

# Bharatiya Jain Sanghatana's Arts, Science and Commerce College



#### Wagholi, Pune – 412207

**ISO 9001 – 2015 Certified** 

Reaccredited by NAAC with B Grade (Score 2.56)

Acedemic Calendar 2022-2023

#### Vision

"Exaploring Youth Capabilities for Social Service"

#### Mission

"Presuasion of studies in Arts, Science & Commerce with vocational training based on the concept of earn —as- you- learn principles and plethora of extracurricular activities to ensure allround growth"

# August 2022

Day	Date	Activity	
Wednesday	10	Har Ghar Tiranga	
Thursday	11	Sending Activity News to News Paper	
Tuesday	23	Exhibition of weapons of Shiva period	
Wednesday	24	Sending Activity to News Paper	
Monday	29	National Sports Day	
Tuesday	30	Sending Activity News to News Paper	

# September 2022

Day	Date	Activity			
Friday	9	Red Cross Society			
		First aid and free drinking Water service			
Saturday	10	Sending Activity News to News Paper			
Tuesday	13	National Baseball Tournament			
Thursday	15	BJS under Pune University			
		Innovation research in college Organization			
		of Project Competition-2022			
Friday	16	World Ozone Day			
Saturday	11	Sending Activity News to News Paper			

## October 2022

Day	Date	Activity	
Sunday	2	Mahatma Gandhi and Lal Bahadur Shastri	
		Jayanti celebrated on 02 October 2022	
Monday	3	Sending Activity News to News Paper	
Thursday	13	Selected in Kabaddi team of Pune district	
Saturday	15	15 October 2022 in college	
		Celebrating Reading Inspiration Day	
Sunday	16	Students of BJS College started Diwali by	
		collecting e-waste and plastic.	
Monday	17	Sending Activity News to News Paper	
Thursday	20	Selected Inter College Mallakhamba Rope	
		Competition	

## November 2022

Day	Date	Activity			
Sunday	6	National Cadets Trekking up Sunrise Hill			
Saturday	12	Industrial tours under Commerce Department			
Monday	14	Establishment of the Club			
		Establishment of the Knowledge Leader			
Tuesday	15	one-day workshop - First Aid Training			
Wednesday	16	Three days Soft Skill Training Program under Soft			
		Skill Development Committee and Placement Cell			
Thursday	17	Sending Activity News to News Paper			
Friday	18	Swayasiddha is a three-day residential workshop			
Saturday	19	Celebrating National Goodwill Foundation Week			
		Organizing healthy cactus competition under the			
		Department of Botany			
Sunday	20	Sending Activity News to News Paper			
Monday	21	MoU between College Chemistry Department and			
		MAGS Company			
Tuesday	22	Gold Medal in Inter College Judo Competition			
Wednesday	23	Sending Activity News to News Paper			
Saturday	2	26 November Constitution Day celebrated			
		Campus Interview			
Sunday	27	One Day Heritage Walk			
		Tree plantation on behalf of NCC Day			
		Sending Activity News to News Paper			
Monday	28	Campus Interview			
Tuesday	29	Gold medal in boxing competition			
Wednesday	30	Sending Activity News to News Paper			

## December 2022

Day	Date	Activity	
Friday	2	Agreement regarding skill development scheme course	
Saturday	3	Sending Activity News to News Paper	
Monday	5	University Level Central Youth Festival	
Sunday	11	Bronze Medal in Half Marathon Competition	
Monday	12	Sending Activity News to News Paper	
Tuesday	13	Quiz Competition Cochin	
Saturday	17	State Level Inter College Elocution Competition in Commemoration of Late PC Nahar	
Sunday	18	Sending Activity News to News Paper	
Monday	19	Participation in disaster management training camp	

## January 2023

Day	Date	Activity	
Monday	2	NSS Camp	
Tuesday	3	Sending Activity News to News Paper	
Friday	6	Gold Medal in Power Lifting Competition	
Monday	9	The college was honored by the Pune Municipal Corporation. Gold Medal in Mini Olympics Gold Medal in Mini Olympics	
Tuesday	10	Sending Activity News to News Paper	
Wednesday	18	Workshop on NEP-2020	
Thursday	19	Sending Activity News to News Paper	
Friday	20	Workshop on Nirbhay Kanya Abhiyan	
		LED Bulb Workshop	
		Workshop on Parliament	

## February 2023

Day	Date	Activity	
Friday	3	Students' research papers published	
Thursday	16	Nirbhay Kanya Abhiyan	
Friday	17	Popular Science Lecture Series	
Saturday	18	Sending Activity News to News Paper	
Sunday	19	Shiv Jayanti Celebrate	
Monday	20	Sending Activity News to News Paper	
Friday	24	National Level Seminar on NEP 2020	
Saturday	25	150 Tree Plantation	
		Sending Activity News to News Paper	
Monday	27	Marathi official language pride day	
Tuesday	28	Celebrating National Science Day	
		Sending Activity News to News Paper	

#### **March 2023**

Day	Date	Activity	
Tuesday	7	Lecture on Scientific Writing	
Wednesday	8	Celebrated International women's Day	
Friday	10	Sending Activity News to News Paper	
Sunday	12	Yashwantrao Chavan Jayanti	
		National Level Trekking Camp	
Saturday	18	Gate Exam Qualified	
Monday	20	Workshop on Intellectual Property Rights	
Wednesday	22	Sending Activity News to News Paper	
Tuesday	28	Sketch Competition	
		Konkan Study Trip	
Wednesday	29	Blood Donation Camp	
		Career Mentorship	
Lecture on C		Lecture on Current trends in Industry	
Thursday	30	State Level Online Quiz	
		Skill based Courses	

## **April 2023**

Day	Date	Activity			
Saturday	1	Lord Mahavir Jayanti celebrations			
Monday	3	Sending Activity News to News Paper			
Friday	7	Campus Interview			
Tuesday	11	Mahatma Phule birth Anniversary Celebrated			
Wednesday	12	Sending Activity News to News Paper			
Thursday	13	13 <sup>th</sup> Dharma Maitri Vichar Vedha Samelan			
Friday	14	Dr. Babasaheb Ambedkar Birth Anniversary Celebrated			
		Kokan study visit			
Saturday	15	Sending Activity News to News Paper			
Tuesday	18	Personality Development and Competitive Examination			
		Zoomania exhibition			
Sunday	23	World Book Day and Intellectual Property Rights day			
Monday	24	Sending Activity News to News Paper			
Tuesday	25	Lecture on Cloud Computing and Cyber Security			

#### **May 2023**

Day	Date	Activity			
Monday	1	Maharashtra Day and International Labour Day			
Tuesday	2	Sending Activity News to News Paper			
Thursday	4	Workshop on "Manufacturing and Business of AC-DC Rechargeable LED Bulbs			
Monday	8	International Thalassemia day and world Red cross day			
Tuesday	9	Sending Activity News to News Paper			
Friday	12	Act Play in English			
Saturday	13	Annual Prize Distribution			
Monday	15	Sending Activity News to News Paper			
Thursday	25	Training Camp in Association with Red Cross Society			
Monday	29	Sending Activity News to News Paper			

#### **Exam Department**

- June 2022 Continous Internal exam.
- July September 2022 SPPU Final exam.
- December 2022- Continous Internal exam.
- December 2022- Practilcal Exam.
- Janewary March 2023- SPPU Final exam.



Arts, Science and Commerce College, Wagholi, Pune - 412207

#### Department of Zoology

#### Teaching Plan for the Academic Year 2022-23

Subject: ZO: 111 Animal Diversity I

Class: FYBSc

Semester: I

The criteria to be followed while preparing the teaching plan are:

- A. 70% Actual Classroom Teaching where different pedagogy can be involved
- B. 10 % Online Teaching (via. Zoom, You tube, and other such platforms)
- C. 10% Teaching with the use of Experiential Learning (visits, tours, games, presentations, etc.)
- D. 10% Seminar/ project work

S. N	Schedule	Торіс	Learning Outcome	Approach(Vis ual / Auditory/ Kinesthetic)	Crite ria Follo wed (A/B/ C/D)	Methodology / pedagogy
2	2 <sup>nd</sup> 3 <sup>rd</sup> & 4 <sup>th</sup> Week of July 22 (5L)  1 <sup>st</sup> week of August 22 (2L)	Principles of Classification: Significance Taxonomy & Systematics Systematics: Concept of Species: Biological & Evolutionary Introduction to Binomial Nomenclature. Introduction to Five kingdom system.  General Features of kingdom Animalia General characters of Kingdom Animalia, Grades of organization Symmetry.	The topics help in understanding the Animal diversity, principles of classification of animals, study the differences and similarities in the various animals, and classify them. To understand our	Visual Auditory Kinesthetic	A, B, C, D	Classroom teaching, PPt, Oral, Group Discussion, Student Seminar, Study Tours and Visits Lecture-cum- demonstration Group activity with the
1.14	2 <sup>nd</sup> 3 <sup>rd</sup> & 4 <sup>th</sup> Week of August 22 (7L)	Kingdom Protista (Phylum: Protozoa) Introduction, Salient features, Classification of Phylum Protozoa up to classes Locomotion in Protozoa: Paramecium caudatum Economic importance	role as a caretaker and promoter of life.			Specimens and slides. Constructive approach: Posters, models making.

Wagholf, Pune-412207.

		Harmful Protozoa,	от на поста на населения в преводе в предоставляет оборать в предоставляет до се оборатоване в се	eritation and internal court has been the artificial court and the standards account to the standards.		The distribution of application of community and a community and a community of the communi
		Useful Protozoa				
4	5th Week	Origin of Metazoa				
	of August	Introduction Origin and	P. P.			
	22 (1L)	importance of Metazoa				
5	1st 2nd & 3rd	Phylum Porifera				THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME
	Week of	Introduction &				
	September	Classification of Phylum				
	22	Porifera up to classes	j I	,		
	(6L)	Canal system in				
		sponges;	The topics help in	Visual	A,	Classroom
		Skeleton in sponges:	understanding the	Auditory	В,	teaching, PPt,
		Regeneration in sponges.	Animal diversity,	Kinesthetic	C,	Oral, Group
		Economic importance of	principles of		D	Discussion,
		Phylum Porifera.	classification of			Student
6	4th & 5th	Phylum: Cnidaria	animals, study the			Seminar, Study
	Week of	Introduction & Salient	differences and			Tours and Visits
	September	features	similarities in the			Lecture-cum-
	22	Classification of Phylum	various animals,	3		demonstration
	(5L)	Cnidaria up to class level	and classify them.			Group activity
	(32)	Polymorphism in	To understand our			with the
		Hydrozoa: and functions	role as a caretaker			Specimens and
		Economic importance	and promoter of			slides.
		with reference to Corals	life.			Constructive
_	et and	and Coral reefs.				approach:
7	1 <sup>st</sup> , 2 <sup>nd</sup>	Phylum				Posters, models
	week of	Platyhelminthes				making.
	October	Introduction & Salient			,	
	22	features	-			
	(4L)	Classification of Phylum				
		Platyhelminthes up to				
	d a	classes.	ei eg			, -
		Parasitic adaptations in	3.		-	
		Platyhelminthes				
		Economic importance of	42			
		Platyhelminthes		5		
8	3 <sup>rd</sup> Week	Revision of whole	- 34		**************************************	
	ofOctober	syllabus and question	1 1 1 2 2			
	22	paper discussion.				

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Head of the Department

Dr. M. V. Deshmulch

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Arts, Science & Commerce College,
Wagholi, Pune-412207.



Arts, Science and Commerce College, Wagholi, Pune - 412207

#### Department of Zoology

#### Teaching Plan for the Academic Year 2022-23

Subject: ZO: 112 Animal Ecology

Class: FYBSc

Semester: I

The criteria to be followed while preparing the teaching plan are:

- A. 70% Actual Classroom Teaching where different pedagogy can be involved
- B. 10 % Online Teaching (via. Zoom, You tube, and other such platforms)
- C. 10% Teaching with the use of Experiential Learning (visits, tours, games, presentations, etc.)
- D. 10% Seminar/ project work

1 2		Bridge Course  Introduction to Ecology Concepts of Ecology	Learning Outcome	Approach(Vis ual / Auditory/ Kinesthetic)	Crite ria Follo wed (A/B/ C/D)	Methodology / pedagogy
3	(2L)  3 <sup>rd</sup> & 4 <sup>th</sup> Week of July 22 1 <sup>st</sup> week of August 22 (8L)  2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> Week of August 22 (1L)	Ecosystem Types of ecosystems: Aquatic and terrestrial ecosystem. Food chair; Food web, Energy flow through the ecosystem, Ecological pyramids, Concept of Eutrophication in lakes and rivers Population Characteristic of populations. Methods of Populations.	The topics helps to in identify and critically evaluate their own beliefs, values and actions in relation to professional and societal standards of ethics and its impact on ecosystem and biosphere due to the dynamics in population.	Visual Auditory Kinesthetic	•	Classroom teaching, PPt, Oral, Group Discussion, Student Seminar, Study Tours and Visits Lecture-cumdemonstration Group activity with the Specimens and slides. Constructive approach: Posters, models making.

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Head of the Department

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Arts, Science and Commerce College, Wagholi, Pune - 412207

#### Department of Zoology

#### Teaching Plan for the Academic Year 2022-23

Subject: ZO: 231 Animal Diversity III Class: SYBSc

The criteria to be followed while preparing the teaching plan are: 70% - Actual Classroom Teaching where different pedagogy can be involved

- 10 % Online Teaching (via. Zoom, Youtube, and other such platforms)
- 10% Teaching with the use of Experiential Learning (visits, tours, games, presentations, etc.) C.
- 10% Seminar/ project work

S. N	Schedule	Topic	Learning Outcome	Approach(Vis ual / Auditory/ Kinesthetic)	Crite ria Follo wed (A/B/ C/D)	Methodology / pedagogy
1	2 <sup>nd</sup> 3 <sup>rd</sup> & 4 <sup>th</sup> Week of July 22 (3L)	Introduction to Phylum Chordata Origin & Ancestry of Chordates. Comparative account of fundamental characters of Chordates with Non Chordates. Salient features of Phylum Chordata. Classification of Phylum Chordata upto classes – Pisces, Amphibia, Reptilia, Aves, Mammalia.	The topics help in understandin g the Animal diversity, principles of classification of animals, study the	Visual Auditory Kinesthetic	A, B, C, D	Classroom teaching, PPt, Oral, Group Discussion, Student Seminar, Study Tours and Visits Lecture-cum- demonstration
3	1 <sup>st</sup> week of August 22 (3L) 2 <sup>nd</sup> 3 <sup>rd</sup> & 4 <sup>th</sup> Week of	Introduction to Group – Protochordata Salient features of Protochordata. Subphylum Hemichordata, urochordata, Cephalochordata Introduction to subphylum – Vertebrata Salient features	differences and similarities in the various animals, and classify them. To understand our role as a			Group activity with the Specimens and slides. Constructive approach: Posters, models making.

Semester: III

				and the second of the second o	T	
		of Vertebrata.	earetaker and			
	August 22	Introduction and General	promoter of			
	(2L)	characters of Agnatha	life.			
		&Gnathostomata				
4	5th Week	Introduction & Salient				
1	of	features of Class Pisces.				
	August	Introductaion,& Salient				
	22 (4L)	features of Class Pisces,				
		Chondrichthyes				
		Osteichthyes. Types of Scales in Fishes.				
		Types of Fins in Fishes.				
5	1st 2nd &	Introduction & Salient				
	3rd Week	features of Class Amphibia		*		r.
-	of	Introduction to order – Apoda,				
Modern Acres of	Septembe	,Urodela, and& Annura.				
and the same	r 22	Parental care in Amphibia.	The topics	Visual	A,	Classroom
-	(3L)		help in	Auditory	В,	teaching, PPt,
6	4th & 5th	Study of Scoliodon	understandin	Kinesthetic	C, D	Oral, Group Discussion,
	Week of	Systematic position,	g the Animal		ן ט	Student
	Septembe r 22	Geographical distribution,	diversity, principles of			Seminar, Study
		Habit, Habitat	classification			Tours and
	(15L)	External characters	of animals,			Visits
		Digestive System, Food and	study the			Lecture-cum- demonstration
		feeding mechanism.	differences			Group activity
		Respiratory System –	and similarities in			with the
		Structure of Holobranch only.	the various			Specimens and
		External & Internal Structure	animals, and		-	slides.
4	1	of heart, Working of heart.	classify them.	-		Constructive
		Nervous System – Brain only.	То			approach: Posters, models
		Male urinogenital system &	understand			making.
		Female reproductive System.	our role as a caretaker and	10		
		Yolk sac placenta.	promoter of			
7	1st, 2nd	Revision and question paper	life.			
	week of	discussion				
	October	No. 1		9		,,
	(3L)					
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Head of the Department

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Arts, Science and Commerce College, Wagholi, Pune - 412207

#### Department of Zoology

## Teaching Plan for the Academic Year 2022-23

Subject: ZO: 232 Applied Zoology I

Class: SYBSe

Semester: III

The criteria to be followed while preparing the teaching plan are:

- A. 70% Actual Classroom Teaching where different pedagogy can be involved
- B. 10 % Online Teaching (via. Zoom, You tube, and other such platforms)
- C. 10% Teaching with the use of Experiential Learning (visits, tours, games, presentations, etc.)
- D. 10% Seminar/ project work

S. N	Schedule	Topic	Learning Outcome	Approach(Vis ual / Auditory/ Kinesthetic)	Crit eria Follo wed (A/B /C/D	Methodology / pedagogy
	2 <sup>nd</sup> Week of July To 3 <sup>rd</sup> August 22 (14L)	1) Sericulture:  1.1 An introduction to Sericulture, classification of varieties of silkworms External Morphology and life cycle of Bombyx mori. Cultivation of mulberry Varieties for cultivation, Harvesting of mulberry Silk worm rearing Important diseases and pests. Preparation of cocoons for marketing. Post-harvest processing of cocoons for marketing. Biotechnological and Biomedical applications of silk.  **TOSCIT** - and **Ilongaw**	The students will understand the biology, varieties of silkworms and the basic techniques of silk production and harvesting of cocoons.	Visual Auditory Kinesthetic	A, B, C, D	Classroom teaching, PPt, Oral, Group Discussion, Student Seminar, Study Tours and Visits Lecture-cum- demonstration Group activity with the Specimens and slides. Constructive approach: Posters, models making.

	A To W So er	th Week f ugust o 3 <sup>rd</sup> 'eek of eptemb 22 16 L)	2) Agricultural Pests and their control: An introduction to Agricultural Pests, types of pests. Major insect pests of agricultural importance a) Jowar stem borer, b) Red cotton bug, c) Brinjal fruit borer, d) Mango stem borer, e) Blister beetle, f) Rice weevil, g) Pulse beetle, h) Tick. Non insect pests: Rats, Crabs, Snails, and Squirrels Pest control practices in brief Plant protection appliances	The students will study types of agricultural pests and Major insect pests of agricultural importance and Pest control practices.	Visual Auditory Kinesthetic	A, B, C, D	Classroom teaching, PPt, Oral, Group Discussion, Student Seminar, Study Tours and Visits Lecture-cum- demonstration Group activity with the Specimens and slides. Constructive approach: Posters, models making.
3		k of ober	Revision and question paper discussion				

Head of the Department

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Bharatiya Jain Sanghatana's Arts, Science & Commerce Collegence & Commerce College
Wagholi, Punc- 412207. Wagholi Punc-412207



Arts, Science and Commerce College, Wagholi, Pune - 412207

#### Department of Zoology

## Teaching Plan for the Academic Year 2022-23

Subject: ZO: 121 Animal Diversity II

Class: FYBSc

Semester: II

The criteria to be followed while preparing the teaching plan are:

A. 70% - Actual Classroom Teaching where different pedagogy can be involved

B. 10 % - Online Teaching (via. Zoom, Youtube, and other such platforms)

C. 10% - Teaching with the use of Experiential Learning (visits, tours, games, presentations, etc.)

D. 10% - Seminar/ project work

S.N	Schedule	Topic	Learning Outcome	Approach(Visual / Auditory/ Kinesthetic)	Criteria Followed (A/B/C/D)	Methodology / pedagogy
2	Week of December 22 (04)  3 <sup>rd</sup> & 4 <sup>th</sup> week of December 22 (6L)	Phylum Aschelminthes Introduction to phylum Aschelminthes Salient features of Phylum Aschelminthes Classification of Phylum Aschelminthes Class Nematoda Economic importance of class Nematoda.  Phylum Annelida Introduction to Phylum Annelida Salient features of Phylum Annelida. Classification of Phylum Annelida Class Polychaeta, Class Oligochaeta, Class Hirudinea Economic importance of Annelida earthworms as friends of farmers and in	The topics help in understanding the Animal diversity, principles of classification of animals, study the differences and similarities in the various animals, and classify them. To understand our role as a caretaker and promoter of life.	Visual Auditory Kinesthetic	A, B, C, D	Classroom teaching, PPt, Oral, Group Discussion, Student Seminar, Study Tours and Visits Lecture-cum- demonstration Group activity with the Specimens and slides. Constructive approach: Posters, models making.

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		their role in Vermicomposting.				
3	Land 3rd & 4th Week of January & 23 (6L)	Kingdom Protista (Phylum: Protozoa) Introduction, Salient features Classification of Phylum Protozoa up to classes Locomotion in Protozoa: Paramecium candatum Economic importance Harmful Protozoa, Useful Protozoa	•			
	5th Week of January 23 & 1th Week of February 23 (06L)	Phylum Arthropoda Introduction & salient features of Phylum Arthropoda Classification of Phylum Arthropoda Class:Crustacea, Class: Chilopoda, Class: Diplopoda: Class Insecta, Class: Arachnida, Mouth parts in insects: Economic importance of Arthropoda Useful Insects: Honey bee, Lac insect, Silkworm, Harmful insects: Female Anopheles mosquito, Red cotton bug, Rice weevil				
5	2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> Week of February 23 (06L)	Phylum Mollusca Introduction & Salient features of Phylum Mollusca Classification of Phylum Mollusca Class Gastropoda, Class Pelecypodae, Class Polyplacophorae Class: Cephalopoda Economic importance of Mollusca.	The topics help in understanding the Animal diversity, principles of classification of animals, study the differences	Visual Auditory Kinesthetic	A, B, C, D	Classroom teaching, PPt, Oral, Group Discussion, Student Seminar, Study Tours and Visits

	The second secon	type or the territorial endouncers are entire actions also assistant	g water and a second of the second of the second		The state of the s
24 & 1 <sup>st</sup> , 2 <sup>sd</sup> 3 <sup>rd</sup> week of March (08L)	Echinodermata Class Asteroidea Class: Holothuroidea, Class: Echinoidea, Class: Crinoidea Type study: Asteriasrubens (Sea Star): Classification, Habit Habitat, External Morphology, Digestive system, Water vascular System and autotomy and regeneration Pedicillaria in Echinodermata: straight,	and similarities in the various animals, and classify them. To understand our role as a caretaker and promoter of life.			Lecture-cum- demonstration Group activity with the Specimens and slides. Constructive approach: Posters, models making.
4th Week of March 23	Economic importance of				
	Week of February 24 & 1st, 2std 3std week of March (08L)	February 24 & 1st, 2std  features of Phylum Echinodermata Classification of Phylum Echinodermata Classification of Phylum Echinodermata Class Asteroidea Class: Holothuroidea, Class: Echinoidea Type study: Asteriasrubens (Sea Star): Classification, Habit Habitat, External Morphology, Digestive system, Water vascular System and autotomy and regeneration Pedicillaria in Echinodermata: straight, crossed, valvate, tridactylous globigerous. Economic importance of Echinidermata.  4th Week of March 23 Revision of whole syllabus and question paper discussion.	Week of February 24 & 1", 2" 28	Week of February 24	Week of February 24 24 21°, 2°d 37°d week of March (08L)  Classification of Phylum Echinodermata Class Asteroidea Class: Holothuroidea, Class: Echinoidea Type study: Asteriasrubens (Sea Star): Classification, Habit Habitat, External Morphology, Digestive system, Water vascular System and autotomy and regeneration Pedicillaria in Echinodermata: System and autotomy and regeneration Pedicillaria in Echinodermata: Economic importance of Echinidar.  4th Revision of whole syllabus and question paper discussion.

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Head of the Department

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Arts, Science and Commerce College, Wagholi, Pune - 412207

#### Department of Zoology

# Teaching Plan for the Academic Year 2022-23

Subject: ZO: 122 Cell Biology

Class: FYBSe

Semester: II

The criteria to be followed while preparing the teaching plan are:

A. 70% - Actual Classroom Teaching where different pedagogy can be involved

B. 10 % - Online Teaching (via. Zoom, You tube, and other such platforms)

C. 10% - Teaching with the use of Experiential Learning (visits, tours, games, presentations, etc.)

10% - Seminar/ project work

1 1 <sup>st</sup> 2 <sup>nd</sup> Introduction: The students will understand the important of cell	
cell as basic unit of life.  (4 L)  (4 L)  (4 L)  (4 L)  (4 L)  Importance of Cell Biology and its applications in industry.  Overview of Cells Structure and function of Prokaryotic (E. coli). Structure and function of Eukaryotic cells.  2 3 <sup>rd</sup> & Techniques in Cell Biology:	inar, y Tours Visits ure-cum- constratio  up ity with imens slides. structive oach: ers, els

				-		Str loc Fur Enc	ket app
The same of the last of the same of the sa			Micrometry.			(06L)	
	3	of January 23 &1 <sup>st</sup> Week of February 23 (04L)	Plasma Membrane: Introduction Structure of plasma membrane: Fluid mosaic model. Transport across membranes: Active and Passive transport, Facilitated transport, exocytosis. endocytosis. phagocytosis — vesicles and their importance in transport. Other functions of Cell membrane in brief Protection, cell recognition, shape, storage, cell signalling. Cell Junctions: Tight junctions, gap junctions, Desmosomes.  Nucleus: Structure and function Introduction to Nucleus Structure of Nucleus: Chromatin: Euchromatin and Hetrochromati n, nature and differences. Functions of nucleus  Endomembrane	The students will understand the important of cell as a structural nd functional unit of life.  The students will understand the compare between prokaryotic nd eukaryotic systems and extrapolate the life to the aspect of development.  The cellular mechanism and its functioning depends on endomembrane and structures.  They are best study in microscopy.			
		Week of February	System Introduction	The students will understand the			

		1		·		,
6	(06L)  4 <sup>th</sup> Week of February 23 & 1 <sup>st</sup> , 2 <sup>nd</sup> 3 <sup>rd</sup> week of March 23 (08L)	Structure, location and Functions: Endoplasmic Reticulum, Golgi apparatus, Lysosomes and vacuoles. Mitochondria and Peroxisomes. Introduction Mitochondria: ultrastructure and function of mitochondrion. Peroxisomes Cell Division Introduction Cell cycle (G1, S, G2, M phases), Mitosis nd Meiosis. Revision of whole syllabus and question paper discussion.	important of cell as a structural nd functional unit of life.  The students will understand the compare between prokaryotic nd eukaryotic systems and extrapolate the life to the aspect of development.  The cellular mechanism and its functioning depends on endomembrane and structures.  They are best study in microscopy.	Visual Auditory Kinesthetic	A, B, C, D	Classroom teaching, PPt, Oral, Group Discussion, Student Seminar, Study Tours and Visits Lecture-cum- demonstratio n Group activity with the Specimens and slides. Constructive approach: Posters, models making.
-	March 23 (3L)	haber discarring	, , , , , , , , , , , , , , , , , , ,		÷	

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Head of the Department

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**IQAC** Coordinator

Bharatiya Jain Sanghatana's

Art. Science & Commerce College

Bharatiya Jain Sanghatana's

Arts, Science & Commerce College,

Wagholi, Pune- 412207.



Arts, Science and Commerce College, Wagholi, Pune - 412207

#### Department of Zoology

#### Teaching Plan for the Academic Year 2022-23

Subject: ZO: 241 Animal Diversity IV Class: SYBSc Semester: IV

The criteria to be followed while preparing the teaching plan are:

- A. 70% Actual Classroom Teaching where different pedagogy can be involved
- B. 10 % Online Teaching (via. Zoom, Youtube, and other such platforms)
- C. 10% Teaching with the use of Experiential Learning (visits, tours, games, presentations, etc.)
- D. 10% Seminar/ project work

	11.		Learning	Approach(Vis	Crite	Methodology /
S	Schedule	Topic	Outcome	ual/	ria	pedagogy
N	ged a		The topics	Auditory/ Kinesthetic)	Follo wed (A/B/ C/D)	Classroom
2	1 <sup>st</sup> 2 <sup>nd</sup> Week of December 22 (04)  3 <sup>rd</sup> & 4 <sup>th</sup> week of December 22 (5L)	1. Introduction to class — Reptilia (04) 1.1 Salient features of class Reptilia with one example (name only) — Chelone, Calotes. 1.2 Venomous and Non- venomous snakes — Cobra, Russell's viper. Rat snake, Grass snake. 1.3 Snake venom, symptoms, effect and cure of snake bite, first aid treatment of snakebite. 1.4 Desert adaptations in reptiles in brief. 2. Introduction to class — Aves (05) 2.1 Salient features of class Aves with two examples  1.2 Elight plantations in birds 12 - entry Horizett 2.3 Types of Beaks and feet	help in understanding the Animal diversity, principles of classification of animals, study the differences and similarities in the various animals, and classify them. To understand our role as a caretaker and promoter of life.	Visual Auditory Kinesthetic	A, B, C, D	teaching, PPt, Oral, Group Discussion, Student Seminar, Study Tours and Visits Lecture-cum- demonstration Group activity with the Specimens and slides. Constructive approach: Posters, models making.

	, ·	in birds. 2.4 Migration in birds — Altitudinal, Latitudinal			,	
3	1 <sup>st</sup> 2 <sup>nd</sup> Week of January &23 (4L)	3. Introduction to class - Mammalia. (04) 3.1 Salient features of class Mammalia with two examples (names only) - Rat, Rabbit. 3.2 Egg laying mammals. 3.3 Aquatic adaptations in mammals. 3.4 Flying adaptations in mammals. 3.5 Cursorial and fossorial adaptation in mammals	The topics help in understanding the Animal diversity, principles of classification of animals, study the differences	Visual Auditory Kinesthetic	A, B, C, D	Classroom teaching, PPt, Oral, Group Discussion, Student Seminar, Study Tours and Visits Lecture-cum- demonstration Group activity with the
4	3 <sup>rd</sup> & 4 <sup>th</sup> 5 <sup>th</sup> Week of January 23 &1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> Week of February 23 (17L)	<ul> <li>4. Study of Rat (17)</li> <li>4.1 Systematic position, habit and habitat.</li> <li>4.2 External characters.</li> <li>4.3 Digestive system, food and feeding.</li> <li>4.4 Respiratory system.</li> <li>4.5 Blood vascular system – Structure of Heart.</li> <li>4.6 Nervous system – Central Nervous system only.</li> <li>4.7 Sense organs – Structure and functions of Eye &amp; Ear.</li> <li>4.8 Reproductive system.</li> </ul>	and similarities in the various animals, and classify them. To understand our role as a caretaker and promoter of life.			Specimens and slides. Constructive approach: Posters, models making.
7	1 <sup>st</sup> , 2 <sup>nd</sup> week of March 23 (3L)	Revision and question paper discussion				

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Head of the Department

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Bharatiya Jain Sanghatan Brigher & Commerce College

Wagholi, Punc- 412207.



Arts, Science and Commerce College, Wagholi, Pune - 412207

#### Department of Zoology

# Teaching Plan for the Academic Year 2022-23

Subject: ZO: 242 Applied Zoology II

Class: SYBSc

Semester: IV

The criteria to be followed while preparing the teaching plan are:

- 70% Actual Classroom Teaching where different pedagogy can be involved
- 10 % Online Teaching (via. Zoom, You tube, and other such platforms)
- 10% Teaching with the use of Experiential Learning (visits, tours, games, presentations, etc.) C.
- 10% Seminar/ project work D.

S N	Schedule	Topic	Learning Outcome	Approach(Vis ual / Auditory/ Kinesthetic)	Criter ia Follo wed (A/B/ C/D)	Methodology / pedagogy
1	1 <sup>st</sup> 2 <sup>nd</sup> Week of December 22 to 2 <sup>nd</sup> Week of January 23 (16 L)	An introduction to Apiculture, Systematic position, Study of habit, habitat and nesting behaviour of Apisdorsata, Apisindica, Apis florae and Apismellifera. Life cycle, Colony organization and Division of labour. Bee behaviour and communication Bee keeping equipments. Bee keeping and seasonal management. Bee products (composition and uses): Diseases and enemies of Bees: a) Bee diseases - Protozoan (Nosema), Bacterial nd Viral (Sac brood), Fungal (Chalk brood). b) Bee pests - Wax moth	The topic help to understands the basics about beekeeping tools, equipment and managing beehives.	Visual Auditory Kinesthetic	A, B, C, D	Classroom teaching, PPt, Oral, Group Discussion, Student Seminar, Study Tours and Visits Lecture-cumdemonstration Group activity with the Specimens and slides. Constructive approach: Posters, models making.

				la 1		
		(Greater and Lesser), Wax beetle. e) Bee predators - GreenBee eater, King crow, Wasp, Lizard. Bee pollination and management of bee colonies for pollination.				
	2 3 <sup>rd</sup> & 4 <sup>th</sup> 5 <sup>th</sup> Week of January 23 & 1 <sup>st</sup> 2 <sup>nd</sup> 3 <sup>rd</sup> 4 <sup>th</sup> Week of February 23 (14L)	An introduction to fisheries and its types (in brief): Freshwater fisheries, Marine fisheries, Brackish water fisheries. Habit, habitat and culture methods of following freshwater forms: a) Rohu (Labeo rohita), b) Catla (Catla catla), c) Mrigal (Cirrhinus mrigala). 2.3 Harvesting methods of following marine forms: a) Harpodon. b) Mackerel. c) Pearl oyster. Crafts and Gears in Indian Fishery net, Rampani net, Cast net. Fishery byproducts: Fish preservation technique.	The topic helps to understands the basic information about fishery, cultural and harvesting methods of fishes and fish preservation technique.	Visual Auditory Kinesthetic	A, B, C, D	Classroom teaching, PPt, Oral, Group Discussion, Student Seminar, Study Tours and Visits Lecture-cum- demonstration Group activity with the Specimens and slides. Constructive approach: Posters, models making.
7	1 <sup>st</sup> , 2 <sup>nd</sup> week of	Revision and question paper discussion				
	March 23 (3L)			= 		

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Head of the Department

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Department IQAC Coordinator offg Principal
Bharatlya Jain Sanghatana's
Bharatlya Jain Sanghatana's
Commerce College
Wagholi Pune-412207

# Bharatiya Jain Sanghatana's ASC College Wagholi, Pune 412207 Departmental Budget for the Academic Year 2022-2023

Sr.No.	Name of the Department	Name of Coordination	Budget for 2022-2023	Sanctioned	Remarks	Sign
.1	BBA(CA)	Dr.Landge B.B.	50000	30000		-
2	English	Dr.Jain M.G.	20000	10000		
3 .	Matematics	Prof.Avhad Pradip	30000	20000		
4	Chemistry	Dr.Gulalkari Rupali	1800000	1000000		
5	Geography	Dr.More J.C.	30000	20000		
6	Commerce	Dr.Landge B.B.	150000	100000		. e syl
7	Marathi	Dr.Sahadev Chavan	20000	10000		
8	History	Dr.Bhushan Phadatare	25000	15000		-
9	Botany	Dr.Patil D.N.	150000	50000		
10	BCA(Sci)	Dr.Bora Manisha.	145000	45000		
11	Zoology	Dr.Deshmukh M.V.	200000	50000		
12	Political Science	Mr.Sangole S.M.	20000	10000		t
13	Statistices	Mr.Shelke C.G.	10000	10000		
14	Hindi	Dr.Gaikwad S.V.	15000	10000		
15	Physics	Prof.Sonawane S.M.	75000	50000		
16	Economics	Prof.Shinde S.B.	30000	10000		-
17	Libarary	Mr.More S.P.	500000	400000		
18	Physical Education	Dr.Gaikwad R.A.	300000	200000		
		Total	3570000	2040000		

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IQAC Co-ordinator Bharatiya Jain Sanghatana's

Bharatiya Jain Sanghatana's Arts, Science & Commerce College, Wagholi, Pune- 412207.

offg. Principal
Bharatiya Jain Sanghatana's

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Bharatiya Jain Sanghatana's Art, Science & Commerce College Wagholi, Pune-412207

# Department of Commerce Agenda of the Meeting

Date: 28/02/2023

Meeting Name: Departmental meeting for the				Academic Year 2022-23	111
at .	Date of meeting	27/02/2023	Time	11.30a.m. Meeting No.	2
,	Meeting Co-	Dr.B:B: Landge		Room No.16A	Sed. 554
	ordinator	and the second second second second second	de la	Francisco Control of the Control of	

#### Meeting Objective: Routine Meeting for Academic Year 2022-23

Sr.no.	Topic	Presenter
Sr.no.		Dr.B.B. Landge
1	Subject Allocation	Prof. S.R.Patwa
2	Timetable	Dr.B.B. Landge
3	Departmental Activity	Dr.B.B. Landge
4	Overview of Paper Checking	
5	Research paper publication	All Staff
	Internship record and reports	Dr.B.B. Landge
6	Any other Topics & Issues	All Staff
7	Any other Topics & 1330c3	

	endees	Signature	5.N	Name	Signature
SIN	Name Dr.Desarda K.S.	-	8	Prof. Gaikwad J.R.	(92)
1	Dr. Landge B.B.	000	9	Prof. Gawaree P.S.	Collin
2	Prof. Jamdade R.N.	Bortole	10	Dr. Wakhare P.B.	2 jais
4	Dr. Thorat J.D.	9011	11	Prof. Sakhare A.S	(There
5	Prof. Patwa S.R.	Noun-	12	Prof. Khedkar V.V.	14
	Prof. Tayade A.P.	Tracket	13	Prof. Borhade B.S.	3 made
	Prof. Sonawane R.K.	CALL	PARTY PERMIT		

Co-Ordinator

**Submitted To** 

Incharge

Approved by



# Bharatiya Jain Sanghatana's ASC College, Wagholi, Pune-412 207

# Department of Commerce Minutes of the Meeting

Date: 03/03/2023

nartmental meetin	A	2004 22							
Date of meeting 27/02/2023 Time 11.30 am Meeting No. 2									
27/02/2023	Time	11.30 am	Meeting No.	2					
Dr.B.B. Landge	venue	Room No.16A	Minutes prepared by	Prof. Patwa S.R.					
	27/02/2023	27/02/2023 Time	27/02/2023 Time 11.30 am	partmental meeting for the Academic Year 2021-22 27/02/2023 Time 11.30 am Meeting No.					

Sr.No	Meeting Agenda	Decision	Person Responsible
1	Subject allocation	It was decided that M.com subjects should be allocated to respected staff.	Prof.(Dr.)B.B. Landge
2	Timetable	It was decided that timetable should be prepared and send to all students on whatsapp group.	Prof. Sonam Patwa
3.	Dept. Activity	It was decided that each staff should conduct minimum two activities for students during the academic year for that prepared separate IC sheet for activities.	Prof.A.P.Tayade Prof.A.S.Sakhare
4.	Overview of Paper checking (F.Y.Bcom)	It was decided that F.Y.B.om papers should be check till 6 <sup>th</sup> March 2023 (Monday) and maintain the records of marks of all subject	Prof.B.S.Borhade
5.	Research paper publication	It was decided that each staff member should prepare & published minimum 2 research paper every year.	Prof. A.S.Sakhare
6.	Internship records & Reports	It was decided that maintain the all records of internship program and allocate certificate to students for internship.	Dr. J.D.Thorat
7.	Any other topics and issues	1.It was decided that make the arrangement of computer and English teachers for F.Y.Bcom 2. Arrange different days for students.	Prof.(Dr.)B.B. Landge

#### **Next Meeting:**

Date	31/03/2023	Time	11.30 am	Venue	Room No. 16A

Objective:

Routine meeting/work discussion/Review of work/Decisions and Discussion

Co-Ordinator

Incharge