

# SIR C R REDDY COLLEGE FOR WOMEN, ELURU

## Annual Curricular Plan for the Academic Year 2022 - 2023

Name of the Lecturer:	P.JYOTHI				
Name of the Department:	FISHERIES				
Program	IBSC			Group:	IZFC
Title of the Course:	SHELL FISH CULTURE			Hrs allotted:	60
Year	I YEAR	Semester	II SEM	Course Code:	2
Section	IZFC			Hours/Week	4

Unit No. & Name	Hour	Day	Date	Topic to be Covered	METODOLOGY ADOPTED	Remarks
<b>UNIT-1 GENERAL CHARACTERS OF SHELL FISH</b>	1	Monday	1.6.23	Syllabus ,introduction class	P1	-
	2	Tuesday	2.6.23	UNIT-1 General charecters and classification of Shell fish	P1	-
	3	Wednesday	3.6.23	commercial importance of crustaceans	P1	-
	4	Thursday	5.6.23	commercial importance of molluscs	P4	-
	5	Friday	6.6.23	prawn external parts and appendages	P1	-
	6	Saturday	7.6.23	Exoskeleton and inegument	P1	-
	7	Thursday	8.6.23	Respiration in shrimp	P8	-
	8	Friday	9..6.23	Circulation in prawns	P1	-
	9	Saturday	10.6.23	Structure of gills ,mechanism of respiration	P1	-
	10	Monday	12.6.23	Nervous And excretory system of prawn	P1	-
<b>UNIT-2 FOOD FEEDING AND GROWTH</b>	11	Tuesday	13.6.23	<b>UNIT-2 FOOD,FEEDING AND GROWTH</b>	P1	-
	12	Wednesday	14.6.23	Sence organs in crustaceans and molluscs	P1	-
	13	Thursday	15.6.23	Natural food and feeding habits	P1	-
	14	Friday	16.6.23	Feeding intensity and utilization of food	P1	-
	15	Saturday	17.6.23	Gut content analysis	P1	-
	16	Monday	19.6.23	Digestive system of shrimp	P1	-
	17	Tuesday	20.6.23	Digestive system of crab	P1	-
	18	Wednesday	21.6.23	Digestive system of molluscs	P1	-
	19	Thursday	22.6.23	Integuments and exoskeleton od crustaceans	P1	-

<b>UNIT-3 REPRODUCTIVE BIOLOGY</b>	20	Friday	23.6.23	<b>UNIT-3 REPRODUCTIVE BIOLOGY</b>	P1	-
	21	Saturday	24.6.23	Breeding in oyster, Clams	P1	-
	22	Monday	26.6.23	Breeding in pearl oyster, fresh water mussel	P1	-
	23	Tuesday	27.6.23	Breeding in cephalopods	P1	-
	24	Wednesday	28.6.23	Reproductive organs in shrimp	P1	-
	25	Thursday	29.6.23	Induced maturation in shrimp	P1	-
	26	Friday	30.6.23	life cycle of shrimp	P5	-
	27	Saturday	1.7.23	life cycle of shrimp	P1	-
	28	Monday	3.7.23	Physiological changes after induced maturation	P1	-
	29	Tuesday	4.7.23	Physiological changes after induced maturation	P1	-
<b>UNIT-4 EMBRYONIC DEVELOPMENT</b>	30	Wednesday	5.7.23	<b>UNIT -4 DEVELOPMENT</b>	P1	-
	31	Thursday	6.7.23	Embryonic and larval development of shrimp	P1	-
	32	Friday	7.7.23	larval development of crab	P1	-
	33	Saturday	8.7.23	larval development of molluscs	P1	-
	34	Monday	10.7.23	Environmental factors affecting growth	P1	-
	35	Tuesday	11.7.23	Environmental factors affecting growth	P1	-
	36	Wednesday	12.7.23	factors affecting growth in shrimp	P1	-
	37	Thursday	13.7.23	factors affecting growth in shrimp	P1	-
	38	Friday	14.7.23	reproduction	P1	-
	39	Saturday	15.7.23	reproduction	P1	-
	40	Monday	17.7.23	Development of cultivable shell fish	P1	-
	41	Tuesday	18.7.23	Development of cultivable shell fish	P1	-
	42	Wednesday	19.7.23	larval development of crab	P1	-
	43	Thursday	20.7.23	larval development of shrimp	P1	-
	44	Friday	21.7.23	larval development of crab	P1	-



<b>UNIT-5 HARMONES AND GROWTH</b>	45	Saturday	22.7.23	<b>UNIT-5 HARMONES AND GROWTH</b>	P1	-
	46	Monday	24.7.23	Endocrine system of prawn	P1	-
	47	Tuesday	25.7.23	Endocrine system of prawn	P1	-
	48	Wednesday	26.7.23	Endocrine system of crab	P1	-
	49	Thursday	28.7.23	Endocrine sysyem of oyster	P1	-
	50	Friday	29.7.23	Endocrine system of oyester	P1	-
	51	Saturday	31.7.23	Neurosecretory cells	P1	-
	52	Monday	1.8.23	Neurosecretory cells	P1	-
	53	Tuesday	2.8.23	Androgenic glands	P1	-
	54	Wednesday	3.8.23	Ovary, cuticle	P1	-
	55	Friday	4.8.23	Moulting Moulting stages	P1	-
	56	Saturday	5.8.23	Moulting Moulting stages	P1	-
	57	Monday	7.8.23	Metamorphosis in crustaceans	P1	-
	58	Tuesday	8.8.23	Important questions revision	P7	-
	59	Wednesday	9.8.23	Important questions revision	P1	-
60	Thursday	10.8.23	Important questions revision	P1	-	

  
Signature of the Lecturer

  
Signature of the HOD

  
Signature of the Principal

P1 - LECTURE  
P6 - DEBATE

P2 - DEMONSTRATION  
P7 - QUIZ

P3 - AUDIO, VEDIO  
P8 - GROUP DISCUSSION

P4 - ASSIGNMENT  
P9 - JAM

# SIR C R REDDY COLLEGE FOR WOMEN, ELURU

## Annual Curricular Plan for the Academic Year 2022 - 2023

Name of the Lecturer :	T.ARUNA PRASANTHI			
Name of the Department:	FISHERIES			
Program	B.SC		Group:	II ZFC
Title of the Course:	CAPTURE FISHERIES II		Hrs allotted:	60 Hrs
Year	II ZFC	Semester	IV	
Section	BSC-ZFC		Hours/Week	4 Hrs

Unit No. & Name	Hour	Day	Date	Topic to be Covered	METHODOLOGY ADOPTED	REMARKS
<b>UNIT-I ESTUARINE FISHERY</b>	1	Friday	17-03-2023	Introduction class	P1	-
	2	Monday	20-03-2023	Definition of an estuary origion	P1	-
	3	Tuesday	21-03-2023	classification of estuary	P1	-
	4	Thursday	23-03-2023	Divergent esturies in India	P1	-
	5	Friday	24-03-2023	Their location and species composition	P1	-
	6	Monday	27-03-2023	Hoogly - matlah estury	P1	-
	7	Tuesday	28-03-2023	Hoogly - matlah estury	P1	-
	8	Wednesday	29-03-2023	Mahanadi estury	P1	-
	9	Friday	31-03-2023	Godavari estury	P1	-
	10	Monday	03-04-2023	Krishna estury	P1	-

<b>UNIT-II MARINE FISHERY</b>	11	Tuesday	04-04-2023	Marine environment	P1	-
	12	Thursday	06-04-2023	Marine fisheries resources in India	P1	-
	13	Monday	10-04-2023	Pelagic fishery resources	P1	-
	14	Tuesday	11-04-2023	Taxonomy general description	P1	-
	15	Wednesday	12-04-2023	Food and feeding habits ,reproduction	P1	-
	16	Thursday	13-4-2023	Crafts and gears	P1	-
	17	Monday	17-4-2023	Crafts and gears	P4	-
	18	Tuesday	18-4-2023	Fish utilization of the following sardines Bombay duck	P1	-
	19	Wednesday	19-4-2023	Mackerels ,Hilsa ,Mulletts ,Sharks and rays,Pomfrets.	P1	-
	20	Thursday	20-4-2023	Tuna, seer fish and prawns	P1	-
<b>UNIT-III CRAFT</b>	21	Friday	21-4-2023	Main types of the traditional crafts employed In marine	P1	-
	22	Monday	24-4-2023	Fresh water fisheries of Andhra pradesh	P1	-
	23	Tuesday	25-4-2023	Coracle ,Dhoni,Sangadam,Catmaran.	P1	-
	24	Wednesday	26-4-2023	Masula type boats ,fiber glass boats	P1	-
	25	Thursday	27-4-2023	Technique for the maintenance of the craft	P1	-
	26	Friday	28-4-2023	Technique for the maintenance of the craft	P1	-
	27	Saturday	29-4-2023	Modern fishing crafts	P1	-
	28	Monday	01-05-2023	Trawlers	P1	-
	29	Tuesday	02-05-2023	BLC	P1	-
	30	Wednesday	03-05-2023	Mechanized craft	P1	-



<b>UNIT-IV GEAR</b>	31	Thursday	04-05-2023	Traditional gear	P1	-
	32	Friday	05-05-2023	Traditional gear	P1	-
	33	Thursday	01-06-2023	Dip and lift nets	P1	-
	34	Friday	02-06-2023	Cast net ,Gill net ,shore seines	P1	-
	35	Monday	05-06-2023	Cast net ,Gill net ,shore seines	P5	-
	36	Tuesday	06-06-2023	Boat seines Hand lines ,long lines	P1	-
	37	Wednesday	07-06-2023	Conical set nets ,Drag net Trawl nets	P1	-
	38	Thursday	08-06-2023	Basket traps	P1	-
	39	Friday	09-06-2023	Basket traps	P1	-
	40	Monday	12-06-2023	fish finding equipment	P1	-
	41	Tuesday	13-6-2023	Echo sounder and sonar	P1	-
	42	Wednesday	14-6-2023	Echo sounder and sonar	P1	-
	43	Thursday	15-6-2023	Modern gear	P1	-
	44	Friday	16-6-2023	Techniques for the maintenance of the gear	P1	-
	45	Monday	19-6-2023	Techniques for the maintenance of the gear	P1	-
<b>UNIT-V FISHERY MANAGEMENT</b>	46	Tuesday	20-6-2023	Fishery management introduction	P1	-
	47	Wednesday	21-6-2023	Principles of conservation and management	P7	-
	48	Thursday	22-6-2023	Principles of conservation management	P1	-
	49	Friday	23-6-2023	Population dynamics	P1	-
	50	Monday	26-6-2023	Over fishing	P1	-

<b>UNIT-V FISHERY MANAGEMENT</b>	51	Tuesday	27-6-2023	Over fishing	P1	-
	52	Wednesday	28-6-2023	Maximum sustainable yield( MSY)	P1	-
	53	Friday	30-6-2023	Maximum sustainable yield( MSY)	P1	-
	54	Monday	03-07-2023	Maximum economic yield( MEY)	P8	-
	55	Tuesday	04-07-2023	Maximum economic yield( MEY)	P1	-
	56	Wednesday	05-07-2023	Optimum sustainable yield (OSY)	P1	-
	57	Thursday	06-07-2023	Optimum sustainable yield (OSY)	P1	-
	58	Friday	07-07-2023	Optimum sustainable yield (OSY)	P1	-
	59	Monday	10-07-2023	Overview of the topic	P1	-
	60	Tuesday	11-07-2023	Overview of the topic	P1	-

*T. Anura Prashanthi*  
Signature of the Lecturer

*(Signature)*  
Signature of the HOD

*(Signature)*  
Signature of the Principal

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### Annual Curricular Plan for the Academic Year 2022 - 2023

Name of the Lecturer :	P.JYOTHI			
Name of the Department:	FISHERIES			
Program	II BSC		Group:	II ZFC
Title of the Course:	FIN FISH CULTURE		Hrs allotted:	60 Hrs
Year	II ZFC	Semester	IV	Course Code: 4B
Section	B.SC -ZFC		Hours/Week	5Hrs

Unit No. & Name	Hour	Day	Date	Topic to be Covered	METHODOLOGY ADOPTED	REMARKS
<b>UNIT-I BASICS OF AQUACULTURE</b>	1	Friday	17-03-2023	Basics of aquaculture – Scope and definition	P1	-
	2	Monday	20-03-2023	history of aquaculture origin and growth	P1	-
	3	Tuesday	21-03-2023	General principles underlying the practices of aquaculture.	P1	-
	4	Thursday	23-03-2023	Major cultivable Indian Carps, Chinese carps and Air Breathing fishes.	P1	-
	5	Friday	24-03-2023	Different fresh water Aquaculture systems	P1	-
	6	Monday	27-03-2023	Monoculture, Polyculture	P1	-
	7	Tuesday	28-03-2023	Integrated culture	P1	-
	8	Wednesday	29-03-2023	Cage culture	P1	-
	9	Friday	31-03-2023	Pen culture	P1	-
	10	Monday	03-04-2023	Monosex culture system	P1	-



<b>UNIT-II TYPES OF FISH PONDS</b>	11	Tuesday	04-04-2023	Classification of ponds based upon water resources	P1	-
	12	Thursday	06-04-2023	Spring, Rain water,	P1	-
	13	Monday	10-04-2023	Flood water, Well water	P1	-
	14	Tuesday	11-04-2023	Water course ponds	P1	-
	15	Wednesday	12-04-2023	.Classification of ponds based upon functions	P1	-
	16	Thursday	13-4-2023	Hatchery, Nursery,	P1	-
	17	Monday	17-4-2023	Rearing, Production	P4	-
	18	Tuesday	18-4-2023	Stocking	P1	-
	19	Wednesday	19-4-2023	Quarantine ponds.	P1	-
	20	Thursday	20-4-2023	Criteria for the selection of species for culture.	P1	-
<b>UNIT-III POND PREPARATION</b>	21	Friday	21-4-2023	Important factors in construction of ideal fish pond	P1	-
	22	Monday	24-4-2023	site selection, topography	P1	-
	23	Tuesday	25-4-2023	nature of soil, water resources	P1	-
	24	Wednesday	26-4-2023	quantity and quality of water,	P1	-
	25	Thursday	27-4-2023	sources of pollution.	P1	-
	26	Friday	28-4-2023	Design and construction of pond	P1	-
	27	Saturday	29-4-2023	layout of farm, size of farm,	P1	-
	28	Monday	01-05-2023	shape and depth of pond	P1	
	29	Tuesday	02-05-2023	dike design, pond bottom preparation	P1	
	30	Wednesday	03-05-2023	inlet, outlet, aerators and method of construction	P1	

<b>UNIT-IV POND MANAGEMENT</b>	31	Thursday	04-05-2023	Liming – properties of liming material, lime requirement and application to ponds,	P1	-
	32	Friday	05-05-2023	effect of liming on pond ecosystem	P1	-
	33	Thursday	01-06-2023	Need of fertilizers and manures in culture ponds, role of nutrients,	P1	-
	34	Friday	02-06-2023	Need of fertilizers and manures in culture ponds, role of nutrients,	P1	-
	35	Monday	05-06-2023	precautions in their application	P5	-
	36	Tuesday	06-06-2023	Physics – Chemical conditions of soil	P1	-
	37	Wednesday	07-06-2023	water optimum culture	P1	-
	38	Thursday	08-06-2023	Temperature, depth	P1	-
	39	Friday	09-06-2023	turbidity light water currents, pH	P1	-
	40	Monday	12-06-2023	Dissolved oxygen, Co <sub>2</sub> ,	P1	-
	41	Tuesday	13-6-2023	Eradication of predator, and weed contro	P1	-
	42	Wednesday	14-6-2023	advantages and disadvantages of weed	P1	-
	43	Thursday	15-6-2023	types of weeds in culture pond	P1	-
	44	Friday	16-6-2023	weed fish, toxins	P1	-
	45	Monday	19-6-2023	toxins used for weed control and control of predators	P8	-

<b>UNIT-V HATCHERY</b>	46	Tuesday	20-6-2023	Hatchery	P1	-
	47	Wednesday	21-6-2023	Design and construction of hatchery	P1	-
	48	Thursday	22-6-2023	Design and construction of hatchery	P1	-
	49	Friday	23-6-2023	water quality	P1	-
	50	Monday	26-6-2023	monitoring	P1	-
	51	Tuesday	27-6-2023	management	P1	-
	52	Wednesday	28-6-2023	Selection of brood stock	P1	-
	53	Friday	30-6-2023	Selection of brood stock	P1	-
	54	Monday	03-07-2023	brood stock management	P1	-
	55	Tuesday	04-07-2023	brood stock management	P7	-
	56	Wednesday	05-07-2023	Different types of hatcheries.	P1	-
	57	Thursday	06-07-2023	Different types of hatcheries.	P1	-
	58	Friday	07-07-2023	Scope and development of hatcheries	P1	-
	59	Monday	10-07-2023	Water quality ,monitoring , and management	P1	-
60	Tuesday	11-07-2023	Over all revision of the unit	P1	-	

*P. Jyothi.*

Signature of the Lecturer

*Dr. Swaleh*

Signature of the HOD

*Principals*  
Signature of the Principal

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