Syllabus For Bird Watching Guide

Course Name	Bird Watching Guide
Sector	Tourism and Hospitality
Course Code	THC/2024/BIWG/435
Occupation	Bird Watching Guide, Bird-photographer, Nature/Bird blog writer
Job Description	Different occupation holds different responsibilities but mostly they
	have to identify birds with their english common names and
	preferably they should be able to distinguish between close species
	and have information about the behaviour, food habit, breeding,
	nesting etc.
Course Duration	Total Duration 120 Hrs (T- 40 hrs, P- 80 hrs)
Trainees' Entry	10 th Grade Pass (preferably 12 th Grade pass with Biology as a
Qualification	subject)
Trainers Qualification	10+2 with Biology as a subject and 4-years relevant experience
	OR
	Bachelor's degree in Zoology/ Wildlife biology/ Ecology/
	Ornithology/ Conservation biology with 1-year relevant experience.

Structure of Course:

Module No.	Module name	Outcome	Compulsory/ Optional	Theory (Hrs)	Practical (Hrs)	Total (Hrs)
	Introduction to	Explain history of	Compulsory			
1.	bird watching	bird watching with		10 hrs	_	10
1.		bird diversity across		10 1113	_	10
		Indian subcontinent.				
	Bird biology and	Describe anatomy,	Compulsory			
	behaviour	physiology,				
2.		migration, diets and		15 hrs	-	15
		nesting behavior in				
		birds.				
	Essential	Demonstrate tools	Compulsory			
3.	equipment and	and equipment for		5 hrs	10 hrs	15
3.	birding ethics	bird watching and		Jins	10 1115	13
		birding ethics.				
	Bird identification	Demonstrate visual,	Compulsory			
4.	and observation	audio, and behavioral		5 hrs	15 hrs	20
		bird identification		0 333		
		skills.				
	Bird habitats and	Promote community	Compulsory			
5.	conservation	engagement for bird		5 hrs	20 hrs	25
		conservation.				
	Advanced birding	Apply advanced bird	Compulsory			
6.	techniques	identification skills		-	15 hrs	15
		using birding apps.				

Module No.	Module name	Outcome	Compulsory/ Optional	Theory (Hrs)	Practical (Hrs)	Total (Hrs)
7.	Field session	Show independent birding skills in the field.	Compulsory	-	20 hrs	20
TOTAL:			40	80	120	

SYLLABUS:

Module Name: 1. Introduction to bird watching

Outcome: Explain history of bird watching with bird diversity across Indian subcontinent.

Theory: Duration: 10 hrs
1.1 History of bird watching.
1.2 Basic concepts of ornithology – Definition, Significance, Taxonomical classification of birds, Difference
between ratitaes and carinatae.
1.3 Indian bird species – common species. Bird diversity in India.
Classroom Aids:
Computer, Projector, Power Point Presentation and software, Participant's Handbook.
Tools, Equipment and Other Requirements
Models and pictures of bird.

Module Name: 2. Bird biology and behaviour

Outcome: Describe anatomy, physiology, migration, diets and nesting behavior in birds.

Theory: Duration: 15 hrs
2.1 Avian anatomy and physiology (feather, beaks, wings, tail).
2.2 Foraging and diet.
2.3 Recognition and study of nesting sites.
2.4 Bird migration - overview.
Classroom Aids:
Computer, Projector, PowerPoint Presentation and software, Participant's Handbook.
Tools, Equipment and Other Requirements
Models and pictures of bird.

Module Name: 3. Essential equipment and birding ethics

Outcome: Demonstrate tools and equipment for bird watching and birding ethics.

Duration : 5 hrs	Duration : 10 hrs			
Theory	Practical			
3.1 Ethics of bird watching	3.1 Demonstration of birding equipment – Binoculars,			
3.2 Prohibited/ discouraged actions – Nest photography,	Spotting scopes, Camera and lenses, Checklist book,			
bird photography in breeding season, playback bird call.	field books, birding apps.			
3.3 Role and responsibilities of a bird watching guide.	3.2 Demonstration of birding attire and other			

3.4 Wildlife Protection Act, 1972, IUCN red list.	equipment – Dress, shoes, caps, call recording devices,		
	GPS device etc.		
Classroom Aids:			
Computer, Projector, PowerPoint Presentation and software, Participant's Handbook.			
Tools, Equipment and Other Requirements			
Binoculars, Spotting scopes, Camera and lenses, GPS device, Checklist book, field books, birding apps, demo dress			
shoes and caps for field visit.			

Module Name: 4. Bird identification and observation

Outcome: Demonstrate visual, audio, and behavioral bird identification skills.

Duration : 5 hrs	Duration : 15 hrs			
Theory	Practical			
4.1 Bird identification – Feather, colour, shape, call, flight	4.1 Practice identification and checklist preparation.			
pattern, bill patterns, digit pattern.	4.2 Prepare field report and checklist.			
4.2 Field report and checklist preparation on bird watching.				
Classroom Aids:				
Computer, Projector, PowerPoint Presentation and software, Participant's Handbook.				
Tools, Equipment and Other Requirements				
Binoculars, Spotting scopes, Camera and lenses, GPS device, Checklist book, field books.				

Module Name: 5. Bird habitats and conservation.

Outcome: Promote community engagement for bird conservation.

Duration : 5 hrs	Duration : 20 hrs		
Theory	Practical		
5.1 Bird habitat types – Tropical, sub alpine and alpine	5.1 Practice identification and checklist preparation.		
forests, Trans Himalayan zone, Grassland, Wetland, Urban	5.2 Identify degraded/ degrading habitats and take		
and village areas.	note of the physical and biological indicators.		
5.2 Habitat degradation and its impact on bird diversity. 5.3 Conduct field surveys and community sur			
Classroom Aids:			
Computer, Projector, PowerPoint Presentation and software, Participant's Handbook.			
Tools, Equipment and Other Requirements			
Binoculars, Spotting scopes, Camera and lenses, GPS device, Checklist book, field books, survey questionnaire.			

Module Name: 6. Advanced birding techniques

Outcome: Apply advanced bird identification skills using birding apps.

audio recorder, Audio/video recording and editing software, birding apps.

Practical: Duration: 15 hrs
6.1 Behavioural identification – Foraging behaviour, perching behaviour, social behaviour.
6.2 Auditory identification – call and song recognition.
6.3 Technological identification – e-bird, Merlin Bird ID, Audubon Birds, Bird ID etc.
Tools, Equipment and Other Requirements
Binoculars, Spotting scopes, Camera and lenses, GPS device, Checklist book, field books Mobile phone, computer,

Module Name: 7. Field session

Outcome: Show independent birding skills in the field.

Practical: Duration: 20 hrs

- 7.1 Practice different birding techniques for identification.
- 7.2 Demonstrate birding experiences with the fellow co-trainees and participate in group discussions.
- 7.3 Present seminar and workshops with the experts of this field.
- 7.4 Prepare final report of checklists.

Tools, Equipment and Other Requirements

Binoculars, Spotting scopes, Camera and lenses, GPS device, Checklist book, field books Mobile phone, computer, audio recorder, Audio/video recording and editing software, birding apps.

List of Tools, Equipment & materials needed for 30 Trainees (Practical)

Sl No	Items Name	Specification	Qty
1	Binocular	Magnification: 10X	30
		Objective Diameter: 40mm to 42mm	
		Prism Type: Porro or roof prism	
		Focus Distance: 6-8ft	
		Optical Quality: Premium optics with multi-coated lenses and	
		phase correction.	
		Waterproof and Fogproof: Should be weather sealed.	
2	Spotting scope	Optical Quality:	01
		1. Objective Lens Size: 60-80mm	
		2. Magnification: 30-40x zooming capable	
		3. Lens Coatings: Multi coated lenses.	
		Ergonomics and Build quality:	
		1. Weight and Size: A lightweight and compact spotting	
		scope.	
		2. Eyepiece Design: A zoom eyepiece or a interchangeable	
		eyepiece system. Additional Features:	
		Waterproof and Fogproof: Should be weather sealed.	
		2. Tripod Compatibility: A scope with a tripod adapter or a	
		built-in tripod mount.	
		3. Digiscoping Adapter: A digiscoping adapter is preferable.	
3	Camera and lenses	Digital SLR or mirrorless camera with good range of lens	02
		compatibility, weather sealed, burst mode and good autofocus	
		capabilities.	
		Telephoto lenses: (Lenses should be compatible with the camera	
		bodies)	
		Focal length: 70-300mm/ 100-400mm/ 500mm/ 400mm or	
		equivalent.	
		Aperture: f/4.5-5.6, f/4 or equivalent.	
		Image Stabilization: with good image stabilization.	
4	GPS device	1. Garmin eTrex 10: A compact and lightweight GPS device with a	02
		2.2" monochrome display.	
		2. Garmin eTrex 30x: A feature-rich GPS device with a 2.2" color	
		display, compass, and altimeter.	
		3. Smartphone GPS	

Sl No	Items Name	Specification	Qty
5	Checklist book	Each trainee should carry a checklist book.	30
6	Field books	Each trainee should carry a bird identification field book.	As required
7	Mobile phone	Smart phone is needed for running the birding apps.	As required
8	Other	Birding app software	
		Tripod for camera and spotting scope.	02
		Sound recorder: High quality recording capabilities (24bit/96kHz	02
		or higher), high quality directional microphone, in-built storage or	03
		SD card compatible.	

Marks Distribution:

Theory 200