water fish culture system	1	0
Parasite &	·		-
24	Parasites & diseases of fish and their control	1	2
	& 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
20	Total (IV)	40	24
SI. NO.	V) SYLLABUS ON ORNAMENTAL FISH CULTIVATION (GENERAL)	Theory	Practical
1	Ornamental fish biodiversity in India	THEOLY	Tractical
Т.	a) Freshwater		0
	b) Brackish water	1	0
	c) Marine		0
		1	_
2	Classification of ornamental fish	1	0
3	Construction and maintenance of aquarium		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
SI. NO.	V/a SYLLABUS ON ORNAMENTAL FISH CULTIVATION (SPECIAL)	Theory	Practical
1	Ornamental fish farming - A new dimension in aquaculture entrepreneurship	1	
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	2
10	Export potential of ornamental fish		
11	Development of Private Entrepreneurship for establishment of ornamental fish	1	
12	breeding & rearing unit	1	
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	
CL NO	Total (V)	19	2 Dra etical
SL. NO.	VI) SYLLABUS ON AVICULTURE & CONSERVATION OF BIRDS (EXOTIC)	Theory	Practical
1	Introduction of Cage birds & Confidence building	1	
2	Feeding & watering, Management of cage birds	4	
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	2
7	Rearing of chicks, E.D. P Market survey	1	
8	Feeding & watering, Managements		
9	Breeding and About Laws Motivation & leadership, Financial literacy and Project formulation	1 1	
10			

11 12	Animal health care, Symptoms etc. Evaluation, Discussed with trainees	1	
12	Total (VI)	9	2
SL. NO.	VII) SYLLABUS ON BEE KEEPING	Theory	Practica
heoretica	· · · · · · · · · · · · · · · · · · ·	111001 y	110000
1	Introduction, Brief History of Modern Beekeeping	1	
2	Honey bee as useful insects.		
3	Species of honey bees, their nesting behaviour		1
_	Manifold benefits of modern bee keeping as compared to crude methods of	1	
4	honey collection.		
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	1
8	Queen rearing		Ì
9	Apis cerena and Apis mellifera beekeeping	1	
10	Insect pests, diseases and other enemies and their control	1	0
11	Seasonal bee management, growth period, swarming season	1	1
12	Swarm control, dividing. requeening, queen introduction.	1	
13	Uniting, combs renewal, feeding, migration, honey flow season.	1	1
14	Preservation of drawn out super comb, dearth period & its control	1	Ī
15	Monsoon and winter management, extraction of bee wax etc.	1	
16	Honey bee pollination and its advantage.	1	Ī
17	Bee products: Bee wax. Royal Jelly, Bees venom, Pollen	1	Ī
18	Medicinal and food values of Honey	1	Ī
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	
ractical :			
1	Introduction of species of honey bees	_	
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.	0	17
8	Preparation of comb foundation strips.		-
9	Acquaintance with queen cell, swarm cell, emergency cell	4	
10	Swarm control, colony division, re-queening, queen introduction.	4	
11	Packing, colony migration	4	
12	Honey extraction, processing quality control.	4	
13	Granulation and storing, extraction of bees wax	4	
14	Use of solar wax extraction	-	
15	Visit to local apiaries.	-	
16	Summing up	15	17
CL NO	Total (VII)	Theory	17
SL. NO.	VIII) SYLLABUS ON FOOD PROCESSING & PRESERVATION	Theory	Practic
Theory Cla		1	-
1	What is Preservation & why?	1	1
2	Describe some basic tropics relating to wastefulness of food products	1	

9 10 11	management) Food processing – Mushroom as an ingredient 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. Total (IX) TOTAL (I+II+III+IV+V+VI+VII+VIII+IX)	2 3 2 15 523	20 597
9	management) Food processing – Mushroom as an ingredient 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	
9	management) Food processing – Mushroom as an ingredient Economic & marketing of mushroom – accounts & record keeping and data management – cost benefit ratio of mushroom cultivation , its preservation	3	
9	management) Food processing – Mushroom as an ingredient Economic & marketing of mushroom – accounts & record keeping and data	3	
9	management) Food processing – Mushroom as an ingredient		
9	management)		
	management)		
	washiooni conection, arying & preservation technique (including laboratory	ว	
	Mushroom collection, drying & preservation technique (including laboratory		T
8	Protection of mushroom from different categories pests.	1	
	environment / climate.	_	
7	different varieties under controlled condition and under different agro-ecological	2	20
	Cultivation process and input management for cultivation of mushroom of		
6	based on season of cultivation and its importance.	1	
3	Wild mushroom in forest fringe – type & varieties – its culture Cultivated & cultivable mushroom – different types and varieties of mushroom	1	†
5		1	
4	Edible Vs. poisonous mushroom – identification – special features – types & varieties.		
	digestion	1	
3	Mushroom Vs. others proteins food stuff – comparative importance & its		
2	Importance of mushroom – nutritive value & medicinal value	1	ļ
1	Introduction, history & origin	1	ļ
SL. NO.	IX) SYLLABUS ON MUSHROOM CULTIVATION	Theory	Practical
	Total (VIII)	50	140
6	Chanachur, Papad etc. making		6
5	Level preparation and fixing on the bottle		3
4	Extension of fruit juice, Kernel, Pulp & Pectin etc.		3
	Different types of Squash, g) Chatni etc.		
3	Different types of Sauce, d) Different types of Jam, e) Different types of Jelly, f)		126
	Production and bottling process of a) Different types of Pickle, b) Kasundi, c)	0	
	production of grains		
2	Identification of various chemical articles, colour and flavour etc. for the		1
	for the production of fruits & vegetables		
1	Introduction / accustom to the use of the necessary instruments and accessories		1
Production	n House:		
14	The system & procedure of getting bank loan against proper project proposal	2	
		2	1
13	Marketing of the products	4	1
12	Government policy for necessary permission of food production	2	†
11	Fixing of the price / cost		†
10	The products of Tomato	10	
9	Some basic fault of the product of Jam & Jelly	2	†
	Marmalade etc.	_0	
8	e) Jelly, f) Squash, g) Mixed Fruit Jam, h) Cordial, i) Barli Water, j) Neckter, k)	20	
	Mode of preparation and bottling systems: a) Pickle, b) Chatni, c) Sauce, d) Jam,		ľ
7	The process of extracting the fruit juice, Pulp, Pectin etc. may be mentioned.	3	0
6	Mention the name, address and price of the availabilities of chemical objects, powder, Flavour colour etc. for the betterment of fruits & vegetables	1	
5	Necessary instruments and accessories, if any required for the production of fruits & vegetables	2	
	Short note and definition about food processing	1	
4	Charteness and definition about food annual in	4	Ī

E)	BASIC COMPUTER APLICATION		
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 & Ward 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		
	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	0
3	Commonly confused words	2	U
4	Common errors	2	
5	Some phases	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	14	35
2	Days	14	33
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