

Durgapur Women's College

(Affiliated to KaziNazrul University)

Mahatma Gandhi Road

Durgapur-713209

Lesson Plan (Academic Year: 2024)

Department: ZOOLOGY

Semester: 1ST(Major/Minor) , 3RD(Major/Minor), 5TH (H/P)

Credit (No. of Hours per Week): 5*

Total Teaching Days: 90*(As per KNU Academic Calendar)

Total Teaching Weeks: 12*

R.G.: DR. RAMANSU GOSWAMI; S.M.: DR. SAUBHIK MITRA; S.C.: MS. SHIULI CHAKRABORTY

SEMESTER	Course Code	Unit No.	Topic/Subtopic	Name of the Teacher	Method and Means of Teaching	Suggested Books /Journals/E-Content	No. of Hours Allotted to the Topic/ Subtopic in the entire Teaching Phase of 90 days in a Semester*
SEM-I ZOOLOGY MAJOR	BSCZOOMJ101 (Diversity of Non-chordates)	I	Principles of Animal Classification	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL	Sinha, K. S., Adhikari, S., Ganguly, B. B. & Bharati Goswami, B. D. (2001). Biology of Animals. Vol. I. New Central Book Agency (p) Ltd. Ruppert, E.E., Fox, R.S., Barnes, R. D. (2003). Invertebrate Zoology: A Functional Evolutionary Approach. VII Edition, Cengage Learning, India	15
		II	Multicellularity and Origin of Metazoa	S.M.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		12
		III	Diversity in Protists, Acoelomate and Pseudocoelomate Metazoa	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
		IV	Diversity in and Coelomate Non chordates and hemichordates	S.C.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		18
	BSCZOOSE101(P ublic Health and Hygiene)	I	Maintenance of personal and community hygiene	S.M.	Lecture Chalk and Board/ Tutorial with ICT Tools	Muthu, V.K. (2014) A Short Book of Public Health. Wong, K.V. (2017) Nutrition, Health and Disease.	15
		II	Nutrient deficiency diseases	S.M.	Lecture Chalk and Board/ Tutorial with ICT Tools		15

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		III	Communicable and contagious diseases	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools		15
		IV	Non-communicable diseases and cure	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools		15
SEM-I ZOOLOGY MINOR	BSCZOOMN101 (Diversity of Non-chordates)	I	Principles of Animal Classification	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL	Sinha, K. S., Adhikari, S., Ganguly, B. B. & Bharati Goswami, B. D. (2001). Biology of Animals. Vol. I. New Central Book Agency (p) Ltd. Ruppert, E.E., Fox, R.S., Barnes, R. D. (2003). Invertebrate Zoology: A Functional Evolutionary Approach. VII Edition, Cengage Learning, India	15
		II	Multicellularity and Origin of Metazoa	S.M.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		12
		III	Diversity in Protists, Acoelomate and Pseudocoelomate Metazoa	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
		IV	Diversity in and Coelomate Non chordates and hemichordates	S.C.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		18
SEM-III ZOOLOGY MAJOR	BSCZOOMJ301 (Animal Physiology & Comparative Anatomy)	I	Teguments, skeletal and muscle system	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL	Jordan, E. L. and Verma, P. S. (2013) Chordate Zoology (14th edition). S. Chand & Company Ltd. New Delhi. Guyton, A.C. et al. (2008) Textbook of Medical Physiology (12th Ed) W.B. Saunders Co.	15
		II	Digestive, Locomotory, Respiratory systems	S.C.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
		III	Diversity of Circulatory and Excretory systems	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
		IV	Diversity of Nervous, Endocrine and Reproductive systems	S.M.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15

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	BSCZOOMJ302 (Applied Zoology of Invertebrates)	I	Sericulture	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL	Shukla, G.S. and Upadhyaya, V.B. (1999-2000). Economic Zoology (Rastogi Publishers).	15
		II	Apiculture	S.C.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
		III	Lac culture, Vermiculture	S.C.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
		IV	Pest and pest management	S.M.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
SEM-III ZOOLOGY MINOR	BSCZOOMN301 (Animals of Economic Importance)	I	Aquaculture	S.M.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL	Shukla, G.S. and Upadhyaya, V.B. (1999-2000). Economic Zoology (Rastogi Publishers). Banerjee, G.C.; (2019) A Textbook Of Animal Husbandry, 8Ed, Oxford & IBH publishing	15
		II	Apiculture & Sericulture	S.C.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
		III	Lac culture, Vermiculture and pest biology	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
		IV	Livestock management and Maintenance of breeds	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
SEM-V ZOOLOGY HONOURS	BSCHZOOC501 (Biotechniques)	ALL	Biotechniques (ALL UNITS)	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL	Wilson, K. and Walker, J. (2010) Experimental Biochemistry, Cambridge. Kumar, P.; (2016) Fundamentals and Techniques of Biophysics and Molecular Biology, 1st Ed, Pathfinder Publication	60
	BSCHZOOC502 (Microbiology, Parasitology & Immunology)	ALL	Microbiology, Parasitology & Immunology (ALL UNITS)	S.M.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL	Baveja C.P.; (2018) A textbook of Microbiology, 6th Ed, Arya Publishing Company Chatterjee, K.D (2015) Parasitology (13th edition). CBS Publishers	60

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						Roitt, I.; Brostoff, J. and Male, D. (2012) Immunology (8th edition).Elsevier	
	BSCHZOODSE502 (Livestock Management and Animal Husbandry)	I	Animal products and breeding systems	S.M.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL	Handbook of Animal Husbandry, (2008) ICAR Publication, New Delhi. Prasad, J.; (2016) Animal Husbandry and Dairy Science, Kalyani Publishers.	15
		II	Animal nutrition	S.C.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
		III	Maintenance of breeds	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
		IV	Marketing and related issues	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
BSCHZOODSE503 (Endocrinology)	ALL	Endocrinology (ALL UNITS)	S.C.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL	Turner, C. D. (1971) General Endocrinology, Pub- Saunders Toppan.	60	
SEM-V ZOOLOGY PROGRAM	BSCPZOODSE502 (Livestock Management and Animal Husbandry)	I	Animal products and breeding systems	S.M.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL	Handbook of Animal Husbandry, (2008) ICAR Publication, New Delhi. Prasad, J.; (2016) Animal Husbandry and Dairy Science, Kalyani Publishers.	15
		II	Animal nutrition	S.C.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
		III	Maintenance of breeds	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15
		IV	Marketing and related issues	R.G.	Lecture Chalk and Board/ Tutorial with ICT Tools/ PRACTICAL		15

***Guideline to calculate** (kindly omit this section afterwards):

Suppose the Credit (No. of Hours per Week)of a Course is '5' then the 'Total No. of Hours Allotted to the Course' has to be 5 x 12 (as 90 Days is approximately 12 weeks) = 60. Consequently, 'No. of Hours' allotted to each 'Unit/Topic/Subtopic' of that particular Course has to be calculated in such a way that the total becomes 60.