SACRED HEART COLLEGE (AUTONOMOUS)

DEPARTMENT OF ZOOLOGY

BACHELOR OF SCIENCE IN ZOOLOGY

Course plan

Academic Year 2014 - 15

Semester 2

COURSE STRUCTURE

Course Code	Title Of The Course	No. Hrs./ Week	Credits	Total Hrs./Sem
U2CCENG3	CRITICAL THINKING, ACADEMIC WRITING AND PRESENTATION	5	4	90
U2CCENG4	MUSINGS ON VITAL ISSUES	4	3	72
U2CCHIN2A	TRANSLATION, COMMUNUCATION SKILLS AND APPLIED GRAMMAR	4	4	72
U2CCFRN2A	FRENCH LANGUAGE AND COMMUNICATION SKILLS II	4	4	72
U2CCSAN2A	COMMUNICATION SKILLS IN SANSKRIT LANGUAGE	4	4	72
U2CCMAL2A	KAVITHA	4	4	72
U2CRZOO02	ANIMAL DIVERSITY - NON CHORDATA-II	2	2	36
U2CPBOT2	PLANT PHYSIOLOGY	2	2	36
U2CPCHE2	BASIC ORGANIC CHEMISTRY	2	2	36

PROGRAMME	B.Sc. Zoology	SEMESTER	2
COURSE CODE & TITLE	U2CCENG3: CRITICAL THINKING, ACADEMIC WRITING AND PRESENTATION	CREDIT	4
HOURS/WEEK	5	HOURS/SEM	72

COURSE OBJECTIVES

Comprehends fundamental concepts of critical reasoning and develops the capacity to read and respond critically, drawing conclusions, generalizing, differentiating fact from opinion and creating their own arguments.

Develops appropriate and impressive writing styles for various contexts

Write and correct structural imperfections and edit what they have written.

Develops capacity for making academic presentations effectively and impressively

Synthesize information from various written sources and present them in the form of summaries.

Write original literary creations in different genres as directed, with/without using prompts.

SESSION	TOPIC	LEARNING RESOURCES	REMARKS
	MODULE I		
1	Introduction to Critical Thinking	Lecture/PPT	
2	Introduction to Critical Thinking	Lecture/PPT	
3	Introduction to Critical Thinking	Lecture/PPT	
4	Introduction to Critical Thinking	Lecture/PPT	
5	Reasoning and Arguments	Activities/	
		Discussion	
6	Reasoning and Arguments	Activities/	
		Discussion	
7	Reasoning and Arguments	Activities/	
		Discussion	
8	Reasoning and Arguments	Activities/	
		Discussion	
9	Reasoning and Arguments	Activities/	
		Discussion	

10	Descening and Arguments	Activities/
10	Reasoning and Arguments	Discussion
11	Deductive and Inductive Arguments	Course book
12	Deductive and Inductive Arguments	Course book
13	Deductive and Inductive Arguments	Course book
14	Deductive and Inductive Arguments Deductive and Inductive Arguments	Course book
15		Course book
16	Deductive and Inductive Arguments Fallacies	Course book
17	Fallacies	Course book
18		
10	Inferential Comprehension	Group Activities
19	Inferential Comprehension	Group
13	interential comprehension	Activities
20	Inferential Comprehension	Group
	interential comprehension	Activities
21	Inferential Comprehension	Course book
22	Inferential Comprehension	Group
	,	Activities
23	Inferential Comprehension	Group
	·	Activities
24	Critical Thinking and Academic Writing	Group
		Activities
25	Critical Thinking and Academic Writing	Group
		Activities
26	Critical Thinking and Academic Writing	Group
	INTERNAL ASSESSMENT TEST 1	Activities
27		Presentation
28	Writing Models Writing Models	Course book
29		Course book
30	Writing Models	Course book
	Writing Models	
31	Writing Models	Course book
32	Writing Letters	Co. market
33	Writing Letters	Course book
34	Writing Letters	Course book
35	Writing Letters	
36	Writing a Letter to the Editor	Course book
37	Writing a Letter to the Editor	Course book
38	Writing a Letter to the Editor	
39	Writing a Letter to the Editor	Course book
40	Letter to the Editor	Course book
41	Letter to the Editor	Course book
42	Resume Writing	
	MODULE III	
43	Covering Letter	Lecture
44	Covering Letter	Lecture
45	Emails	Course book
+5		

46	Emails	Course book
47	Interview Skills	
48	Interview Skills	Course book
49	Interview Skills	Course book
50	Group Discussion	
52	Group Discussion	Course book
53	Accuracy in Academic writing	Course book
54	Accuracy in Academic writing Accuracy in Academic writing	Course book
55	Accuracy in Academic writing	eddise seek
	Articles and Determiners	Course book
56	Articles and Determiners	Course book
57		Course book
58	Nouns and Pronouns	I and an
59	Subject-verb agreement	Lecture
60	Phrasal verbs	Lecture
61	Modals	
62	Tenses	Course book
63	Tenses	Course book
64	Tenses	
65	Conditional clauses	Course book
66	Relative Pronouns	Course book
67	Passive Voices	
	INTERNAL ASSESSMENT TEST 2	
68	Conjunctions	Lecture
69	Embedded questions	Course book
70	Embedded questions	Course book
71	Punctuations and Abbreviations	
72	Soft skills for academic presentations	Course book
73	Effective communication skills	Course book
73	Flip Charts, OHP, Power point presentation	Group
74	The charts, orm, tower point presentation	Presentations
	Clarity and brevity in presentation	Group
75		Presentations
	Interaction and persuasion	Group
76		Presentations
77	Interview skills	Group Presentations
	Interview skills	Group
78	IIICI VICW SKIIIS	Presentations
	Interview skills	Group
79		Presentations
	Group Discussion	Group
80		Presentations
04	Group Discussion	Group
81	Croup Discussion	Presentations
82	Group Discussion	Group Presentations
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	Group Discussion	Group
83		Presentations
	Group Discussion	Group
84		Presentations
	Group Discussion	Group
85		Presentations
86	Review Session 1	
87	Review Session 1	
88	Review Session 2	
89	Review Session 3	
90	Review Session 4	

	Date of	Topic of Assignment & Nature of assignment	
		(Individual/Group — Written/Presentation —	
	completion	Graded or Non-graded etc)	
1	4/1/2015	Writing Tasks- Different Types of Letters	
2	28/02/2015		

GROUP ASSIGNMENTS/ACTIVITES – Details & Guidelines

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc)	
1	2/02/2015	Brochure design	
2	15/1/15	Model Slide Presentation	

PROGRAMME	UG COMMON COURSE	SEMESTER	2
COURSE CODE AND TITLE	U2CCENG4: MUSINGS ON VITAL ISSUES	CREDIT	2
HOURS/WEEK	4	HOURS/SEM	72

COURSE OBJECTIVES
Appreciate inspirational literatures of various
literary genres across cultures
Critically engage with literary texts written in
different languages and later translated into English
Critically engage with biographical sketch of the
authors and familiarize their personality, oeuvre
and style.
Develop a creative and insightful perspective
towards life
Apply the unfathomable power of literatures in
their writings and creative endeavors.

SESSION	TOPIC	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
	MODULE I –GLOBALIZATION AND ITS			
	CONSEQUENCES			
1	Fritjof Capra: "The Dark Side of Growth"	PPT/Lecture	video	
2	Fritjof Capra: "The Dark Side of Growth"	PPT/Lecture	video	
3	Fritjof Capra: "The Dark Side of Growth"	Lecture		
4	Joseph Stiglitz: "Globalization"	lecture		
5	Joseph Stiglitz : "Globalization"	PPT/Lecture	video	
6	Joseph Stiglitz : "Globalization"	PPT/Lecture		
7	D H Lawrence : "Money Madness"	Lecture		
8	S Joseph: "For the Dispossessed"	Lecture		
9	S Joseph: "For the Dispossessed"	PPT/Lecture	video	
10	S Joseph: "For the Dispossessed"	PPT/Lecture		
11	Vandana Shiva : "The Social Costs of Economic Globalization"	Lecture		
12	Vandana Shiva : "The Social Costs of Economic Globalization"	Lecture		
13	Vandana Shiva : "The Social Costs of Economic Globalization"	PPT/Lecture	video	
14	Jagannath Prasad Das : "Kalahandi"	PPT/Lecture		

16 Jagannath Prasad Das : "Kalahandi" Lecture Rights" 18 Leah Levin : "Universal Declaration of Human Rights" 19 Leah Levin : "Universal Declaration of Human Rights" 20 Nani A Palkivala : "Human Rights and Legal Responsibilities" 21 Nani A Palkivala : "Human Rights and Legal Responsibilities" 22 Nani A Palkivala : "Human Rights and Legal Responsibilities" 23 Martin Luther King : "I Have a Dream" 24 Martin Luther King : "I Have a Dream" 25 Martin Luther King : "I Have a Dream" 26 Kalpana Jain : "Stigma, Shame and Silence" 27 Kalpana Jain : "Stigma, Shame and Silence" 28 Kalpana Jain : "Stigma, Shame and Silence" 29 Wole Soyinka : "Telephone Conversation" 30 Wole Soyinka : "Telephone Conversation" 31 Richard Wright : "Twelve Million Black Voices" 32 Richard Wright : "Twelve Million Black Voices" 33 Richard Wright : "Twelve Million Black Voices" 34 Aruna Roy : "Tune in to the Voice of the Deprived" 35 Aruna Roy : "Tune in to the Voice of the Deprived" 36 Aruna Roy : "Tune in to the Voice of the Deprived" 37 Johannes V. Jensen : "Lost Forests" 38 Johannes V. Jensen : "Lost Forests" 49 Johannes V. Jensen : "Lost Forests" 40 Omprakash Valmiki : "Joothan" 41 Deprivation of the Context of the Deprived" 42 Domprakash Valmiki : "Joothan" 43 Damaica Kincaid : "Girl" 44 Jamaica Kincaid : "Girl" 45 Jamaica Kincaid : "Girl" 46 Taslima Nasrin : "At the Back of Progress" 47 Taslima Nasrin : "At the Back of Progress" 48 Judy Brady : "Why I Want a Wife" 49 Judy Brady : "Why I Want a Wife" 40 Lecture 41 Lecture 42 Video 43 Judy Brady : "Why I Want a Wife" 44 Lecture 45 Lecture 46 Lecture 47 Lecture 48 Judy Brady : "Why I Want a Wife" 49 Judy Brady : "Why I Want a Wife" 40 Lecture 41 Lecture 42 Lecture 43 Lecture 44 Lecture 45 Lecture 46 Lecture 47 Lecture 48 Lecture 49 Judy Brady : "Why I Want a Wife" 49 Lecture 40 Lecture 41 Lecture 42 Lecture 43 Lecture 44 Lecture 45 Lecture 46 Lecture 47 Lecture 48 Lecture 49 Lecture 49 Lecture 40 Lecture 40 Lecture 40 Lecture	15	Jagannath Prasad Das : "Kalahandi"	Lecture		
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39 Johannes V. Jensen: "Lost Forests" Lecture 40 Omprakash Valmiki: "Joothan" Lecture 41 Omprakash Valmiki: "Joothan" Discussion 42 Omprakash Valmiki: "Joothan" MODULE –III Gender Question 43 Jamaica Kincaid: "Girl" Presentation 44 Jamaica Kincaid: "Girl" Presentation MODULE III- GENDER QUESTION 45 Jamaica Kincaid: "Girl" Lecture Video 46 Taslima Nasrin: "At the Back of Progress" Discussion 47 Taslima Nasrin: "At the Back of Progress"	37	Johannes V. Jensen: "Lost Forests"	Lecture		
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44 Jamaica Kincaid: "Girl" Presentation MODULE III- GENDER QUESTION 45 Jamaica Kincaid: "Girl" Lecture Video 46 Taslima Nasrin: "At the Back of Progress" Discussion 47 Taslima Nasrin: "At the Back of Progress" 48 Taslima Nasrin: "At the Back of Progress"		MODULE –III Gender Question			
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46 Taslima Nasrin: "At the Back of Progress" 47 Taslima Nasrin: "At the Back of Progress" 48 Taslima Nasrin: "At the Back of Progress"		MODULE III- GENDER QUESTION			
47 Taslima Nasrin: "At the Back of Progress" 48 Taslima Nasrin: "At the Back of Progress"	45	Jamaica Kincaid : "Girl"	Lecture	Video	
48 Taslima Nasrin : "At the Back of Progress"	46	Taslima Nasrin: "At the Back of Progress"	Discussion		
	47	Taslima Nasrin: "At the Back of Progress"			
49 Judy Brady: "Why I Want a Wife" Lecture Video	48	Taslima Nasrin: "At the Back of Progress"			
	49	Judy Brady: "Why I Want a Wife"	Lecture	Video	

50	Judy Brady: "Why I Want a Wife"	Lecture,		
30	Judy Brady. Willy I Wallt a Wile	discussion		
51	Lock Donato (()Atlant NA/arch - NA/fall			
51	Judy Brady: "Why I Want a Wife"	Lecture, discussion		
52	LD Duigethau (MAsthaur)			
52	J B Priestley : "Mother's Day"	Lecture, discussion		
F2	LD Drivetter (MA-thered - Deed)			
53	J B Priestley: "Mother's Day"	Lecture		
54	J B Priestley : "Mother's Day"	Discussion	Video	
55	J B Priestley : "Mother's Day"	Lecture		
56	Amartya Sen : "More Than 100 Million Women are	Lecture		
	Missing			
57	Amartya Sen : "More Than 100 Million Women are	Presentation		
	Missing			
58	Amartya Sen : "More Than 100 Million Women are	Presentation		
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59	Amartya Sen : "More Than 100 Million Women are	Presentation		
	Missing			
60	Revision			
61	Revision			
62	Revision			
63	Revision			
64	Revision			
65	Revision			
66	Revision			
67	Revision			
68	Revision			
69	Revision			
70	Revision			
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	Date of	Topic of Assignment & Nature of assignment (Individual/Group –
	completion	Written/Presentation — Graded or Non-graded etc)
1	2/1/2015	Presentations
2	28/1/2015	Role Plays

GROUP ASSIGNMENTS/ACTIVITES – Details & Guidelines

	Date of	Topic of Assignment & Nature of assignment (Individual/Group –
	completion	Written/Presentation — Graded or Non-graded etc)
1	12/1/2015	Group Discussions
2	20/1/2015	Performances

References

Dr P J George Ed. Musings on Vital Issues. Orient Blackswan and Mahatma Gandhi University.

PROGRAMME	BACHELOR OF SCIENCE – ZOOLOGY	SEMESTER	2
	U2CCHIN2A - TRANSLATION, CORRESPONDENCE, ESSAYS AND APPLIED GRAMMAR (SEM II)	CREDIT	4
HOURS/WEEK	4	HOURS/SEM	72

COURSE OBJECTIVES

Recognize and get introduced to the minor genres such as essay to develop their social and moral sense in life. Define grammatical structure of Hindi language and analyse the problems, challenges of communication in Hindi.

Use Hindi language for effective communication in different fields like administration, office proceedings, insurance etc.

Understand translation as a linguistic, communicative and cultural activity.

Acquire skills of correspondence, drafting official and scientific documents in the fields of administration, media and business.

SESSION	ТОРІС	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
	MODULE I			
1	Importance of Grammar in Language learning.	Lecture/Discussion		
2	Part I Vyakaran	Lecture/Discussion		
3	Part I Vyakaran	Lecture/PPT		
4	Part I Vyakaran	Lecture	Exercise	
5	Importance of Translation	Lecture/PPT		
6	Translation	Lecture/PPT		
7	Translation	Lecture	Exercise	
8	Exercise -Translation	Interaction	Exercise	
9	Importance of Letter writing	Lecture/PPT		
10	Part II Patra Lekhan	Lecture/Discussion		
11	Ache Patra Ki Visheshtayen	Lecture/PPT		
12	Importance of Hindi Essays	Interaction	Discussion	
13	Patron Ke Prakar	Lecture		
14	Nibandh Ke Prakar	Lecture		
15	Nibandh Ke Prakar	Lecture/PPT	Exercise	

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16	Part I Vyakaran	Lecture	Formation
17	Part I Vyakaran	Interaction	Exercise
18	Exercise -Translation	Lecture	
19	Revision	Discussion	
20	Patron Ke Prakar	Lecture	
21	Nibandh Ke Ang	Lecture	
22	Nibandh Lekhan Sambandhi Avashyak	Lecture/Discussion	
- 22	Batein	, /DDT	
23	Nibandh1,2	Lecture/PPT	
24		(1Hour Exam)	
25	MODULE II Exercise Oriented Grammar	Lecture	
26			Exercise
27	Exercise Oriented Grammar	Lecture/Discussion Lecture/ Discussion	Exercise
	Exercise Oriented Grammar	Lecture/PPT	Exercise
28	Part II Patra Lekhan, Parivarik Patra	<u>'</u>	
29	Part II Patra Lekhan, Parivarik Patra	Interaction	
30	Exercise –Translation	Lecture	
31	Exercise – Translation	Lecture/Discussion	
32	Revision	Interaction	
33	Exercise Oriented Grammar	Lecture	
34	Exercise Oriented Grammar	Lecture/ Discussion	Exercise
35	Part II Patra Lekhan , Nimantran Patra	Lecture/PPT	
36	Nibandh 3	Lecture	
37	Nibandh 3,Exercise	Lecture/ Discussion	
38	Exercise – Translation	Lecture	
39	Exercise –Translation	Lecture/ Discussion	
40	Part II Patra Lekhan, Vyavasayik Patra	Lecture/PPT	
41	Nibandh 4	Lecture	
42	Nibandh 4,Exercise	Lecture/Discussion	Exercise
43	Nibandh 5	Lecture/Discussion	
44	Nibandh 6	Lecture	
45	Nibandh 6,Exercise	Lecture/ Discussion	Exercise
46	Revision	Interaction	
47		A – II (2 Hours Exam)	
	MODULE III	7	
48	Exercise Oriented Grammar	Lecture/PPT	
49	Exercise Oriented Grammar	Lecture	Exercise
50	Nibandh 7	Lecture	
51	Nibandh 7, Exercise	Lectutre/Discussion	Exercise
52	Part II Patra Lekhan, Adhikarik Patra	Lecture/PPT	
53	Part II Patra Lekhan, Adhikarik Patra	Lecture/ Discussion	
54	Exercise – Translation	Lecture	
55	Exercise – Translation	Lecture/Discussion	
56	Nibandh 8	Lecture	

57	Nibandh 8,Exercise	Lecture/ Discussion	
58	Exercise –Translation	Lecture	
59	Exercise Oriented Grammar	Lecture/PPT	
60	Exercise Oriented Grammar	Lecture	Exercise
61	Part II Patra Lekhan, Shikayati Patra	Lecture/Discussion	
62	Nibandh 9	Lecture	
63	Nibandh 9,Exercise	Lecture/ Discussion	
64	Exercise – Translation	Lecture	
65	Part II Patra Lekhan , Karyalayi Patra	Lecture/PPT	
66	Nibandh 10	Lecture	
67	Nibandh 10,Exercise	Lecture/Discussion	
68	Seminar	Presentation by students	
69	Seminar	Presentation by students	
70	Revision	Interaction	
71	Revision	Interaction	
72	Evaluation of the course		

GROUP ASSIGNMENTS/ACTIVITES – Details & Guidelines

SL	Date of	Topic of Assignment & Nature of assignment (Individual/Group –
NO	completion	Written/Presentation – Graded or Non-graded etc)
_		Exercise activity based on Patra lekhan (Group
1	January	Discussion)
		Translation of a passage from English to
2	January	Hindi.(Group Activity)

References

• Hindi vyakaran by Kamta Prasad Guru , Prabhat Prakashan

Web resource references:

- epustakalay.com
- www.hindikunj.com

PROGRAMME	BSC ZOOLOGY	SEMESTER	2
	U2CCFRN1A - FRENCH LANGUAGE AND COMMUNICATION SKILLS II	CREDIT	4
HOURS/WEEK	4	HOURS/SEM	72

COURSE OBJECTIVES

Understand the basic concepts of French language including grammar, vocabulary and sentence structure

Understand the basic communication skills necessary for living in France and French speaking countries.

Describe oneself and ones surroundings using a repertory of words and expressions in a simple and structured grammatical manner.

Develop business communication skills

Express an issue of concern including topics like environmental, social or health issues, enumerate its causes and consequences and suggest solutions

Understand the mannerisms, culture and tradition of France and Francophone countries and compare it to one's own country and develop co-cultural feeling

Understand and appreciate the history of France and Francophone countries and compare it to one's own country

Understand the special features of France including gastronomy, social institutions, policis, the present French scenario and compare it to one's own country

SESSION	TOPIC	LEARNING RESOURCES	VALUE REMARKS
	MODULE I		
1	Introducing French Basics	Role play, games	
2	French Basics	Lecture	
3	Pronominal verbs	Games, music	
4	Pronominal verbs practice	Games	
5	Sentence contruction using pronominal verbs	Games	
6	Sentence construction	Games	
7	Sentence construction	Games	
8	Grammar- present tense	Role play	
9	Communicative skills	Lecture	
10	Communicative skills	Role Play	
11	Communicative skills	Role Play	
12	Narrate a day	Discussions ICT	
13	Narrate a day	Discussions	
	MODULE II		_
14	Interrogative adjectifs	Game	
15	Interrogative adjectifs	Lecture	

16	Demonstrative adjectives	Game	
17.	Demonstrative Adjectives	Lecture	
18.	Sentence construction	Games	
19	Sentence construction	Games	
20	civilisation	discussion	
21	Vocabulary building	games	
22	Vocabulary Building	Games	
23	Buying a product, French products	Lecture/Discussion	
24	Buying a product	Role play	
25	Buying a product	Role play	
26		Revision	
27	Revision		
28	revision		
29	CIA I		
	MODULE III		
30	Food vocabulary	PPT/Lecture	
31	Food vocabulary	Games	
32	Intercultural studies	Discussions	
33	Sentence construction	Role play	
34	Sentence Construction	Games	
35	Articles partitifs	music	
36	Sentence construction(negative form)	games	
37	Future proche	Lecture	
38	Future proche	Lecture	
39	Giving and taking order	Role play	
40	Ordering at a restaurant	Role play	
41	Vocabulary building	Games, music	
42	Vocabulary building	Games, Music	
43	civilisation	PPT/Discussion	
44	Civilisation	Discussion	
		CIA II	
	MODULE I		
45	Past tense (avoir)	Lecture	
46	Past tense(etre)	Lecture	
47	Past tense (pronominal)	Lecture	
48	Sentence formation	Games	
49	Sentence formation	Games	
50	Describe a past event	Lecture	
51 52	Narrate your day in the past Diary writing	communication	
52 53	Vocabulary building	assignment games	
	Part time jobs, vocabulary	Lecture	
54	Part time jobs, vocabulary	Role plays	
55	•	· '	
56	Exploring part time jobs	Role play	

	Putting up an ad and responsing to an	Lecture/Seminar/Discussion		
57	ad on part-time job			
	Putting up an ad and responsing to an	Role play		
58	ad on part-time job			
59	French culture	Discussion		
60	French Culture	Discussion		
61	French culture	Discussion		
62	French culture	Discussion		
63	DELF PREPARATION			
64	DELF PREPARATION			
65	DELF PREPARATION			
66	DELF PREPARATION			
67	DELF PREPARATION			
68	DELF PREPARATION			
69	DELF PREPARATION			
70	DELF PREPARATION		_	
71	DELF PREPARATION			
72	DELF PREPARATION			

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc)
1	By February	Presentation on gastronomy of each region
2	by rebruary	roleplays

References

Version Originale, site web

PROGRAMME	BACHELOR OF SCIENCE,ZOOLOGY	SEMESTER	2	
COURSE CODE AND TITLE	U2CCSAN2A: COMMUNICATION SKILLS IN SANSKRIT	CREDIT	4	
HOURS/WEEK	4	HOURS/SEM	72	

COURSE OBJECTIVES
Developing the basic knowledge in Sanskrit
Students develop the communication skills in sanskrit
Students familiarize the figures of speech and their usage
Students get an awareness about aesthetic values
Students get an awareness about Indian classical poetic tradition
Understand moral values through Drama
Students develop writing skills in Sanskrit
Students get awareness about Verbal forms

SESSION	TOPIC	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
	MODI	JLE I		
1	Introducing Vibhakthi	Lecture		
2	Prathama vibhakthi	Discussion		
3	Dvitheeya vibhakthi	Lecture		
4	Thritheeya vibhakthi	Lecture	e-resource	
5	Chathurthi vibhakthi	Lecture		
6	Panchami vibhakthi	Chalk n talk		
7	Shashti vibhakthi	Lecture		
8	Sapthami vibhakthi	Chalk n talk		
9	Sambhodhanaprathama	Lecture		
10	Akarantha pulinga bala shabha	Lecture		
11	Aakarantha sthreelinga Latha shabdha	Discussion		
12	Ekarantha pulinga Kavi shabdha	Discussion		
13	Ukarantha pulinga Guru shabdha	PPT/Lecture		
14	Revision			
MODULE II				
15	Structure of sentence- Present tense	PPT/Lecture		
16	Prathama purusha ekavachaam	Chalk n talk		

17	Prathama purusha dvivachaam	Lecture	T T
18	Prathama purusha bahuvachaam	Lecture	
19	Madhyama purusha ekavachaam	Lecture	
20	Madhyam purusha dvivachaam	Game	
21	Madhyam purusha bahuvachaam	Game	
22	Uthamapurusha ekavachaam	PPT/Lecture	
23	Uthamapurusha dvivachaam	PPT/Lecture	
24	Uthamapurusha bahuvachaam	Lecture	
25	Past tense- Prathamapurusha	Lecture	
26	CIA-1	Lecture	
27	Past tense -Madhyamapurusha	Lecture	
28	Past tense - Uthamapurusha	Chalk n talk	
29	Future tense - Prathamapurusha	Chalk n talk	
30	Future tense - Madhyamapurusha	Discussion	
31	Future tense - Uthamapurusha	Discussion	
32	Sentence making in Sanskrit-Active voice	Lecture	
33	Sentence making in Sanskrit –Passive voice	Lecture	
34	Revision		
35	Revision		
	MODULE III		
36	Introduction Meghadootha	Lecture	
37	Explaining Khandakavyam	Lecture	
38	Yaksha -curse	PPT/Lecture	
39	Yaksha's meeting with cloud	PPT/Lecture	
40	Requesting to cloud	PPT/Lecture	
41	Praising cloud	Lecture	
42	Yaksha directing cloud	Lecture	
43	Meeting with Balaka bird	Chalk n talk	
44	Departure	Discussion	
45	Rajahamsa	Roleplay	
46	Explaining Mountain	Discussion	
47	Directing to Megha	PPT/Lecture	
48	Revision		
49	Revision		
	MODULE IV		
50	Introduction Mrichakatika drama	PPT/Lecture	
51	Charudatha	PPT/Lecture	Video
52	Vasanthasena	PPT/Lecture	
53	Vasanthasena's visiting	PPT/Lecture	
54	Rajasyala Samsthanaka	Lecture	
55	Vasanthasena 's meeting with Charudatha	Lecture	Debate
56	Matithreya's conversation with Radanika	PPT/Lecture	
57	Rohasena	PPT/Lecture	
58	Dvitheeyanka	PPT/Lecture	
	1 '	,	1 1

59	Gambling incident	PPT/Lecture	
60	Catching Gambler	PPT/Lecture	
61	Escaping	PPT/Lecture	
	CIA - II		
62	Vasanthasena's talk with her servant		
63	thritheeyanka	Lecture	
64	Rebhila's music discussion	Lecture	Group discussion
65	Sharvilaka –the thief	Lecture	
66	Taking gold from Maithreya	PPT/Lecture	
67	Charudatha talk with Maithreya	PPT/Lecture	
68	Dootha's talking	PPT/Lecture	
69	Revision		
70	Revision		
71	Revision		
72	Revision		

	Date of	Topic of Assignment & Nature of assignment (Individual/Group –
	completion	Written/Presentation — Graded or Non-graded etc)
1	By February	Kalidasa's Mahakavyas
2	Sanskrit Drama	

GROUP ASSIGNMENTS/ACTIVITES – Details & Guidelines

	Date of	Topic of Assignment & Nature of assignment (Individual/Group –
	completion	Written/Presentation — Graded or Non-graded etc)
1	By February	Bhasa's dramas
2	Khandakavyas in Sanskrit	

References

- 1.Meghadhoota of Kalidasa (Poorva-Megha; 1-20 Slokas)
- 2.Mrichakatika-kathasamgraha, (Chapters 1, 2&3), by Prof. P.C. Vasudevan Elayat
- 3. Siddharupam, Vidyarambham Press, Alappuzha
- 4. Sabdamanjari, Chowkhamba Sanskrit Series office, Varanasi
- 5. Dhaturupamanjari, Chowkhamba Sanskrit Series office, Varanasi
- 6.Samskritavyakaranapravesika, Pandit L Anantharama Sastri
- 7.Balabodhini, Rajarshi Sree Rama Varma, Publication Divison, Govt.Sanskrit College, Trippunittura

PROGRAMME	B.Sc ZOOLOGY	SEMESTER	2
COURSE CODE & TITLE	u2ccmal2a കവിത	CREDITS	4
HOURS/WEEK	4	HOURS/SEM	72

COURSE OBJECTIVES
കവിത എന്ന
സാഹിത്യരൂപത്തെക്കുറിച്ച് മെച്ചപ്പെട്ട ധാരണ ഉണ്ടാക്കുക
ഭാഷാപഠനം സാഹിത്യാനുഭവത്തിലൂടെ ആവിഷ്ക്കരിക്കുക
വായനാഭിരുചി വർദ്ധിപ്പിക്കുക
സാഹിത്യ പരിചയം ഉണ്ടാക്കുക
വ്യാവഹാരിക തലത്തിൽ മാതൃഭാഷാപ്രയോഗിക്കുവാനുള്ള
കഴിവ് നേടുക
ഭാഷാപഠനത്തിലൂടെ ആശയവിനിമയശേഷി വർദ്ധിപ്പിക്കുക

Sessio	Topic	Learning	Teaching Method	REMARKS
n		Resources		
		Module I		
1	മലയാളസാഹിത്യം	സാഹിത്യചര	Lecturing	
	സാമാന്യാവലോകനം	ിത്രങ്ങൾ		
2	മലയാളകവിതയുടെ	സാഹിത്യചര	Lecturing	
	ചരിത്രം-1	ിത്രങ്ങൾ		
3	മലയാളകവിതയുടെ	സാഹിത്യചര	Discussion	
	ചരിത്രം-2	ിത്രങ്ങൾ		
4	ചങ്ങമ്പുഴയുടെ	കവിതാ	Lecturing	
	രചനാലോകം	പഠനങ്ങൾ		
		പഠനങ്ങൾ		
5	മനസ്ഥിനി	Text	Reading	
6	മനസ്ഥിനി	Text	Group Discussion	
7	സൂര്യകാന്തി	കവിതാ	Lecturing	
		പഠനങ്ങൾ		
		പഠനങ്ങൾ		
8	സൂര്യകാന്തി	Text	Reading	
9	ഗോപികാദണ്ഡകം	Text	Group Discussion	
10	ഗോപികാദണ്ഡകം	കവിതാ	Lecturing	
		പഠനങ്ങൾ		
		പഠനങ്ങൾ		
11	ഗോപികാദണ്ഡകം	Text	Reading	
12	വിരാമം	Text	Group Discussion	
13	വിരാമം	കവിതാ	Lecturing	
13	(I NOOLO	പഠനങ്ങൾ	Lecturing	
14	വിരാമം	Text	Reading	
15	പുതിയമാഷന്മാർ	Text	Group Discussion	
16	പുതിയമാഷന്മാർ	Text	Group Discussion	

17	പഠിച്ച കവിതകൾ ഒരു	Text	Group Discussion
	അവലോകനം	Module II	
18	ആധുനിക		Lecturing
	മലയാളകവിതയുടെ	കവിതാ	zestaring
	സ്വഭാവങ്ങൾ	പഠനങ്ങൾ	
19	യുഗളപ്രസാദൻ	Text	Reading
20	യുഗളപ്രസാദൻ	Text	Group Discussion
21	ആത്മഹത്യ ചെയ്യ	TEXE	Lecturing
	കർഷകൻ		
	വെള്ളത്തെക്കുറിച്ച്		
	സംസാരിക്കുന്നു	Text	
22	ആത്മഹത്യ ചെയ്ത		Reading
	കർഷകൻ		
	വെള്ളത്തെക്കുറിച്ച്		
	സംസാരിക്കുന്നു	Text	
23	ആത്മഹത്യ ചെയ്ത		Group Discussion
	കർഷകൻ		
	വെള്ളത്തെക്കുറിച്ച്		
	സംസാരിക്കുന്നു	Text	
24	കളകൾ	കവിതാ	Lecturing
		പഠനങ്ങൾ	
25	കളകൾ	Text	Reading
26	പറക്കം	Text	Group Discussion
27	പറക്കം	കവിതാ	Lecturing
20		പഠനങ്ങൾ	
28	കീരി	Text	Reading
29	കീരി	Text	Group Discussion
30	പഠിച്ച കവിതകൾ ഒരു	T	Group Discussion
31	അവലോകനം Internal Assessment 1	Text Text	
32	Question paper discussion	Text	Group Discussion
32		Module III	Group Discussion
33	മലയാള - നൂതന	കവിതാ	Lecturing
33	പ്രവണതകൾ	പഠനങ്ങൾ	Lecturing
34	കാക്ക	Text	Reading
35	കാക്ക	Text	Group Discussion
36	മോഹൻദാസും ഗാന്ധിയും	കവിതാ	Lecturing
- -	നാഥുറാം ഗോഡ്സെയും	പഠനങ്ങൾ	
37	മോഹൻദാസും ഗാന്ധിയും	.20.17001300	Reading
-	നാഥുറാം ഗോഡ്സെയും	Text	
38	നാറാണത്ത് പാറ	Text	Group Discussion
39		കവിതാ	Lecturing
	നാറാണത്ത് പാറ	പഠനങ്ങൾ	-
40	യശോധാരയെന്നവൾ	Text	Reading
41	യശോധാരയെന്നവൾ	Text	Group Discussion
42	M000110 ~ 10.00	കവിതാ	Lecturing
	മാമ്പഴപ്പാത	പഠനങ്ങൾ	
43	മാമ്പഴപ്പാത	Text	Reading
44	മാമ്പഴപ്പാത	Text	Group Discussion

45	പഠിച്ച കവിതകൾ ഒരു		Group Discussion				
	അവലോകനം	Text	·				
Module- IV							
46	മലയാള - നൂതന	കവിതാ	Lecturing				
	പ്രവണതകൾ	പഠനങ്ങൾ					
47	ചിന്താഗ്നി	Text	Group Discussion				
48	ചിന്താഗ്നി	Text	Lecturing				
49	ആ പശുകുട്ടിയുടെ മരണം	Text	Group Discussion				
50		കവിതാ	Lecturing				
	ആ പശുകുട്ടിയുടെ മരണം	പഠനങ്ങൾ					
51	തേൾക്കുടം	Text	Lecturing				
52	തേൾക്കുടം	Text	Group Discussion				
53	കൗസല്യ	Text	Group Discussion				
54	കൗസല്യ	Text	Group Discussion				
55	കൗസല്യ	Text	Group Discussion				
56	എന്തു ശുത്തി ഏതു ശുത്തി		Group Discussion				
		Text					
57	എന്തു ശുത്തി ഏതു ശുത്തി		Group Discussion				
F0		Text	Crave Disevesion				
58	സമകാലീക മലയാള കവിത	കവിതാ പഠനങ്ങൾ	Group Discussion				
59	സമകാലീക മലയാള	വഠന്നങ്ങൾ	Group Discussion				
39	കവിത	Text	Group Discussion				
60	സമകാലീക മലയാള	TEXE	Group Discussion				
	കവിത	Text					
61	പഠിച്ച കവിതകൾ ഒരു	കവിതാ	Group Discussion				
	അവലോകനം	പഠനങ്ങൾ					
62	പഠിച്ച കവിതകൾ ഒരു		Group Discussion				
	അവലോകനം	Text					
	Internal Assessment 2						
63	Question paper discussion	Text	Group Discussion				
64	പഠിച്ച കവിതകൾ ഒരു	കവിതാ	Group Discussion				
	അവലോകനം	പഠനങ്ങൾ					
65	പഠിച്ച കവിതകൾ ഒരു	കവിതാ	Group Discussion				
	അവലോകനം	പഠനങ്ങൾ					
66	സംവാദം-	Text	Group Discussion				
67	സെമിനാർ	Text	Presentation				
68	സെമിനാർ	Text	Presentation				
69	സെമിനാർ	Text	Presentation				
70	സെമിനാർ	Text	Presentation				
71	സെമിനാർ	Text	Presentation				
72	Evaluation of the course	Text	Group Discussion				

ASSIGNMENTS

SI no	Date of submission/completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Nongraded etc)
1	By February	മലയാളത്തിലെ തെരെഞ്ഞെടുത്ത കവികളുടെ വിവരണങ്ങൾ
2		സിലബസിൽ പഠിക്കാൻ ഇല്ലാത്ത കവിതകളുടെ ആസ്വാദനം

SEMINAR

	Date submission/completion	of	Topic of semiar & Nature of seminar (Individual/Group – Written/Presentation – Graded or Non-graded etc)
1	By February		പാഠഭാഗങ്ങളുടെ അവതരണം
2			പാഠഭാഗങ്ങളുടെ അവതരണം

Reference:

- 1. സമ്പൂർണ മലയാള സാഹിത്യചരിത്രം എഡിറ്റർ :പന്മന രാമചന്ദ്രൻ നായർ
- 2. മലയാള കവിതാസാഹിത്യ ചരിത്രം ഡോ .എം .ലീലാവതി

PROGRAMME	BACHELOR OF ZOOLOGY	SEMESTER	2
COURSE CODE	U2CRZOO02 ANIMAL DIVERSITY - NON CHORDATA-II	CREDIT	2
HOURS/WEEK	2	HOURS/SEM	36

COURSE OBJECTIVES			
Understand the taxonomic characteristics of non-chordate animals			
Understand the diversity of Phylum Platyhelminthes and Aschelminthes			
Understand the pathogenecity of worms of the phyla Platyhelithes and Aschelminthes			
Understand the taxonomic characteristics of Phylum Annelida			
Understand the diversity of Annelids			
Understand the taxonomic characteristics of Phylum Arthropoda, Phylum Mollusca and Phylum Echinodermata			
Understand the diversity of Phylum Arthropoda, Phylum Mollusca and Phylum Echinodermata			
Understand the evolutionary significance and taxonomic characteristics of Minor Phyla and Phylum Hemichordata			

SESSION	TOPIC	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
	Module I- Phylum Platyhelminthes	3 Hr		
1	Introduction to Phylum Platyhelminthes- General Characteristics and taxonomy	PPT/Lecture		
	Classification upto classes. Class I - Turbellaria. Eg. Planaria. Class II – Trematoda Eg. Fasciola Class III- Cestoda Eg. <i>Taenia</i> saginata.	PPT/Lecture		
3	 Life history of Fasciola hepatica. Platyhelminth parasites of Man and Dog (Schistosoma, Taenia solium, Echinococcus). 	PPT/Lecture		

	Module II. Phylum Aschelminthes. 2h	nrs	
4	Introduction to Phylum Aschelminthes.	PPT/Lecture	
	Eg. Enterobius.		
5	General Topic-	PPT/Lecture	
	Pathogenic nematodes		
	Module III- Phylum Annelida	7 hrs	
6	Introduction to Phylum Phylum Annelida	PPT/Lecture	
7	Classification upto classes.	PPT/Lecture	
,	Class I- Archiannelida Eg.	FF1/Lecture	
	Polygordius		
	Class II – Polychaeta Eg.		
	Chaetopterus		
8	ClassIII- Oligochaeta Eg.	PPT/Lecture	
	Megascolex.	,	
	Class IV - Hirudinea Eg.		
	Ozobranchus		
9	Study of Type - Earthworm	PPT/Lecture	
	Habit habitat, Ecological significance		
10	Earthworm: Nutrition and Digestion	PPT/Lecture	
11	Earthworm: Respiration, Excretion	PPT/Lecture	
12	Earthworm: Reproduction	PPT/Lecture	
	MODULE IV	12 hrs	
	Phylum Arthropoda		
13	Salient features and classification scheme	PPT/Lecture	Video
	of Phylum Arthropoda		
14	Classification up to classes.	PPT/Lecture	
	Introduction to 4 subphyla.		
	1. Sub Phylum - Trilobitomorpha		
4.5	Class - Trilobita	227/	
15	2. Sub Phylum- Onychophora	PPT/Lecture	
	Class – Onychophora, <i>Eg.</i> Peripatus		
	(Mention its affinities). 3. Sub Phylum- Mandibulata		
	Class I – Crustacea, <i>Eg.</i> Sacculina		
16	Class II- Chilopoda, Eq. Centipede	PPT/Lecture	
10	Class III – Diplopoda, Eg. Millipede	111/2000	
1	ICIASS III — DIDIODOUA, Ett. Millioette		
17	Class IV – Insecta, Eg. Dragon fly	PPT/Lecture	
17		PPT/Lecture	
17	Class IV – Insecta, <i>Eg.</i> Dragon fly 4. Sub Phylum - Chelicerata	PPT/Lecture	
17	Class IV – Insecta, <i>Eg.</i> Dragon fly 4. Sub Phylum - Chelicerata Class - Merostomata Eg. Limulus	PPT/Lecture PPT/Lecture	
	Class IV – Insecta, <i>Eg.</i> Dragon fly 4. Sub Phylum - Chelicerata Class - Merostomata Eg. Limulus Class II – Arachnida Eg. Scorpion	·	
	Class IV – Insecta, Eg. Dragon fly 4. Sub Phylum - Chelicerata Class - Merostomata Eg. Limulus Class II – Arachnida Eg. Scorpion Type: Panaeus	·	

20	Penaeus: Respiratory system and	PPT/Lecture	
	Excretory system		
21	Penaeus: Circulatory system	PPT/Lecture	
22	Penaeus: Reproduction	PPT/Lecture	
23	Larval forms of Penaeus	PPT/Lecture	
24	General Topic	PPT/Lecture	
	Vectorial Arthropods		
	Module V- Phylum Mollusca	5hrs	
25	Introduction to Phylum Mollusca	PPT/Lecture	
	General features		
	Classification up to classes		
	Class I- Monoplacophora, Eg. Neopilina		
	Class II- Amphineura, Eg. Chiton		
26	Class III- Gastropoda, Eg. Aplysia	PPT/Lecture	
	Class IV- Scaphopoda, Eg. Dentalium		
27	Class V-Pelecypoda, Eg. Pinctada	PPT/Lecture	Video
	Ciass VI- Cephalopoda, Eg. Sepia	DD=//	
28	Pearl formation	PPT/Lecture	
29	Pearl culture	PPT/Lecture	
	Module VI Phylum Echinodermata	4 hrs	
	Classification upto classes	PPT/Lecture	
2.0	Class I- Asteroidea, Eg. Astropecten		
30	Class II- Ophiuroidea, Eg. Ophiothrix		
2.4	Class III- Echinoidea, Eg. Echinus	PPT/Lecture	
31	Class IV- Holothuroidea, Eg. Holothuria	DDT // :	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Class V – Crinoidea, Eg. Antedon	PPT/Lecture	Video
22	Brief account on larval forms.		
32	Water vascular system in Echinodermates	PPT/Lecture	Vidoo
33	Module VII Minor Phyla	2 hrs	Video
2.4	,	PPT/Lecture	
34	General account and examples	· · · · ·	
35	General account and examples	PPT/Lecture	
	Module VIII- Phylum Hemichordata	1 hr	
36	Phylum Hemichordata	PPT/Lecture	
36	Eg. Balanoglossus (Affinities)		

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Nongraded etc)
1	15/12/2014	Vector Arthropods
2	28/01/2015	Pearl Culture

GROUP ASSIGNMENTS/ACTIVITES – Details & Guidelines

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Nongraded etc)
1	02/02/2015	Parasitic Nematodes

REFERENCES

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2	Dhami. P.S. and Dhami J.K. 1979 Invertebrate Zoology. R. Chand and Co. Delhi.
3	Ekambaranatha Ayyar M. 1990. A Manual of Zoology. Volume I. Invertebrate part-I
	and part-II. S. Viswanathan Printers & Publishers. Pvt.Ltd.
4	Bowler Peter J. and Iwan Rhys Morus. 2005 Making Modern Science: A Historical
5	Survey. College of Chicago Press, Chicago, IL:
6	Ernst Mayr 1982. The Growth of Biological Thought: Diversity, Evolution and
	Inheritance. Published by Harvard College Press.
	Ervin Schrodinger 1944. What is life? Mind and Matter. Cambridge College Press.
7	Jacques Monod 1971. Chance and Necessity: An Essay on the Natural Philosophy of
8	Modern Biology. Vintage Pub. NY
	Kuhn, Thomas. 1996 <i>The Structure of Scientific Revolutions</i> 3rd ed.: College of Chicago
	Press, Chicago, IL
9	Taylor, Green, Stout (2008) Biological Science, Cambridge College, Press, p 951.
1	Thomas, A.P. (Editor) 2009. Biology – Perspectives and Methods. Green Leaf
0	Publishers, Kottayam.

PROGRAMME	BACHELOR OF ZOOLOGY	SEMESTER	2
COURSE CODE AND TITLE	U2PRZOO01 PRACTICAL 1 ANIMAL DIVERSITY – NON CHORDATA I	CREDIT	2
HOURS/WEEK	2	HOURS/SEM	36

COURSE OBJECTIVES

Understand the principles of biological laboratory instruments

Develop skill in using simple as well as compound light microscopes

Apply the skill of drawing using a camera lucida to trace the outline of a microscopic organism

Identify, at least ten specimens, up to its genus by examining its morphology

Understand the approaches and systems of classification as well as modern trends in animal taxonomy

Understand the characteristics and classification of the Kingdom Protista

Understand the Classification of Kingdom Animalia and the characteristics of Mesozoa, Parazoa and Metazoa

Understand the characteristics and diversity of organisms that belong to different invertebrate animal phyla

SESSION	TORIC	LEARNING	VALUE	REMARKS
SESSION	TOPIC	RESOURCES	ADDITIONS	NEIVIANNS
	Practical training in laboratory Procedures and			
	Animal Specimen Identification	1 .	ī	
1	Study of simple and compound light microscopes	Laboratory		
_		Instruments		
2	Camera Lucida (Demonstration)			
3	Simple identification. (All specimens by their			
	generic names and 50% of these by their species name.)			
4	Simple identification. (All specimens by their			
	generic names and 50% of these by their species name.)			
5	Simple identification. (All specimens by their			
	generic names and 50% of these by their species			
	name.)			
6	Simple identification. (All specimens by their			
	generic names and 50% of these by their species			
	name.)			
7	Scientific drawing. Specimen 1 Demonstration			
8	Scientific drawing. Specimen 2 and 3			
9	Scientific drawing. Specimen 4 and 5			
10	Scientific drawing. Specimen 6 and 7			
11	Anatomy – Study of section (Hydra)			
12	Study of larval forms.			
13	Study of larval forms.			
14	Insect identification using key. (Up to Order)			
15	Anatomy:-			
	Study of sections. (Any two)			
	A. Ascaris			
	B. Earthworm			
_	C. Fasciola			
16	Dissections			
	A. Prawn - Nervous system			
17	Dissections			
10	A. Prawn - Nervous system			
18	B. Cockroach - Nervous system			
19	B. Cockroach - Nervous system			
20	Mounting:-			
24	A. Cockroach - Salivary glands		-	
21	Mounting:- Mouth parts - Plant bug/House			
	fly/Mosquito/Cockroach/Honey bee			
22	(Any Two)			
22	Mounting:-	<u> </u>	<u> </u>	

	C. Prawn appendages.		
23	Mounting:-		
23	C. Prawn appendages.		
24	Mounting:-		
	D. Earthworm setae		
25	General identification		
	A. Minimum twenty specimens. (Taxonomic		
	classification)		
26	General identification		
	A. Minimum twenty specimens. (Taxonomic		
	classification)		
28	General identification		
	Taxonomic classification and		
	Ecological/Morphological/Evolutionary/Economic		
	importance		
29	General identification		
	Taxonomic classification and		
	Ecological/Morphological/Evolutionary/Economic		
	importance		
30	General identification		
	Taxonomic classification and		
	Ecological/Morphological/Evolutionary/Economic		
	importance		
31	General identification		
	Taxonomic classification and		
	Ecological/Morphological/Evolutionary/Economic		
	importance		
32	General identification		
	Taxonomic classification and		
	Ecological/Morphological/Evolutionary/Economic		
	importance		
	General identification		
	Taxonomic classification and		
22	Ecological/Morphological/Evolutionary/Economic		
33	importance General identification		
	Taxonomic classification and		
34	Ecological/Morphological/Evolutionary/Economic importance		
34	General identification		
	Taxonomic classification and		
	Ecological/Morphological/Evolutionary/Economic		
35	importance		
33	General identification		
36	Taxonomic classification and		
50	Taxonomic classification and		

Ecological/Morphological/Evolutionary/Economic		
importance		

PROGRAMME	COMPLEMENTARY BOTANY FOR B.SC. ZOOLOGY	SEMESTER	2
COURSE CODE AND TITLE	U2CPBOT2: PLANT PHYSIOLOGY	CREDIT	3
HOURS/WEEK	3	HOURS/SEM	THEORY 17 HRS; PRACTICAL 18 HRS
FACULTY NAME	PRINCY MOL A. P.		

COURSE OBJECTIVES
Know about basic mechanisms of various physiological
processes related to plant life
Understand the vital plant physiological functions such as
photosynthesis and respiration in plants
Know the functions of various plant growth regulators
Know the water relation of plants and its significance.
Understand and carry out experiments related to plant physiology

SESSION	TOPIC	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
	MODULE I			
1	1. Water relations of plants: (a) Physical aspects of water absorption –imbibition, diffusion and osmosis.	Lecture/ Interaction/ PPT	Video, e- resource	
2	 Water relations of plants: Plant cell as an osmotic system. 	Lecture/ Interaction/ PPT	Video, e- resource	
3	Diffusion pressure deficit, water potential, plasmolysis			
4	1. Water relations of plants: (b) Mechanism of absorption of water. Active and passive absorption.	Lecture/ Interaction/ PPT		
5	2. Transpiration – types, structure and mechanism of stomtal transpiration (theories).	Lecture/ Interaction/ PPT	e-resource	
6	Significance and factors affecting transpiration, antitranspirants, Guttation.	Lecture/ Interaction/ PPT		
7	3. Stress Physiology – Water and salt stress, adaptations	Lecture/ Interaction/		

		PPT/		
		Practical		
	CIA I			
	MODULE III			
8	Dormancy of seeds, factors causing dormancy, photoblastisms	Lecture/ Interaction/ PPT	e-resource	
9	Techniques to break dormancy.	Lecture/ Interaction/ PPT/ Assignment		
10	Germination – mobilization of food reserves, physiology of fruit ripening.	Lecture/ Interaction/ PPT/ Assignment	e-resource	
11	Growth and Movements: Sigmoid curve, measurement of growth, regions of growth.	Lecture/ Interaction/ PPT/ Assignment	e-resource	
12	General account of natural growth hormones, synthetic auxins (brief account) effect of ABA.	Lecture/ Interaction/ PPT/ Assignment	e-resource	
13	Senescence and Abscission.	Lecture/ Interaction/ PPT/ Assignment		
14	Tropic and nastic movements with reference to geotropism, phototropism.	Lecture/ Interaction/ PPT/ Assignment	e-resource	
15	Seismonastic and nyctinastic movements.	Lecture/ Interaction/ PPT/ Assignment	e-resource	
16	Photoperiodism	Lecture/ Interaction/ PPT/ Assignment		
17	Vernalization	Lecture/ Interaction/ PPT/ Assignment		
	PRACTICAL			
18	Demonstration experiments	Lab work		

	Determination of osmotic pressure by	
19	plasmolytic method	
20	Demonstration of osmosis using plant membrane	
	CIA - II	_

	Date of		Nature of Assignment
	completion	assignment (Individual- Graded)	
			Collect and present
			additional information
		Diverse topics related to the course	(videos/pictures/diagr
1	18/01/2015	biverse topics related to the course	ams/explanations) in
			the respective topics
			provided

REFERENCES

1	Taiz, L. and Zeiger, E. (2010). Plant physiology (5th Edn). Sinauer Associates Inc., Publishers, U.S.A.	
2	Buchanan, B. B., Gruissem, W. and Jones, R. L. (2014). Biochemistry and molecular biology of plants (2nd Edn.), Wiley Blackwell, New Delhi	
3	Hopkins, W. G. and Huner, N. P. A. (1995). Introduction to plant physiology	
	(4th Edn.) John Wiley & Sons, Inc., New York.	
4	Pessarakli, M. (editor) (2001). Handbook of Plant and Crop Physiology (2nd	
	Edn.), Marel Dekker, Inc., New York	
5	Rolfe, S. and Opik, H. (2005) The Physiology of Flowering Plants (4th Edn.),	
	Cambridge University Press, UK	
6	Salisbury, F. B. and Ross, C. W. (1992). Plant Physiology (4th Edn.).	
	Wadsworth Publishing Company, New York	

PROGRAMME	COMPLEMENTARY CHEMISTRY FOR BACHELOR OF SCIENCE IN ZOOLOGY	SEMESTER	2
COURSE CODE AND TITLE	U2CPCHE2: BASIC ORGANIC CHEMISTRY	CREDIT	2
HOURS/WEEK	2	HOURS/SEM	36

COURSE OBJECTIVES
Understand the basics of organic chemistry.
Understand various purification techniques like solvent
extraction, distillation and crystallization.
Develop an idea on stereochemistry of organic compounds
Explain the basics of organic reaction mechanism.
Discuss the classification and synthesis of polymers.
Discuss the hazards of synthetic polymers/ plastics.
Understand the concept of biodegradable alternatives for
plastics.

SESSION	TOPIC	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
	MODULE I : Purification of Organic Compounds : Dr. June Cyriac(3h)			
1	Purification techniques: Recrystallisation,	Chalk & Board	Q & A	
	sublimation.		Session	
2	General principles of distillation, fractional	Chalk & Board		
	distillation, distillation under reduced pressure			
3	Solvent extraction	Chalk & Board		
	MODULE II: Stereochemistry of Organic Compounds: Ms. Ammu Rosin Jose(11h)			11h)
4	Geometrical isomerism- cis and trans	Chalk & Board		
	configuration, 2-butene, maleic and fumaric			
	acid,			
5	Determination of configuration of cis-trans	Chalk & Board		
	isomers, E and Z configuration.			
6	Optical isomerism- D and L configuration.	Chalk & Board	quiz	
	Optical activity,			
7	Chirality, Stereogenic Centre	Chalk & Board		
8	Enantiomers and diastereomers	Chalk & Board		
9	Optical isomerism in lactic acid and tartaric acid	Chalk & Board	quiz	
10	Racemisation	Chalk & Board		
11	Conformation- Newman projection, Saw-horse	Chalk & Board		
	projection			
12	Conformations of Ethane	Chalk & Board		

13	n - butane	Chalk & Board		
14				
14	Cyclohexane. Chalk & Board			
15	Hybridization and shape of molecules - sp ³ , sp ²	Chalk & Board		
15	and sp, (ethane, ethene, ethyne)	Chair & Board	quiz	
16	Types of reagents - electrophiles, nucleophiles.	Chalk & Board		
17	Types of electron displacement in organic	Chalk & Board		
	molecules			
18	Explanation of the strength of carboxylic and	Chalk & Board		
	halogen substituted acids,			
19	Basic strength of primary, secondary and	Chalk & Board	Q & A	
	tertiary amines.		Session	
20	Types of bond fission- homolytic and	Chalk & Board		
	heterolytic fission.			
21	Reactive intermediates-carbocations-Their	Chalk & Board		
	formation and stability.			
22	Substitution reactions: Nucleophilic substitution	Chalk & Board		
	of alkyl halides- S _N 1 and S _N 2 mechanisms.			
	Factors affecting rate of Substitution reaction of			
	alkyl halide. Nature of alkyl halide, Effect of			
	solvent. Stereochemistry of S_N1 and S_N2 reactions.			
23	Electrophilic substitution in benzene-reaction	Chalk & Board		
23	mechanism. Halogenation, Nitration and			
	Sulphonation			
24	Addition reactions: electrophilic addition.	Chalk & Board		
	Addition of Bromine and Hydrogen halides to			
	ethane, propene and ethyne-the			
	Markwonikoff's rule, Peroxide effect.			
25	Reactive intermediates- free radicals. Their	Chalk & Board		
	formation and stability.			
26	Substitution reactions: Nucleophilic substitution	Chalk & Board		
	of alkyl halides- SN1 and SN2 mechanisms.			
	Factors affecting rate of Substitution reaction of			
	alkyl halide. Nature of alkyl halide, Effect of			
	solvent. Stereochemistry of SN1 and SN2 reactions.			
27	Electrophilic substitution in benzene-reaction	Chalk & Board		
	mechanism. Halogenation, Nitration and			
	Sulphonation			
28		Chalk & Board		
	Addition of Bromine and Hydrogen halides to			
	ethane, propene and ethyne-the			
	Markwonikoff's rule, Peroxide effect.			
29	Elimination reactions: E1 and E2 mechanisms.	Chalk & Board		
	Saytzeff and Hofmann elimination			

	MODULE IV: Natural and Synthetic Polymers: Ms. Ammu Rosin Jose (7h)			
30	Classification of polymers: Natural, synthetic; linear, cross-linked and network; plastics, elastomers, fibres; homopolymers and copolymers.	Chalk & Board	Quiz	
31	Polymerization reactions, Addition Polymerization,	Chalk & Board		
32	Condensation polymerization,	Chalk & Board		
33	Polyethene, polypropylene, PVC, phenol- formaldehyde resins, polyamides (nylons) and polyester.	Chalk & Board		
34	Natural rubber: structure, vulcanization.	Chalk & Board		
35	Synthetic rubbers- SBR, nitrile rubber, neoprene.	Chalk & Board		
36	Biodegradable polymers, environmental hazards caused by polymers, Health problem due to burning plastics.	Chalk & Board		

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc)	
1	04/12/2014	Conformations	
2	28/01/2015	SN1 and SN2 reactions	

GROUP ASSIGNMENTS/ACTIVITES – Details & Guidelines

	Date of	Topic of Assignment & Nature of assignment (Individual/Group –
	completion	Written/Presentation — Graded or Non-graded etc)
1	02/02/2015	Biodegradable Polymers

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- 1. I. L. Finar, Organic Chemistry, Vol. I, 6th edn. Pearson.
- 2 S. M. Mukherji, S. P Singh, R. P Kapoor, Organic Chemistry, Vol.1, New Age International (P) Ltd, 2006
- 3 P.S Kalsi, Stereochemistry Conformation and Mechanism, New Age International Publishers, 2004
- 4 Peter Sykes, A Guide Book to Mechanism in Organic Chemistry, 6th edn. Orient Longman, 1988
- 5 S. M. Mukherji, S.P Singh, Reaction Mechanism in Organic Chemistry, Macmillan, 3rd Edn., 2003
- 6 V. R. Gowariker, Polymer Science, Wiley Eastern.
- 7 K.S Tewari,N K Vishnoi, Text book of Organic Chemistry, Vikas Publishing House Pvt. Ltd.2007.