

ANNUAL CURRICULAR PLAN

DEPARTMENT: ZOOLOGY

CLASS: I BZC SEMESTER: I

YEAR: 2022-2023 PAPER: I

NAME OF THE LECTURER: B.R.K.KISHORE SUB: BIOLOGY OF NON CHORDATES

Month	Week	Hours available	SYLLABUS / TOPIC	Additional Input/value Addition	Curricular Activity				Co-Curricular Activity			
					Activity	Hours Allotted	Whether Conducted	If not Alternate Date	Activity	Hours Allotted	Whether Conducted	If not Alternate Date
NOV 2022	1	6	<u>UNIT-I</u> Principles of taxonomy-Bionomial nomenclature-rules of nomenclature whittakar classification-classification of animal kingdom	Biography of Linnaeus	LECTURE 2hr LAB 2hr PPT 1hr	5			Preparation of phylogenic tree of life ,collection of image of whittakar	1		
	2	6	Phylum protozoa-General charecters-classification upto classes with suitable examples-locomotion,nutrition Elphidium type study		LECTURE 2hr LAB 2hr Group discussion 1hr	5			ASSIGNMENT	1		
	3	6	Life cycle of elphidium-alternation of generations-importance of alternation of generation	Evolution of dimorphism	LECTURE 2hr LAB 2hr LMS 1hr	5			SEMINAR	1		
	4	6	<u>UNIT-II</u> Phylum porifera-general characters and classification-skeleton in sponges with suitable examples		LECTURE 2hr LAB 2hr PPT 1hr	5			Collection of images of sponges and display in the class room	1		

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DEC 2022	1	6	Canal system in sponges coelenterate general characters and classification upto classes with suitable examples	Choanocytes in sponges role of choanocytes in canal system	LECTURE 2hr LAB 2hr PPT 1hr	5			Preparation of chart/model of phylogenetic tree of life	1		
	2	6	Metamerism in obelia –polymorphosis-definition of polymorphism-evolution of polymorphism		LECTURE 2hr LAB 2hr PPT 1hr	5			SEMINAR	1		
	3	6	Corals and coral reefs, ctenophore evolutionary significance	Comb jellies	LECTURE 2hr LAB 2hr PPT 1hr	5			Observation of corals and coral reefs	1		
	4	6	<u>UNIT-III</u> Platyhelminthes general characters and classification life cycle and pathogenicity of F.hepatica parasitic adaptations		LECTURE 2hr LAB 2hr Poster presentation 1hr	5			Preparation of charts on life cycle of F.hepatica	1		

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JAN 2023	1	6	Platyhelmenthes –life cycle and classification upto classes with suitable exams		LECTURE 2hr LAB 2hr PPT 1hr	5			STUDY PROJECT	1		
	2	6	<u>UNIT-IV</u> Annelida general characters and classification upto classes with suitable examples evolution of coelom vermiculture scope and significance	Economic imp of vermin culture	LECTURE 2hr LAB 2hr Brain storming 1hr	5			Field visit to a local vermicompost unit	1		
	3	6	Arthropoda general characters and classification, vision and respiration in arthropoda	Edible oysters	LECTURE 2hr LAB 2hr PPT 1hr	5			ASSIGNMENT	1		
	4	6	Metamorphosis in insects, peripatus social life in bees and termites		LECTURE 2hr LAB 2hr Quiz 1hr	5			Thermocoal model of peripatusa	1		

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FEB 2023	1	6	<u>UNIT-V</u> General characters and classification upto classes with suitable examples, pearl formation ,sense organs	Culture of artificial pearls	LECTURE 2hr LAB 2hr PPT 1hr	5			ASSIGNMENT	1		
	2	6	General characters of echinodermata – classification upto classes with suitable examples		LECTURE 2hr LAB 2hr Quiz 1hr	5			SEMINAR	1		
	3	6	Hemichordate –structure and affinities	Hemichordates in Rameswaram coast	LECTURE 2hr LAB 2hr LMS 1hr	5			Observation of hemi chordates in sea shores	1		
	4	6	Balanoglossus –structure and affinities Revision of syllabus		LECTURE 2hr LAB 2hr PPT 1hr	5			ASSIGNMENT	1		

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CLASS: II BZC SEMESTER: III

YEAR: 2022-2023 PAPER: III

NAME OF THE LECTURER: B.R.K.KISHORE SUB: Cell Bio, Genetics, Mol Bio and Evolution

Month	Week	Hours available	SYLLABUS / TOPIC	Additional Input/value Addition	Curricular Activity				Co-Curricular Activity			
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NOV 2022	1	6	<u>UNIT-I</u> Definition, History, Prokaryotic, Eukaryotic cells, Virus, Viroids, Mycoplasma, electroni	Zika virus and corona virus	LECTURE 2hr LAB 2hr PPT 1hr	5			Make a model of animal cell	1		
	2	6	Structure of golgi complex, endoplasmic reticulum and lysosomes, structure and functions of Ribosomes, Mitochondria and Nucleus		LECTURE 2hr LAB 2hr PPT 1hr	5			SEMINAR	1		
	3	6	<u>UNIT-II</u> Genetics- mendels work on transmission of traits, gene interactions, incomplete dominance	Legacy of mendels work	LECTURE 2hr LAB 2hr Quiz 1hr	5			ASSIGNMENT	1		
	4	6	Polygenes, general characters and examples multiple alleles blood groups		LECTURE 2hr LAB 2hr LMS 1hr	5			ASSIGNMENT	1		

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DEC 2022	1	6	Sex determination – genic balance theory –harmonal, environmental and haplo diploid type of sex		LECTURE 2hr LAB 2hr PPT 1hr	5			ASSIGNMENT	1		
	2	6	Sex linked inheritance, mutation and mutagens, chorosomal disorders- autosomal and allosomal	Cancers due to mutations	LECTURE 2hr LAB 2hr PPT 1hr	5			SEMINAR	1		
	3	6	<u>UNIT-III</u> Human genetics- karyotyping-pedigree analysis	Importance of pedigree analysis in human disease diagnosis	LECTURE 2hr LAB 2hr LMS 1hr	5			ASSIGNMENT	1		
	4	6	Basics on genomics and proteonomics central dogma of molecular biology basic concepts of DNA		LECTURE 2hr LAB 2hr Group discussion 1hr	5			Chart on chromosomal disorders	1		

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JAN 2023	1	6	<u>UNIT-IV</u> Over view of semi conservative method, semi discontinuous mode origin and replication, transcription in prokaryotes	Errors in DNA replication	LECTURE 2hr LAB 2hr PPT 1hr	5			SEMINAR	1		
	2	6	Transcription of prokaryotes, transcription and translation		LECTURE 2hr LAB 2hr Poster presentation 1hr	5			ASSIGNMENT	1		
	3	6	Gene expression in prokaryotes (lac operon), gene expression in Eukaryotes	Masking of gene expression	LECTURE 2hr LAB 2hr PPT 1hr	5			Model of lac operon	1		
	4	6	<u>UNIT-V</u> Origin of life, theories of evolution, lamarkism, germplasm theory, mutation theory		LECTURE 2hr LAB 2hr LMS 1hr	5			ASSIGNMENT	1		

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FEB 2023	1	6	Neo Darwinism, modern synthetic theory, hardy Weinberg law, forces of evolution, mechanism of isolation, genetic drift	Neo Darwinists	LECTURE 2hr LAB 2hr PPT 1hr	5				1		
	2	6	RIVISION			6						
	3	6	RIVISION			6						
	4	6	RIVISION			6						

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DEPARTMENT: ZOOLOGY

CLASS: III BZC

SEMESTER: V

YEAR: 2022-2023 PAPER: VI A

NAME OF THE LECTURER: B.R.K.KISHORE SUB: SUSTAINABLE AQUA CULTURE MANAGEMENT

Month	Week	Hours available	SYLLABUS / TOPIC	Additional Input/value Addition	Curricular Activity				Co-Curricular Activity			
					Activity	Hours Allotted	Whether Conducted	If not Alternate Date	Activity	Hours Allotted	Whether Conducted	If not Alternate Date
NOV 2022	1	6	INTERNSHIP									
	2	6	INTERNSHIP									
	3	6	<u>UNIT-I</u> Present status of aqua culture Global and national scenario, major culturable species for aqua culture, fresh water , brakish water and marine	Exotic fish culture in india	LECTURE 2hr LAB 2hr PPT 1hr	5			Preparation of chart of culturable fin fishes	1		
	4	6	Traditional,extensive , modifiedextensive,semi intensive culture of fish and shrimp. Design and construction of shrimp forms		LECTURE 2hr LAB 2hr LMS 1hr	5			SEMINAR	1		

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DEPARTMENT: ZOOLOGY

CLASS: III BZC

SEMESTER: V

YEAR: 2022-2023 PAPER: VIA

NAME OF THE LECTURER: B.R.K.KISHORE SUB: SUSTAINABLE AQUACULTURE MANAGEMENT

Month	Week	Hours available	SYLLABUS / TOPIC	Additional Input/value Addition	Curricular Activity				Co-Curricular Activity			
					Activity	Hours Allotted	Whether Conducted	If not Alternate Date	Activity	Hours Allotted	Whether Conducted	If not Alternate Date
DEC 2022	1	6	<u>UNIT-II</u> Functional classification of ponds, head pond, hatchery, nursery stocking pond, rearing pond production and stocking pond. Need of fertilizers and manure		LECTURE 2hr LAB 2hr Group discussion 1hr	5			ASSIGNMENT	1		
	2	6	Need of fertilizers and manure in culture ponds. Physio-chemical conditions of soil and water optimum for fish culture		LECTURE 2hr LAB 2hr PPT 1hr	5			ASSIGNMENT	1		
	3	6	<u>UNIT-III</u> Induced breeding in fishes, light, water pH, BOD, CO ₂ and nutrients. Culture of Indian major carps	Induced breeding	LECTURE 2hr LAB 2hr LMS 1hr	5			Observation of any activity related to aquaculture	1		
	4	6	Prestocking management, ploughing and predators	Predatory fishes	LECTURE 2hr LAB 2hr PPT 1hr	5			ASSIGNMENT	1		

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CLASS:III BZC

SEMESTER: V

YEAR: 2022-2023 PAPER: VIA

NAME OF THE LECTURER: B.R.K.KISHORE SUB: SUSTAINABLE AQUACULTURE MANAGEMENT

Month	Week	Hours available	SYLLABUS / TOPIC	Additional Input/value Addition	Curricular Activity				Co-Curricular Activity			
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JAN 2023	1	6	Weeds and algal blooms and their control,liming and their fertilization		LECTURE 2hr LAB 2hr PPT 1hr	5			Observation of algal blooms in the local fish ponds	1		
	2	6	Culture of Indian major carps, catla,rohu and mrigal.post stocking mechanism	Invasive alien species	LECTURE 2hr LAB 2hr Quiz 1hr	5			SEMINAR	1		
	3	6	<u>UNIT-IV</u> Commercial importance of shrimps and prawns. Tiger prawn, biology and seed production		LECTURE 2hr LAB 2hr Group discussion 1hr	5			ASSIGNMENT	1		
	4	6	Culture of L.vennamei. Hatchery technology and culture practices. Mixed culture of fish and prawns	Economic importance of L.vennamei	LECTURE 2hr LAB 2hr PPT 1hr	5			ASSIGNMENT	1		

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SEMESTER: V

YEAR: 2022-2023 PAPER: VI A

NAME OF THE LECTURER: B.R.K.KISHORE SUB: SUSTAINABLE AQUACULTURE MANAGEMENT

Month	Week	Hours available	SYLLABUS / TOPIC	Additional Input/value Addition	Curricular Activity				Co-Curricular Activity			
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FEB 2023	1	6	<u>UNIT-V</u> Viral diseases of fin fish and shell fish	Specific pathogen free seed	LECTURE 2hr LAB 2hr LMS 1hr	5			Observation of viral diseases in the local fish ponds	1		
	2	6	Bacterial diseases of fin and shell fish . prophylaxis in aqua culture		LECTURE 2hr LAB 2hr Quiz 1hr	5				1		
	3	6	RIVISION									
	4	6	RIVISION									

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SEMESTER: V

YEAR: 2022-2023 PAPER: VII A

NAME OF THE LECTURER: B.R.K.KISHORE SUB: POST HARVEST TECHNOLOGY

Month	Week	Hours available	SYLLABUS / TOPIC	Additional Input/value Addition	Curricular Activity				Co-Curricular Activity			
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NOV 2022	1	6	INTERNSHIP									
	2	6	INTERNSHIP									
	3	6	<u>UNIT-I</u> Handling of fresh fish ,storage and transport of fresh fish, post mortem changes,spoilage in marine fish and fresh water fish	Spoilage of fish due to lipid oxidation	LECTURE 2hr LAB 2hr PPT 1hr	5			ASSIGNMENT	1		
	4	6	Principles of preservation, cleaning lowering of temperature , rising of temperature, denaturation		LECTURE 2hr LAB 2hr Quiz 1hr	5			Visit the websites of processing companies and record the details of the unit	1		

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SEMESTER: V

YEAR: 2022-2023 PAPER: VII A

NAME OF THE LECTURER: B.R.K.KISHORE SUB : POST HARVEST TECHNOLOGY

Month	Week	Hours available	SYLLABUS / TOPIC	Additional Input/valu e Addition	Curricular Activity				Co-Curricular Activity			
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DEC 2022	1	6	Use of salt, use of fresh preservatives, exposure to low radiation of gamma rays		LECTURE 2hr LAB 2hr PPT 1hr	5			ASSIGNMENT	1		
	2	6	<u>UNIT-II</u> Traditional methods of sundrying, salt curing, pickling and smoking	Spoilage of dried fish	LECTURE 2hr LAB 2hr LMS 1hr	5			Interaction with local fisherman to know about traditional methods of preservation	1		
	3	6	Advanced methods of chilling or icing, refrigerated sea water, freezing,canning,irradiation,accelerated freeze drying	Smoking of dried fish	LECTURE 2hr LAB 2hr Quiz 1hr	5			SEMINAR	1		
	4	6	<u>UNIT-III</u> Processing and preservation of fish and fish by products		LECTURE 2hr LAB 2hr PPT 1hr	5			Poster presentation on fish by products	1		

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JAN 2023	1	6	Fish products, fish meal,fish oil,fish liquid, fish concentrate, fish powder,fish cake, fish salad,fish powder, pet food		LECTURE 2hr LAB 2hr Quiz 1hr	5			ASSIGNMENT	1		
	2	6	Fish manure, fish by products, fish glue, isinglass,chitosan,pearl essence,shark fins,fish leather,fish maws	Cod liver oil	LECTURE 2hr LAB 2hr PPT 1hr	5			Observing the fish by products	1		
	3	6	<u>UNIT-IV</u> Sanitation and quality control sanitation in processing plants ,environmental hygiene		LECTURE 2hr LAB 2hr Quiz 1hr	5			ASSIGNMENT	1		
	4	6	Personal hygiene in processing plants, quality control of fish and fish products pre processing control		LECTURE 2hr LAB 2hr LMS 1hr	5			ASSIGNMENT	1		

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FEB 2023	1	6	<u>UNIT-V</u> Quality control during processing in plants. Quality assurance and system. Good manufacturing practices	Quality assurance system in fish ponds	LECTURE 2hr LAB 2hr Quiz 1hr	5			SEMINAR	1		
	2	6	Good laboratory practices, standard operational procedures, concept of hazard analysis and critical control points		LECTURE 2hr LAB 2hr LMS 1hr	5			Visiting the websites to know about standard operational procedures	1		
	3	6	National and international standards ISO 9000 2000 and quality assurance system	Other standard quality certificates in quality assurance	LECTURE 2hr LAB 2hr PPT 1hr				To discuss about ISO 9000-2000 certificate			
	4	6	RIVISION		LECTURE 2hr LAB 2hr Group discussion 1hr							

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CLASS: II BZC

SEMESTER: III

YEAR: 2022-2023 PAPER: III

NAME OF THE LECTURER: B.R.K.KISHORE SUB: SKILL DEVELOPMENT COURSE POULTRY FARMING

Month	Week	Hours available	SYLLABUS / TOPIC	Additional Input/value Addition	Curricular Activity				Co-Curricular Activity			
					Activity	HOURS ALLOTTED	Whether Conducted	If not Alternate Date	Activity	Hours Allotted	Whether Conducted	If not Alternate Date
NOV 2022	1	2	<u>UNIT-I</u> General introduction to poultry farming-definition of poultry,past and present scenario of poultry industry in india	Poultry farming before independence	Group discussion	1			Collection of statistical data wrt poultry industry before independence	1		
	2	2	Past and present scenario of poultry industry in india- principles of poultry housing	Global scenario of poultry	quiz	1			Collection of statistical data wrt present global scenario	1		
	3	2	Poultry houses –systems of poultry farming-management chicks	Back yard poultry farming	project	2			-	0		
	4	2	Growers and layers, Management of broilers – preparation of project report for banking insurance wrt poultry	Management in hatcheries	PPT	1			Collection of information about loans available to poultry farmers	1		

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NAME OF THE LECTURER: B.R.K.KISHORE SUB: SKILL DEVELOPMENT COURSE- POULTRY FARMING

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DEC 2022	1	2	<u>UNIT-II</u> Poultry feed management – Principles of feeding, Nutrient requirements for different stages of layers and broilers. Feed formulation and Methods of feeding.	Antioxidants in poultry feed	LMS	2	yes		-	0	yes	
	2	2	Feed formulation and Methods of feeding. Poultry diseases – viral, bacterial, symptoms, control and management; Vaccination programme	Feed formulation in layer birds	Poster presentation	1	yes		Visit to a local poultry house to know about viral diseases	1	yes	
	3	2	viral, bacterial, symptoms, control and management; Vaccination programme Poultry diseases – Fungal and parasitic (two each); symptoms, control and management; Vaccination programme	Debeaking in layer birds	quiz	2	yes			0	yes	
	4	2	Vaccination programme, Types of vaccines and vaccination schedule	Cannibalism in poultry houses	Student seminar	1	yes		Collection of images of hatching devices	1	yes	

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JAN 2023	1	2	Brooding and rearing. Sexing of chicksFarm and Water Hygiene, Recycling of poultry waste	Water quality management in poultry houses	quiz	1			Collection of water samples from poultry houses to examine its quality	1`		
	2	2	Poultry feed management – Principles of feeding, Nutrient requirements for different stages of layers and broilers.	Starter mash and finisher mash	LMS	1			Visit to a local feed manufacturing unit	1		
	3	2	<u>UNIT-III</u> Selection, care and handling of hatchingeegs. Egg testing.Methods of hatching.	Natural brooding	PPT	2				0		
	4	2	Brooding and rearing. Sexing of chicksFarm and Water Hygiene, Recycling of poultry waste	Deep litter system	PPT	2				0		

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FEB 2023	1	2	Vaccination programme Nutrient requirements for different stages of layers and broil	Vaccination for new castle disease	Guest lecture	2				0		
	2	2	RIVISION			2				0		
	3	2	RIVISION			2				0		
	4	2	RIVISION			2				0		

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