Pre-requisites	Basic knowledge on birds and their identification at taxonomic level and	
for the Course:	the systematics	
	Parallel enrollment for ZOO-609 Ornithology (Theory)	
Course	1. To develop on-field bird identification skills	
Objectives:	2. To provide knowledge on statistical analysis of data using software	
Content:	Identification of birds on the field, based on colour, size,	
	flight, and call.	15 x 2 hours
	Comparative study of resident and migratory birds with	
	respect to habitats (Plateau, Forest and Wetland).	
	Analysis of ornithological data using statistical software.	
	Study of nesting behaviour of Baya Weaver.	
	Acoustic analysis of bird calls and songs.	
	Structural and functional analysis of avian feathers.	
	Anatomy of bird (poultry chicken): flight muscles, digestive	
	system, respiratory system, urinogenital system, skeletal	
	system, and brain.	
Pedagogy:	Use of conventional, online and ICT Methods.	
	Field visit/project/self-study/Lecture/Tutorials/Assignments	
References/	1. S. Ali, The Book of Indian Birds. India, Bombay Natural Hist	ory Society
Readings:	and Oxford University Press, 2016.	
	2. C. J. Bibby, N.D. Burgess, A. Hill, Bird Census Techniques. UK	, Academic
	Press, 1992.	
	3. M. S. Brainard, and A. J. Doupe, Auditory feedback in le	arning and
	maintenance of vocal behavior. (1, 31-40) Nature Rev. Neuro	osci, 2000
	4. J. Faborg and S. B. Chaplin, Ornithology: an Ecological Appr	roach. New
	Jersey, Prentice Hall Inc. 1988.	
	5. F. B. Gill, Ornithology. (3rd ed.) New York, NY. W. H. Fre	eeman and
	Company, 2007	
	6. P. Goodfellow, Birds as Builders. New York, Arco Publishing C	Co., 1977
	7. A. J. Lovette and J. W. Fitzpatrick, Handbook of Bird biolog	gy (3rd Ed)
	Wiley publishers. 2016	
	8. C Inskipp, R Grimmett and T Inskipp, Birds of the Indian Sub	bcontinent,
	Princeton University Press2011.	

	9. D.B. Meyer, The Avian Eye and its Adaptations. In: Crescitelli F. (eds)	
	The Visual System in Vertebrates. Handbook of Sensory Physiology,	
	(vol 7 / 5). Berlin, Heidelberg Springer,. 1977	
	10. P. D. Sturkie, Sturkie's Avian Physiology. 5th Edition. San Diego,	
	Academic Press, 1998.	
Course	The learner will	
Outcomes:	1. Identify the birds on the field and be familiar with the methods for bird	
	studies.	
	2. Analyze various aspects of avian biology such as evolution, taxonomy,	
	anatomy, and physiology.	
	3. Review ecology of birds with respect to their feeding, breeding,	
	roosting and migration.	
	4. Comment on applied ornithology	
	5. Reflect on recent research in the field.	