DEPARTARTMENT OF ENGLISH TENTATIVE LESSION/TEACHING PLAN (BA & BCOM 1st YEAR) SESSION 2020-2021 ENG CE 101

English -1 Core English Compulsory

MONTH	UNIT/TOPIC	WEEK	DAY	CLASSTEST/ ASSIGNMENT (D=Day)	GROUP DISCUSSION/ READINGING SKILL/ PRESENTATION (D=Day)
	Syllabus Introduction/ Pattern of Testing	1 st Week	1		
	Unit- 1 (Poetry: Overview)	1 st Week	2		
JULY	Ozymandias	1 st Week 2 nd Week	3 1		
7	Blow, Blow, Thou Winter Wind	2 nd week	2-3		
	Discussion on Questions	3 rd Week	1		
		3 rd week		2-3 (d)	
		4 th week			1-3 (d)
	Good Morrow	5 th Week	1-3		
	The Man He Killed	1 st Week	1-2		
	Discussion on Questions	1 st Week	3		
	Lines Written in Early Spring	2 nd Week	1-2		
7		2 nd Week	3		3 (d)
AUGUST	Questions	3 rd Week	1	2	3
ΑŬ	Unit II(Short Stories & Essays: Overview)				
	The Parrot in the Cage	4 th Week	1-3		
	Discussion on Questions	5 th Week	1		
		5 th Week			2-3 (d)
~	Dinner for the Boss	1 st Week	1-3		
SEPTEMBER	The Redding Tree	2 nd Week	1-3		
<u>H</u>	- C	3 rd Week	1-3		1-3 (d)
핕		4 th Week	1-3		,
S	Discussion on Questions	5 th Week	1	3 (d)	2
	At the Himalayas	1 st Week	1-3		
OCTOBER	Value of Silence	2 nd Week	1-3		
0CT	Questions	3 rd Week	1-3		
		4 th Week		3 (d)	1-2
		5 th week			Diwali Break

		1 st Week			
	Unit III (Applied Grammar) The use of Articles	2nd Week	1-3		
3ER		3 rd Week		3 (d)	1-2
NOVENBER	The Use of Prepositions	4th Week	1-3		
Ž		5 th Week	1-3		
	House Test	1 st Week			
1BER	Verb Forms	2 nd Week 3 rd Week	1-3 1-3		
DECEMBER		4 th Week		1 (d)	
	Phrasal Verbs	4th Week 5 th Week	2-3		
IRY		2 nd Week		3 (d)	1-2
FEBRUARY	Comprehension	3 rd Week	1-3		
E		4 th Week			1-3 (d)
MARCH		1 st Week 2 nd Week			1-3 (d)

DEPARTARTMENT OF ENGLISH TENTATIVE LESSON/ TEACHING PLAN (BA 1st YEAR) SESSION 2020-21 DSC-1A[ENG DSC 102]

English Literature-1 (Essays, Stories and poems)

MONTH	UNIT/TOPIC	WEEK	DAY
	Syllabus Introduction/ Pattern of Testing	1 st Week	1
	Unit- 1 (Caste/Class: Overview)	1 st Week	2
	Deliverance	1 st Week 2 nd Week	3 1-2
≥	Joothan	2 nd	1-2
JULY		2 nd Week 3 rd week	3
	Kallu	3 rd Week	2-3
	Bossom Friend	4 th week	1-2
	Class Test/Assignment	4th Week	3
	GroupDiscussion/Speaking Skill/Presentation	5 th Week	1-3
-	Unit -II (Gender: Overview)	1 st Week	1
AUGUST	Girl		2
AUC	A Prayer for my Daughter	1 st Week 2 nd Week	3 1-3
	Yellow Fish	3 rd Week	1

	Reincarnation of Captain Cook		2-3
	Highway Stripper	4 th Week	1-2
	Discussion on questions	4 th Week	3
		5 th Week	1-2
	CLASS TEST/ASSIGNMENT	5 th Week	3
	Unit – III (Race:	1 st Week	1
	Overview)		
	Blackout	1st Week	2
	Telephone Conversation	1st Week	3
œ	Harlem	2 nd Week	1
ABE	Still I Rise	2nd Week	2-3
SEPTEMBER	Still I Rise	Ziiu week	2-3
SEP	Discussion on Questions	3 rd Week	1-2
•,	Class Test/Assignment	3rd Week	3
	GroupDiscussion/Speaking	4 th Week	1-3
	Skill/Presentation	ale .	
	GroupDiscussion/Speaking	5 th Week	1
	Skill/Presentation Unit IV (Violence and War:	1 st Week	1
	Overview)	T AAGEK	1
	Conscientious Objector	1st Week	2
	Conscientious Objector	1st week	2
	General, Your Tank is a Powerful	1st Week	3
8	Vehicle		
OCTOBER	The Dogs of Tetwal	2 nd Week	1-3
טכו	A Changista of the December	3 rd Week	1
	A Chronicle of the Peacocks	3 rd Week 4 th week	2-3 1-2
	Discussion on Questions	4 WEEK	3
	Discussion on Questions		
	Class Test/Assignment	2nd Week	1-3
ER	Ghosts of Mrs. Gandhi	3 rd Week	1-3
NOVENBE	GroupDiscussion/Speaking	4 th Week	1-3
8	Skill/Presentation		
Z	Discussion on Questions	5 th Week	1-3
	House Test	1 st Week	
	Hait V / History in a Child P	and w	1
	Unit V (Living in a Globalized World:	2 nd Week	1
	Overview)		
3ER	Toys	2 nd Week	3-2
DECEMBER	,-		_
ECI	Indian Movie, New Jersey	3 rd Week	1-2
	Class Test/Assignment		3
		-46	_
	GroupDiscussion/Speaking	4 th week	1-3
	Skill/Presentation At the Lahore Karhai	5 th week	1-2
	Active Editore Railiai	J WEEK	1 2
R A C R	Class Test/Assignment	2 nd Week	1-3
, _	<u> </u>		

	Class Test/Assignment	3 rd Week	1-2
	The Brand Expands	3 rd Week	3
		4 th Week	1
	Discussion on Questions	4 th Week	2-3
	Class Test/Assignment	1 st Week	1-3
MARCH			

DEPARTARTMENT OF ENGLISH TENTATIVE LESSON/ TEACHING PLAN (BA 1st YEAR) SESSION 2020-2021 DSC-1B [ENG DSC 103]

English Literature-2 (Poems, Short Stories and Essays)

MONTH	UNIT/TOPIC	WEEK	DAY	CLASS TEST/ASSIGNMENT	GROUP DISCUSSION/SPEAKING SKILL/PRESENTATION
	Syllabus Introduction/ Pattern of Testing	1 st Week	1		
חורא	Unit- 1 (Linguistic Plurality within Sufi and Bhakti Traditions: Overview)		2		
	The Mad Lover	1 st Week 2 nd week	3		
	Kafi	2 nd week	2-3		
	Baul Song	3 rd week	1		
	Discussion on Questions	3 rd Week	2-3		
		4 th Week		1-2(d)	3(d)
AUGUST	Unit -II (Language Politics- Hindi and Urdu: Overview)	1 st Week	1		
AŪ	Introduction: A Conspectus in a House Divided	1 st Week	2-3		

	Ghazal	2 nd Week	1		
	Lajwanti	2 nd Week	2-3		
	,	3 rd Week	1		
	Discussion on	3 rd Week	2		
	Questions				
	Hindi	3rd Week	3		
		4 th Week		1-2(d)	
	Unit – III (Tribal	4 th week	3		
	Verse: Overview)				
	An Anthology of Tribal Verse	1 st Week	1-3		
	A Munda Song	2 nd Week	1		
	A Kondh Song	2 nd Week	2		
	Adi Song for the recovery of Lost Health	2 nd Week	3		
	Discussion on Questions	3 rd Week	1	2 (d)	3(d)
3ER	Unit IV (Dalit Voice: Overview)	3 rd Week	1		
SEPTEMBER	Dalit Sahitya: The Historical Background		2-3		
S	Habit	4 th Week	1		
	An Untitled Poem	4 WEEK	2		
	Discussion on		3		
	Questions				
		1 st Week		1(d)	
	karukku	1 st Week	2-3		
BER	Unit V (Writing in English: Overview)	2 nd week	1		
OCTOBER	Mother Tongue	2 nd Week	2		
	kanthapura	2nd week	3		
	Discussion on Questions	3 rd week	1		
	Unit VI: Women Speak – Examples from kannada and Bangla: Overview)	3rd Week	2		
	A Flowering Tree	3 rd Week	3		
	A 14/ '''	4 th Week	1		
	A Women Telling of Rama Tale	5 th Week	2-3		
		1 st Week		1(d)	2(d)

	Unit VII (Literary Cultures- Gujrati andSindhi: Overview)	1st Week	3		
	At The Crossroads of Indic and Iranian Civilizations	2nd Week	1-3		
	Discussion on Questions	3rd Week	1		
		3 rd Week		2-3(d)	
NOVENBER	Unit VIII (Nationalism: Overview)	4 th Week	1		
Ë	Nationalism in West	4 th week	2-3		
8		5 th Week		1-2(d)	
Z		5 th Week	3		3(d)
	House Test	1 st Week			
	Nationalism in India	2 nd Week	1-2		
BER	Discussion on Questions	2 nd Week	3		
DECEMBER		3 rd Week		1-3(d)	
ă		4 th Week			1-3(d)
		5 th week			1-3(d)
		5 th week		1-2(d)	
	Unit IX (Aspects of Civilization: Overview)	2 nd Week		1(d)	
ARY	What is Civilization?	2 nd Week	2-3		
FEBRUARY	Civilization	3 rd Week	1-3		
H	Discussion on Questions	4 th Week	1		
		4 th Week		2-3(d)	
-		1 st Week			1-3(d)
MARCH					

DEPARTARTMENT OF ENGLISH TENTATIVE LESSON/TEACHING PLAN (BA /BSC/BCOM 1st YEAR) SESSION 2019-2020 ENG AECC 104 AECC 2 Writing Skill

MONTH	UNIT/TOPIC	WEEK	DAY	PROJECT WORK/ ASSIGNMENT (D=Day)	READING/SPEAKING (D=Day)
	Syllabus Introduction/ Pattern of Testing	1 st Week	1		
	Diary Writing	1 st Week	2-3		
JULY		2 nd Week			1-3 (d)
	Paragraph Writing	3rd week	1-3		
		4 th week			1-3(d)
		5 th Week		1-3 (d)	
F	Summary/Note Making	1 st Week	1-3		
ins		2 nd Week		1-3 (d)	
AUGUST		3 rd Week			1-3 (d)
_	Formal and Informal	4 th Week	1-3		
	Letter Writing	5 th Week	1-3		
24		1 st Week		1-3 (d)	
18E		2 nd Week			1-3 (d)
E E		3 rd Week			1-3 (d)
SEPTEMBER		4 th Week		1-3 (d)	
S		5 th Week			1-3 (d)
OCTOBER	CV/Resume Writing	1 st Week 2 nd Week	1-3 1-3		
<u> </u>		3 rd week			1-3 (d)
ŏ		4 th Week			1-3(d)
∞		1 st Week	1-3		
BEI	Report Writing	2nd Week	1-3		
EN EN		3 rd Week		1-3(d)	
NOVENBER	Interview/ Feature	4th Week	1-3		
	Articles House Test	5 th Week 1 st Week	1-3		
		2 nd Week			1-3(d)
DECEMBER		3 rd Week			1-3(d)
DECE		4 th Week		1-3(d)	
	Notice Making	5 th Week	1-3		
IRY		2 nd Week		1-3(d)	
FEBRUARY		3 rd Week			1-3(d)
出		4 th Week		1-3(d)	

_	1 st Week	1-3(d)	
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DEPARTARTMENT OF ENGLISH TENTATIVE LESSION/TEACHING PLAN (BA & BCOM 2nd YEAR) SESSION 2020-21 ENG CE 201

English -2 Core English Compulsory

MONTH	UNIT/TOPIC	WEEK	DAY	CLASSTEST/Oral/Written ASSIGNMENT (D=Day)	GROUP DISCUSSION/READING SKILLS/ PRESENTATION (D=Day)
	Syllabus Introduction/ Pattern of Testing	1 st Week	1		
	Unit- 1 (Poetry: Overview)	1 st Week	2		
JULY	A Psalm of Life	1 st Week 2 nd Week	3 1		
	Animals, When I am Dead My Dearest	2 nd week	2-3		
	Discussion on Questions	3 rd Week	1-2		
		3 rd week		3 (d)	
		4 th week			1-3 (d)
	If	5 th Week	1-3		
	The Lake Isle of Innisfree, The Olive Tree	1 st Week	1-3		
	Refugee Mother and Child	2 nd Week	1-3		
AUGUST	Discussion on Questions	3 rd Week	1-2	3 (d)	3
AU	Unit II(Short Stories & Essays: Overview)				
	The Power of Prayer	4 th Week	1-3		
	Discussion on Questions	5 th Week	1		
		5 th Week		2	3 (d)
ER	Vivekananda: The Great Journey to the West	1 st Week	1-3		
■B		2 nd Week	1-3		
SEPTEMBER	More Than 100 million Women are Missing	3 rd Week	1-3		
		4 th Week		3(d)	1-2 (d)

	On The Ignorance of	5 th Week	1-3		
	the Learned	3 Week			
	the Learnea	5 th Week			1-3(d)
		J Week			1 3(4)
85	Simply Living	1 st Week	1-3		
OCTOBER					
ل ا	Towards Creating a	2 nd Week	1-3		
0	Poverty Free World				
	Discussion on	2 nd Week	1	2 (d)	3
	Questions				
	Climate Change and	3 rd week	1-3		
	Human Strategy				
		4 th Week			1-3 (d)
	Unit III (Applied				
	Grammar)				
	,	1 st Week			Diwali Break
	0 111	2 1	4.2		
	One Word Substitution	2nd Week	1-3		
<u>e</u>	Substitution	3 rd Week	1-3		
NOVENBER		4th Week	1-3	1-2	2 (4)
\ \	Words Used as Nouns	5 th Week	1-3	1-2	3 (d)
2	and Verbs	3. Week	1-3		
	House Test	1 st Week			
	Tiouse rest	1 WCCK			
	Transformation	2 nd Week	1-3		
~	(i)nterchange of	3 rd Week	1-3		
18E	Degrees				
DECEMBER					
DEC		4 th Week	1	2(d)	3
	/··\	=th	4.0		
	(ii)Homonyms,	5 th Week	1-3		
	Homographs and Homophones				
>	Tomoundes	2 nd Week	1-3		
FEBRUARY					
] IRU		3 rd Week		1	2-3
FE		4 th Week			1-3
		1 st Week			1-3
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MARCH					
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DEPARTARTMENT OF ENGLISH TENTATIVE LESSON/ TEACHING PLAN (BA 2st YEAR) SESSION 2020-21

DSC-1A[ENG DSC 202/203]

English Literature-1 (Essays, Stories and poems)

MONTH	UNIT/TOPIC	WEEK	DAY
2 7	Syllabus Introduction/ Pattern of	1 st Week	1-3
3.3	Testing		

	1	4 ct say	
	Unit- 1 British Literature and Plays	1 st Week	4-6
	Introduction		
	Merchant of the Venice	1 st Week	1-6
	Character overview	T MEEK	1-0
	ACT I	2 nd Week	1-6
	ACT II	3 rd Week	1-6
	ACT II-III	4 th week	1-6
	ACT III-IV	5 th Week	1-6
	CLASS TEST	5 th Week	1-0
	ACT IV	1 st Week	1-6
	ACTIV	1 WCCK	
	ACT V	2 nd Week	1-6
	Discussion on questions/Class Test	3 rd Week	1-6
AUGUST	Oliver Twist	4 th Week	1
791	Introduction		
N A	Character overview		
	Chapter 1-4	4 th Week	2-6
	·		
	Chapter 5-8	5 th Week	1-6
	Class Test	5 th Week	
	Chapter 9-12	1 st Week	1-3
	Chapter 13-16	1st Week	4-6
	Chapter 17-20	2nd Week	1-3
e:	·		
I BE	Chapter 21-24	2nd Week	4-6
LE P	Chapter 25-28	3rd Week	1-3
SEPTEMBER	Chapter 29-32	3 rd Week	4-6
J	Chapter 33-36	4th Week	1-3
	Chapter 37-40	4 th Week	4-6
	Chapter 41-44	5 th Week	1-6
	Class Test	5 th Week	
	Chapter 45-48	1 st Week	1-6
	Chapter 49-53	2 nd Week	1-6
	Chapter 45-55	Z VVCCN	1-0
OCTOBER	Class Test	2 nd Week	
<u> </u>		and	
)	Unit II (Literary Cross Currents)	3 rd Week	1-6
	Before Dying, Windy Night, Shall I	4 th week	1-2
	Return to this Bengal	4 th	2.6
	Discussion on Questions/Class Test	4	3-6
			Diwali Break
			DIWAII DIEAK
	Forward March, From Some People	2nd Week	1-6
	Laugh, Some People Cry, The Void,		
	So Very Far		
	Enterprise, Night of the Scorpion,	3 rd Week	1-6
	Goodby Party for Miss Pushpa		
~	Hunger, Dhuali, Grandfather, A	4 th Week	1-6
JBE	Country		
KE	Discussion on Questions/ Class Test	5 th Week	1-6
NOVENBER			
_	1		

	House Test	1 st Week	
<u>~</u>	The Holy Panchayat	2 nd Week	1-3
DECEMBER	The Card-Sharpner's Daughter	2 nd Week	4-6
DEC	Toba Tek Singh	3 rd Week 4 th Week	1-6 1-3
	Questions/Squirrel	4th Week	4-6
	The Sacred Duty	^{5th} Week	1-4
	Discussion on Questions/Class Test	5 th week	4-6
	Unit-II Auotobiography	2 nd Week	1-6
	Joothan	3 rd Week	1
ARY	Discussion on Questions	3 rd Week	2
FEBRUARY	Unit-III (Play)	3 rd Week	3-6
89	Silence, The Court is in Session	4 th Week	1-2
_	Discussion on Questions/Class Test	4 th Week	4-6
	Assignment/Presentation	1 st Week	1-6
MARCH			

DEPARTARTMENT OF ENGLISH TENTATIVE LESSON/ TEACHING PLAN (BA 2nd YEAR) SESSION 2020-21 DSC-1A[ENG 204-205]

English Literature-1 (Essays, Stories and poems)

MONTH	UNIT/TOPIC	WEEK	DAY
	Syllabus Introduction/ Pattern of Testing	1 st Week	1
	AEEC/SEC - 1: Creative Writing, Book and Media Reviews Unit- 1 Literary Forms	1 st Week	2-3
JULY	Poetry: Lyric, Sonnet, Epic, Ode, Ballad	2 nd Week	1-3
	Drama: Tragedy and Comedy	3 rd Week	1-3
	Fiction: Short Story and Novel	4 th week	1-3
	Prose: Essay, Periodical, Article	4th Week	1-3
	(NewspaperArticle and Blog) Class test	5 th Week	1-3
	Unit -II Literary Terms	1 st Week	1-3
	Plot, Characterization, Monologue, Soliloquy, Aside	1 Week	
AUGUST	Narrator, Persona, Irony, Metaphor, Simile, Metonymy, Alliteration	2nd Week	1-3
At	Rhyme, Onomatopoeia, Oxymoron, Point of View and Theme	^{3rd} Week	1-3
	Discussion on Questions/Class Test	4 th Week	1-3

	T		
	UNIT-III Reading Literature:		3
	Creativity and Imagination:Gift of	5 th Week	1-3
	the Magi		
	Daffodils	1 st Week	1-3
SEPTEMBER	The Dark Room	2 nd Week	1-3
Σ	Discussion on Questions	3rd Week	3
Ē	UNIT-IV Media Reviews: Book, Film	4 th Week	1-3
E P	and TVProgramme Reviews	5th Week	1-2
	Class Test	5 th Week	3
	AEEC/SEC-2		
	Translation Studies and Principles		
	of Translation		
	(Basic Concepts and Readings)		
	UNIT-I	1 st Week	1-3
	Introduction to Translation:	1 WEEK	1-3
	1. Definition of Translation—		
	Translating from source		
8	language to target language		_
OCTOBER	2. Purpose of Translation—	2 nd Week	1-3
<u> </u>	Translation as a literary,		
0	cultural, and knowledge bridge,		
	self-other interaction		
	UNIT-II	3 rd week	1-3
	Approaches to Translation:		
	1. Domestication: Readability in		
	the target language		
	2. Foreignization: Faithfulness to	4th Week	1-3
	the source language		
	text		
	UNIT-III	1 st Week	1-3
	Methods of Translation:		
	1. Meta-phrase—sense translation		
	based on difference		
	2. Paraphrase—word-to-word	3 rd Week	1-3
	translation based on	3 WCCK	1 3
	Equivalence		
	3. Imitation—regulated		
	transformation		
		4 th Week	1 2
	4. Interpretation and Adaptation 5.	4" Week	1-3
	Reading: "Preface to Ovid's		
e.	Epistles" – (1680) by		
B	John Dryden	_+h	+
/E	Class Test/ Questions	5 th Week	1-3
NOVENBER			
_	ļ., <u>-</u> .	det sa.	
	House Test	1 st Week	
K	UNIT-IV Problems of Translation:	2 nd Week	1-3
DECEMBER	1. Cultural Gap		
	2. Untranslatability	3 rd Week	1-3
٥	3. Translation as appropriation of	4 th Week	1-3
	indigenous languages		

	Class Test/ Discussion on Questions	5 th week	1-3
	Translation in India:1. Definitions:	2 nd Week	1-3
	UNIT-VI	3 rd Week	1-3
>	Translation:	4 th Week	1
FEBRUARY	1. Translating a literary/non-		
l RU	literary passage from		
FEB.	Hindi into English and English into		
	Hindi (about		
	100 words)		
	Discussion on Questions/Class Test	4 th Week	2-3
	Assignment/Presentation	1 st Week	1-3
MARCH			

DEPARTARTMENT OF ENGLISH TENTATIVE LESSON/ TEACHING PLAN (BA 3rdYEAR) SESSION 2020-21

AEEC/SEC-3 TECHNICAL WRITING[ENG AEEC/SEC 301]
AEEC/SEC-4 BUSINESS COMMUNICATION[ENG AEEC/SEC 302]

MONTH	UNIT/TOPIC	WEEK	DAY
	AEEC/SEC-3 Technical Writing ENG AEEC/SEC 301		
	Syllabus Introduction/ Pattern of Testing	1 st Week	1-3
	UNIT-ILanguage Skills: Tenses	2nd Week	1-3
JULY			
_	Voice	3 rd Week	1-3
	Narration and Punctuation	4 th Week	1-3
	Class Test/Assignment/Questions	5 th Week	1-3
	UNIT-II Technical Writing: Definition and Preparation ofManual, Memorandum, Agenda, Minutes of a Meeting, and Powerpoint Presentation	1 st Week 2 nd Week	1-3 1-3
AUGUST	UNIT-III Writing Skills: Basic Research MethodologyProject Report a) Format -Margins, Headings, Indentation, Pagination, Type Face and Fonts, Common Abbreviations	3rd Week	2-3
	 b) Organisation Preparation of the Basic Plan - Ideas and Background Research Outline with Headings and Sub-headings Writing, Reading and Re-writing 	4th Week	1-3

		Te.i	1.0
	Class Tense/Assignment/Presentation	5th week	1-3
	c) Contents	1 st Week	1-3
	Cover and Title Page	2 nd week	1-3
	Table of Contents	3 rd week	1-3
	Preface/Acknowledgement	3 WEEK	1-3
	Abstract/Summary		
	• Introduction		
	Heading and Sub-headings Findings		
	• Findings		
	• Conclusion		
	Recommendations		
	Works Consulted and Cited	-+h •	1.2
	Assignment/Presentation	4 th Week	1-3
	Class Test/Questions	5 th week	1-3
8	ENG AEEC/		
JB	SEC 302		
SEPTEMBER	AEEC/SEC-4 Business Communication		
E	UNIT-I Introducing Business	1 st week	1-3
σ	Communication:	2 nd week	1-3
	Basic Forms of Communication		
	Communication Models and Processes:		
	Linear,		
	Transitional and Interactive		
	Effective Communication	4 th Week	1-3
	Principles of Effective Communication	5 th week	1-2
	·		
	UNIT-II Corporate Communication:		
	Formal and Informal Communication:		
	Grapevine		
	·		
	Class Test/Qestions	5 th Week	3
	Barriers and Gateways to Communication	1 st week	1-3
	Durantina a im Durain and Communication	2 nd Week	1.2
	Practices in Business Communication	2 week	1-3
Ä	Group Discussion		
0	Mock Interview	ardy. I	1.2
OCTOBER	Seminars	3 rd Week	1-3
	Individual and Group Presentations	ath I	
	Questions/Class Test	4 th week	1-3
	Assignment/Presentation	5 th week	1-3
	Assignment/Tresentation	3 WEEK	1-3
		1 st Week	Diwali
			Break
	UNIT-III Writing Skills and Modern	2 nd Week	1-3
	Communication		
	Business Letters and Memo Format		
	Good News and Bad News Letters		
Ä	• Sales Letter		
NOVENBER	Selection Letter	3 rd Week	1-3
≤	Fax, E-mail - Formal and Informal	J WEEK	1-3
NO NO	Video Conferencing		
	- video comerending	<u> </u>	

	Class Test/ Questions	4th Week	1-3
	House Test	1 st Week	
	UNIT-IV (301)	2 nd Week	1-3
8	Data Analysis	3rd Week	
DECEMBER	(a) (i) Qualitative Interpretation	4th Week	
l e	(ii) Quantitative Interpretation		
DĒ	(b) Reading and Interpreting Data:		
	(i) Bar Graphs		
	(ii) Pie Charts	_+b	
	Class Test/Assignment/Presentation	5 th week	1-3
	UNIT-IV Non-Verbal Aspects of	2 nd Week	1-3
	Communication (302)	3rd Week	
₽	Body Language	4th Week	
ĕ	Kinesics		
FEBRUARY	Proxemics		
E	Para Language		
	Discussion on Questions/Class Test	5 th week	1-3
			1
	Assignment/Presentation	1 st Week	1-3
MARCH			
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DEPARTARTMENT OF ENGLISH TENTATIVE LESSON/ TEACHING PLAN (BA 3rd YEAR) SESSION 2020-21

DSC-1ASoft Skills[ENG DSC 303]

DSE-1B Academic Writing and Composition [ENG DSE 304]

MONTH	UNIT/TOPIC	WEEK	DAY
	ENG DSE 303 DSE -1A Soft Skills		
	Syllabus Introduction/ Pattern of	1 st Week	1-2
	Testing		
	A) Listening Skills:	1 st Week	4-6
	Comprehending	2nd Week	1
	Retaining		
	Responding		
	Barriers to Listening		
	Overcoming Barriers to Listening		
JULY	B) Teamwork:	2 nd week	2-6
2	Teamwork involves building	3 rd Week	1-6
	relationships and working		
	with other people using a number		
	of important skills		
	and habits:		
	Working Cooperatively		
	 Contributing to groups with 		
	ideas, suggestions, and		
	effort		

	 Communication (both giving and 	4 th week	1-6
	receiving)		
	 Sense of Responsibility 		
	 Healthy respect for different 		
	opinions, customs, and		
	individual preferences		
	Ability to participate in group		
	decision-making		
	C) Emotional Intelligence:	5th week	1-6
	Characteristics of Emotional		
	Intelligence:		
	 Self-Awareness 		
	 Self-Regulation 		
	Motivation		
	Empathy		
	Social and Cultural Sensitivity		
	Class Test/Question		
	Ways to Improve Emotional	1 st Week	1-6
	Intelligence:	2 nd week	1-6
	Observe how you react to people		
	Look at your work environment		
	Do a self-evaluation		
	Examine how you react to		
	stressful situations		
	Take responsibility for your		
	actions		
	Examine how your actions affect		
	others		
_	D) Adaptability:	3rd Week	1-6
AUGUST	See the big picture		
١٥	Don't be afraid to improvise		
₹	Question the status quo		
	• There's no —I in Adaptability		
	Change your Routine		
	E) Problem Solving:	4 th Week	1-6
	Four basic steps in solving a	5 th week	1-2
	Problem:		
	Defining the Problem		
	Generating Alternatives		
	Evaluating and Selecting		
	Alternatives		
	Implementing Solutions		
	Assignment/Class Test	5 th Week	4-6
	ENG DSE 304 DSE-1B	1 st Week	1
	Academic Writing and		
ER	Composition		
SEPTEMBER	Types of Academic Writing:	1st Week	2-6
TE	• Descriptive		
Ë	Analytical		
S	• Persuasive		
	• Critical		
	1	I	1

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	2. Features and Conventions of	2nd Week	1-6
	Academic Writing:	3 rd week	1-6
	(a) Clear, Concise, Objective,		
	Accurate Writing		
	(b) Grammar: Subject-Verb		
	Agreement, Punctuation,		
	Use of Apostrophe, Common		
	Abbreviations		
	Assignments/Presentation	4 th Week	1-6
	Class Test/Questions	5 th Week	1-6
	(c) Common Errors: Colloquialisms,	1 st Week	1-6
	Jargon, Clichés,		
	Contraction, Repetition, Emotive		
	Language,		
	Spelling and Grammatical Errors		
	3. Process of Academic Writing:	2ndWeek	1-6
	Pre-Drafting – Research and	3rd week	1-6
	Brainstorm		
ER	Drafting – Headings, Sub-headings		
08	and		
OCTOBER	Development of the Idea		
0	Revising – Making Changes,		
	Correcting and		
	Rewriting		
	1		
	Editing – Removing Errors, Proof		
	Readings,		
	Polishing Discussion on Questions/Class Test	4 th	1-6
	Discussion on Questions/ class Test	4*	1-0
	Assignment/Presentation	5 th week	1-6
			Diwali Break
	4. Critical Thinking:	2nd Week	1-6
	Analysis		
	Evaluation		
	Synthesis		
	5. Paragraph Writing:	3 rd Week	1-6
ĸ	Topic Sentence, Elaborative		
NOVEMBER	Sentences –		
E.	Supporting/ Explaining/		
₫	Describing/ Discussing/		
Z	Concluding Sentence,		
	,		
	Transitional Words and	4 th Week	1-6
	Phrases/Assignments		
	Discussion on Questions/ Class Test	5 th Week	1-6
	House Test	1 st Week	
R S C R			
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	F) Interview Skills(303) Preparation Self-evaluation-SWOT Punctuality	2 nd week	1-6
	First Impressions: Professional Dressing, Body Language and Non-verbal Cues • Listening and Speaking • Etiquette and Courtesy	3 rd week	1-6
	Assignment/Presentation	4th Week	1-6
	Class/Questions	^{5th} Week	1-6
	5. Paragraph Writing:	2 nd Week	1-6
FEBRUARY	(304) Topic Sentence, Elaborative Sentences – Supporting/ Explaining/ Describing/ Discussing/ Concluding Sentence, Transitional Words andPhrases	3 rd Week	1-6
	Discussion on Questions/Class Test/Presentation	4 th Week	4-6
MARCH	Assignment/Presentation	1 st Week	1-6

Name of Assistant Professor	Satpal Singh
Class	B.A. 1 st year
Paper	Physical Geography (Theory)
Subject	Geography (2020-21)

Dates	Week	Topics
5-8/8/20	1	Definition and Scope
		Brief Introduction of Solar System
10-	2	Origin of The Earth: Tidal Theory of Jeans and Jeffreys and Big
14/8/20		Bang Theory
		Class Test
1-5/9/20	3	Rocks: Classification and Their Characteristics
7-12/9/20	4	Lithosphere
		Internal Structure of Earth, Theory of Plate Tectonics
		Class Test
5-	5	Weathering- Definition, factors and types
10/10/20		
12-	6	Fluvial Cycle of Erosion – Davis
14/10/20		
		Quiz
2-7/11/20	7	Atmosphere Structure and composition of atmosphere, Heat Balance, Pressure and wind systems
9-	8	Origin of Tropical Cyclones, Monsoon
13/11/20		
		Tutorial and class Test
1-5/12/20	9	Climatic Classification (Koppen).
7-	10	Hydrosphere
12/12/20		Hydrological Cycle, Bottom Relief Features of Pacific Ocean, Tides and Currents.
		Tutorial and Class test
06-2-		Revision for final Examination and tests
21onward		

Name of Assistant Professor	Satpal Singh
Class	B.A. 1 st year
Paper	General Cartography (Practical)
Subject	Geography (2020-21)

Dates	Week	Topics
17- 22/8/20	1	Cartography as a Science of Communication
24- 29/8/20	2	Basics of Map Reading, Map- Definition, Classification and Significance of Map
		Class Test
14- 19/9/20	3	Scale Definition, Importance and Types of Scale, Three exercises in practical record each on Plain, Comparative and Diagonal Scale. (Practicals work of plain scale)
21- 26/9/20	4	Practical work of Comparative and diagonal scale
		Class Test
14- 17/10/20 19- 24/10/20	5	Map projections Criteria for Choice of Projections; Attributes and Properties of: Zenithal Gnomonic Polar Case, Zenithal Stereographic Polar Case, Cylindrical Equal Area, Mercator's Projection and Conical Projection with Two Standard Parallel (Theory)
26- 30/10/20 16- 21/11/20	6	Map projections Criteria for Choice of Projections; Attributes and Properties of: Zenithal Gnomonic Polar Case, Zenithal Stereographic Polar Case, Cylindrical Equal Area, Mercator's Projection and Conical Projection with Two Standard Parallel (Practical)
23- 28/11/20	7	Class Test Representation Of Data Line Graph, Line Graph Practical, Bar Diagram Theory, Bar Diagram Practical, Isopleth Theory
14- 19/12/20 21- 24/12/20	8	Isopleth Practical, Choropleth Map Theory, Choropleth Map Practical, Dot Method Theory & Dot Method Practical
		Class Test
22- 25/2/21	9	Climograph and Hythergraph
		Completion of practical file and Revision for final Examination

Name of Assistant Professor	Satpal Singh
Class	B.A. 2 nd year
Paper	Human Geography (Theory)
Subject	Geography (2020-21)

1 2 3	Introduction Definition, Nature, Major Subfields Major Subfields, Contemporary Relevance of Human Geography Contemporary Relevance of Human Geography Class Test Population World Population Distribution, density
4	Major Subfields, Contemporary Relevance of Human Geography Contemporary Relevance of Human Geography Class Test Population World Population Distribution, density
4	Contemporary Relevance of Human Geography Class Test Population World Population Distribution, density
4	Class Test Population World Population Distribution, density
4	Class Test Population World Population Distribution, density
	Population World Population Distribution, density
	World Population Distribution, density
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	Tutorial
5	World Population Growth
6	Demographic Transition Theory.
	Class Test
7	Space and Society
,	Human Races and its types
8	Classification of Human races (Griffith Taylor) and world
	distribution
	Tutorial
9	Major Religions of the world and distribution
	Major languages of the world and distribution
10	, a garage a second a
	Class Test
11	Settlements
	Types and Patterns of Rural Settlements
	Classification of Urban settlements
	Trends and Patterns of World Urbanization
	Trends and Patterns of World Oroanization
	Revision
	6 7 8 9 10

Name of Assistant Professor	Satpal Singh
Class	B.A. 2 nd year
Paper	Environmental Geography (Theory)
Subject	Geography (2020-21)

Dates	Week	Topics
17-	1	Definition and Scope of Environmental Geography
22/8/20		Meaning and Components of Environment
24-	2	Ecosystem – Concept, components and Functions
29/8/20		
		Tutorial and Class Test
14-	3	Human-Environment Relationship
19/9/20		Environmental Determinism and Possibilism
21-	4	Biomes- Definition Mountain Biome
26/9/20		
		Tutorial
14-	5	Desert Biome
17/10/20		
19-	6	Environmental Problems: Air and water Pollution
24/10/20		Air and water Pollution, Their Causes, Impacts and
27-		Management,
30/10/20		
		Quiz
16-	7	Biodiversity Loss
21/11/20		
23-	8	Environmental Management Initiatives in India
28/11/20		Environmental Protection Act, 1982
		Class Test
14-	9	Environmental Policy of India (2006),
19/12/20		
21-	10	Chipko Movement
24/12/20		
FEB-2021		Revision

Name of Assistant Professor	Satpal Singh
Class	B.A. 2 nd year
Paper	Regional Planning and Devlopment
	(Theory) SEC
Subject	Geography (2020-21)

Dates	Week	Topics
	3days	
10-11/8/20	1	Paper-3 INTRODUCTION
		Concept, Need and Types of regional Planning
1-3/9/20	2	Characteristics and Delineation of Planning Region
		Tutorial
14- 17/9/20	3	Regionalization: Concept, Hill Region: Case study of Himachal Pradesh (Physical and Cultural aspects)
		Class Test
5-8/10/20	4	MODELS FOR REGIONAL PLANNING: Growth Pole Theory
		Tutorial
3-5/11/20	5	Core Periphery Model
9-	6	Regional Development Initiatives
12/11/20		
		Class Test
1-3/12/20	7	Case Studies
		Integrated tribal development programme (ITDP)
7-9/12/20	8	Case Studies
		Damodar Valley Corporation (DVC)
		Class Test
DEC-FEB		Assignments and Revision
20-21		
		Revision

Name of Assistant Professor	Satpal Singh
Class	B.A. 2 nd year
Paper	Remote Sensing & GPS (Practical)
	SEC
Subject	Geography (2020-21)

Dates	Week	Topics	
	3		
	days		
17-20/8/20	1	Remote Sensing: Definition, Development	
24-26/8/20	2	Platforms and Types Practicals	
		Class Test	
14-17/9/20	3	Aerial Photography: Definitions, Principles	
		Types and Geometry of Aerial Photograph with practical	
		Practical work with Aerial Photograph	
21-23/9/20	4	Preparation of Aerial Photograph exercises	
		Class Test	
28-30/9/20	5	Satellite Remote Sensing Principles, EMR Interaction with Atmosphere and Earth Surface	
19-22/10/20	6	Practical work of EMR Interaction with Atmosphere and Earth Surface	
26-28/10/20	7	Explanation of Landsat Series through PPT and practical	
		Class Test	
16-19/11/20	8	IRS Satellite Series and its Sensor with practical demonstration through PPT with practical	
23-26/11/20	9	Bases of Visual Interpretation of Remote Sensing images PPT and Practical	
14-17/12/20	10	Land use/ Land Cover in satellite Imagery with Practical	
21-24/12/20	11	Fundamentals of Global Positioning System (GPS) – Principles and Uses with practical	
23-25/2/21		GPS Practical Sessions	

Name of Assistant Professor	Satpal Singh
Class	B.A. 3rd year
Paper	Geography of India (Theory)
Subject	Geography (2020-21)

Dates	Week	Topics	
5-8/8/20 &	1	Physical Setting	
10-11/8/20		Location, Major physiographic region of India	
1-5/9/20	2	Major physiographic region of India	
7-12/9/20	3	Climate – Factors, Characteristics	
		Soils of India	
		MCQ Test	
5-	4	Population	
10/10/20		Size and Growth since 1901	
		Academic Function	
		Tutorial	
2-7/11/20	5	Population Distribution	
		Population Density	
9-	6	Literacy	
12/11/20		Sex Ratio	
		Tutorial	
		Class Test	
2-5/12/20	7	Settlement System: Rural Settlement, Rural Settlement	
		Types and Patterns	
7-	8	Urban Settlement Types and Pattern.	
12/12/20			
		Class Test	
22-	9	Power (Coal and hydroelectricity),	
24/2/21			
25-	10	Minerals (iron ore and bauxite)	
26/2/21			
1-3/3/21	11	Industries (Cotton Textile, Iron & Steel)	
		End Term Examination	
		End Term Examination	

Name of Assistant Professor	Satpal Singh
Class	B.A. 3rd year
Paper	Disaster Management (Theory)
Subject	Geography (2020-21)

Dates	Week	Topics
17- 22/8/20	1	Introduction and Definition of Disaster Management Concepts.: Hazards, Risk, Vulnerability and Disasters
		Class Test
25- 29/8/20	2	Disasters in India: Causes, Impact, Distribution: Landslide
14- 19/9/20	3	Causes, Impact, Distribution: Earthquake
21- 25/9/20	4	Causes, Impact, Distribution: Cyclone
		Class Test
28- 31/9/20	5	Human Induced Disasters: Causes, Impact, Distribution: Forest Fire
		Tutorial and seminar
19- 24/10/20	6	Causes, Impact, Distribution: Road Accidents
		Class Test
27- 30/10/20	7	Response and Mitigation to Disasters: Mitigation and Preparedness,
16- 21/11/20	8	NDMA and NIDM
23- 28/11/20	9	Indigenous Knowledge and Community-Based Disaster Management.
_		Assignments
21- 24/12/20	10	Do's and Don'ts During Disasters
		Class test
FEB 21		Revision
		End Term Examination

Name of Assistant Professor	Satpal Singh
Class	B.A. 3rd year
Paper	Geographic info. System (Practical)
	SEC
Subject	Geography (2020-21)

Dates	Week	Topics		
	3 days			
10-11/8/20	1	Meaning and Scope of GIS		
1-3/9/20	2	Components of GIS		
7-11/9/20	3	History of Geographic Information System (GIS)		
		Class Test		
5-8/10/20	4	GIS Data Structures: Types (Spatial and Non-Spatial) Practical demonstration		
12-	5	Raster Data Structure Practical work		
13/10/20				
2-3/11/20	6	Vector Data Structure Practical Work		
		Practical work		
		Class Test		
4-7/11/20	7	Spatial referencing system		
9-		Concept of Georeferencing		
13/11/20		Practical demonstration how to georeferenced toposheet in QGIS an open-source GIS software		
		Continuous practices with the software		
1-5/12/20	8	Editing and attribute data integration Theory		
		Practices on QGIS		
10-	9	GIS based Exercises on QGIS GIS software		
12/12/20		Georeferencing		
22-	10	Extraction of Land Use/Land Cover layers of any area and thematic		
24/2/21		mapping Practical		
		Class Test		
		End Term Examination		

Name of Assistant Professor	Satpal Singh	
Class	B.A. 3rd year	
Paper	Field Technique and survey-based project	
_	report (Practical)	
Subject	Geography (2020-21)	

Dates	Week 3 days	Topics
17- 22/8/20 24- 29/8/20	1	Introduction Field Work in Geographical Studies—Role, Value and Ethics of Field-Work, Defining the Field and Identifying the Case Study—Rural /Urban/Physical /Human/ Environmental Field Techniques Merits, Demerits and Selection of the Appropriate Technique;
14- 19/9/20	2	Observation(Participant/Non Participant). Instructions regarding Field work
21- 26/9/20	3	Field work in campus
19- 24/10/20	4	Questionnaires (Open/Closed/ Structured/Non-Structured); Interview with Special Focus on Focused Group Discussions; Space Survey (Transects and Quadrants, Constructing a Sketch).
26- 30/10/20	5	Preparation of Questionnaires Field visit
16- 21/11/20	6	GPS Demonstration
24- 28/11/20	7	report preparation Report Writing
Dec-FEB 20-21	8	report preparation Report Writing
		End Term Examination

Satpal Singh

Assistant Professor

LBSGPGC Saraswatinagar Shimla

हिंदी विभाग, लाल बहादुर शास्त्री राजकीय महाविद्यालय सरस्वती नगर, ज़िला शिमला, हिप्र

हिप्र अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक प्रथम वर्ष (Core Compulsory) विषय - प्रयोजनमूलक हिंदी (HIND101)

मास	इकाई / अध्याय / विषय	सप्ताह / दिन	विशेष
जुलाई	इकाई - 1	पहला सप्ताह	
3	1.1 पत्र लेखन		
	प्रारूपण	दूसरा सप्ताह	
	टिप्पण	तीसरा सप्ताह	
	प्रतिवेदन	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अगस्त	पत्राचार - अर्थ एवं प्रकार	पहला सप्ताह	
	व्यावहारिक, व्यावसायिक एवं	दूसरा सप्ताह	
	सरकारी पत्र लेखन	_	
	अनुवादः परिभाषा, विशेषता एवं	तीसरा सप्ताह	
	उपयोगिता		
	इकाई - 2	चौथा सप्ताह	
	2.1 मुहावरे और लोकोक्तियाँ,		
	अर्थ, परिभाषा		
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
सितंबर	विभिन्न मुहावरे तथा लोकोक्तियाँ	पहला सप्ताह	
	2.2 शब्द- शुद्धि, वाक्य शुद्धि	दूसरा सप्ताह	
	शब्द रूप (तत्सम, तन्द्रव, देशज	तीसरा सप्ताह	
	तथा विदेशी)		
	इकाई - 3	चौथा सप्ताह	
	3.1 पर्यायवाची एवं विलोम शब्द	2 10	
		माह के अंतिम	पुनरावृत्ति व मौखिक
	2 00	दिवस	परीक्षा / ट्यूटोरियल
अक्तूबर	3.2 अनेकार्थी शब्द	पहला सप्ताह	
	वाक्य या वाक्यांश के लिए एक	दूसरा सप्ताह	
	शब्द अथवा अनेक शब्दों के लिए		
	एक शब्द		
	3.3 देवनागरी लिपि अर्थ,	तीसरा सप्ताह	
	नामकरण		
	विशेषताएँ व वैज्ञानिकता	चौथा सप्ताह	

		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
नवंबर	मानकीकरण एवं सुधार के उपाय	पहला सप्ताह	परापा / ट्यूटारिपरा
1990	इकाई - 4	दूसरा सप्ताह	
	4.1 कम्प्यूटर में हिन्दी प्रयोग	प्रतात तानात	
	कम्प्यूटर की संरचना	तीसरा सप्ताह	
	वर्तनी संशोधन एवं इन्टरनेट	चौथा सप्ताह	
	कार्यप्रणाली	पाया सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
दिसंबर	गृह-परीक्षाएँ	पहला सप्ताह	•
	गृह-परीक्षाएँ	दूसरा सप्ताह	
	4.2 पारिभाषिक शब्दावली	तीसरा सप्ताह	
	4.3 कार्यालयी हिन्दी और अनुवाद	चौथा सप्ताह	
	_	माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
फरवरी	विशेषताएँ	दूसरा सप्ताह	
	अनुवाद-प्रक्रिया की समस्याएँ एवं	तीसरा सप्ताह	
	कठिनाइयाँ		
	पाठ्यक्रम की पुनरावृत्ति	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
मार्च	पुराने प्रश्नपत्रों पर चर्चा	पहला सप्ताह	
	पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की तैयारी
	अंतिम परीक्षाएँ		UMIXI
	जातन परापाए		

अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक प्रथम वर्ष (DSC 1A) विषय - हिंदी साहित्य का इतिहास (HIND102)

मास	इकाई / अध्याय / विषय	सप्ताह / दिन	विशेष
जुलाई	विषय और पाठ्यक्रम पर चर्चा	पहला सप्ताह	
	1.1 काल विभाजन एवं नामकरण	दूसरा सप्ताह	
	आदिकालीन काव्य धाराएँ सिद्ध	तीसरा सप्ताह	

	नाथ एवं जैन साहित्य	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
अगस्त	1.2 प्रमुख रासो काव्य	पहला सप्ताह	111111111111111111111111111111111111111
	1.3 आदिकालीन हिन्दी साहित्य की सामान्य विशेषताएँ।	दूसरा सप्ताह	
	इकाई - 2 2.1 भक्ति आन्दोलन : परिचय	तीसरा सप्ताह	
	2.1 भक्ति आन्दोलन : सामाजिक- सांस्कृतिक पृष्टभूमि	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
सितंबर	2.2 प्रमुख निर्गुण कवि	पहला सप्ताह	
	प्रमुख सगुण कवि	दूसरा सप्ताह	
	2.3 भक्तिकाल की सामान्य विशेषताएँ।	तीसरा सप्ताह	
	भक्तिकाल – साहित्य का स्वर्णकाल	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
अक्तूबर	इकाई - 3 3.1 रीतिकाल की ऐतिहासिक पृष्टभूमि	पहला सप्ताह	
	3.2 रीतिबद्ध	दूसरा सप्ताह	
	3.3 रीतिसिद्ध	तीसरा सप्ताह	
	रीतिमुक्त कवि	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
नवंबर	इकाई - 4 4.1 1857 का स्वतंत्रता संघर्ष	पहला सप्ताह	
	हिन्दी नवजागरण	दूसरा सप्ताह	
	भारतेन्दु युगीन साहित्य	तीसरा सप्ताह	
	भारतेन्दु युग के साहित्य की विशेषताएँ व नवजागरण	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
दिसंबर	गृह-परीक्षाएँ	पहला सप्ताह	
	गृह-परीक्षाएँ	दूसरा सप्ताह	

	4.3 मैथिलीशरण गुप्त	तीसरा सप्ताह	
	राष्ट्रीय काव्यधारा के कवि	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
फरवरी	4.2 महावीर प्रसाद द्विवेदी और	दूसरा सप्ताह	
	उनका युग		
	द्विवेदी युग के प्रमुख गद्य लेखक	तीसरा सप्ताह	
	और कवि		
	४.४ छायावाद प्रगतिवाद,	चौथा सप्ताह	
	प्रयोगवाद और नई कविता		
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
मार्च	हिन्दी में गद्य विधाओं का उद्भव	पहला सप्ताह	
	और विकास - उपन्यास, कहानी,		
	नाटक, निबंध		
	पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की
			तैयारी
	अंतिम परीक्षाएँ		

अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक प्रथम वर्ष (DSC 1B) विषय - मध्यकालीन हिंदी कविता (HIND103)

मास	इकाई / अध्याय / विषय	सप्ताह / दिन	विशेष
जुलाई	इकाई – 1	पहला सप्ताह	11111
	1.1 केबीर तथा सूरदास का		
	व्यक्तित्व एवं कृतित्व सामान्य		
	परिचय		
	1.2 कबीर तथा सूरदास की	दूसरा सप्ताह	
	काव्यगत विशेषताएँ		
	1.3 कबीर की साखियाँ -	तीसरा सप्ताह	
	गुरुदेव को अंग दोहा संख्या 3,4		
	कुसंगति को अंग 6,7	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल

अगस्त	कस्तुरिया मृग को अंग ४,९	पहला सप्ताह	
	कबीर के पद - 1,2,15,16	दूसरा सप्ताह	
	1.4 सूरदास के पद - 1, 2, 43,	तींसरा सप्ताह	
	44, 111, 115		
	सूरदास के पद -	चौथा सप्ताह	
	354, 355, 387, 402		
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
सितंबर	इकाई - 2 2.1 तुलसीदास तथा मीराबाई का व्यक्तित्व एवं कृतित्व सामान्य परिचय	पहला सप्ताह	
	2.2 तुलसीदास तथा मीराबाई की काव्यगत विशेषताएँ	दूसरा सप्ताह	
	2.3 बालकांड - 1	तीसरा सप्ताह	
	उत्तरकांड - 96, 106	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
अक्तूबर	विनय पत्रिका पद संख्या - 105 111, 162	पहला सप्ताह	
	2.4 मीराबाई के पद - 5, 17, 18, 19, 22, 23, 25, 41, 73, 158	दूसरा सप्ताह	
	इकाई - 3 3.1 रसखान तथा बिहारी का व्यक्तित्व एवं कृतित्व सामान्य परिचय	तीसरा सप्ताह	
	3.2 रसखान तथा बिहारी की काव्यगत विशेषताएँ	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
नवंबर	3.3 रसखान के पद 1, 2, 3, 4, 5, 6, 7	पहला सप्ताह	
	3.4 बिहारी के दोहे-2, 15, 20, 25, 38, 16, 69, 70, 110, 123	दूसरा सप्ताह	
	इकाई 4 4.1 भूषण तथा घनानंद का व्यक्तित्व एवं कृतित्व : सामान्य परिचय	तीसरा सप्ताह	
	4.2 भूषण तथा घनानंद की	चौथा सप्ताह	

	काव्यगत विशेषताएँ		
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
दिसंबर	गृह-परीक्षाएँ	पहला सप्ताह	नराया / ट्यूटारनरा
	गृह-परीक्षाएँ	दूसरा सप्ताह	
	4.3 शिवराज - भूषण - 2 से 9 तक	तीसरा सप्ताह	
	दोहे		
	4.4 धनानंद के छंद - 1 से 8 तक	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
फरवरी	पाठ्यक्रम की पुनरावृत्ति	दूसरा सप्ताह	
	पाठ्यक्रम की पुनरावृत्ति	तीसरा सप्ताह	
	पाठ्यक्रम की पुनरावृत्ति	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
मार्च	पुराने प्रश्नपत्रों पर चर्चा	पहला सप्ताह	
	पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की तैयारी
	अंतिम परीक्षाएँ		

अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक प्रथम वर्ष (AECC 2) विषय - हिंदी भाषा और सम्प्रेषण (HIND104)

मास	इकाई / अध्याय / विषय	सप्ताह / दिन	, विशेष
जुलाई	इकाई - 1	पहला सप्ताह	19317
ગુતાર	१५७१२ - 1.1 भाषा की परिभाषा, प्रकृति एवं	9001 (19110	
	विविध रूप		
	1.2 हिंदी भाषा की विशेषताएँ	दूसरा सप्ताह	
	क्रिया, विभक्ति, सर्वनाम	तीसरा सप्ताह	
	विशेषण एवं अव्यय संबंधी	चौथा सप्ताह	
	विशेषताएँ		
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अगस्त	1.3 हिंदी की वर्ण-व्यवस्था	पहला सप्ताह	
	स्वर एवं व्यंजन	दूसरा सप्ताह	
	2.1 स्वर के प्रकार हृस्व, दीर्घ तथा	तीसरा सप्ताह	
	संयुक्त		

	2.2 व्यंजन के प्रकार स्पर्श,	चौथा सप्ताह	
	अन्तस्थ, ऊष्म		
	,	माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
सितंबर	अल्प्रप्राण, महाप्राण	पहला सप्ताह	2,
	घोष तथा अघोष	दूसरा सप्ताह	
	इकाई - 3	तींसरा सप्ताह	
	3.1 वर्णों का उच्चारण स्थान :		
	कण्ठ्य, तालव्य, मूर्धन्य,		
	दन्त्य, ओष्ठ्य तथा दन्तोष्ठ्य	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
अक्तूबर	3.2 बलाघात, संगम,	पहला सप्ताह	2,
	अनुतान तथा संधि	दूसरा सप्ताह	
	इकाई - 4	तींसरा सप्ताह	
	4.1 भाषा संप्रेषण के चरण : श्रवण, अभिव्यक्ति,		
	वाचन तथा लेखन	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
नवंबर	4.2 हिंदी वाक्य रचना	पहला सप्ताह	
	वाक्य और उपवाक्य	दूसरा सप्ताह	
	वाक्य भेद	तीसरा सप्ताह	
	वाक्य का रूपान्तर	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
दिसंबर	गृह-परीक्षाएँ	पहला सप्ताह	
	गृह-परीक्षाएँ	दूसरा सप्ताह	
	4.3 भावार्थ और व्याख्या	तीसरा सप्ताह	
	आशय लेखन	चौथा सप्ताह	
	विविध प्रकार के पत्र लेखन	माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
फरवरी	पाठ्यक्रम की पुनरावृत्ति	दूसरा सप्ताह	
	पाठ्यक्रम की पुनरावृत्ति	तीसरा सप्ताह	
	पाठ्यक्रम की पुनरावृत्ति	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
मार्च	पुराने प्रश्नपत्रों पर चर्चा	पहला सप्ताह	. , &

पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की तैयारी
अंतिम परीक्षाएँ		

अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक द्वितीय वर्ष (Core Compulsary) विषय - अनिवार्य हिंदी 'रचना पुंज' (HIND201)

मास	इकाई / अध्याय / विषय	सप्ताह / दिन	विशेष
जुलाई	विषय और पाठ्यक्रम पर चर्चा	पहला सप्ताह	
	इकाई 1	दूसरा सप्ताह	
	1.1 कबीर, घनानंद		
	सूर्यकांत त्रिपाठी निराला तथा	तीसरा सप्ताह	
	बालकृष्ण शर्मा नवीन का सामान्य		
	परिचय		
	1.2 कबीर - पन्द्रह दोहे	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अगस्त	घनानंद - 3 कवित्त, 3 सवैये	पहला सप्ताह	
	1.3 सूर्यकांत त्रिपाठी निराला :	दूसरा सप्ताह	
	तोड़ती पत्थर, विनय		
	बालकृष्ण शर्मा नवीन : विप्लव	तीसरा सप्ताह	
	गायन		
	इकाई - 2	चौथा सप्ताह	
	2.1 सच्चिदानन्द हीरानन्द		
	वात्स्यायन 'अज्ञेय'	2 .0	20
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
सितंबर	गजानन माध्व मुक्तिबोध एवं	पहला सप्ताह	
	सुदामा पाण्डे धूमिल का सामान्य		
	परिचय		
	2.2 अ्ज्ञेय : कित्नी नावों में	दूसरा सप्ताह	
	कितनी बार, दूर्वाचल		

	मुक्तिबोध : मुझे तुम्हारा साथ मिला है, ओ मेघ	तीसरा सप्ताह	
	2.3 धूमिल : दस्तक, रोटी और संसद	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
अक्तूबर	इकाई - 3 3.1 प्रेमचन्द, मोहन राकेश	पहला सप्ताह	
	काशीनाथ सिंह, उदय प्रकाश का सामान्य परिचय	दूसरा सप्ताह	
	3.2 प्रेमचन्द - ईदगाह	तीसरा सप्ताह	
	मोहन राकेश - मलवे का मालिक	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
नवंबर	काशीनाथ सिंह : अपना रास्ता लो बाबा	पहला सप्ताह	
	उदय प्रकाश- छप्पन तोले का करथन	दूसरा सप्ताह	
	इकाई - 4 4.1 महादेवी वर्मा, रामधारी सिंह दिनकर	तीसरा सप्ताह	
	श्रीलाल शुक्ल का सामान्य परिचय	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
दिसंबर	गृह-परीक्षाएँ	पहला सप्ताह	
	गृह-परीक्षाएँ	दूसरा सप्ताह	
	4.2 महादेवी वर्मा : जीने की कला	तीसरा सप्ताह	
	रामधारी सिंह 'दिनकर' : नेता नहीं, नागरिक चाहिए	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
फरवरी	श्रीलाल शुक्ल - अंगद का पाँव	दूसरा सप्ताह	
	पाठ्यक्रम की पुनरावृत्ति	तीसरा सप्ताह	
	पाठ्यक्रम की पुनरावृत्ति	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
मार्च	पुराने प्रश्नपत्रों पर चर्चा	पहला सप्ताह	
	पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की

	तैयारी
अंतिम परीक्षाएँ	

अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक द्वितीय वर्ष (DSC 1C) विषय - आधुनिक हिंदी कविता (HIND202)

मास	इकाई / अध्याय / विषय	सप्ताह / दिन	विशेष
जुलाई	इकाई - 1 1.1 भारतेन्दु हरिश्चन्द्र तथा	पहला सप्ताह	
	अयोध्या सिंह उपाध्याय 'हरिऔध'		
	का व्यक्तित्व एवं कृतित्व : सामान्य		
	परिचय		
	1.2 भारतेन्दु हरिश्चन्द्र तथा अयोध्या सिंह उपाध्याय 'हरिऔध'	दूसरा सप्ताह	
	की काव्यगत विशेषताएँ		
	1.3 भारतेन्दु हरिश्चन्द्र कविताएँ - भारत दुर्दशा, वर्षा विनोद	तीसरा सप्ताह	
	प्रेम मालिका, प्रेमाश्रु वर्षण	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
अगस्त	1.4 अयोध्या सिंह उपाध्याय 'हरिऔध' : कविताएँ - प्रिय प्रवास, दुखिया के आँसू	पहला सप्ताह	
	एक बूँद, काँटा और फूल	दूसरा सप्ताह	
	इकाई - 2	तीसरा सप्ताह	
	2.1 मैथिलीशरण गुप्त तथा	,	
	जयशंकर प्रसाद का व्यक्तित्व एवं		
	कृतित्व : सामान्य परिचय		
	2.2 मैथिलीशरण गुप्त तथा	चौथा सप्ताह	
	जयशंकर प्रसाद की काव्यगत विशेषताएँ		
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
सितंबर	2.3 मैथिलीशरण गुप्त कविताएँ - भारत भारती, मातृभूमि	पहला सप्ताह	
	आशा, सन्देश	दूसरा सप्ताह	

	2.4 जयशंकर प्रसाद कविताएँ - ले चल वहाँ भुलावा देकर, बीती विभावरी जाग री	तीसरा सप्ताह	
	अरुण यह मयुमय देश हमारा, हृदय का सौंदर्य	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
अक्तूबर	इकाई - 3 3.1 सूर्यकांत त्रिपाठी निराला तथा सच्चिदानंद हीरानंद वात्स्यायन 'अज्ञेय' का व्यक्तित्य एवं कृतित्य : सामान्य परिचय	पहला सप्ताह	
	3.2 सूर्यकांत त्रिपाठी निराला तथा सच्चिदानंद हीरानंद वात्स्यायन 'अज्ञेय' की काव्यगत विशेषताएँ	दूसरा सप्ताह	
	3.3 सूर्यकांत त्रिपाठी निराला : कविताएँ - वर दे, वीणा वादिनी वर दे, तोड़ती पत्थर	तीसरा सप्ताह	
	स्नेह निर्झर बह गया है, विधवा	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
नवंबर	3.4 सच्चिदानंद हीरानंद वात्स्यायन 'अज्ञेय' : कविताएँ - उड़ चल, हारिल, कलगी बाजरे की,	पहला सप्ताह	
	साँप, नया कवि : आत्म स्वीकार	दूसरा सप्ताह	
	इकाई - 4 4.1 नागार्जुन तथा नरेश मेहता का व्यक्तित्व एवं कृतित्व : सामान्य परिचय	तीसरा सप्ताह	
	4.2 नागार्जुन तथा नरेश मेहता की काव्यगत विशेषताएँ	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
दिसंबर	गृह-परीक्षाएँ	पहला सप्ताह	
	गृह-परीक्षाएँ	दूसरा सप्ताह	
	4.3 नागार्जुन : कविताएँ - यह	तीसरा सप्ताह	
	दन्तुरित मुस्कान, प्रेत का बयान 4.4 नरेश मेहता : कविताएँ - तीर्थ		

	जल		
		माह के अंतिम	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
		दिवस	परीक्षा / ट्यूटोरियल
फरवरी	पीले फूल कनेर के, मेघ मैं	दूसरा सप्ताह	
	पाठ्यक्रम की पुनरावृत्ति	तीसरा सप्ताह	
	पाठ्यक्रम की पुनरावृत्ति	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
मार्च	पुराने प्रश्नपत्रों पर चर्चा	पहला सप्ताह	
	पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की
			तैयारी
	अंतिम परीक्षाएँ		

अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक द्वितीय वर्ष (DSC 1D) विषय - हिंदी गद्य साहित्य (HIND203)

	ापपप - हिदा गंध ताहिए	_ `	
मास	इकाई / अध्याय / विषय	सप्ताह / दिन	विशेष
जुलाई	विषय और पाठ्यक्रम पर चर्चा	पहला सप्ताह	
	इकाई - 1	दूसरा सप्ताह	
	1.1 जैनेन्द्र कुमार व्यक्तित्व एवं		
	कृतित्व		
	1.2 उपन्यास : त्यागपत्र पाठपरक	तीसरा सप्ताह	
	अध्ययन		
	1.2 उपन्यास : त्यागपत्र पाठपरक	चौथा सप्ताह	
	अध्ययन		
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अगस्त	1.2 उपन्यास : त्यागपत्र पाठपरक	पहला सप्ताह	
	अध्ययन		
	1.2 उपन्यास : त्यागपत्र पाठपरक	दूसरा सप्ताह	
	अध्ययन		
	1.3 त्यागपत्र : तात्विक समीक्षा	तीसरा सप्ताह	

	1.3 त्यागपत्र : तात्विक समीक्षा	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
सितंबर	1.3 त्यागपत्र : तात्विक समीक्षा	पहला सप्ताह	
	1.3 त्यागपत्र : तात्विक समीक्षा	दूसरा सप्ताह	
	इकाई - 2	तीसरा सप्ताह	
	2.1 प्रेमचंद, जयशंकर प्रसाद,		
	यशपाल एवं उषा प्रियंवदा का		
	व्यक्तित्व एवं कृतित्व		
	कहानियों का पाठपरक अध्ययन -	चौथा सप्ताह	
	नमक का दरोगा - प्रेमचंद	2 .0	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अक्तूबर	आकाशदीप - जयशंकर प्रसाद	पहला सप्ताह	
	परदा - यशपाल	दूसरा सप्ताह	
	वापसी - उषा प्रियंवदा	तीसरा सप्ताह	
	2.3 उपर्युक्त कहानियों की	चौथा सप्ताह	
	तात्विक समीक्षा		0 - 30
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
नवंबर	इकाई - 3	पहला सप्ताह	,
	3.1 रामचन्द्र शुक्ल तथा		
	हजारीप्रसाद द्विवेदी का व्यक्तित्व		
	एवं कृतित्व		
	लोभ और प्रीति - रामचन्द्र शुक्ल	दूसरा सप्ताह	
	कुटज - हजारीप्रसाद द्विवेदी	तीसरा सप्ताह	
	3.3 उपर्युक्त निबन्धों की तात्विक	चौथा सप्ताह	
	समीक्षा		
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
दिसंबर	गृह-परीक्षाएँ	पहला सप्ताह	
	गृह-परीक्षाएँ	दूसरा सप्ताह	
	इंकाई - ४	तीसरा सप्ताह	
	4.1 महादेवी वर्मा तथा प्रभा खेतान		
	का व्यक्तित्व एवं कृतित्व		
	चिन्तन के क्षण - महादेवी वर्मा	चौथा सप्ताह	20
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल

फरवरी	संस्कृति और राष्ट्र - प्रभा खेतान	दूसरा सप्ताह	
	4.3 उपर्युक्त निबन्धों की तात्विक	तीसरा सप्ताह	
	समीक्षा।		
	पाठ्यक्रम की पुनरावृत्ति	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
मार्च	पुराने प्रश्नपत्रों पर चर्चा	पहला सप्ताह	
	पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की
			तैयारी
	अंतिम परीक्षाएँ		

अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक द्वितीय वर्ष (SEC - 1) विषय - कार्यालयी हिंदी (HIND204)

_	ापपप - पर्रापाराचा ।हपा		
मास	इकाई / अध्याय / विषय	सप्ताह / दिन	विशेष
जुलाई	विषय और पाठ्यक्रम पर चर्चा	पहला सप्ताह	
	इकाई 1	दूसरा सप्ताह	
	1.1 हिन्दी भाषा के विभिन्न रूप-		
	राष्ट्रभाषा		
	राजभाषा, जनभाषा	तीसरा सप्ताह	
	1.2 शिक्षण माध्यम-भाषा, संचार	चौथा सप्ताह	
	भाषा		
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अगस्त	सर्जनात्मक भाषा, यांत्रिक भाषा	पहला सप्ताह	
	इकाई - 2	दूसरा सप्ताह	
	2.1 राजभाषा का स्वरूप		
	भारतीय संविधान में राजभाषा	तीसरा सप्ताह	
	संबंधी परिनियमावली		
	2.2 राजभाषा के रूप में हिन्दी	चौथा सप्ताह	

		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
सितंबर	हिन्दी के समक्ष व्यावहारिक कठिनाइयाँ एवं संभावित समाधान	पहला सप्ताह	
	इकाई - 3	दूसरा सप्ताह	
	3.1 टिप्पण (नोटिंग)	8000 0400	
	प्रारूपण/आलेखन (ड्राफटिंग)	तीसरा सप्ताह	
	पल्लवन	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अक्तूबर	संक्षेपण	पहला सप्ताह	
	3.2 विभिन्न प्रकार के पत्राचार	दूसरा सप्ताह	
	प्रशासनिक पत्रावली की निष्पादन प्रक्रिया	तीसरा सप्ताह	
	इकाई - ४	चौथा सप्ताह	
	4.1 पारिभाषिक शब्दावली	,	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
नवंबर	4.2 कार्यालयी प्रयोजनों में विभिन्न यांत्रिक उपकरणों का अनुप्रयोग	पहला सप्ताह	•
	कम्प्यूटर	दूसरा सप्ताह	
	लैपटॉप	तीसरा सप्ताह	
	टैबलेट	चौथा सप्ताह	
	CACC	माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
दिसंबर	गृह-परीक्षाएँ	पहला सप्ताह	
	गृह-परीक्षाएँ	दूसरा सप्ताह	
	टेलीप्रिंटर	तीसरा सप्ताह	
	टेलेक्स, वीडियो कान्फ्रेंसिंग	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
फरवरी	पाठ्यक्रम की पुनरावृत्ति	दूसरा सप्ताह	
	पाठ्यक्रम की पुनरावृत्ति	तीसरा सप्ताह	
	पाठ्यक्रम की पुनरावृत्ति	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
मार्च	पुराने प्रश्नपत्रों पर चर्चा	पहला सप्ताह	
	पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की

		तैयारी
	अंतिम परीक्षाएँ	

अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक द्वितीय वर्ष (SEC - 2) विषय - अनुवाद विज्ञान (HIND206)

मास	इकाई / अध्याय / विषय	सप्ताह / दिन	विशेष
जुलाई	विषय और पाठ्यक्रम पर चर्चा	पहला सप्ताह	
	इकाई - 1	दूसरा सप्ताह	
	1.1 अनुवाद का तात्पर्य		
	अनुवाद के विभिन्न प्रकार -	तीसरा सप्ताह	
	भाषान्तरण		
	सारानुवाद तथा रूपान्तरण में साम्य-वैषम्य	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अगस्त	अनुवाद के प्रमुख प्रकार -	पहला सप्ताह	
	कार्यालयी, साहित्यिक		
	ज्ञान-विज्ञानपरक, विधिक, वाणिज्यिक	दूसरा सप्ताह	
	1.2 अनुवाद के शिल्पगत भेद -	तीसरा सप्ताह	
	अविकल अनुवाद (लिटरल)		
	भावानुवाद / छायानुवाद, आशु	चौथा सप्ताह	
	अनुवाद	2 .0	
		माह के अंतिम	पुन्रावृत्ति व मौखिक
•	<u> </u>	दिवस	परीक्षा / ट्यूटोरियल
सितंबर	डबिंग, कम्प्यूटर अनुवाद	पहला सप्ताह	
	इकाई - 2	दूसरा सप्ताह	
	2.1 साहित्यिक अनुवाद के प्रमुख		
	रूप-काव्यानुवाद	-0	
	कथानुवाद, नाट्यानुवाद	तीसरा सप्ताह	
	2.2 अनुवाद में पर्यवेक्षण (वेटिंग)	चौथा सप्ताह	
	की भूमिका		

		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अक्तूबर	इकाई - 3	पहला सप्ताह	
	3.1 वैज्ञानिक तकनीकी शब्दावली का अनुवाद		
	मुहावरों / लोकोक्तियों का अनुवाद	दूसरा सप्ताह	
	संक्षिप्ताक्षरों तथा कूटपदों का अनुवाद	तीसरा सप्ताह	
	आंचलिक शब्दावली का अनुवाद	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
नवंबर	व्यंजनापरक लाक्षणिक पद प्रयोगों का अनुवाद	पहला सप्ताह	
	3.2 अनुवाद की सम्पादन प्रविधि	दूसरा सप्ताह	
	3.3 अनुवादक की अर्हता	तीसरा सप्ताह	
	सफल अनुवाद के अभिलक्षण	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
दिसंबर	गृह-परीक्षाएँ	पहला सप्ताह	
	गृह-परीक्षाएँ	दूसरा सप्ताह	
	इकाई - ४	तीसरा सप्ताह	
	4.1 विश्वभाषाओं की प्रमुख कृतियों के हिन्दी अनुवाद		
	हिन्दी की प्रमुख कृतियों के विश्वभाषाओं में किये गये अनुवाद	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
फरवरी	4.2 भारत में अनुवाद प्रशिक्षण की आवश्यकता व प्रमुख केन्द्र	दूसरा सप्ताह	21
	अनुवाद के राष्ट्रीय प्राधिकरण के गठन	तीसरा सप्ताह	
	4.3 हिन्दी अनुवाद का भविष्य	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
मार्च	पुराने प्रश्नपत्रों पर चर्चा	पहला सप्ताह	,
	पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की तैयारी

अंतिम परीक्षाएँ	

अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक तृतीय वर्ष (SEC 3) विषय - रंग आलेख एवं रंगमंच (HIND301)

मास	इकाई / अध्याय / विषय	सप्ताह / दिन	विशेष
जुलाई	विषय और पाठ्यक्रम पर चर्चा	पहला सप्ताह	
	इकाई 1	दूसरा सप्ताह	
	1.1 नाटक के प्रमुख प्रकार और		
	उनका रचना विधान		
	पूर्णांकी, एकांकी, लोकनाटक	तीसरा सप्ताह	
	प्रहसन, काव्यनाटक, नुक्कड़	चौथा सप्ताह	
	नाटक, प्रतीक नाटक	2 :0	0 30
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
अगस्त	भावनाटक, पाठ्यनाटक, रेडियो	पहला सप्ताह	नरावा / ट्यूटारनरा
911111	नाटक, टीवी नाटक	אויירוט ווייטוני	
	इकाई - 2	दूसरा सप्ताह	
	2.1 हिन्दी नाट्यशास्त्र		
	नाट्य लेखन का इतिहास	तीसरा सप्ताह	
	2.2 हिन्दी नाटक की प्रमुख	चौथा सप्ताह	
	प्रवृत्तियाँ	2 :0	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
सितंबर	सामाजिक, सांस्कृतिक, ऐतिहासिक	पहला सप्ताह	
	समस्यामूलक तथा एबसर्ड नाटक	दूसरा सप्ताह	
	इकाई - 3	तीसरा सप्ताह	
	3.1 हिन्दी के प्रमुख नाटक	_	
	हिन्दी के प्रमुख नाटककार	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अक्तूबर	3.2 हिन्दी रंगमंच के प्रमुख रूप - 1. शौकिया मंच	पहला सप्ताह	
	व्यावसायिक मंच	दूसरा सप्ताह	
	सरकारी मंच	तीसरा सप्ताह	

	3.3 हिन्दी क्षेत्र की प्रसिद्ध	चौथा सप्ताह	
	रंगशालाएं तथा संस्थाएँ		
		माह के अंतिम	पुन्रावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
नवंबर	इकाई - 4	पहला सप्ताह	
	4.1 रंग शिल्प प्रशिक्षण, रंग		
	स्थापत्य		
	रंग सज्जा, रंग दीपन, ध्वनि	दूसरा सप्ताह	
	व्यवस्था एवं प्रसाधन		
	निर्देशन एवं अभिनय रंगमंचीय	तीसरा सप्ताह	
	भाषा की विशेषताएं।		
	4.2 रंग आलेख की प्रविधि	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
दिसंबर	गृह-परीक्षाएँ	पहला सप्ताह	-
	गृह-परीक्षाएँ	दूसरा सप्ताह	
	वस्तुविधान, पात्र परिकल्पना	तीसरा सप्ताह	
	परिस्थिति योजना	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
फरवरी	संवाद लेखन का वैशिष्ट्य	दूसरा सप्ताह	
	रंग निर्देशों की उपयोगिता	तीसरा सप्ताह	
	4.3 रंग समीक्षा का महत्त्व	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
मार्च	पुराने प्रश्नपत्रों पर चर्चा	पहला सप्ताह	
	पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की तैयारी
	अंतिम परीक्षाएँ		

अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक तृतीय वर्ष (SEC - 4) विषय - समाचार संकलन और लेखन (HIND304)

मास	इकाई / अध्याय / विषय	सप्ताह / दिन	विशेष
जुलाई	विषय और पाठ्यक्रम पर चर्चा	पहला सप्ताह	

	इकाई १ १.१ समाचार : अवधारणा,	दूसरा सप्ताह	
	परिभाषा बुनियादी तत्त्व, समाचार और संवाद	तीसरा सप्ताह	
	संरचना (घटक), समाचार मूल्य	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
अगस्त	समाचार के स्रोत	पहला सप्ताह	-
	1.2 समाचार संग्रह पद्धति और लेखन प्रक्रिया	दूसरा सप्ताह	
	सिद्धान्त और मार्गदर्शक बातें	तीसरा सप्ताह	
	विकासशील और जनरुचि की दृष्टियाँ	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
सितंबर	इकाई - 2 2.1 समाचार का वर्गीकरण	पहला सप्ताह	
	खोजी, व्याख्यात्मक	दूसरा सप्ताह	
	अनुवर्तन समाचार	तीसरा सप्ताह	
	2.2 संवाददाता : भूमिका, अर्हता	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
अक्तूबर	श्रेणियाँ, प्रकार्य	पहला सप्ताह	
	व्यवहार संहिता	दूसरा सप्ताह	
	2.3 रिपोर्टिंग के क्षेत्र और प्रकार	तीसरा सप्ताह	
	विधायिका, न्यायपालिका	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
नवंबर	मंत्रालय और प्रशासन्, विदेश, रक्षा	पहला सप्ताह	
	राजनीति, अपराध और न्यायालय	दूसरा सप्ताह	
	दुर्घटना एवं नैसर्गिक आपदा	तीसरा सप्ताह	
	ग्रामीण, कृषि, विकास	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
दिसंबर	गृह-परीक्षाएँ	पहला सप्ताह	, - 0-1111
	गृह-परीक्षाएँ	दूसरा सप्ताह	
	अर्थ एवं वाणिज्य बैठकें एवं	तीसरा सप्ताह	

	सम्मेलन		
	संगोष्ठी, पत्रकार वार्ता, साहित्य एवं संस्कृति	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
फरवरी	विज्ञान, अनुसंधान एवं तकनीकी विषय, खेलकूद, पर्यावरण, मानवाधिकार और अन्य सामाजिक विषयों और क्षेत्रों से सम्बन्धित रिपोर्टिंग	दूसरा सप्ताह	
	इकाई - 3 3.1 इलेक्ट्रॉनिक माध्यमों से प्राप्त समाचारों का पुनर्लेखन । 3.2 लीड : अर्थ, प्रकार, विशेषता, महत्त्व ।	तीसरा सप्ताह	
	इकाई - 4 4.1 शीर्षक: अर्थ, प्रकार, लिखाने की कला महत्त्व 4.2 रिपोर्टिंग कला और विज्ञान के रूप में विश्लेषण, वस्तुपरकता और भाषा-शैली	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
मार्च	पुराने प्रश्नपत्रों पर चर्चा	पहला सप्ताह	-
	पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की तैयारी
	अंतिम परीक्षाएँ		

अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक तृतीय वर्ष (DSC 1A) विषय - लोक साहित्य (HIND305)

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मास	इकाई / अध्याय / विषय	सप्ताह / दिन	विशेष
जुलाई	विषय और पाठ्यक्रम पर चर्चा	पहला सप्ताह	
	इकाई - 1	दूसरा सप्ताह	
	1.1 लोक साहित्य परिभाषा एवं		
	स्वरूप		

	लोक साहित्य के विशिष्ट अध्येता	तीसरा सप्ताह	
	लोक संस्कृति अवधारणा	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अगस्त	लोक संस्कृति और साहित्य	पहला सप्ताह	
	लोक साहित्य के अध्ययन की प्रक्रिया	दूसरा सप्ताह	
	लोक साहित्य के संकलन की समस्याएँ	तीसरा सप्ताह	
	1.2 लोक साहित्य के प्रमुख रूप लोक गीत, लोक नाट्य	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
सितंबर	लोक कथा, लोकगाथा, लोकोक्ति	पहला सप्ताह	
	इकाई - 2 22 2.1 लोकगीत - संस्कार गीत, व्रतगीत	दूसरा सप्ताह	
	श्रम परिहार गीत, ऋतुगीत	तीसरा सप्ताह	
	2.2 लोकनाट्य - रामलीला, स्वांग, यक्षगान	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
अक्तूबर	भवाई, माच, तमाशा, नौटंकी, जात्रा, कथकली	पहला सप्ताह	
	इकाई 3 3.1 लोककथा - व्रतकथा, परीकथा	दूसरा सप्ताह	
	नागकथा, बोधकथा	तीसरा सप्ताह	
	कथानक रूढ़ियाँ एवं अभिप्राय	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
नवंबर	लोककथा निर्माण में अभिप्राय	पहला सप्ताह	
	3.2 लोकगाथा - लोकगाथा की भारतीय परम्परा	दूसरा सप्ताह	
	लोकगाथा की सामान्य प्रवृत्तियाँ	तीसरा सप्ताह	
	लोकगाथा प्रस्तुति	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल

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दिसंबर	गृह-परीक्षाएँ	पहला सप्ताह	
	गृह-परीक्षाएँ	दूसरा सप्ताह	
	इकाई 4	तीसरा सप्ताह	
	4.1 प्रसिद्ध लोकगाथाएँ भरथरी		
	(राजा भर्तृहरि)		
	गूगा गाथा	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
फरवरी	गढ़ मलौण, मदना की हार	दूसरा सप्ताह	
	महासती सूरमी, मोहणा	तीसरा सप्ताह	
	नूरपुर का राजा जगत सिंह, सुन्नी भुंकू, कुंजू चंचलो, रानी सुनैना	चौथा सप्ताह	
	भुंकू, कुंजू चंचलो, रानी सुनैना		
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
मार्च	पुराने प्रश्नपत्रों पर चर्चा	पहला सप्ताह	
	पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की
			तैयारी
	अंतिम परीक्षाएँ		

अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक तृतीय वर्ष (DSC 2A) विषय - छायावादोत्तर हिंदी कविता (HIND306)

मास	इकाई / अध्याय / विषय	सप्ताहं / दिन	विशेष
जुलाई	विषय और पाठ्यक्रम पर चर्चा	पहला सप्ताह	
	इकाई 1	दूसरा सप्ताह	
	1.1 सच्चिदानंद हीरानंद वात्स्यायन		
	'अज्ञेय' तथा गजानून माधव		
	मुक्तिबोध का व्यक्तित्व एवं		
	कृतित्व सामान्य परिचय		
	1.2 सच्चिदानंद हीरानंद वात्स्यायन	तीसरा सप्ताह	
	'अज्ञेय' तथा गजानन माधव		
	मुक्तिबोध की काव्यगत विशेषताएँ		
	1.3 सच्चिदानंद हीरानंद वात्स्यायन	चौथा सप्ताह	
	'अज्ञेय' : कविताएँ - कलगी बाजरे		
	की		

		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अगस्त	यह दीप अकेला	पहला सप्ताह	
	1.4 गजानन माधव मुक्तिबोध: कविताएँ - भूल गलती	दूसरा सप्ताह	
	एक रग का राग	तीसरा सप्ताह	
	इकाई - 2 2.1 नागार्जुन तथा शमशेर बहादुर सिंह का व्यक्तित्व एवं कृतित्व सामान्य परिचय	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
सितंबर	2.2 नागार्जुन तथा शमशेर बहादुर सिंह की काव्यगत विशेषताएँ	पहला सप्ताह	
	2.3 नागार्जुन : कविताएँ - अकाल और उसके बाद कालिदास	दूसरा सप्ताह	
	2.4 शमशेर बहादुर सिंह : कविताएँ - सूना सूना पथ है	तीसरा सप्ताह	
	उदास झरना, वह सलोना जिस्म	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
अक्तूबर	इकाई - 3 3.1 भवानी प्रसाद मिश्र तथा कुँवर नारायण का व्यक्तित्व एवं कृतित्व : सामान्य परिचय	पहला सप्ताह	
	3.2 भवानी प्रसाद मिश्र तथा कुँवर नारायण की काव्यगत विशेषताएँ	दूसरा सप्ताह	
	3.3 भवानी प्रसाद मिश्र : कविताएँ - कहीं नहीं बचे	तीसरा सप्ताह	
	गीत फरोश	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
नवंबर	3.4 कुँवर नारायण : कविताएँ - नचिकेता	पहला सप्ताह	
	इकाई - 4 4.1 सर्वेश्वरदयाल सक्सेना तथा केदारनाथ सिंह का व्यक्तित्व एवं कृतित्व : सामान्य परिचय	दूसरा सप्ताह	

		T 0	
	4.2 सर्वेश्वरदयाल सक्सेना तथा केदारनाथ सिंह की काव्यगत विशेषताएँ	तीसरा सप्ताह	
	4.3 सर्वेश्वरदयाल सक्सेना : कविताएँ - मैंने कब कहा, हम ले चलेंगे	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
दिसंबर	गृह-परीक्षाएँ	पहला सप्ताह	
	गृह-परीक्षाएँ	दूसरा सप्ताह	
	4.4 केदारनाथ सिंह : कविताएँ -	तीसरा सप्ताह	
	रचना की आधी रात		
	फर्क नहीं पड़ता	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
फरवरी	पाठ्यक्रम की पुनरावृत्ति	दूसरा सप्ताह	
	पाठ्यक्रम की पुनरावृत्ति	तीसरा सप्ताह	
	पाठ्यक्रम की पुनरावृत्ति	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
मार्च	पुराने प्रश्नपत्रों पर चर्चा	पहला सप्ताह	
	पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की तैयारी
	अंतिम परीक्षाएँ		

अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक तृतीय वर्ष (GE-1) विषय - आधुनिक भारतीय साहित्य (HIND307)

मास	इकाई / अध्याय / विषय	सप्ताह / दिन	विशेष
जुलाई	विषयं और पाठ्यक्रम पर चर्चा	पहला सप्ताह	
	इकाई - 1	दूसरा सप्ताह	
	1.1 स्वाधीनता संग्राम और		
	भारतीय नवजागरण		
	नवजागरण का भारतीय साहित्य	तीसरा सप्ताह	
	पर प्रभाव		
	1.2 भारतीय साहित्य और	चौथा सप्ताह	
	राष्ट्रीयता	· · · · ·	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अगस्त	इकाई - 2	पहला सप्ताह	
	2.1 महात्मा गांधी का भारतीय		
	साहित्य पर प्रभाव		
	इकाई - 2	दूसरा सप्ताह	
	महर्षि अरविंद का भारतीय		
	साहित्य पर प्रभाव	-1	
	2.2 मार्क्सवाद का भारतीय	तीसरा सप्ताह	
	साहित्य पर प्रभाव अस्तित्त्ववाद का भारतीय साहित्य	 चौथा सप्ताह	
	पर प्रभाव	वाया सप्ताह	
	पर प्रचाप	माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
सितंबर	इकाई - 3	पहला सप्ताह	
	3.1 अनन्तमूर्ति : संस्कार उपन्यास		
	संस्कार उपन्यास	दूसरा सप्ताह	
	संस्कार उपन्यास	तीसरा सप्ताह	
	संस्कार उपन्यास	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अक्तूबर	3.2 रवीन्द्रनाथ ट्रैगोर : गीतांजलि	पहला सप्ताह	
	1. वन्दना, 2. परिचय, 3 वरदान		
	4. अरुण किरण, 5. सागर में	दूसरा सप्ताह	

	ज्वार, ६. रात्रि परीक्षा		
	शरत् सुन्दरी, 8. आषाढ़ की संध्या, 9 दिन ढल गया	तीसरा सप्ताह	
		चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
नवंबर	10. प्रिय व्यथा, 11. निर्झर, 12. अखण्ड आशा	पहला सप्ताह	
	13. प्रकाश पुण्य, 14. रक्षा बन्धन, 15. सम्मान	दूसरा सप्ताह	
	16. वसन्त, 17. अकेला दीप, 18. मैं हार गई	तीसरा सप्ताह	
	मैं हार गई, 19. एक बार, 20. गीत-सुधा	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
दिसंबर	गृह-परीक्षाएँ	पहला सप्ताह	
	गृह-परीक्षाएँ	दूसरा सप्ताह	
	इंकाई - 4 4.1 विजय तेन्दुलकर : घासीराम कोतवाल	तीसरा सप्ताह	
	घासीराम कोतवाल	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
फरवरी	घासीराम कोतवाल	दूसरा सप्ताह	
	घासीराम कोतवाल	तीसरा सप्ताह	
	घासीराम कोतवाल	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
मार्च	पुराने प्रश्नपत्रों पर चर्चा	पहला सप्ताह	
	पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की तैयारी
	अंतिम परीक्षाएँ		

अनंतिम शिक्षण/पाठ योजना सत्र 2020-21 कक्षा - कला स्नातक तृतीय वर्ष (GE-2) विषय - सर्जनात्मक लेखन के विविध क्षेत्र (HIND308)

मास	इकाई / अध्याय / विषय	सप्ताह / दिन	विशेष
जुलाई	विषय और पाठ्यक्रम पर चर्चा	पहला सप्ताह	

	इकाई - 1	दूसरा सप्ताह	
	1.1 रिपोर्ताज़: अर्थ, स्वरूप		
	रिपोर्ताज एवं अन्य गद्य रूप	तीसरा सप्ताह	
	रिपोर्ताज और फीचर लेखन- प्रविधि	चौथा सप्ताह	
		माह के अंतिम	पुनरावृत्ति व मौखिक
		दिवस	परीक्षा / ट्यूटोरियल
अगस्त	1.2 फीचर लेखन : विषय-चयन	पहला सप्ताह	
	सामग्री-निर्धारण, लेखन-प्रविधि	दूसरा सप्ताह	
	सामाजिक, आर्थिक, सांस्कृतिक, विज्ञान से सम्बद्ध विषयों पर फीचर लेखन।	तीसरा सप्ताह	
	पयार्वरण, खेलकूद से सम्बद्ध विषयों पर फीचर लेखन।	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
सितंबर	इकाई - 2 2.1 साक्षात्कार (इण्टरव्यू/भेंटवार्ता)	पहला सप्ताह	
	उद्देश्य, प्रकार	दूसरा सप्ताह	
	साक्षात्कार प्रविधि, महत्त्व	तीसरा सप्ताह	
	2.1 स्तंभ लेखन : समाचार पत्र के विविध स्तंभ	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
अक्तूबर	स्तंभ लेखन की विशेषताएँ	पहला सप्ताह	
	समाचार पत्र और सावधि पत्रिकाओं के लिए समसामयिक, ज्ञानवधर्क और मनोरंजक सामग्री का लेखन	दूसरा सप्ताह	
	सप्ताहांत अतिरिक्त सामग्री और परिशिष्ट	तीसरा सप्ताह	
	इकाई - 3 3.1 दृश्य-सामग्री - छायाचित्र, कार्टून	चौथा सप्ताह	
		माह के अंतिम दिवस	पुनरावृत्ति व मौखिक परीक्षा / ट्यूटोरियल
नवंबर	रेखाचित्र, ग्राफिक्स आदि से	पहला सप्ताह	

	दूसरा सप्ताह	
४.१ बाजार, खेलकूद, फिल्म		
पुस्तक और कला समीक्षा	तीसरा सप्ताह	
4.2 आर्थिक पत्रकारिता	चौथा सप्ताह	
	माह के अंतिम	पुनरावृत्ति व मौखिक
	दिवस	परीक्षा / ट्यूटोरियल
गृह-परीक्षाएँ	पहला सप्ताह	-
गृह-परीक्षाएँ	दूसरा सप्ताह	
खेल पत्रकारिता	तीसरा सप्ताह	
ग्रामीण और विकास पत्रकारिता	चौथा सप्ताह	
	माह के अंतिम	पुनरावृत्ति व मौखिक
	दिवस	परीक्षा / ट्यूटोरियल
फोटो पत्रकारिता	दूसरा सप्ताह	
	तीसरा सप्ताह	
पाठ्यक्रम की पुनरावृत्ति	चौथा सप्ताह	
	माह के अंतिम	पुनरावृत्ति व मौखिक
	दिवस	परीक्षा / ट्यूटोरियल
पुराने प्रश्नपत्रों पर चर्चा	पहला सप्ताह	
पुराने प्रश्नपत्रों पर चर्चा	दूसरा सप्ताह	अंतिम परीक्षाओं की
		तैयारी
अंतिम परीक्षाएँ		
	4.2 आर्थिक पत्रकारिता गृह-परीक्षाएँ गृह-परीक्षाएँ खेल पत्रकारिता ग्रामीण और विकास पत्रकारिता पाठ्यक्रम की पुनरावृत्ति पाठ्यक्रम की पुनरावृत्ति पाठ्यक्रम की पुनरावृत्ति पुराने प्रश्नपत्रों पर चर्चा पुराने प्रश्नपत्रों पर चर्चा	इकाई - 4 4.1 बाजार, खेलकूद, फिल्म पुस्तक और कला समीक्षा तीसरा सप्ताह 4.2 आर्थिक पत्रकारिता चौथा सप्ताह माह के अंतिम दिवस गृह-परीक्षाएँ पहला सप्ताह गृह-परीक्षाएँ पहला सप्ताह खेल पत्रकारिता तीसरा सप्ताह ग्रामीण और विकास पत्रकारिता चौथा सप्ताह माह के अंतिम दिवस फोटो पत्रकारिता दूसरा सप्ताह पाठ्यक्रम की पुनरावृत्ति तीसरा सप्ताह पाठ्यक्रम की पुनरावृत्ति चौथा सप्ताह पाठ्यक्रम दिवस पुराने प्रश्नपत्रों पर चर्चा पहला सप्ताह पुराने प्रश्नपत्रों पर चर्चा दूसरा सप्ताह

B.A 3rd YEAR

SUBJECT-MODERN AND CONTEMPORAY WORLD HISTORY: 1871-1919

UNIT-1	TOPIC	DETAIL	MONTH	REMARKS
	Introductory	Modern and contemporary history: main characteristic Emergence of Italy and Germany as unified nations Europe hegemony and inter -imperialist rivalries Conflicts within Europe Alliance formation, social tension and socialist movements	July-Aug 2019 (8 weeks)	
UNIT-2	The emergence of USA after the civil war	Japan emergence as a world power: modernization and Economic progress under the meji restoration, Sino Japanese War. Nationalist movements in Asia: rise of Kuomintang and the Fall of Manchus and its aftermath Ottoman empire and the Arab world: accession of sultan Abdelhamid and the young ottoman movement young Turk revolution of 1905	Sep-Nov 2019 (10 weeks)	
UNIT-3	The end of the czarist regime in Russia	Russo- Japanese war of 1904-05 and its consequences Revolution of 1905 Towards Bolshevik revolution: February -march revolution The oct revolution of 1917 and the socio-economic foundation of a socialist state	Nov-Feb 2019 (8weeks)	
UNIT-4	The first world war and its aftermath	New grouping of European states Anglo-German rivalries Causes, events and results of the war The war settlements :economic and social consequences	Feb-Mar 2020 (6 weeks)	

B.A 3rd YEAR

SUBJECT--MODERN AND CONTEMPORAY WORLD HISTORY: 1919-1992

UNIT-1	TOPIC	DETAIL	MONTH	REMARKS
	From the peace settlement	Versailles to Locarno treaties, their political consequences	July-Aug	
	to 1939	The league of nation	2019	
		USA and USSR	(8 weeks)	
		Era of the great depression of 1929		
UNIT-2	The end of peace	the second world war: origin	Sep-Nov	
		wartime diplomacy and the defeat of the totalitarian state	2019	
		nationalist movement and decolonization	(9weeks)	
		the emergence of new world order: UNO, aims and		
		objectives		
UNIT-3	The world since 1949	Towards Chinese revolution of 1949	Nov-Dec	
		The cold war and its ideological and political origins	2019	
		Impact of the cold war: Europe, Korea, Vietnam, Cuban	(7 weeks)	
		crises		
		Military alliances: NATO, SEATO, CENTO, warsa pact		
UNIT-4	Social condition and issues	Concept of globalisation	Feb-Mar	
	after the post-colonial world	Feminist and ecological movements	2019	
		The question of human rights	(7 weeks)	
		Non-aligned movement: origin, agenda and achievements		

B.A 2nd^T YEAR

SUBJECT-HISTORY OF INDIA, c1206-1707

UNIT-1	TOPIC	DETAIL	MONTH	REMARKS
	Foundation, expansion and	Expansion iquta system; administrative		
	consolidation of the sultanate of	And economic reforms,	July	
	delhic.13 th to 15 th century.		(2 weeks)	
	Religion political formations	Vijayanagar and Bahmani kingdoms	July	
			(2weeks)	
UNIT-2	Second Afghan state	Administration of Shersha and revenue reforms	Aug (1 week)	
	Socio-religious movement: bhakti	Nathpanthis, popular monotheism and	, , ,	
	and Sufi	Vaishnavism in north India	Aug-Sep	
		Main Sufi Silsila's in India: chisti and	(7weeks)	
		Suhrawardi.		
UNIT-3	Foundation, expansion and	Expansion and consolidation: mansabdari		
	consolidation of the Mughal state,	And jaghirdar; imperial ideology: assessment	Oct-Nov	
	c.16 th to 17 th century.	Of Aurangzeb policies	(8weeks)	
	Art and architecture in medieval	Qutab complex Vijayanagar (hampi)		
	India	Fatehpur Sikri; Mughal miniature paintings.	Dec	
			(3 weeks)	
UNIT-4	17 th century transitions	Marathas Sikh's.		
			Dec	
			(1week)	
	Disintegration and decline of the	Difference theories of Mughal decline (Hindu		
	Mughal empire	reaction, great firm theory, agrarian	Feb-Mar	
		Crises jagirdari crises, region centric	(8 weeks)	
		approach cultural failure and others.		

L.B.S. GOVT.P.G. COLLEGE SARASWATI NAGAR SAWRA SHIMLA (HP)

TEACHING PLAN FOR TNE SESSION OF JULY 2019 TO APRIL 2020

B.A 2nd^T YEAR

SUBJECT-HISTORY OF INDIA ,1707-1950

UNIT-1	TOPIC	DETAIL	MONTH	REMARKS
	India in the 18 th century	Society, economy, polity and culture.	July (1 week)	
	Expansion and consolidation of British power	Bengal maysore and Maratha.	July (1week)	
UNIT-2	Making of a colonial economy	Land revenue settlement: permanent Ryotwari, and mahal Wari. De-industrialisation; commercialisation of agriculture.	July (2week)	
	Socio-religious reforms movement in the 19 th century	Raja ram Mohan Roy and brahma samaj, Dayanand and Arya samaj, Ishwar chander Vidhya Sagar and widow remarriage; Jyotiba Phule and Satya shodhak samaj, Sayed Ahmad khan and Aligarh movement Caste questions: Phule Narayan guru and Ambedkar.	Aug-Sep (8 weeks)	
UNIT-3	Popular resistance	The uprising of 1857 Peasant resistance to colonial rule: Santhal uprising (1856); indigo rebellion (1860); Pabna agrarian league (1873) Deccan riots (1875)	Oct-Nov (5weeks)	
	Nationalist politics,1858-1947	Foundation of the INC Moderates and radicals in the Indian national movement Revolutionary movement for Indian independence ideas and contributions of bhagat Singhs and veer Savarkar. Mahatma Gandhi and mass nationalism Gandhian thought techniques and movements.	Nov-Dec (7 weeks)	
UNIT-4	Growth of communal politics and the partion of India	Resettlement of refugee and issue with Pakistan; integration of the Indian staes: hydrabad Junagarh and Kashmir. Independence Indian constitution and its Main features and the establishment of the republic.	Feb-Mar (5 weeks)	

B.A 1ST YEAR

SUBJECT-HISTORY OF INDIA FROM THE EARLIEST TIMES UPTO C.300CE

UNIT-1	TOPIC	DETAIL	MONTH	REMARKS
	Sources and interpretation	Archaeological source's, religious	July	
		Literature, Secular literature, On Indian	2019	
		resources.	(2 week)	_
	Changing interpretation of early	Indian tradition of history writing, early	July2019	
	Indian history	foreigners, imperialist historiography,	(2week)	
		nationalist approach,		
	0 6 1 101 2 04 101 2	Marxist school of history.		_
	Survey of palaeolithic, Mesolithic and	Palaeolithic beginnings, Mesolithic culture,	Aug	
	Neolithic culture	origin of rock art.	2019	
LINUT 2	Harris Civiliania	O data a la colonida de la frata de la colonida del colonida de la colonida de la colonida del colonida de la colonida del colonida de la colonida de la colonida del colonida de la colonida de la colonida de la colonida del co	(1week)	_
UNIT-2	Harappan Civilization	Origin extent, urban feature, town planning,	Aug 2019	
		economy, society, and religion art, scripts,		
		decline.	(2week)	
	Vedic culture	Polity, economy, society and religion.	Aug2019	
			(1 week)	
	Beginning of the iron age and		Sep]
	megalithic culture		2019	
			(4 week)	
UNIT-3	Emergence of Mahajan pada	Territorial states, rajay ganas/sangha	Oct	
			2019	
			(2week)	
	Magadha expansion	Rise of Magadha empire, cause of Magadha	Oct	
		success	2019	
			(2week)	
	Buddhism and Jainism	Causes of origin, life, doctrine, main	Nov	
		Teaching, growth, comparison of	2019	
		Buddhism and Jainism.	(4week)	
UNIT-4	The Mauryan empire	State and administration, economy	Dec	
		Ashoka's dharma, and architecture.	2019	
			(4week)]
	Post Mauryan age	Sunga, satvahana, kushana: polity, economy	Feb	
		Society art	2020	
			(2week)	1
	Sangam age	Polity economy and society.	Feb-Mar	
			2020	
			(3week)	

L.B.S. GOVT.P.G. COLLEGE SARASWATI NAGAR SAWRA SHIMLA (HP)

TEACHING PLAN FOR TNE SESSION OF JULY 2019 TO APRIL 2020

B.A 1ST YEAR

SUBJECT-HISTORT OF INDIA, C.300-1206

UNIT-1	TOPIC	DETAIL	MONTH	REMARKS
	The Gupta and vakatakas	State and administration, economy, society,	July	
		Religion, art, literature, science and	2019	
		technology, during Gupta period.	(4week)	
UNIT-2	Towards the early medieval	Changes in society, polity, economy culture,	Aug	
		With special reference to pallava sand chola.	2019	
			(4week)	
	Evolution of the political structure	Rashtrakuta, palas, pratihara; economy	Sep	
		religion and and cultural developments.	2019	
			(4week)	
UNIT-3	Harsha and his time	Harsha kingdom, administration, Buddhism	Oct	
		And Nalanda.	2019	
			(4week)	
	The cholas	State and administration, economy, and	Nov	
		culture	2019	
			(2week)	
UNIT-4	Emergence of Rajput states in	Socio-economy foundations	Nov	
	northern India		2019	
			(2week)	
	The Arabs	The Ghaznavid in the northwest	Dec	
		Establishment of the Delhi sultanate;	2019	
		overland	(4week	
		And maritime trade		

B. A2nd YEAR

SUBJECT-HISTORICAL TOURISM

UNIT-1	TOPIC	MONTH	REMARKS
	Defining tourism and heritage.	July 2019	
	Historical tourism, types of tourism, meaning of heritage, art, and,	To Aug 2019	
	architecture		
	During Indus, Mauryan art and architecture, post Mauryan period		
	archecture,	(Last 3 days	
	Archecture during Kishana's, Gupta, Delhi sultanate, architecture during	Per week)	
	Sher shah suri, archecture during Mughal period, colonial archectecture,		
	sculpture in India,		
	History of paintings in India.	_	
	art and architecture in India: an overview		
UNIT-2	Understanding built heritage	Sep 2019 to	
	Temple architecture: kandariya Mahadev temple khajurao stupa	Oct2019	
	architecture: Sanchi, the stupa of bharaut, the stupa of Amravati.		
	Indo-Persian architecture: Taj mahal; red fort, Delhi	(Last 3 days per week)	
UNIT-3	Temple architecture in HP as tourist attractions: a study of chamba	Nov2019 to	
	kangra	Dec2019	
	And mandi.		
	Colonial architecture: Shimla	(Last 3 days per week)	
UNIT-4	Tourism in HP		
		Feb 2020 to	
	Popular tourist destinations: Shimla, kullu-mandiand beyond	Mar2020	
		(Weekly test)	

B.A 2^{ndT} YEAR

SUBJECT-AN INTRODUCTION TO ARCHAEOLOGY

UNIT-	TOPIC	MONTH	REMARKS
1	Archaeology in India: origin and development Managing archaeological evidence: documentation codification, classification and analysis; findings and publications	July 2019 To Aug 2019	
		(Last 3 days Per week)	
UNIT- 2	Discovering human experience through archaeology: environment, technology, subsistence Society, trade and ways of thinking	Sep 2019 to Oct2019 (Last 3 days per	
UNIT-	Numismatics and opigraphic courses; significance and limitation	week)	
3	Numismatics and epigraphic sources: significance and limitation A case study of the coins of audambars and kunidas (from the region of hp)	Dec2019 (Last 3 days per	
		week)	
UNIT- 4	Method of surveying and techniques of excavation A study of the Harapan sites of kalibangan and rakhigarhi A survey of the archaeology sites of himachal Pradesh: a case study of kot kangra or Nagarkot (kangra)	Feb 2020 to Mar 2020 (last 3 days per week)	

B. A3rd YEAR

SUBJECT-INDIAN HISTORY AND CULTURE

UNIT-1	TOPIC	MONTH	REMARKS
	Environment; culture, tradition and practices	July 2019	
	Historical overview	To Aug 2019	
	Oral and codified information on medicinal plants		
	Water and water bodies		
		(Last 3 days	
		Per week)	
UNIT-2	Urbanisation and urbanism	Sep 2019 to	
	Issue of settlements and landscapes	Oct2019	
	Social differentiations		
	Communication networks	(Last 3 days	
		per week)	
UNIT-3	Social inequality and gender;	Nov2019 to	
	States within household: an overview	Dec2019	
	Present context		
	Issue of violence	(Last 3 days	
	Employ, distribution of resources	per week)	
UNIT-4	Cultural heritage	Feb 2020 to	
	Main components	Mar 2020	
	Built heritage	(Last 3 days	
	Fairs and festivals	per week)	
			ļ

B. A3rd YEAR

SUBJECT-INTRODUCTION TO INDIAN ART

UNIT-1	TOPIC	MONTH	REMARKS
	Understanding key terms in art appreciation: art craft, sculpture, relief, painting,	July 2019	
	Miniature, mural, fresco, rangoli, folk art	To Aug 2019	
		(Last 3 days	
		Per week)	
UNIT-2	Indian sculpture Iconography: Hindu, Buddhism, and jaina	Sep 2019 to Oct2019	
		(Last 3 days per week)	
UNIT-3	Archecture	Nov2019	
	Temple archecture: nagara, Dravid and vesara Mosques and mausoleums' complex; Humayun tomb; Jama masjid; Taj mahal	to Dec2019	
	Rock- cut temple of Masrur and colonial architecture in Shimla	(Last 3 days per week)	
UNIT-4	Indian painting: understanding it historically Mural painting: Ajanta	Feb 2020 to	
	Mughal: miniature styles Pahari school of painting: guler-kangra painting	Mar 2020 (Last 3 days per week)	

B. A3rd YEAR

SUBJECT-SOCIAL-RELIGIOUS REFORMS MOVEMENT IN INDIA (19TH AND 20THCENTURY)

UNIT-1	TOPIC	MONTH	REMARKS
	Background and causes of the reform movement Hindu reform movements-nature and significance: brahma samaj, Prathama samaj Arya samaj Ramakrishna movement and theosophical movement.	July 2019 To Aug 2019	
		(Last 3 days Per week)	
UNIT-2	Muslim reform movements-nature and significance: Wahabi /Waliullah, fairazi Ahmadiyya, Aligarh, and deoband school	Sep 2019 to Oct2019	
		(Last 3 days per week)	
UNIT-3	Women and social reforms: probhition of sati, infanticide, child marriage, widow Remarriage, women education and legislative measures for women	Nov2019 to Dec2019	
		(Last 3 days per week)	
UNIT-4	Caste system: movements against caste system and ides of social reforms and Reconstruction with reference to jyotiba Phule, Narayan guru, Gandhi and Ambedkar.	Feb 2020 to Mar 2020 (Last 3 days per week)	

B.A 3RD YEAR

HISTORY OF HIMACHAL PRADESH 1815-1972

UNIT-	TOPIC	DETAIL	MONTH	REMARKS
1				
	Political conditions of the region during Gurkhas invasion	 introduction: himachal hill states in the early 19th century. The Gurkha invasion process of repulsion: British and the Gurkha's Importance of the treaty of segauli. consequences of the anglo-gorkha war of (1814-15) 	July-Aug 2019 (5weeks)	
UNIT- 2	The establishment of the British paramountcy	. Himachal under the British: recognition of the 'hill states' . grant of sands and territorial aggression . British political and administrative policies . the process of penetration and mechanisms of control; . resistance to British rule: struggle of wazir ram Singh pathania and an analysis of his trial	Aug-Sep 2019 (8 week)	
UNIT- 3	The beginning of the uneasy calm	. 1857 and himachal . popular protest and social reform movement in HP from (1839-1948) agitations against the British and the hill rajas the question of beggar, Beth, dhoom, juga, reet and barada-faroshi . praja Mandal movements . dhami goli kand, pajhota andolan and suket satyagraha.	Oct-Dec 2019 (10 week)	

UNIT-	The idea of himachal Pradesh	. The birth of modern himachal, 1948-71: party	Dec -mar	
4		Politics.	2019	
		. Dawn of democratic institutions: chief		
		commissioner	(10 week)	
		. Province, part 'C' state and union territory		
		(legislative		
		Assembly-territorial council-legislative		
		assembly)		
		. contribution of Dr.Y. S Parmar in the		
		development of hill areas.		
		Socio-economic changes in modern himachal		
		. land reform in HP: abolition of big landed		
		estates and land reforms act ,1953 and ceiling		
		Of land holding bill ,1972		

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

LESSON / TEACHING PLAN (Month Wise) FOR THE SESSION: 2021-2022

Class: B.A. 1st Year For The Month: July 2021

Name of Teacher: Asst. Prof. Dr. Rohit Mokta

Subject: Music Vocal

Course Title: <u>Hindustani Music</u> <u>Paper – III Theory (Unit-I)</u> **Course Code:** <u>MUSA201TH</u>

Sr. No.	Name of Unit / Objective	No. Of Classes	No. Of Practical & Tutorials	Assignments / Seminar / Quiz Etc.	Class Test / Mid Term Examination & Term End Examination
1.	General Discussion and Definition of the of the following terms: A. Khyal, Maseetkhani – razakhani gat, Dhrupad,Tarana, Meend, Soot,Murki, kan, Khatka,Krintan, Harmony,Melody.	03	03	Introductive Discussion	_
2.	 B. Comparative study of Bhatkhande & Vishnudigamber Paddhati (Notation System). C. Writing of Talas & Composition in Notation. 	03	03	Assignment	Class Test
3.	D. <u>Detailed study of Ragas:</u> Raga- Maru-Bihag,Malkauns, Vrindavani Sarang Tala- Teental and Dadra.	03	03	Seminar	-
4.	E. Essay, shastriya Sangeet (Classical Music) & Sugam Sangeet (Light Music)	02	04	Quiz Competition	-

Name of Teacher: Asst. Prof. Dr. Rohit Mokta	Signature
Name of Teacher. Asst. Fior. Dr. Romit Worta	Jigilatule

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

LESSON / TEACHING PLAN (Month Wise) FOR THE SESSION: 2021-2022

Class: B.A. 2nd Year For The Month: July 2020

Name of Teacher: Asst. Prof. Dr. Rohit Mokta Subject: Music Vocal

Course Title: Hindustani Music Paper – III Practical (Unit-II) Course Code: MUSA202PR

Sr. No.	Name of Unit / Objective	No. Of Classes	No. Of Practical & Tutorials	Assignments / Seminar / Quiz Etc.	Class Test / Mid Term Examination & Term End Examination
1.	Practical Class: 1. Raag Maru – Bihag . Alaap and Maseet Khani gat with taan and tode.	06	06	Introduction with students, Demonstration.	_
2.	B. Raag Maru – Bihag Razakhani Gat with taan and tode.	06	06	Lecture Cum Demonstration.	Performance (Stage)
3.	Raag Malkauns. Complete Introduction and razakhani gat in teen taal.	06	06	Demonstration	_
4.	Revision and Practice of the all.	06	06	Sitar / Singing Competition in Class Room.	_

Name of Teacher: Asst. Prof. Dr. Rohit Mokta	Signature
Designation: Assistant professor Music (v)	

 ${\bf LESSON\,/\,TEACHING\,PLAN\,(Month\,Wise)\,FOR\,THE\,SESSION:\,\underline{2021-2022}}$

Class: B.A. 3rd Year. For The Month: July 2021

Name of Teacher: Asst. Prof. Dr. Rohit Mokta Subject: Music Vocal

Course Title: Hindustani Music Paper – I(DSE – 1A) **Course Code:** MUSA307 TH

Sr. No.	Name of Unit / Objective	No. Of Classes	No. Of Practical & Tutorials	Assignments / Seminar / Quiz Etc.	Class Test / Mid Term Examination & Term End Examination
1.	Essay on the following Topics: A. Folk Music of Himachal Pradesh. B. Modern trends in Music. 2. The relevance of time theory in Hindustani Classical Music. 3. Biographies of Musicians: A. Pt. Bheem Sen Joshi B. Lata Mangeshkar	06	01	Introductive Discussion	_
2.	Study of the following: 2. Study of Gram, Murchanna and Jati as treated in Natya shastra and its relevance in present context. 3. Musical reference found in Ramayana and Mahabharata.	06	01	Assignment	Class Test
3.	Discuss the following: a. Avirbhav and Tirobhav b. Gayak ke Gun Avagun c. Margi – Desi d. Taal and its 10 Prans.	06	01	Seminar	_
4.	 Basic knowledge of stringed instrument used in Hindustani Classical Music. Write the Theka of Teen taal along with dugun, teegun and Chaugun. Make a diagram of Taanpura / Sitar and level its sections. 	06	01	Quiz Competition	Class Test –

Name of Teacher: Asst. Prof. Dr. Rohit Mokta	Signature
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LESSON / TEACHING PLAN (Month Wise) FOR THE SESSION: 2021-2022

Class: B.A. 3rd Year. For The Month: July 2021

Name of Teacher: Asst. Prof. Joginder Singh

Subject: Music Vocal

Course Title: Hindustani Music DSE – 1A Practical (Unit-2) Course Code: MUSA 308PR

Sr. No.	Name of Unit / Objective	No. Of Classes	No. Of Practical & Tutorials	Assignments / Seminar / Quiz Etc.	Class Test / Mid Term Examination & Term End Examination
1.	Practical Raag: 1. Todi Alaap, Jor , Jhalla, Maseetkhani gat, Razakhani gat with taan and thode.	06	06	Introduction with students, Demonstration.	_
2.	Revision and Practice of the all.	06	06	Lecture Cum Demonstration.	Performance (Stage)
3.	Practical Raag: 2. Bhairavi Complete Introduction and razakhani gat in teen taal.	06	06	Demonstration	-
4.	Practical Raag: 3. Darbari - Kanahda Complete Introduction and razakhani gat in Ek Taal.	06	06	Sitar / Singing Competition in Class Room.	Performance (Stage)
5.	Practical Taal: Teentaal,Ektaal,Chautal,Dhamar Roopak,Keherva and Dadra taal.	06	06	Demonstration	-

Name of Teacher: Asst. Prof. Dr. Rohit Mokta	Signature
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Lecture Plan (2020-21)

Lecture Plan BA I Year (July-2020) Introduction to Philosophy – 1 (Paper I) PHIL-A-101 cc

Units	Contents	Week wise Distribution	Remarks
Unit I	Definition and Meaning of Philosophy	I st week of July Tutorial : Assignment	
	Nature – Philosophy as Method Philosophy as Activity	2 nd week of July Tutorial : Class Test	
	Scope Relevance (Uses)	3 rd week of July Tutorial : Assignment	
	Its relation with Science, Religion and Common Sense	4 th week of July Tutorial: Quiz 1 st week of August Tutorial: Seminar	
Unit II	Branches of Philosophy Metaphysics and its main problems Epistemology and its main Problems	2 nd weekof August Tutorial : Seminar 3rd week of August	Expect to complete 50% syllabus by last week of August
	Axiology and its main Problems	Tutorial : Class Test 4 th week of August Tutorial : Ppt Presentation	
Unit III	Plato Main Dialogues Theory of Knowledge Doctrine of Ideas	1 st week of September Tutorial: Ppt Presentation 2 nd week of September	
		Tutorial: Class Test	
Unit IV	Aristotle Criticism of Plato's Doctrine of Ideas	3 rd & 4 th week of September Tutorial : Group Discussion	3 rd week of October - Revision
	Causality/Change	1 st week of October Tutorial: Assignment	
	Matter and Form	2nd week of October Tutorial : Quiz	

Lecture Plan BA I Year (Paper II) Indian Philosophy-1 PHIL-A-102 cc

Units	Contents	Week wise Distribution	Remarks	
Unit I	Meaning of Darshana Origin and Nature of Darshana	3 rd & 4 th week of October Tutorial : Assignment		
	Classification of Indian Philosophy	1 st week of November Tutorial : Class Test		
	Characteristics of Indian Philosophy Distinction between Indian Philosophy and Western Philosophy	2ndweek of November Tutorial : Assignment		
Unit II	Vedic Darshana – Rta, Rna	3 rd week of November Tutorial: Quiz	Expect to complete 50%	
	NasdiyaSukta Purusha Sukta Hiranyagarbha Sukta	4 th week of November Tutorial : Seminar 1st week of December Tutorial : Class Test	syllabus by 1stweek of December	
Unit III	Upanishads Brahman, Atman and their non identity	3 rd & 4th week of December Tutorial : Ppt Presentation	House exam likely to be held in 2 nd week of December	
Unit IV	SrimadBhagvadGita Jnana – Yoga	2 nd week of February Tutorial: Class Test & Assignment		
	Karma – Yoga	3 rd week of February Tutorial: Group Discussion	Revision in the month of March	
	Bhakti – Yoga Sthit Prajya	4 th week of February Tutorial: Quiz	month of March	

Lecture Plan BA II Year (July-2020) Indian Philosophy -2 (Paper I) PHIL 203cc

Units	Contents	Week wise Distribution	Remarks
Unit	Prama, Aprama and Six Pramanas	1 st & 2 nd week of July	
I	-	Tutorial: Assignment	
		Class Test	
	Ek Tatvavad, Dvitatvavadqa& Bahu tatvavad	3 rd week of July	
		Tutorial :Assignment	
Unit	Convolto	4 th week of July	Expect to
II	<u>Carvaka</u> Epistemology	1 st & 2 nd week of August	Expect to complete 50%
11	Metaphysics	Tutorials :Class Test	syllabus by 2 nd
	Ethics	Seminar	week of August
	Eulies	Seminar	week of August
Unit	Jainism	3 rd & 4 th week of August	
III	Nature and Classification of Reality	1 st week of September	
111	Nayavad Nayavad	Tutorial: Ppt Presentation	
	Syadvad	Class Test	
	Anekantayad	Class Test	
	Kaivalya		
Unit	Buddhism	2 nd & 4 th week of September	
IV	Four Noble Truths	1st & 2nd week of October	
	Eight fold path	Tutorial: Assignment	Revision
	Pratityasamutpad	Group Discussion	
	Ksanikavad	Quiz	
	Anatmayad		
	Nirvana		

Lecture Plan BA II Year (Paper II) Indian Philosophy -3 PHIL-A-204cc

Units	Contents	Week wise Distribution	Remarks
UNIT I	Nyaya Pramanas :Pratyaksha, Anumana, Sabda,Upamana, Arthapatti, Abhava	3 rd & 4 th week of October 1 st week of November Tutorial : Assignment Class Test	
	Vaishesika :Saptpadartha : Dravya, Guna, Karma, Samanya, Vishesa,Samvaya, Abhava	2 nd & 3 rd week of November Tutorial : Class Test	
UNIT II	Samkhya :Purusha,Prakriti, Satkaryavada, Vikasvada, Kaivalya Yoga :Citta, Chittavritti, Kleshas, Samadhi, Ashtanga Yoga, Kaivalya	4th week of November 1st week of December Tutorial: Seminar 3rd & 4th week of December Tutorial: Quiz	Expect to complete 50% syllabus by 4 th week of December House Exam likely to be held in 2 nd week of December
UNIT III	Mimansa : Dharma, Apporva, Sabadartha, PramanaVichar Advaita Vedanta of Samkaracharya : Criteria of Sat- Asat	1st & 2nd week of February Tutorial: Ppt Presentation 3rd & 4th week of February Tutorial: Group Discussion	
UNIT IV	Vishishtadvaita of Ramanuja: Brahman,Maya, Jagat, Prapti, Mukti	1 st 2 nd & 3 rd week of March Tutorial : Assignment Class Test Quiz	Revision

Lecture Plan BA III (July-2020) Western Philosophy- 1 (Paper I) PHIL-A 309 DSE

Units	Contents	Week wise Distribution	Remarks
Unit I	Theories of Truth	1 st & 2 nd week of July	
	Coherence	Tutorial : Assignment	
	Correspondence	3 rd week of July Tutorial : Class Test	
	Pragmatic	4 th week of July Tutorial : Assignment	
Unit II	Theories of Knowledge Rationalism	1 st week of August Tutorial: Quiz	
	Descartes	2 nd week of August Tutorial : Seminar	Expect to
	Spinoza	3 rd week of August Tutorial : Class Test	complete 50% syllabus by 4 th
	Leibnitz	4 th week of August Tutorial : Ppt Presentation	week of August
Unit III	Empiricism	1 st week of September Tutorial: Ppt Presentation	House exam
	Locke	2 nd week of September Tutorial: Quiz	likely to be held in 3 rd week of
	Berkeley	4 th week of September Tutorial: Class Test & Assignment	September
	Hume	1 st week of October Tutorial : Group Discussion	
Unit IV	Immanuel Kant Synthesis of Rationalism and Empiricism	2 nd week of October Tutorial: Quiz	Revision

Lecture Plan BA III Year Western Philosophy – 2 (Paper II) PHIL -A-310 DSE

Units	Contents	Week wise Distribution	Remarks
Unit I	Realism – Metaphysical & Epistemological Idealism – Objective, Subjective and Absolute	3 rd & 4 th week of October 1 st week of November Tutorial: Assignment Class Test 2 nd 3 rd & 4 th week of November	
		Tutorials :Class Test Quiz Seminar	
Unit II	Materialism – Mechanical and Dialectical Causality – Aristotle and Hume	1 st & 3 rd week of December 4 th week of December Tutorial: Ppt Presentation	Expect to complete 50% syllabus by 4 th week of
		Ppt Presentation Class Test	November House Exam likely to be held in 2 nd week of December
Unit III	Proof for the Existence of God Nature of God – Theism, Deism and Pantheism	1 st & 2 nd week of February 3 rd week of February Tutorial: Assignment Group Discussion Group Discussion Quiz	
Unit IV	Logical Positivism : Theory of Verification Elimination of Metaphysics Existentialism : Introduction and Main Characteristics	4 th week of February 1 st week of March 2 nd & 3 rd week of March Tutorial: Class Test Quiz	Revision

Lecture Plan BA III Year (July 2020) Bhagwad Gita (Generic Elective) Paper I PHIL -A-311 DSE

Units	Contents	Week wise Distribution	Remarks
UNIT I	Svabhava and Svadharma Nishkama karma Yoga	1 st & 2 nd week of July 3 rd & 4 th week of July Tutorial: Assignment Class Test Quiz	
UNIT II	Jnana Yoga Karma Yoga Bhakti Yoga	1 st week of August 2 nd & 3 rd week of August 4 th week of August Tutorial : Assignment Ppt Presentation	Expect to complete 50% syllabus by 4th week of August
UNIT III	Lok Samgraha Sthitprajya	1st week of September 2 nd & 4 th week of September Tutorials : Class Test Group Discussion	House Exam likely to be held in 3 rd week of September
UNIT IV	Contemporary relevance of the message of Bhagvad Gita	1 st & 2 nd week of October Tutorial : Class Test	Revision

Lecture Plan BA III Year Yoga (Generic Elective) Paper II PHIL -A-312 GE

Units	Contents	Week wise Distribution	Remarks
UNIT I	The definition and meaning of Yoga, Vritti, Klesha	3 rd & 4 th week of October 1 st 2 nd 3 rd & 4 th week of November Tutorials : Assignment Class Test Quiz Seminar	
UNIT II	Bahirangsadhan of Yoga : Yama, Niyama, Asana, Pranayama, Pratyahara	1st & 3rd & 4th week of December Tutorial: Ppt Presentation Ppt Presentation Class Test	Expect to complete 50% syllabus by 4 th week of November House Exam likely to be held in 2 nd week of December
UNIT III	Antarangsadhan of Yoga : Dharana, Dhyana, Samadhi	1st & 2nd & 3rd week of February Tutorial: Assignment Group Discussion Group Discussion Quiz	
UNIT IV	Samadhi ka svaroop, Kaivalya	4 th week of February 1 st 2 nd & 3 rd week of March Tutorial: Class Test Quiz	Revision

TEACHING PLAN: B.A.FIRST YEAR POLITICAL SCIENCE july 2019 –april 2020)

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and reflection of supreme court			and function of supreme court				

	Topic 6.power structure in India: caste, class and patriarchy.		
FEB	Paper: Indian govt. and politics (POLS102) unit-3 RD Topic 1.Religion and politics, Topic2 .Secularism , feature of Indian secular state Topic 3. Communalism and politics Topic 4. Party system in India	3 week s	Se me ste r exa m.
MAR CH	Paper:Introduction to political theory(pols101),UNIT-4 th Topic 1. Protective discrimination in India and arguments for reservation, argument against the policy of reservation. Topic2 .State intervene in family.	4 week s	
APRI L	Paper: Indian govt. and politics (POLS102) unit-4 th Topic 1. Social movement: workers movement in India Topic2. Peasants movement in INDIA Topic3. Environmental Topic4 women's movements and women's empowerment Topic 5. Strategies of development: planned economy and Neo-liberalism.	4 week s	

TEACHING PLAN: DEPARTMENT OF POLITICAL SCIENCE B.A2ND YEAR JULY(2019- APRIL20)

Acad	CLA	Topics to be covered	Nam	No of	Remedial	Re	
emic	SS/		e of	lectu	/Tutorial	ma	
year	YEA		teac	res		rk	
	R		her				
Jul.	B.A	Paper: comparative Government and		4	Unit test		
		politics(pols301)UNIT-1		week			
	3 RD	Tppic1.comparative politics: meaning and		S			
	Se	nature and scope					
	me	Topic 2.Traditional and modern perspectives,					
	ster	utility and problem					
		Topic.3 comparative method: meaning, nature					
		scope and utility					
		Topic 4 comparative analyses democratic and					
		authoritarian regimes					
		Paper: Legislative support(pols 302)unit-1					

AUG .		Topic: 1. Power and function of people' representative: Local government(rural and urban) Topic2. Originations Power and function of state legislature. Topic 3. Originations power and function of parliament Paper: Introduction to international relation (pols401) unit-1. Topic 1. Definition, nature and scope of International relations Topic 2. Approaches to study of International relations-classical realism (Hans Morgenthau) 2)World systems approach (Immanuel Wallenstein) 3)Dependency model(Andre Gander Frank) Paper: Public opinion & survey research (POLS402) unit 1 Topic 1. Publicopinion : Meaning and features Topic 2. Public opinion and democracy —role of public opinion in Democracy			
SEP.	B.A 3 RD Se me ster	Paper: comparative Government and politics(pols301)UNIT-2 Topic1. Classification of political system: parliamentary and presidential –UK and USA Topic2. Federal and Unitary –Canada & china. Paper: Legislative support(pols302)unit-2 Topic 1.Supporting the legislative process: how a Bill becomes an act Topic 2 Roll of standing committee in the making of law	4 week s	Unit test	
OCT					
		Paper: Introduction to international relation (pols401) unit-2 Topic1. Cold war: meaning and nature of cold			

		war, cause of cold war Topic 2.various stages of cold war Topic 3.End of cold war. Paper: Public opinion &survey research (POLS402) unit- 2 Topic1.Representation and sampling: sampling meaning and definitions utility of sampling Topic 2. Types of sampling —random, non random and stratified sampling. Topic 3 merits and demerits of sampling.				
NOV	B.A 3 RD Se me ster	Paper: comparative Government and politics(pols301)UNIT-3 Topic 1.Electoral system: First past the post system Topic2. Proportional representation Paper: Legislative support(pols302)unit-3 Topic1. Legislative committees: Nature, role and type of committees	4 week s	Unit test	MI D- TE RM	
DEC.		Paper: Introduction to international relation (pols401) uni-3 Topic1. Post cold war-End of cold war and new cold war Topic 2. War era and emerging centers power (European Union, China, Russia and Japan Paper: Public opinion &survey research (POLS402) unit-3 Topic 1. Understanding survey research :meaning and definition of interview ,types of interview Topic 2. Preparation of interview and process of interview , Merits and demerits of interview Topic3. Questionnaire method			SE ME STE R EX M.	
MAR CH		Paper: Introduction to international relation (pols401) uni-3 Topic: Indian foreign policy (A) basic determinants (historical, geo-political, economic, domestic and strategic (b) policy				

		of NON-ALIGNMENT. Paper: Public opinion & survey research (POLS402) unit-4 Topic1 Quantitative data: Meaning, analysis and interpretation of data. Topic 2. Understanding the opinion poll and Exit polls.			
APRI	B.A	. Paper: comparative Government and	4		
L	. 3 rd	politics(pols301)UNIT-4	week		
	se	Topic 1. Party system :one party, Bi-party and	S		
	me	munity-party system			
	ster	Topic2. Welfare state: meaning definition of welfare state and functions of welfare state			
		Paper: Legislative support(pols302)unit-4			
		Topic 1. Reading the Budget document: Role			
		of parliament in passing the union budget,			
		raising for grants.			

TEACHING PLAN PLAN: DEPARTMENT OF POLITICAL SCIENCE B.A 3RD YEAR JULY(2019- APRIL 20 LBS COLLEGE SARASWATI NAGAR SAWRA

Acad	CLA	Topics to be covered	Nam	No of	Remedial	Re
emic	SS/		e of	lectu	/Tutorial	ma
quar	YEA		teac	res		rk
terly	R		her			
July	B.A	Paper: Themes in comparative political	R.K.	4	UNIT	
	.3 RD	theory(pols301) unit -1		WEE	TEST	
	yea	Topic 1. Meaning and definition of political		KS		
	r	thoughts Feature of Indian and Western				
		political thought				
		Topic2. Similarities and dissimilarities in Indian				
		and Western political thought.				
		Paper: Democratic awareness though legal				
		literacy(POLS303) unit-1				
		Topic1. Outlining the legal system in India:				
		Criminal and civil courts				
		Tpic2. Juvenile court, mahila courts. Role of				
		Tribunals				
AUG				4	UNIT	
		Paper: Themes in comparative political		WEE	TEST	

		theory(pols301) unit -2 nd Topic 1. John lock view on rights Topic2. J.S. Mill view on liberty. Paper: Democratic awareness though legal literacy(pols303) unit-2 nd Topic1.Understanding the application of law: Criminal jurisdiction, filing an FIR, Arrest, Bails search and seizure. Topic2. Prevention of atrocities on scheduled castes and scheduled tribes.		KS		
SEP.		Paper: Themes in comparative political theory(pols301) unit -3 rd Topic1.Indian thought: Kautilya's views on state Topic2. Tilak and Gandhi view on swaraj. Paper: Democratic awareness though legal literacy(pols303) unit-3 Topic1. Dowry, sexual harassment and violence against women. Topic2. Consumer rights and cybercrimes.		4WE EKS	UNIT	
ОСТ.	B.A .3 RD YEA R	Paper: Democracy and Governance(pols302) unit-1 Topic1. Structure and process of Governance. (a) Union level: President, prime minister and supreme court. (B) State level: Governor, chief minister and high court. Paper: Conflict and peace building (POLS304) unit -1 Topic1. Understanding conflict: Management, resolution and peace building	R.K.	4 WEE KS	UNIT	
NOV		Paper: Democracy and Governance(pols302) unit-2 Topic1. (A) Political communication: nature, forms and importance. Topic 2 (b) Role of trade unions and farmers associations. Paper: Conflict and peace building (POLS304) unit -2 Topic1. Types of conflict: local, sub-national and international.	R.K.	4 WEE KS	UNIT	MI D- TE RM

DEC.	Paper: Democracy and Governance(pols302) unit-3 Topic:1. Contemporary Political Economy- Liberalization. Topic: 2. E-Governance. Paper: Conflict and peace building (POLS304]unit-3 topic 1-Levels of Conflicts:Local, Sub — National and International.	R.K.	4 WEE KS	UNIT	SE ME STE R EX M.
MAR CH	Paper: Themes in comparative political theory(pols301) unit -4 Topic 1. Amberdkar and Lohia views on social justice Topic2.Nehru views on democratic socialism. Topic 3. Patel: Idea of national integration. Paper: Democratic awareness though legal literacy(POLS303) unit-4 Topic 1. Functioning of legal system: legal services authorities act Topic2. Preventive detention act and National security ac.	R.K.	3 WEE KS	UNIT	
APRI L	Paper: Democracy and Governance(pols302) unit-4 Topic1. Dynamics of civil society: New social movements (gender ,tribe , environment) Topic 2. NGO's Paper: Conflict and peace building (POLS304)unit -4 Topic1. Methods to resolve conflict: Negotiations, Trust building and mediation . Topic2. Track 1 and track 2 Diplomacy.		4 WEE KS		

LESSON / TEACHING PLAN FOR THE SESSION: 2020-2021

Public Administration Syllabus (Regular)

BA – 1st Year) Core Course DSC:1A

Code PUBA 101-A

Course: Administrative Theory

Units	Name of Unit / Objective	No. Of Classes
		Classes
	Public Administration : Meaning, Nature, Scope and Significance.	
	Evolution of Public Administration.	
1.	Public and Private Administration : Similarities and Dissimilarities.	15
	Public Administration as an Art and Science.	
	Relationship of Public Administration with Political Science, Sociology	
	and Economics.	
	New Public Administration:	
	New Public Management	
	Principles of Organization-: Hierarchy,	
	Unity of Command, and Span of Control,	
	.Centralization: Meaning, merits & demerits	15
2.	Decentralization: Meaning, merits & demerits	
	Delegation: meaning, need, elements and hindrances	
	Supervision: meaning, need and methods of supervision	
	a) Authority and Responsibility	
	Forms of Organization: Meaning,	
3.	Elements and Basis of Organization.	
	Formal and Informal Organization: Meaning, Significance.	
	Difference between Formal and Informal Organization	12
	Theories of Organization: Brief introduction of Scientific Management	
	Theory, Human Relations Theory	
	Human Relations Theory	
	Bureaucratic Theory Decision making: meaning, types and functions	
	Decision making: meaning, types and functions Leadership: meaning, types and functions	
_	Communication: meaning, importance and types	10
4.	Communication. meaning, importance and types	10

Note: Assignments, class test & midterm will be taken during the session.

LESSON / TEACHING PLAN FOR THE SESSION: 2020-2021

Code: PUBA 102-A

Course: Indian Administration

Core Course DSC 1B

Units	Name of Unit / Objective	No. Of Classes
1.	Evolution of Indian Administrative System: Brief account of Indian Administration during ancient period, Mughal period, British Rule and after Independence. Indian Administration: Nature, Legacy and Features of Indian Administration	15
2.	Civil Services in India: Structure of Civil Services, Nature, Role and Rationale Recruitment of Civil Services, Recruitment agencies: Union Public Service Commission: Organization Structure, Functions and Role State Public Service Commission: Organization Structure, Functions and Role	15
3.	Constitutional Authorities: Finance Commission: Organizational structure, functions and role, Election Commission: Organizational structure, functions and role, a. Comptroller and Auditor General of India: Organizational structure, functions and role.	10
4.	Problem of corruption in Indian Administration: Meaning, Causes and Control, Lok Pal and Lokayukta: Role and responsibilities Citizen's Charter: meaning, significance Right to Information Act, 2005: Objectives and main provisions	10

Note: Assignments, class test & midterm will be taken during the session.

Name of Teacher: Asst. Prof. Rajinder singh

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

LESSON / TEACHING PLAN FOR THE SESSION: 2020-2021

Public Administration Syllabus BA-IInd Year

Core Course-DSC-1C Code: PUBA 201-A

Course: Administrative Thinkers

Units.	Name of Unit / Objective	No. Of Classes
1.	i Kautilya: Brief Life Sketch, Administrative Features of Kautilya's Arthshastra ii Saptang Theory or Elements of State and Role of King and Qualities iii Mahatma Gandhi Brief Life Sketch Concept of Ideal State iv Democracy and Administration, Theory of Trusteeship, Nonvionalce and Satyagrah	15
2.	 i i. F.W. Taylor: brie life sketch ii ii. Principles of Scientific Management, Mental Revolution, Incentive wage system iii. Elton Mayo Brief life Sketch, Human Relation Theory, Hawthorne Experiments, Importance, effects of Hawthorne Experiments. 	12
3.	i Max Weber: brief life sketch, Theory of Authority Structure, Theory of Bureaucracy ii Herbert Simon: brief life sketch, Classification of Decisions, Steps in decision making iii Simon's Bounded Rationality Model	12
4.	 i i. Abraham Maslow: brief sketch, The Need Hierarchy Theory of Motivation ii ii. Frederick Herzberg: brief life sketch: Two Factor or Motivation Hygiene Theory, iii iii. Job Enrichment 	12

Note: Assignments, class test & midterm will be taken during the session.

LESSON / TEACHING PLAN FOR THE SESSION: 2020-2021

BA-II Year Core Course CODE: PUBA 202-A Course DSC 1D

Course: Development Administration

Units	Name of Unit / Objective	
1.	 i i. Development: Definition, Nature and Dimensions of Development ii ii. Problems of Development in Developing Countries iii iii. Sustainable Development: Concept, Features and significance 	12
2.	 i i. Development Administration: Meaning Nature, and Scope ii ii. Essential Features of Development Administration iii Difference between Traditional and Development Administration 	12
3.	i i. Machinery for Planning in India NITI Aayog, Organization, Functions and Role ii ii. National Development Council, Function and Role iii iii. State Planning Board, Organization, Function and role with special reference to Himachal Pradesh a.	15
4.	Participation and Role of various Agencies in Development Administration i i. Political Parties ii ii. Local Bodies iii iii. NGO's iv iv. Self Help Groups (SHGs)	12

Note: Assignments, class test & midterm will be taken during the session.

LESSON / TEACHING PLAN FOR THE SESSION: 2020-2021

Public Administration Syllabus BA-IInd Year

Skill Enhancement Course; SEC-1A

Code: PUBA 203-A

Course: Computer Applications & Office Management

Units	Name of Unit / Objective	No. Of Classes
1.	i i. Computer: Design, Architecture: Operating System ii ii. MS Office Tools (Word, Power Points, Excel etc.) iii iii. Internet & Email etc iv iv. Importance of Computers in Office Management	26
2.	Office and Office Management- meaning of office, function of office, primary and administrative functions, importance of office. Concept of paperless office, Definition and elements of office management duties of an Office Manager	25
		27
3.	Meaning and importance of filing, essential of good filing system. Office Record Management- Meaning, importance of record keeping management, principles of record management and types of records kept in organization	24
4	Office Machines and equipments- Importance objectives of office machines. Office Safety & Security-Meaning importance of office Safety, safety hazards and steps to improve office safety. Security hazard and steps to improve office security, Cyber Crimes. Measurement of Office Work – Importance purpose, difficulty in measuring office work.	

Note: Assignments, class test & midterm will be taken during the session.

LESSON / TEACHING PLAN (Month Wise) FOR THE SESSION: 2020-2021

BA-III Year

Course: DSE-1-A(Option -I) Discipline Specific Elective

CODE;PUBA303-A

Course: Local Government in India

Units	Name of Unit / Objective	No. Of Classes
1.	 i i. Evolution of Local Government in India ii ii. Local Government under British Rule and Post Independent period iii. Local Self government- Meaning, Nature and significance 	13
2.	i i. Organization and Functions of Gram Panchyat ii ii. Panchyat Samiti-Organisation, Structure and Function iii iii. Zila Parishad- Organisation, Structure and Function iv 73rd Constitutional Amendment Act- Main Features	12
3.	i i. Municipal Corporation: Organisation, Structure and Functions ii. Power and Function of Mayor and Municipal Commissioner iii. Municipal Committee/Council/Nagar Panchyat Organization and functions. iv iv. Main Features of 74th Constitution Amentment	15
4.	 i i. Finance of Local Self Bodies ii ii. Reasons for Poor Financial Position and suggestion iii iii. Machinery for Supervision & Control over Local Bodies 	14

Note: Assignments, class test & midterm will be taken during the session.

LESSON / TEACHING PLAN (Month Wise) FOR THE SESSION: 2020-2021

BA-III Year

Code: PUBA306-A

Course: DSE- IB; Option II Discipline Specific Elevtive

Course: Financial Administration

Units	Name of Unit / Objective	No. Of Classes
	Public Finance – Meaning and Forms, Financial Administration - Nature, Scope,	
1.	Importance and Principles, Fiscal Federalism- Principles, Centre-state- Financial Relations, Finance Commission A.	15
	Government Budget- Concept, Features, Types, Principles and Functions, Government Budgeting in India- Preparation, Enactment and Execution, Delegation of Financial Powers and Control over Expenditure, Role of Ministry of Finance	15
2.	Tou Administration In India Types of Tours in India Contra State and I seel)	
3.	Tax Administration In India- Types of Taxes in India(Centre, State and Local) Methods of Taxation, Role of Central Board of Direct Taxes and Central Board of Excise and Customs and GST.	
		13
	Parliamentary Control over Finance, Parliamentary Committees (PAC, Estimate Committee and CPU) CAG and RBI	
4.		14

Note: Assignments, class test & midterm will be taken during the session.

LESSON / TEACHING PLAN (Month Wise) FOR THE SESSION: 2020-2021

BA-III Year

GE-1

Code: GE-1;PUBA307-A

Course: Constitutional and Administrative Aspects of Himachal Pradesh

Units	Name of Unit / Objective	No. Of Classes
	I. Constitutional History:	
	i i. Emergence of Himachal Pradesh	
1.	ii. Himachal as Chief Commissioner and Part C State.	15
	iii Re-organization of H.P. and State re-organization commission	
	iv. Himachal Pradesh towards full statehood.	
	II. Administrative History:	
	i i. Himachal Pradesh under Chief Commissioner	
	ii Administration of Himachal Pradesh during Union Territory Period.	14
2.	iii iii. Administrative setup of Himachal Pradesh at the time of re-organization.	1
۷.	iv. Present administrative setup of Himachal Pradesh at state, division, District and	
	Block level.	
	III. Local Government in Himachal Pradesh	
	i i. Salient Feature of 73rd amendment act.	
	ii ii. Salient Feature of 74th amendment act.	
3.	iii Composition and functions of Gram Panchyat, Panchyat Smiti & Zila Parishad	15
	IV. Transparency and Accountability of Governance in Himachal Pradesh	
	i. The Himachal Pradesh Public Services Guarantee act 2011.	
4.	ii ii. Feature of RTI act 2005 & HP RTI rules 2006	
		10

Note: Assignments, class test & midterm will be taken during the session.

LESSON / TEACHING PLAN (Month Wise) FOR THE SESSION: 2020-2021

Public Administration Syllabus

BA-III Year

Code: GE-2;PUBA308-A option (I)
Course: Disaster Management

Units	Name of Unit / Objective	No. Of Classes
	Disaster- Meaning, Types, Causes of disaster and effects of disaster	
		10
		10
1.		
	Classification of Disasters- Hazard, Risk and Vulnerability-Natural and Man	
	Made Disasters-Disaster Profile of India. Organizational structure for Disaster	
	management at National & State Level, Role of NDRF	15
2.	1.	
	Disaster Management: Act, Policy and Institutional Framework- Disaster	
3.	Management Cycle with focus of Preparedness. Prevention and mitigation-	
	Disaster Relief and Response-Damage Assessment-Rehabilitation, Reconstruction and Recovery	4.5
	a.	15
	Relevance of Indigenous Knowledge-Community based Disaster	
	Management-Disaster Management Strategies-Disaster Management Case	
4.	Studies	
		10

Note: Assignments, class test & midterm will be taken during the session.

LESSON / TEACHING PLAN FOR THE SESSION: 2020-21

Year-I INTRODUCTION TO PHYSICAL EDUCATION THEORY COURSE

COURSE CODE: PED101TH

Unit	Name of Unit / Objective	No. Of Classes	No. Of Practical
	Introduction		
1.	 Meaning, Definition, Need and Scope of Physical Education. Aim and Objectives of Physical Education. 	20	5
	3. Importance of Physical Education in present era.4. Misconceptions about Physical Education.5. Relationship of Physical Education with General Education.		
	6. Physical Education as an Art and Science.		
	1. Historical Development of Physical Education in India {Pre-Independence-(Ancient	24	_
2.	India, Medieval and British Period)}.2. Physical Education in India (Post-Independence).3. Contribution of Akhadas, Vyayamshalas and Y.M.C.A.	24	5
	4. Modern Perspectives: National Awards/State Awards and Honours, Arjuna Award, Rajiv Gandhi Khel Ratna Award, Dronacharya Award,		
	M.A.K.A. Trophy and Parshu Ram Award.		
	a) 5. Eminent Sports Personalities of different games.		
3.	Biological Basis of Physical Education 1. Growth and Development, Differences between growth and development,		
	Factors affecting growth and development. 2. Anatomical and Physiological Differences between	20	6
	Male and Female. 3. Effects of Heredity and Environment on Growth and Development.		
	Emerging Trends in Physical Education		
	1. Career Opportunities/Avenues in Physical		

4.	Education and Sports:		
	a. As a Physical Education teacher.	15	4
	11		
	b. Coach / trainee.		
	c. Gym instructor.		
	d. Physiotherapist.		
	e. Psychologist.		
	f. Dietitian.		
	g. Sports administrator/manager		
	h. Rehabilitator		
	2. Adventurous Sports		
	3. Water Sports		
	4. Fast growing professions and emerging trends in		
	physical education and sports.		

Note: Assignments, class test & midterm will be taken during the session.

Name of Teacher: Chander Sen

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

LESSON / TEACHING PLAN FOR THE SESSION: <u>2020-21</u>

COURSE CODE: PED102TH
OLYMPIC MOVEMENT AND ORGANIZATION OF TOURNAMENTS

Sr. No.	Name of Unit / Objective	No. Classes	No. Of Practical
	Olympics Games, Asian Games and Commonwealth		0.6
1.	Games 1 Olympia Mayamanti Angiant and Madarn Olympias	20	06
1.	1. Olympic Movement: Ancient and Modern Olympics Games.	20	
	2. Importance of Olympic Games, Objectives of Olympic,		
	Olympic Motto, Emblem, Flag,		
	Olympic Torch and Awards, Opening and Closing		
	Ceremonies.		
	3. Asian Games: Historical background of Asian Games.		
	4. Performance of India at Olympic Games, World		

	Championship, Asian Games, SAF and		
	Commonwealth Games.		
	Promotion of Physical Education and Sports in India		
	1. Promotion of Physical Education and Sports: Policies,		
	Schemes.	24	05
2.	2. Role of IOA, SAI, NSNIS and Khelo Bharat Abhiyan in the		
	development of Physical		
	Education and Sports in India.		
	3. Causes of deterioration of Sports Performance.		
	4. Indian National Sports Policy and Sports Policy of		
	Himachal Pradesh.		
	Intramurals and Extramurals		
3.	1. Intramurals :		0.7
	i) Its importance and planning.	20	05
	ii) Events of competitions, time and facility factor.	20	
	2. Extramurals :		
	ii) Planning and conduct.		
	iii) Outcomes of participations (Educational).		
	iv) Limitations in participations.		
	v) Selection and training of teams.		
	a. vi) Participation, finance and other aspects.		
	Organisation of Tournaments		
	1. Concept and definition of tournament.		
4.	14	15	06
	2. Types of Tournaments: Knock-Out and League	13	UU
	Tournament, Process of Draw of Fixture,		
	Merits and Demerits of various kinds of Tournaments.		
	3. Protocols to organise College Annual Athletic Meet.		

Note: Assignments, class test & midterm will be taken during the session.

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.) LESSON / TEACHING PLAN FOR THE SESSION: 2020-21

Year-II COURSE CODE: PED201TH HUMAN ANATOMY AND PHYSIOLOGY

Sr. No.	Name of Unit / Objective	No. Of Classes	No. Of Practical
	1. Basic concept of Anatomy and Physiology.		05
1.	2. Muscular System: Types of muscles, Structure and functions of muscles, Types of	25	
	muscular contraction-Isotonic, isometric and isokinetic	25	
	contractions and Effects of		
	exercises and training on muscular System.		
	3. Skeletal System: Introduction, Functions and		
	Importance of Skeletal System, Types of		
	Bones-Skull, Upper and Lower Limbs and Trunk and		
	Effects of exercises and training on		
	Skeletal System. Respiratory System: Introduction, Structure and	24	06
	Function, Types of respiration, Organs	24	00
	of respiration, Mechanism of Respiration, Respiratory		
2.	Capacities and Volumes,		
	Measurement of Respiratory Capacities and Volumes		
	and Effects of exercises and		
	training on Respiratory System.		
	2. Circulatory System: Structure of the Heart,		
	Chambers of Heart, Arteries, Veins and		
	Capillaries, Systematic and Pulmonary Circulation, Functions of Heart, Cardiac Output,		
	Heart Rate, Stroke Volume, Blood Volume, Blood		
	Flow, Athlete's Heart and Effects of		
	exercises and training on Circulatory System.		
	Digestive System: Introduction, Importance of		06
3.	digestion, Functions and process of		
	digestion, Organs of Digestive system, Mechanism of	20	
	Digestive system, Effects of	20	
	exercises and training on Digestive System.		
	2. Nervous System: Structure and Function of Brain and Spinal Cord. Autonomous		
	and Spinal Cord, Autonomous Nervous System, Peripheral Nervous System, Nerve		
	Cell, Receptor, Motor Unit and		
	Reflex Action and Effects of exercises and training on		

	Nervous System.		
	1. Meaning and definition of Physiology and Exercise		
	Physiology.		
4.	17		
	2. Need and importance of exercise physiology in the	25	06
	field of Physical Education.		
	3. Energy sources:		
	a. Definition of energy		
	b. Metabolism		
	c. Creatine phosphate (CP)		
	d. Adenocine triphosphate (ATP)		
	e. Fatigue		
	4. Fatigue and factors responsible for fatigue.		

Note: Assignments, class test & midterm will be taken during the session.

LESSON / TEACHING PLAN FOR THE SESSION: 2020-21

Year-II

COURSE CODE: PED203TH

SPORTS MEDICINE, PHYSIOTHERAPY AND REHABILITATION

Sr.	Name of Unit / Objective	No. Of Classes
No.		
	Sports Medicine	
	1. Sports Medicine: Meaning, definition, aims, objectives, modern	•
1.	concepts and importance.	20
	2. Injuries: Type of sports injuries, prevention of injuries in sports,	
	common sports injuries	
	and their diagnosis.	
	3. First Aid: Meaning, objectives and precautionary measures while	
	giving first aid and	
	PRICE.	
	4. Treatment of Laceration, Blisters, Contusion, Strain, Sprain,	
	Fracture, Dislocation and	
	Cramps.	
	Common Accidents and Ergogenic Aids	
	1. Emergency treatment for common accidents: Drowning, Burning,	24
2.	Insect stings & bitings,	24
۷.	Snake bite, Dog bite, Poisoning, Unconsciousness, Fainting, Hysteria,	
	Sunstroke, Shock,	
	Electric shock and Acid burn.	
	2. Doping: Meaning and Definition.	
	a. NADA (An Introduction).	
	b. WADA (An Introduction).	
	c. Aims and Objectives of NADA and WADA.	
	3. Ergogenic aids in sports and their ill effects:	
	a. Anabolic agentsb. Stimulants	
	c. Beta blockers	
	d. Narcotic analgesics e. Diuretics	
	f. Blood doping Physiotherapy	
	Physiotherapy: Definition, guiding principles of physiotherapy and	
	1. Physiotherapy: Definition, guiding principles of physiotherapy and	

3.	importance of	
	physiotherapy.	20
	20	
	a. 2. Massage: History of massage, types of massage and	
	physiological effect of massage.	
	Hydrotherapy and Thermotherapy	
	1. Hydrotherapy: Introduction and demonstration of treatments of	
4.	Cryotherapy, Contrast	
	Bath, Whirlpool Bath, Steam Bath, Sauna Bath and Hot Water	15
	Fomentation.	
	2. Thermotherapy: Introduction and demonstration of treatment of	
	thermotherapy.	

Note: Assignments, class test & midterm will be taken during the session.

LESSON / TEACHING PLAN FOR THE SESSION: 2020-21

Year-II

COURSE CODE: PED202TH SPORTS PSYCHOLOGY

Sr. No.	Name of Unit / Objective	No. Of Classes	No. Of Practical
1.	 Introduction 1. Meaning of psychology and sports psychology. 2. Definition, scope and importance of sports psychology. 3. Goals of sports psychology. 4. Psychological feature offecting aparts performance. 	25	06
2.	 4. Psychological factors affecting sports performance. Growth and Development 1. Concept of growth and development. 2. Physical, mental, social, intellectual and emotional development in infancy, later 	24	05
	childhood and adolescence stages. 3. Learning: meaning, definition and nature of learning. 4. Laws of learning and learning curve. 5. Theories of learning.	20	04
3.	Motivation 1. Meaning and definition of motivation. 2. Types of motivation and motivation in learning. 3. Individual differences its type and nature. 4. Determinants of individual difference: a. Heredity (Nature). b. Environment (Nurture).	18	6
	 Intelligence, its meaning and types. Personality Personality: Meaning of personality, definition and personality characteristics. Factors affecting personality and dimensions of personality. Classification of personality traits. Emotion, anxiety and stress management in sports. Role of sports in the development of personality. 	20	05

Note: Assignments, class test & midterm will be taken during the session.

LESSON / TEACHING PLAN FOR THE SESSION: $\underline{2020-21}$

Year-II

COURSE CODE: PED204TH

SPORTS TRAINING

Sr. No.	Name of Unit / Objective	No. Classes	Of
1.	 Sports Training: Introduction, Meaning and Definition of Sports Training. Aim and Objectives of Sports Training. 	20	
1.	3. Principles of Sports Training, System of Sports Training.4. Basic Performance, Good Performance and High Performance Training.		
2.	 Concept of warming-up and cooling down. Physiological basis of warming-up and cooling down. Training Components: Speed, Strength, Endurance, Flexibility and Coordinative Abilities. Types and methods for the development of training components. 	24	
3.	 Training Process: Training Load, Definition and Types of Training Load. Principles of Intensity and Volume. Technical Training: Meaning and Methods of Technical Training. Tactical Training: Meaning and Methods of Tactical Training. 	20	
4.	 Training Programming and Planning: Periodization, Meaning and types of Periodization. Aim and Content of Periods-Preparatory, Competition and Transitional. Planning a training session. Talent Identification and Development. 	18	

Note: Assignments, class test & midterm will be taken during the session.

LESSON / TEACHING PLAN (Month Wise) FOR THE SESSION: 2020-21

Year-III

COURSE CODE: PED301

SPECIALIZATION IN VOLLEYBALL

Sr. No.	Name of Unit / Objective	No. Of Classes	No. Of Practical & Tutorials
1.	 History of game, measurement and preparation of the play field and equipment required for game. Fundamental skills and lead-up games. Techniques, strategies and method of play. Rules and regulations of the game. National and International tournaments associated with the game. Team/Individual records (World, Olympic, Asian and National Level) of the game. Awards associated with the game. Duties of the officials. Technical Equipment for officiating. Knowledge of the score sheets. 	10	14
2.	 Signals of officiating. General and specific warming-up and cooling down. Long-term and short-term preparation for the decisive volleyball competitions. Psychological qualities and preparation of a volleyball player. Offensive, defense system in play, service and reception pattern. Individual, group and team tactics. Diet and nutrition for a volleyball player. a) 7. Coordination among the manager, coach, doctor, psychologist and players. 	12	15
3.	Teaching of volleyball skills. Preparing a lesson plan.	08	15

	3. Specific training methods for different playing positions.		
	27		
	4. Counseling during competitions.		
	5. Information and publicity of the competition, writing press		
	release and reports.		
	6. Facility management, quality control of equipment and player's		
	kit, risk management,		
	medical check-up, medical aid and insurance.		
	7. Personnel management and interpersonal communication skills.		
	1. Injuries associated with the game: Ankle sprain, finger injuries,	10	15
	shoulder dislocation,		
4.	knee displacement.		
	2. Preventive and safety measures, P.R.I.C.E., Rehabilitation and		
	physiotherapy.		
	3. Training means for development of different components of		
	physical fitness i.e. Speed,		
	Strength, Endurance, Flexibility, Coordinative ability.		ļ

Name of Teacher: Chander Sen

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

LESSON / TEACHING PLAN (Month Wise) FOR THE SESSION: 2020-21

Year-III

COURSE CODE: PED305TH

RECREATION

Sr. No.	Name of Unit / Objective	No. Classes	Of
1.	 Meaning of Recreation, aims and objectives of Recreation. Physical education and recreation. Need and importance of recreation in modern age. Arrangement of recreation centres. 	20	
	 Concept and meaning of camp, aims and objectives of camp. Types of camp. Agencies promoting camp. 	25	

2.	4. Educative value of camp.					
	1. Types and nature of recreation.					
	2. Recreation providing agencies and recent changes in the					
	recreational activities.					
3.	3. Responsibilities of a recreational manager.	18				
	1. Meaning, importance and utilities of picnic.					
	2. Organization of picnic and essentials for picnic and factors					
4.	4. affecting its organization.					
	3. Educative value of picnic.					
	4. Recreational and Adventurous Avenues in Himachal Pradesh					
	(Water Games, Paragliding,					
	Winter Games, Mountaineering and Trekking).					

Name of Teacher: Chander Sen

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

LESSON / TEACHING PLAN (Month Wise) FOR THE SESSION: $\underline{2020-21}$

Year-III

COURSE CODE: PED309TH

HEALTH EDUCATION AND NUTRITION

Sr. No.	Name of Unit / Objective	No. Of Classes
1.	 Introduction 1. Concept of health, meaning, definition and scope of heath education. 2. Objective of health education. 3. Principles of heath education. 4. Need and significance of health education. 	25
2.	Personal Health and Hygiene 1. Meaning of personal hygiene. 2. Personal care of: a. Skin.	18

	b. Hair.				
	c. Ear.				
	d. Eyes.				
	e. Nose.				
	f. Teeth.				
	g. Feet.				
	h. Cloths.				
	3. Eliminating of body wastes.				
	4. Rest, sleep and relaxation.				
	5. Effect of alcohol and smoking on health.				
	School Health Programme and Nutrition	20			
	1. Healthful School Living:				
	a. Place and location of school.				
3.	b. Buildings.				
	c. Infrastructure and facilities.				
	d. Safety measures.				
	2. Health Supervision/Services:				
	a. Physical medical examination and their follow up.				
	b. Health inspection of students.				
	c. Rehabilitation Centers of communicable diseases.				
	3. Health Instructions Related To:				
	a. Personal care.				
	b. Communicable disease.				
	c. Nutrition.				
	d. Healthful living.				
	4. Nutrition:				
	a. Balanced diet and its elements:				
	i. Carbohydrates, Proteins, Fats, Vitamins, Minerals, Salts and Water.				
	b. Daily energy/calorie requirements of healthy person.				
	Communicable Diseases	20			
	1. Meaning and definition of communicable disease.				
4.	2. Mode of transmission, prevention and cure and sanitation of				
	communicable disease.				
	3. Common Communicable Diseases:				
	a. Influenza.				
	b. Malaria.				
	c. Small pox.				
	d. Tuberculosis.				
	f. Cholera.				
	g. Measles				
	c. Small pox.d. Tuberculosis.e. Typhoid.f. Cholera.				

Name of Teacher: Chander Sen

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

LESSON / TEACHING PLAN (Month Wise) FOR THE SESSION: 2020-21

Year-III

COURSE CODE: PED307TH

METHODS OF TEACHING IN PHYSICAL EDUCATION

Sr.	Name of Unit / Objective	No. Of Classes
No.		
	1. Meaning and importance of methods of teaching in Physical	
	Education.	10
	2. Principles of teaching methods and different methods of teaching.	18
1.	3. Factors affecting teaching methods.	
1	4. Lesson Planning: Lesson plan, objectives and types of lesson plan.	
	5. Principles of lesson plan and values of lesson plan.	
	6. Class activity/Recreational part (Assembly, Revision, Reassembly and	
	Dismissal).	25
	1. Teaching aids, meaning, its importance in physical education, types of teaching aids and	23
	use and improvisation of apparatus.	
2.	2. Presentation technique, criterion of presentation technique and	
	qualities of good	
	presenter.	
	1. 3. Factors influencing presentation technique.	
	1. Teaching Skills:	25
3.	i) Lecture method.	
	ii) Command method.	
	iii) Discussion method.	
	iv) Project method.	
	v) Demonstration method.	
	a. vi) Imitation method.	
	1. Class formation, its values and types of class formation.	25
	2. Supervision and inspection of teaching methods.	

4. 3. Methods of supervision and qualities of a supervisor.
4. Evaluation of teaching methods.
5. Need and importance of evaluation.

Note: Assignments, class test & midterm will be taken during the session.

Name of Teacher: Chander Sen

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

LESSON / TEACHING PLAN (Month Wise) FOR THE SESSION: 2020-21

Year-III

COURSE CODE: PED310TH

YOGA

Sr. No.	Name of Unit / Objective	No. Of Classes
110.		
1.	 Meaning and concept of Yoga. Aim, objectives and Importance of Yoga. Types of Yoga. Importance of yoga in the modern world. 	20
2.	 Asanas and their importance. Classification of asanas: Meditative Relaxative Cultural General techniques and benefits of the following: Padmasana, Vajrasana, Halasana, Bhujangasana, Sarvangasana, Chakrasana, Dhanurasana, Salabhasana, Paschimotanasana, Mayurasana and Shirshasana. 	18
	Chakrasana, Dhanurasana, Salabhasana, Paschimotanasana, Mayurasana and	

	5. Difference between yoga and general exercises.	
3.	 Pranayama: meaning, objectives and types of pranayama. Physiological values of pranayama. Surya namaskar, its methodology and importance. Yoga for the cure of Disease and Postural Deformities. 	18
4.	 Sudhi Kiryas: Introduction, objectives and types of sudhi kriyas. Physiological values of sudhi kriyas and Importance of sudhi kriyas. Mudras and Bandhs, types and importance of mudras and bandhs. 	20

Name of Teacher: Chander Sen

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

LESSON / TEACHING PLAN (Month Wise) FOR THE SESSION: 2020-21

Year-III

COURSE CODE: PED304PR

SPECIALIZATION IN ATHLETICS

Sr.	Name of Unit / Objective	No. Of	No. Of
No		Classes	Practical
			&
			Tutorials

	1. Introduction to athletics.		14
	2. Historical developmental of athletics, Ancient Olympics		11
1.	and Modern Olympics games.	20	
	3. Historical review of track and field with special		
	reference to India.		
	4. National and International level athletics championships:		
	Olympic Games, Asian games,		
	IAAF-World Championship, Commonwealth Games,		
	National Games, Open National,		
	Youth National and Inter-Universities athletics		
	championships.		
		18	15
	1. Athletic track and its types.	10	13
	2. Procedure and methods to mark the track (200m, 400m).		
2.	3. Marking and construction of Shot Put, Discus Throw,		
	Javelin throw and Hammer throw		
	arena.		
	4. Specification and construction of Long Jump, Triple		
	Jump high jump and pole vault		
	pit/runways etc.		
	5. Selected National and International personalities in		
	athletics.		
	6. Need, importance and procedure of Warming-up and		
	Cooling down.		
	7. First aid and rehabilitation of athletics injuries.	10	1.5
	1. Track Events: Brief background, technique, training	18	15
	and important motor components of		
3.	the following track events:		
	i) Sprints races: 100m, 200m, 400m; Hurdle Races: High		
	Hurdle and Low Hurdle and		
	Steeple Chase.		
	ii) Middle and Long Distance Races; Combined Events:		
	Decathlon and Hepthalon;		
	Relay Races and Marathon.		
	37 2 Fields Events: Brief background, technique, training		
	2. Fields Events: Brief background, technique, training		
	and important motor components of the following field events:		
	i) Shot put, Discus throw, Javelin throw and Hammer		
	Throw.		
	ii) Long Jump, Triple Jump, High Jump and Pole		
	vault.		
	1. Technical training and practice of following events:	20	15
	i) Sprints Starting techniques, finishing techniques.	20	1.3
	ii) Shot put, Discus throw and Javelin throw (Basic		
4.	Teaching Stages)		
	iii) Long Jump, Triple Jump High Jump and Pole vault(
	m, Long sump, Triple sump riigh sump and Fole value		

Basic Teaching Stages)	
iv) Record files, calculations of straight, radius and	d
staggers of standard tracks.	
v) Relays: Holding of the baton and various types	of baton
exchange (visual and	
non-visual).	

Name of Teacher: Chander Sen

			Department of Detains	
			Department of Botany	
Class	D Co 15t	2020 24	LBS Govt. Degree College Saraswati Nagar	
Class	B.Sc.1st	2020-21 Biodiversity (Microbes, Algae, Fungi and Archegoniates)		
Paper Nomenclature:		-		
Teachers' Name :		Dr. P.P.Cha	: BOTA 101 (DSC-IA)	
Sr. No	Week	Unit	Topic	
1	Week 1	Unit-1	Viruses – Discovery, general structure, replication (general account),	
2	Week 1	OIIII-1	DNA virus (T-phage)	
3				
4			Lytic and lysogenic cycle, RNA virus (TMV)	
5			Bacteria – Discovery, General characteristics and cell structure Reproduction – vegetative, asexual	
6			Reproduction – recombination (conjugation, transformation and transduction	
7	Week 2		Economic importance (Viruses & Bacteria)	
/	VVCCK Z		Test & Problem Discussion	
8		Unit-2	Algae: General characteristics; Ecology and distribution	
9		OIIIC-Z	Range of thallus organization and reproduction	
10			Brief account of classification of algae	
11			Morphology and life-cycles of the following: <i>Nostoc</i> ,	
12			Morphology and life-cycles of the following: Nestec,	
13	Week 3		Morphology and life-cycles of the following: Vaucheria	
14	WEEKS		Morphology and life-cycles of the following: Ectocarpus	
15			Morphology and life-cycles of the following: Ectocarpus	
16			Morphology and life-cycles of the following: <i>Polysiponia</i>	
17			Morphology and life-cycles of the following: <i>Polysiponia</i> Morphology and life-cycles of the following: <i>Polysiponia</i>	
18			Economic Importance	
19	Week 4		Economic Importance	
13	WCCK 4		Test & Problem Discussion	
			Assignment-1	
20		Unit-3	Fungi: Introduction- General characteristics, ecology and significance	
21		Onic 3	Range of thallus organization, cell wall composition	
22			Nutrition	
23			Reproduction and classification	
24			Morphology and life cycles of <i>Phytophthora</i> , (Zygomycota)	
25	Week 5		Morphology and life cycles of <i>Rhizopus</i> (Zygomycota)	
26			Morphology and life cycles of <i>Penicillium</i> (Ascomycota)	
27			Morphology and life cycles of <i>Venturia</i> (Ascomycota)	
28			Morphology and life cycles of <i>Puccinia</i> (Basidiomycota	
29			Morphology and life cycles of <i>Agaricus</i> (Basidiomycota	
30			Symbiotic Associations-Lichens: General account,	
31	Week 6		Lichens: reproduction and significance	
			Test & Problem Discussion	
32		Unit-4	Bryophytes: General characteristics, adaptations to land habit	
33			Range of thallus organization.	
34			Classification (up to family)	
35			Morphology, anatomy and reproduction of <i>Marchantia</i>	
36			Morphology, anatomy and reproduction of <i>Marchantia</i>	
37	Week 7		Morphology, anatomy and reproduction of <i>Funaria</i> .	
38			Morphology, anatomy and reproduction of <i>Funaria</i>	
		+	Ecology and economic importance of bryophytes	

40			Ecology and economic importance of Sphagnum
			Test & Problem Discussion
			Assignment -2
41		Unit-5	Pteridophytes: General characteristics, Classification (up to family)
42			Early land plants (Cooksonia & Rhynia).
43	Week 8		Morphology, anatomy and reproduction of Selaginella
44			Morphology, anatomy and reproduction of Selaginella
45			Morphology, anatomy and reproduction of Equisetum
46			Morphology, anatomy and reproduction of Equisetum
47			Morphology, anatomy and reproduction of Adiantum
			Morphology, anatomy and reproduction of Adiantum
48			Heterospory and seed habit
49	Week 9		Stellar evolution
50			Ecological and economical importance
			Test & Problem Discussion
			Assignment-3
51		Unit-6	Gymnosperms: General characteristics
52			Classification (up to family),
53			Morphology, anatomy and reproduction of <i>Cycas</i>
54			Morphology, anatomy and reproduction of <i>Cycas</i>
55	Week 10		Morphology, anatomy and reproduction of <i>Cycas</i>
56			Morphology, anatomy and reproduction of <i>Pinus</i>
57			Morphology, anatomy and reproduction of <i>Pinus</i>
58			Morphology, anatomy and reproduction of <i>Pinus</i>
59			Economic importance.
60			Economic importance
			Assignment- 4
			Test & Problem Discussion
<u> </u>			Revision
			Revision
			Practical Examination
			Annual Examination

	·		Department of Botany
			LBS Govt. Degree College Saraswati Nagar
Class		B.Sc.1st 2	020-21
Paper N	omenclature:	Plant Ecol	ogy and Taxonomy Paper Code: BOTA 102 (DSC-IB)
Teacher	s' Name : Dr.	P.P.Chauha	n
Sr. No	Week /date	Unit	Topic
1	Week 1	Unit-1	Ecology: Introduction
2			Introduction continue
3		Unit-2	Ecological Factors: Soil :Origin
4			Soil formation
5			Soil Composition
6			Soil profile
7	Week 2		Water: States of water in the environment

8			Precipitation types
9			Effect of Light
10			Effect of temperature
11			Shelford law of tolerance
12			General account of adaptations in xerophytes
13	Week 3		General account of adaptations in xerophytes
14	Treek 5		General account of adaptations in Hydrophytes
15			General account of adaptations in Hydrophytes
			Test & Problem Discussion, Assignment -1
			Revision
16		Unit-3	Plant communities : Characters
17			Ecotone and edge effect
18			Succession
19	Week 4		Succession :Processes and type Hydrosere
20			Succession: Processes and type Xerosere
			Test & Problem Discussion, Assignment -2
21		Unit-4	Ecosystem: Structure
22			Energy flow trophic organisation
23			Energy flow trophic organization
24			Food chains
25	Week 5		Food chains
26			Food webs
27			Ecological pyramids
28			Production and productivity
29			Biogeochemical cycling- Cycling of Nitrogen
30			Biogeochemical cycling- Cycling Phosphor
			Test & Problem Discussion , Assignment -3
31	Week 6	Unit -5	Introduction to plant taxonomy: Identification
32			Classification
33			Classification
34		Unit-6	Identification : Functions of Herbarium, important herbaria world & India
35			Botanical gardens of the world and India
36			Documentation: Flora
37	Week 7		Keys: single access
38			Keys: multi-access
			Test & Problem Discussion Unit 5 & 6 Assignment -4
39		Unit-7	Taxonomic evidences from cytology
40			Taxonomic evidences from cytology
41			Taxonomic evidences from phytochemistry
42			Taxonomic evidences from phytochemistry
43	Week 8		Taxonomic evidences from molecular data.
44			Taxonomic evidences from molecular data.
45		Unit-8	Taxonomic hierarchy: Ranks, categories
46			Taxonomic groups
			Test & Problem Discussion Unit 7 & 8
47		Unit-9	Botanical nomenclature: Principles and rules (ICBN)
48			Ranks and names
49	Week 9		Binominal system
50			Typification
51			Author citation, valid publication, rejection of names

52			Principle of priority and its limitations
53		Unit -10	Classification: Types of classification
54			Artificial system of Classification
55	Week 10		Natural classification Bentham and Hooker (upto series)
56			Phylogenetic Engler and Prantl (upto series)
57			Angiosperm Phylogeny Group (APG) - general introduction
58		Unit-11	Biometrics, numerical taxonomy and cladistics
			Characters; variations; OTUs
59			Character weighting and coding; cluster analysis
60			Phenograms, cladograms (definitions and differences)
			Test & Problem Discussion Unit 9,10 & 11 Assignment -5
			Test & Problem Discussion complete syllabus
			Revision
			Revision
			Practical Examination
			Annual Examination

	Department of Botany				
	LBS GC Saraswati Nagar				
Lesion	Plan (Session 20	20-21)			
Class		B.Sc.2 nd			
	Nomenclature:	Plant Anat	tomy and Embryology Paper Code: BOTA 201 (DSC-IA)		
Teache	rs' Name :	Dr. P.P. Ch	nauhan		
Sr. No	Week /date	Unit	Topic		
1	Week 1	Unit-1	Meristematic and permanent tissues Introduction		
2			Root Apical meristems		
3			shoot apical meristems		
4			Simple tissue		
5			Simple tissue		
6			complex tissues		
7	Week 2		complex tissues		
			Test & Problem Discussion, Assignment -1		
8		Unit-2	Plant Organs: Introduction.		
9			Monocot root		
10			Monocot Stem		
11			Dicot root		
12			Dicot Stem		
13	Week 3		Monocot Leaf		
14			Dicot Leaf		
15		Unit-3	Adaptive and protective systems: General introduction		
16			Epidermis, adaptation & protective system		
17			Cuticular adaptation & protective system		
18			Stomata adaptation		
			Test & Problem Discussion Unit (2 & 3), Assignment -2		
19	Week 4	Unit-4	Secondary Growth: Introduction, Vascular cambium		
20			Vascular cambium – structure and function		
21			seasonal activity		
22			Secondary growth in root		

23			Secondary growth in root
24			Secondary growth in 1001 Secondary growth in stem
) A/ -		Secondary growth in stem Secondary growth in stem
25	Week 5		
26			Wood (heartwood and sapwood)
27		Unit-5	Anomalous Secondary Growth
28			Anomalous Secondary Growth continue
29			Anomalous Secondary Growth Boerhaavia (Dicot)
30			Anomalous Secondary Growth Dracaena (Monocot)
			Test & Problem Discussion Unit (4 & 5), Assignment -3
31	Week 6	Unit-6	Structural organization of flower :Flower- a modified shoot
32			Function of floral parts
33			Structure of anther
34			Structure of pollen.
35			Microsporogenesis
36			Male gametophyte
37	Week 7		Structure and types of ovules
38			Structure and types of ovules
39			Megasporangium
40			Types of embryo sacs
41			Types of embryo sacs
42			organization and ultra structure of mature embryo sac
43	Week 8		organization and ultra structure of mature embryo sac
			Test & Problem Discussion Unit , Assignment -4
44		Unit-7	Pollination
45			Pollination mechanisms
46			Pollination mechanisms
47			Pollination adaptations
48		Unit-8	Fertilization
49	Week 9		Double fertilization
50			Seed-structure
51			Seed-structure
52			Appendages
53			Dispersal mechanisms
54			Dispersal mechanisms
٠,			Test & Problem Discussion Unit 7& 8
55	Week 10	Unit-9	Embryo and endosperm : Endosperm types
56	_		Structure and functions
57			Dicot and monocot embryo
58			Monocot embryo;
59			Embryo-endosperm relationship
60			Polyembryony
			Test & Problem Discussion Unit 9, Assignment -5
			Revision
			Revision
			Practical Examination
			Annual Examination
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			Department of Detany
			Department of Botany
Lass-:- 5	Nam (Careter 22	20.24)	LBS GC Saraswati Nagar
	lan (Session 20	B.Sc.2 nd	
Class			town and Fushmanlanta Porta 201 / DCC ID
•	omenclature:		tomy and Embryology Paper Code: BOTA 201 (DSC-IB)
	S' Name : Dr. P.P		Tania
Sr. No	Week /date Week 1	Unit Unit-1	Topic Introduction
1	Week 1	OIIII-1	Applications of plant physiology in agriculture & horticulture
2			Importance of water, Diffusion & Osmosis
3			Importance of water, philasion & components
4			Transpiration and its significance
5			Factors affecting transpiration
6			Root pressure and guttation
	M/1- 2		
7	Week 2		Mechanism of Stomatal movements
8			Mechanism of Stomatal movements
			Tost & Drohlom Discussion Assignment 1
		Heit 2	Test & Problem Discussion, Assignment -1 Mineral nutrition
9		Unit-2	
10			Essential elements, macro and micronutrients Criteria of essentiality of elements
12			Role of essential elements
13	Week 3		Transport of ions across cell membrane
14	week 3		
15			Active transport Passive transport
16			Carriers, channels and pumps.
10			Test & Problem Discussion
17		Unit-3	Translocation in phloem :Composition of phloem sap
18		Onit-3	Girdling experiment
19	Week 4		Pressure flow model
20	WCCK 4		Phloem loading and unloading
20			Thiochi lodding tha thiotaling
21		Unit-4	Photosynthesis
22		Jane 1	Photosynthetic Pigments (Chl a, b)
23			Photosynthetic Pigments (vanthophylls, carotene)
24			Photosystem I and II
25	Week 5		Photosystem I and II
26			Reaction center, antenna molecules
27			Electron transport system
28			Mechanism of ATP synthesis
29			C3 pathways of carbon fixation
30			C4 pathways of carbon fixation
31	Week 6		CAM pathways of carbon fixation
32			Photorespiration
			Test & Problem Discussion Unit-3 &4 Assignment-2
33		Unit-5	Respiration
34			Glycolysis
35			Anaerobic respiration
36			TCA cycle
37	Week 7		Oxidative phosphorylation

38			Oxidative phosphorylation
39			Glyoxylate cycle
40			Oxidative Pentose Phosphate Pathway
41		Unit-6	Enzymes :introduction
42			Structure and properties of Enzyme
43	Week 8		Mechanism of enzyme catalysis
44			Enzyme inhibition.
			Test & Problem Discussion Unit-5 &6 Assignment-3
45		Unit-7	Nitrogen metabolism overview.
46			Biological nitrogen fixation
47			Nitrate and ammonia assimilation
48			Nitrate and ammonia assimilation
49	Week 9	Unit-8	Plant growth regulators
50			Discovery and physiological roles of auxins
51			Discovery and physiological roles of gibberellins
52			Discovery and physiological roles of cytokinins
53			Discovery and physiological roles of ABA
54			Discovery and physiological roles of ethylene.
			Test & Problem Discussion Unit-6&7 Assignment-4
55	Week 10	Unit-9	Plant response to light and temperature
56			Photoperiodism (SDP, LDP, Day neutral plants)
57			Phytochrome (discovery and structure)
58			Red and far red light responses on photomorphogenesis
59			Vernalization
60			Practical applications of vernalization and photoperiodism
			Test & Problem Discussion Unit 9, Assignment -5
			Revision
			Revision
			Practical Examination
			Annual Examination

	Department of Botany				
	LBS GC Saraswati Nagar				
Lesson I	Plan (Session 20	20-21)			
Class		B.Sc.2 nd			
Paper N	lomenclature:	Biofertilize	rs Paper Code: BOTA 203 (SEC-I)		
Teacher	rs' Name : Dr.	P.P. Chauhan			
Sr. No	Week /date	Unit	Topic		
1	Week 1	Unit-1	Fertilizers: Introduction		
2			Types of fertilizers		
3			and their advantages and disadvantages		
4			Brief account of microbes used as biofertilizer		
5			Marketable forms of biofertilizers		
6		Unit-2	Rhizobium: General account		
7	Week 2		Isolation & Identification,		
8			Mass multiplication		
9			Carrier based inoculants		
10			Application, Crop response		

	1		
11		Unit-3	Actinorrhizal Symbiosis- Frankia, Host-microsymbiont relationship
12			Isolation, Culture, Application and Advantages
			Test & Problem Discussion, Unit 1,2 & 3. Assignment -1
13	Week 3	Unit-4	Azospirillum: General Introduction
14			Azospirillum: Isolation and mass multiplication
15			Carrier based inoculants
16			Crop response to Azospirillum
17		Unit-5	Azotobacter: Characteristics
18			Azotobacter: Isolation and mass multiplication
19	Week 4		Application of <i>Azotobacter</i>
20			Crop response to Azotobacter
21		Unit-6	Phosphate Solubilizing Organisms: Introduction,
22			Phosphate Solubilizing Organisms: Isolation & Culture
23			Applications of Phosphate Solubilizing Organisms
			Test & Problem Discussion, Unit- 3,4 & 5 Assignment -2
24		Unit-7	Cyanobacteria (Blue Green Algae): G. Introduction
25	Week 5		Azolla
26			Anabaena azollae association
27			Nitrogen fixation by Cyanobacteria
28			Factors affecting growth
29			Blue green algae & Azolla in rice cultivation
30		Unit-8	Mycorrhizal Association: Introduction
31	Week 6		Types of mycorrhizal association
32			Taxonomy, Occurrence and distribution
33			Phosphorus nutrition, Growth and yield
34			VAM – Isolation and inoculum production
35			Influence on growth and yield of crop plants
36		Unit -9	Organic Farming: Introduction
37	Week 7		Green manuring
38			and organic fertilizers
39			Recycling of biodegradable municipal I wastes
40			Recycling of biodegradable agricultural wastes
41			Recycling of biodegradable Industrial wastes
42			Biocompost making methods
43	Week 8		Types and method of vermicomposting
44			Types and method of vermicompostin
45			Field Application
			Test & Problem Discussion Unit 7, 8 & 9. Assignment -3
			Revision
			Revision
			Annual Examination
	1		<u> </u>

	Department of Botany				
	LBS GC Saraswati Nagar				
Lesson Plan (Session 202	Lesson Plan (Session 2020-21)				
Class B.Sc.2 nd					

Paper Nomenclature:		Gardening	g and Floriculture Paper Code: BOTA 204 (SEC-II)
Teachers	Teachers' Name: Dr.		1
Sr. No	Week /date	Unit	Topic
1	Week 1	Unit-1	Definitions of Landscape Gardening
2			Definitions of Floriculture
3			History of gardening
4			Importance, status and scope of Floriculture
5			Importance, status and scope of Landscaping; landscaping of homes
6			Landscaping of educational institutions, highways and public parks
7	Week 2	Unit-2	Gardening operations: Soil laying, Manuring and, Watering procedures.
8			Management of pests and diseases, Soil sterilization; Seed sowing.
9			Pricking; Planting and transplanting; Shading; Stopping or pinching
10			Defoliation; Mulching; Pruning, Topiary making
11		Unit-3	Principles and Elements of Garden Designs
12			Some Famous gardens of India
13	Week 3		Formal and Informal gardens
14			English, Mughal and Japanese gardens
15			Features of a garden (Garden wall, Fencing, Steps)
16			Features of a garden (Hedge, Edging, Lawn, Flower beds)
17			Features of a garden (Shrubbery, Borders, Rock garden, Water garden).
			Test & Problem Discussion, Unit 1,2 & 3. Assignment -1
18		Unit-4	Propagation of Garden Plants: Introduction
19	Week 4		Sexual methods of propagation;
20			Vegetative methods of propagation
21			Role of plant growth regulators
22			Role of plant growth regulators
23		Unit-5	Ornamental Plants: Introduction
24			Flowering annuals
25	Week 5		Herbaceous perennials
26			Shrubs, Climbers
27			Ornamental trees
28			Ornamental bulbous plants
29			Ornamentals Palms and Cycads
30			Potted plants
31	Week 6		Indoor gardening
32			Bonsai
			Test & Problem Discussion, Unit 4 & 5. Assignment -2
33		Unit-6	Commercial Floriculture: Introduction
34			Factors affecting growth
35			Flower production of ornamentals
36			Cultivation of Important flower crops (Carnation
37	Week 7		Cultivation of Important flower crops (Chrysanthemum,)
38			Cultivation of Important flower crops Gerbera
39			Cultivation of Important flower crops Gladiolus,
40			Cultivation of Important flower crops Marigold
41			Cultivation of Important flower crops Rose & Lilium
42		Unit -7	Post Harvest Management: Introduction
43	Week 8		Post- harvest handling of important flower crops, methods to prolong vase life
44			Packaging, storage and transport of flower crops,
45			Flower arrangements and other floral crafts

	Test & Problem Discussion, Unit- 6 & 7 Assignment -3
	Revision
	Revision
	Annual Examination

			Department of Botany
			LBS GC Saraswati Nagar
Lesson I	Plan (Session 20	20-21)	
Class		B.Sc. 3 rd	
Paper N	lomenclature:	Economic	: Botany and Biotechnology Paper Code: BOTA 301 (DSE-IA)
Teacher	rs' Name :	Dr. P.P. Ch	
Sr. No	Week /date	Unit	Topic
1	Week 1	Unit-1	Cultivated Plants: Introduction
2			Research centres, Concept of centres of origin
3			Centres of origin, their importance with reference to Vavilov's work
4		Unit-2	Cereals: introduction
5			Wheat Origin, morphology
6			Wheat –Uses
7	Week 2		Rice Origin, morphology
8			Rice –uses
			Test & Problem Discussion, Unit 1 & 2 Assignment -1
9		Unit-3	Pulses & Vegetables : Introduction
10			General account with special reference to Gram
11			General account with special reference to soybean
12			General account with special reference to Potato
13	Week 3	Unit-4	Spices: General account with special reference to clove.
14			General account with special reference to black pepper, cinnamon.
15			General account with special reference to Ginger and Turmeric (Botanical name,
			family, part used, morphology and uses)
16		Unit-5	Beverages: Tea, morphology
17			Tea , processing & uses
			Coffee, morphology
18			Coffee, processing & uses
19	Week 4		Test & Problem Discussion, Unit 3,4,& 5. Assignment -2
20		Unit-6	Oils: General description with special reference to groundnut
21			Oils: General description with special reference to groundnut
22			Sugar: General description with special reference to sugarcane
23			Sugar: General description with special reference to sugarcane
24		Unit-7	Fibre Yielding Plants: General description
24			Cotton (Botanical name, family part used)
25	Week 5		Cotton morphology
26			Cotton uses
27			
28		Unit-8	Medicinal Plants : Brief account of <i>Ocimum</i> ,
29			Brief account of <i>Tinospora</i> , <i>Aloe</i> ,
30			Brief account of, Rauvolfia, Emblica and Cathranthus)
			Test & Problem Discussion, Unit -6,7 & 8.
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	1	1	1

31	Week 6	Unit-9	Introduction to Biotechnology
32			Introduction to Biotechnology : continue
33			Tissue culture techniques
34			Tissue culture techniques
35			Tissue culture techniques
36			Micropropagation
37	Week 7		Micropropagation
38			Haploid production through androgenesis
39			Haploid production through androgenesis
40			Gynogenesis
41			Brief account of embryo culture
42			Brief account of endosperm culture
43	Week 8		Applications of plant tissue culture in agriculture
44			Applications of plant tissue culture in horticulture
45			Applications of plant tissue culture in forestry.
			Test & Problem Discussion, Unit- 9 Assignment -3
46		Unit-10	Biotechnological Techniques
47			Introduction to r-DNA
48			Cloning vehicles,
49	Week 9		Gene transfer techniques in plants, Transgenic plants
50			Agarose electrophoresis
51			Blotting techniques
52			Northern, Southern and Western Blotting
53			DNA Fingerprinting
54			Molecular DNA markers i.e. RAPD, RFLP, SNPs
55	Week 10		DNA sequencing
56			PCR and Reverse Transcriptase-PCR
57			ELISA
58			Hybridoma and monoclonal an tibodies
59			ELISA and Immuno-detection
60			Molecular diagnosis of human disease, Human gene Therapy
			Test & Problem Discussion, Unit- 10 Assignment -4
			Revision
			Revision
			Practical Examination
			Annual Examination

	Department of Botany				
			LBS GC Saraswati Nagar		
Lesson F	Plan (Session 202	0-21)			
Class		B.Sc. 3 rd			
Paper N	omenclature:	Cell and Mo	olecular Biology Paper Code: BOTA 303 (DSE-IB)		
Teacher	s' Name : Dr.	P.P. Chauhar	1		
Sr. No	Week /date	Unit	Topic		
1	Week 1	Unit-1	nit-1 Techniques in Biology		
2	2 Principles of microscopy				

3			Light Microscopy	
4			Phase contrast microscopy	
5			Fluorescence microscopy	
6			Electron microscopy (EM)- Scanning EM	
7	Week 2		Scanning Transmission EM (STEM)	
8	WCCK Z		Sample ; X-ray diffraction analysis	
9		Unit-2	Cell as a unit of Life: The Cell Theory; Prokaryotic	
10		Offic-2	Eukaryotic cells; Cell size and shape; Eukaryotic Cell components.	
			Test & Problem Discussion, Unit 1 &2 Assignment -1	
11		Unit-3	Cell Organelles	
12		OIIIC-3	Mitochondria: Structure	
13	Week 3		Marker enzymes, composition	
14	Week 3		Semiautonomous nature; Symbiont hypothesis	
15			Proteins synthesized within mitochondria; mitochondrial DNA.	
16			Chloroplast Structure	
17			Marker enzymes, composition	
18			Semiautonomous nature, chloroplast DNA.	
19	Week 4		ER : Structures and roles	
20	Week 4		ER: roles	
21			Golgi body : Structures and roles	
22			Lysosomes: Structures and roles	
23			Peroxisomes : Structures and roles Peroxisomes : Structures, composition, functions in animals and plants and	
25			biogenesis	
24			Glyoxisomes: Structures, composition, functions in animals and plants and	
24			biogenesis	
25	Week 5		Nucleus	
26	Weeks		Nuclear Envelope- structure of nuclear pore complex	
27			Chromatin; molecular organization	
28			DNA packaging in eukaryotes	
29			Euchromatin and heterochromatin	
30			Nucleolus and ribosome structure (brief).	
			Test & Problem Discussion, Unit 2 Assignment -2	
31	Week 6	Unit-4	Cell Membrane	
32	- Treeste	0	Models of membrane structure, Carbohydrates in the membrane.	
33			The functions of membranes	
34			The fluidity of membranes; Membrane proteins and their functions.	
35			Faces of the membranes ,Selective permeability of the membranes	
36			Cell wall structure & functions	
37	Week 7	Unit-5	Cell Cycle	
38		5	Overview of Cell cycle	
39			Mitosis	
40			Meiosis	
41			Meiosis	
42			Molecular controls	
			Test & Problem Discussion, Unit 4 & 5	
43	Week 8	Unit-6	Genetic material	
44	cck o	51110	DNA Miescher to Watson and Crick- historic perspective	
			Griffith's and Avery's transformation experiments, Hershey-Chase bacteriophage	
45				
45			experiment,	

47			A replication prokaryotes and eukaryotes bidirectional replication	
48			Semi–conservative, semi discontinuous	
49	Week 9		R A priming, $\not 0$ theta mode of replication, replication of linear, ds- A, replicating the	
			end of linear chromosome including replication enzymes	
50		Unit-7	Transcription (Prokaryotes and Eukaryotes).	
51			Types of structures of RNA (mRNA)	
52			Types of structures of RNA (tRNA)	
53			Types of structures of RNA (rRNA)	
54			RNA polymerase- various types;	
55	Week 10		Translation (Prokaryotes and eukaryotes), genetic code	
			Test & Problem Discussion, Unit 6&7 . Assignment -3	
56		Unit-10	Regulation of gene expression	
57			Prokaryotes: Lac operon	
58			Prokaryotes: Lac operon	
59			Prokaryotes: Tryptophan operon	
60			Regulation & Gene Expression in Eukaryotes	
			Regulation & Gene Expression in Eukaryotes	
			Test & Problem Discussion	
			Revision	
			Revision	
			Practical Examination	
			Annual Examination	

	Department of Botany			
			LBS GC Saraswati Nagar	
Lesson F	Plan (Session 20	20-21)		
Class		B.Sc. 3 rd		
Paper N	omenclature:	Medicinal	Botany and Ethnobotany Paper Code: BOTA 306 (SEC-I)	
Teacher	s' Name : Dr.	P.P. Chauha	n	
Sr. No	Week /date	Unit	Topic	
1	Week 1	Unit-1	Traditional Systems of Medicine: Brief history of use of medicinal herbs	
2			Introduction to indigenous systems of medicines	
3			Ayurveda, system of medicine	
4			Unani system of medicine	
5			Siddha system of medicine	
-		11-2-2-2	Taken all attention of the state of the stat	
6	144 1 2	Unit-2	Ethnobotany: Introduction, concept, scope and objectives	
7	Week 2		Ethnobotany as an interdisciplinary science.	
8			The relevance of ethnobotany in the present context	
9			Major and minor ethnic groups or Tribals of India, and their life styles	
10			Major and minor ethnic groups or Tribals of India, and their life styles.	
			Test & Problem Discussion, Unit 1 &2 Assignment -1	
11		Unit-3	Plants Used by the Tribals: a) Food plants	
12			b) intoxicants and beverages	
13	Week 3		c) Resins and oils and miscellaneous uses	
14			d) Sacred plants	

15		Unit-4	Methodology of Ethnobotanical Studies: General	
16			a) Field work	
17			Field work	
18			b)Herbarium	
19	Week4		c) Ancient Literature	
20			d) Archaeological findings	
21			e) temples and sacred places	
			Test & Problem Discussion, Unit-3& 4 Assignment -2	
22		Unit-5	Role of ethnobotany in modern Medicine	
23			Medico-ethnobotanical sources in India	
24			Significance of the plants in ethno botanical practices (along with their habitat and	
			morphology) a) Azadiractha indica	
25	Week 5		b)Ocimum sanctum	
26			c) Vitex negundo	
27			d) Gloriosa superba	
28			e) Tribulus terrestris	
29			f) Pongamia pinnata	
30			g) Cassia auriculata	
31	Week 6		h) Indigofera tinctoria	
32			Role of ethnobotany in modern medicine with special example Rauvolfia sepentina,	
			Taxus wallichiana	
33			Role of ethnobotany in modern medicine with special example <i>Trichopus zeylanicus</i> ,.	
34			Role of ethnobotany in modern medicine with special example <i>Artemisia</i> , <i>Withania</i> .	
35		Unit-6	Role of ethnic groups in conservation of plant genetic resources.	
36			Endangered taxa and	
37	Week 7		Forest management (participatory forest management).	
			Test & Problem Discussion, Unit-5&6	
38		Unit-7	Ethnobotany and Legal Aspects.	
39			Ethnobotany as a tool to protect interests of ethnic groups.	
40			Sharing of wealth concept with few examples from India.	
41			Biopiracy	
42			Intellectual Property Rights	
43	Week 8		Intellectual Property Rights	
44			Traditional Knowledge	
45			Traditional Knowledge	
			Test & Problem Discussion, Unit-7 Assignment -3	
			Revision	
			Revision	
			Annual Examination	

Department of Botany				
	LBS GC Saraswati Nagar			
Lesson Plan (Session 20	20-21)			
Class	B.Sc. 3 rd			
Paper Nomenclature: Mushroom Cultivation Technology Paper Code: BOTA 307 (SEC-II)				
Teachers' Name : Dr. P.P. Chauhan				

Sr. No	Week /date	Unit	Topic
1	Week 1	Unit-1	Mushroom –Introduction
2			History
3			Nutritional and medicinal value of edible mushrooms
4			Nutritional and medicinal value of edible mushrooms
5			Nutrition and nutraceuticals – Proteins, amino acids
6			Nutrition and nutraceuticals- mineral elements nutrition
7	Week 2		Nutrition and nutraceuticals –carbohydrates
8			Nutrition and nutraceuticals -crude fibre content
9			Nutrition and nutraceuticals –vitamins
10			Poisonous mushrooms
11		Unit-2	Cultivation Technology: Infrastructure
12			Substrates (locally available) Polythene bag
13	Week 3		Substrates (locally available) Polythene bag
14			Vessels
15			Inoculation hook, inoculation loop,
16			Low cost stove, sieves, culture rack,
17			Mushroom unit (Thatched house) water sprayer, tray, small polythene bag.
18			Mushroom unit (Thatched house) water sprayer, tray, small polythene bag.
19	Week 4		Pure culture: Medium,
20			Pure culture: Sterilization
21			Pure culture: Preparation of spawn, Multiplication
22			Pure culture: Multiplication
			Test & Problem Discussion, Unit 1 &2 Assignment -1
23		Unit-3	Cultivation practices of Agaricus bisporus
24			Cultivation practices of <i>Pleurotus</i> sp.
25	Week 5		Cultivation practices of Volvoriella volvacea.
26			Composting technology in mushroom production
27			Composting technology in mushroom production
28			Low cost technology
29			Mushroom bed preparation - paddy straw
30			Mushroom bed preparation - sugarcane trash
31	Week 6		Mushroom bed preparation - maize straw
32			Mushroom bed preparation - banana leaves.
33			Factors affecting the mushroom bed preparation
34			Factors affecting the mushroom bed preparation
35		Unit-4	Storage: Short-term storage (Refrigeration - upto 24 hours)
36			Long term Storage :(canning, pickels, papads),
37	Week 7		Mushroom drying,
38			Storage in salt solutions
			Test & Problem Discussion, Unit 3 & 4 Assignment -2
39		Unit-5	Food Preparation: Types of foods prepared from mushroom
40			Research Centres -National level and Regional level
41			Cost benefit ratio - Marketing in India and abroad
42			Export Value

43	Week 8	Unit-6	Diseases of Mushrooms	
44			Diseases of Mushrooms	
45			Pests of Mushrooms	
			Test & Problem Discussion, Unit 5 & 6 Assignment -3	
			Revision	
			Revision	
			Annual Examination	

B.Sc. 1st Year [CHEM 101 TH]

Title: ATOMIC STRUCTURE, BONDING, GENERAL ORGANIC CHEMISTRY & ALIPHATIC HYDROCARBONS

S.NO.	UNIT / TOPIC	WEEKLY SCHEDULE	MONTH
1.	UNIT I - Atomic Structure: Bohr Theory Schrodinger wave equation.	1st week	
2.	Significance of ψ and ψ^2 1s & 2s atomic orbitals.	2nd week	
3.	Significance of quantum numbers Electronic configurations of the atoms.	3rd week	July
4.	Stability of half-filled and completely filled orbitals Slater rules and applications.	4th week	
5.	UNIT II - Chemical Bonding and Molecular Structure: Ionic Bonding: General characteristics lattice energy and solvation energy and their importance. Born-Landé equation.	1st week	
6.	Born-Haber cycle Fajan's rules percentage ionic character.	2nd week	August
7.	Covalent bonding- VB Approach: VSEPR Theory and hybridization.	3rd week	1
8.	Concept of resonance and resonating structures in various inorganic and organic compounds.	4th week	
9.	MO Approach: bonding and antibonding combination of orbitals, MO treatment of homonuclear and heteronuclear diatomic molecules such as CO, NO and NO ⁺ . Comparison of VB and MO approaches.	1st week	
10.	UNIT III - Fundamentals of Organic Chemistry: Inductive Effect, Electromeric Effect, Resonance and Hyperconjugation. Cleavage of Bonds: Homolysis and Heterolysis.	2nd week	September
11.	Structure, shape and reactivity of organic molecules: Nucleophiles and electrophiles. Reactive Intermediates: Carbocations, Carbanions and free radicals.	3rd week	
12.	Strength of organic acids and bases: Comparative study with emphasis on factors affecting pK values. Aromaticity: Benzenoids and Hückel's rule.	4th week	
13.	Stereochemistry: Conformations Interconversion of Wedge Formula, Newman, Sawhorse and Fischer projections. Concept of chirality.	1st week	
14.	Configuration: Geometrical and Optical isomerism; Enantiomerism, Diastereomerism and Meso compounds).	2nd week	October
15.	Threo and erythro; D and L; cis-trans nomenclature; R / S and E / Z Nomenclature.	3rd week	1
16.	CLASS POWERPOINT PRESENTATIONS	4th week	1
17.	Aliphatic Hydrocarbons: Overview of alkanes, alkenes and alkynes. Their preparations and reactions.	1st week	
18.	Alkanes: Preparation: Catalytic hydrogenation, Wurtz reaction, Kolbe's synthesis, from Grignard reagent. Reactions: Free radical Substitution: Halogenation.	2nd week	November
19.	Alkenes: Preparation: Elimination reactions: Dehydration of alkenes and dehydrohalogenation of alkyl halides (Saytzeff's rule)	3rd week	
20.	Cis alkenes (Partial catalytic hydrogenation) and Trans alkenes (Birch reduction).	4th week	1
21.	MID - TERM EXAMINATION (Tentative)	1st or 2nd week	
22.	Cis and trans-addition, Markownikoff's and anti-Markownikoff's addition.	3rd week	December
23.	Hydration, Ozonolysis, oxymecuration-demercuration, Hydroboration-oxidation.	4th week	
24.	Alkynes: Preparation: Acetylene from CaC2 and conversion into higher alkynes; by dehalogenation of tetra halides and dehydrohalogenation of vicinal-dihalides.	3rd week	
25.	Reactions: Formation of metal acetylides, addition of bromine and alkaline KMnO4, ozonolysis and oxidation with hot alkaline KMnO4.	4th week	February
26.	CLASS POWERPOINT PRESENTATIONS	1st week	
27.	REVISION & CLASS TESTS	2nd & 3rd week	March
28.	MID - TERM EXAMINATION (Tentative)	4th week	1
29.	FINAL REVISION	1st & 2nd week	April

^{*}The schedule is subject to changes depending upon the circumstances.

^{*}Class tests and assignment submission to be held at the end of each unit.

^{*}Practical classes would be taken up as per the time table.

B.Sc. 1st Year [CHEM 102 TH]

Title: STATES OF MATTER, CHEMICAL KINETICS & FUNCTIONAL ORGANIC CHEMISTRY

S.NO.	UNIT / TOPIC	WEEKLY SCHEDULE	MONTH
1.	UNIT I - Kinetic Theory of Gases: Kinetic Theory of Gases, kinetic gas equation. Deviation of real gases from ideal behaviour causes of deviation. Van der Waals equation of state for real gases.	1st week	
2.	Boyle temperature (derivation not required). Critical phenomena, critical constants and their calculation from van der Waals equation. Andrews isotherms of CO ₂ .	2nd week	July
3.	Maxwell Boltzmann distribution laws importance & Temperature dependence.	3rd week	
4.	Most probable, average and root mean square velocities. Collision cross section, number, frequency, diameter and mean free path of molecules.	4th week	
5.	Viscosity of gases and effect of temperature and pressure on coefficient of viscosity.	1st week	
6.	Liquids: Surface tension and its determination using stalagmometer. Viscosity of a liquid and determination of coefficient of viscosity using Ostwald viscometer. Effect of temperature on surface tension and coefficient of viscosity of a liquid	2nd week	August
7.	UNIT II - Solids: Forms of solids. Symmetry elements, unit cells, crystal systems, Bravais lattice types and identification of lattice planes.	3rd week	
8.	Laws of Crystallography - Law of constancy of interfacial angles, Law of rational indices. Miller indices. X–Ray diffraction by crystals, Bragg's law.	4th week	
9.	Structures of NaCl, KCl and CsCl (qualitative treatment only). Defects in crystals.	1st week	
10.	Chemical Kinetics: The concept of reaction rates. Effect of temperature, pressure, catalyst and other factors on reaction rates. Order and molecularity of a reaction.	2nd week	
11.	Derivation of integrated rate equations for zero, first and second order reactions.	3rd week	1
12.	Half-life of a reaction, methods for determination of order of a reaction, activation energy and its calculation from Arrhenius equation.	4th week	September
13.	Theories of Reaction Rates: Collision theory and Activated Complex theory of bimolecular reactions. Comparison of the two theories.	1st week	
14.	UNIT III - Aromatic hydrocarbons: Preparation (Case benzene): from phenol, by decarboxylation, from acetylene, from benzene sulphonic acid.	2nd week	October
15.	Electrophilic substitution Side chain oxidation of alkyl benzenes	3rd week	1
16.	CLASS POWERPOINT PRESENTATIONS	4th week	
17.	Alkyl Halides: Types of Nucleophilic Substitution (SN ₁ , SN ₂ and SNi) reactions. Preparation of alkyl halides from alkenes and alcohols. Reactions.	1st week	
18.	Aryl Halides: Preparation, Sandmeyer & Gattermann reactions. Aromatic nucleophilic substitution, Benzyne Mechanism	2nd week	November
19.	UNIT IV - Alcohols: Preparation of alcohols and Reactions With sodium, HX (Lucas test), esterification, oxidation. Oppeneauer oxidation.	3rd week	
20.	Diols: oxidation of diols. Pinacol-Pinacolone rearrangement. Phenols: Preparation & Reactions. Reimer - Tiemann, Gattermann-Koch, Houben-Hoesch Condensation, Schotten – Baumann Reaction.	4th week	
21.	MID - TERM EXAMINATION (Tentative)	1st or 2nd week	
22.	Ethers (aliphatic and aromatic): Cleavage of ethers with HI.	3rd week	December
23.	Aldehydes and ketones:. Preparation & Reactions.	4th week	
24.	Aldol Condensation, Cannizzaro's reaction, Wittig reaction, Benzoin condensation.	3rd week	
25.	Clemensen reduction Wolff Kishner reduction, Meerwein-Pondorff Verley reduction.	4th week	February
26.	CLASS POWERPOINT PRESENTATIONS 1st week		
27.	REVISION & CLASS TESTS	2nd & 3rd week	March
28.	MID - TERM EXAMINATION (Tentative)	4th week	
29.	FINAL REVISION	1st & 2nd week	April

^{*}The schedule is subject to changes depending upon the circumstances.

^{*}Class tests and assignment submission to be held at the end of each unit.

^{*}Practical classes would be taken up as per the time table.

B.Sc. 2nd Year [CHEM 201TH]

Title: SOLUTIONS, PHASE EQUILIBRIUM, CONDUCTANCE, ELECTROCHEMISTRY & ORGANIC CHEMISTRY

S.NO.	UNIT / TOPIC	WEEKLY	MONTH	
b.110.	CIVITY TOTIC	SCHEDULE	MONTH	
1.	UNIT I - Solutions: Thermodynamics of ideal solutions: Ideal solutions and	1st week	+	
1.	Raoult's law, deviations from Raoult's law – non-ideal solutions.	1st week		
2.	Vapour pressure-composition and temperature composition curves of ideal and non-	2nd week	†	
	ideal solutions. Distillation of solutions. Lever rule. Azeotropes.	2110 111011		
3.	Partial miscibility of liquids: Critical solution temperature; effect of impurity on	3rd week	July	
	partial miscibility of liquids. Nernst distribution law and its applications, solvent		1	
	extraction.			
4.	Phase Equilibrium: Phases, components and degrees of freedom of a system,	4th week	1	
	criteria of phase equilibrium.			
5.	Gibbs Phase Rule and its thermodynamic derivation. Derivation of Clausius -	1st week		
	Clapeyron equation and its importance in phase equilibria.			
6.	Phase diagrams of one-component and two component systems involving eutectics,	2nd week		
	congruent and incongruent melting points.		August	
7.	UNIT II - Conductance: Conductivity, equivalent and molar Kohlrausch law	3rd week		
	of independent migration of ions.		4	
8.	Transference number and its experimental determination using Hittorf and Moving	4th week		
0	boundary methods. Ionic mobility.	1.71		
9. 10.	Applications of conductance measurement Conductometric titrations.	1st week	4	
10.	Electrochemistry: Reversible and irreversible cells. EMF of a cell & its	2nd week		
11.	Measurement. Nernst equation Electrochemical series. Thermodynamics of a reversible cell Calculation of equilibrium constant.	3rd week	-	
12.	Concentration cells, Liquid junction potential and salt bridge. pH determination	4th week	September	
12.	using hydrogen electrode and quinhydrone electrode.	4III WEEK	September	
13.	UNIT III - Carboxylic acids - Preparation & Reactions, HVZ Reaction.	1st week		
14.	Carboxylic acid derivatives: Preparation: Acid chlorides, Anhydrides, Esters and	2nd week	1	
1-7.	Amides from acids and their inter conversion.	Zha week		
15.	Comparative study of nucleophilicity of acyl derivatives. Reformatsky Reaction,	3rd week	October	
	Perkin condensation.			
16.	CLASS POWERPOINT PRESENTATIONS	4th week	1	
17.	Amines and Diazonium Salts: Amines, Preparation, Gabriel's Phthalimide	1st week		
	synthesis, Hofmann Bromamide reaction. Hofmann vs. Saytzeff elimination.			
18.	Carbylamine test, Hinsberg test, Schotten - Baumann Reaction. Electrophilic	2nd week		
	substitution Diazonium salts: Preparation & Reactions.		November	
19.	UNIT IV - Carbohydrates: Classification, and General Properties, Glucose and	3rd week		
	Fructose.		_	
20.	Determination of configuration of monosaccharides,	4th week		
21.	MID - TERM EXAMINATION (Tentative)	1st or 2nd week	」	
22.	Absolute configuration of Glucose and Fructose.	3rd week	December	
23.	Mutarotation, ascending and descending in monosaccharide.	4th week	ļ	
24.	Structure of Disaccharides (sucrose, maltose, lactose) & Polysaccharides (starch and	3rd week	February	
25	cellulose).	4.1 1	4	
25.	REVISION & CLASS TESTS	4th week	1	
26.	CLASS POWERPOINT PRESENTATIONS DEVICED A SCIENCE OF A SC	1st week	Mon-1-	
27.	REVISION & CLASS TESTS	2nd & 3rd week	March	
28.	MID - TERM EXAMINATION (Tentative)	4th week	A:1	
29.	FINAL REVISION	1st & 2nd week	April	

^{*}The schedule is subject to changes depending upon the circumstances.

^{*}Class tests and assignment submission to be held at the end of each unit.

^{*}Practical classes would be taken up as per the time table.

B.Sc. 2nd Year [CHEM 202TH]

Title: CHEMISTRY OF MAIN GROUP ELEMENTS, CHEMICAL ENERGETICS AND EQUILIBRIA

S.NO.	UNIT / TOPIC	WEEKLY	MONTH	
		SCHEDULE		
1.	UNIT I - Hydrogen: Unique position of Hydrogen in the periodic table, isotopes.	1st week		
2.	Ortho and para hydrogen, Industrial production.	2nd week	July	
3.	Hydrides and their chemistry, Heavy water, Hydrogen bonding, Hydrates.	3rd week		
4.	S-Block Elements: Periodicity of elements electronegativity (Pauling Scale).	4th week		
5.	Solvation and complexation tendencies and solutions of metals in liquid ammonia.	1st week		
6.	General characteristics of s-block elements like density, melting points, flame colouration and reducing character.	2nd week		
7.	UNIT II - P- Block Elements: Comparative studies including diagonal relationship of group 13 and 14 elements. Borohydrides, Hydrides, oxide and oxy-acids and halides of boron.			
8.	Borax, Borazine ,allotropic forms of carbon, fullerenes, carbides of calcium and silicon.	4th week		
9.	Hydrides, oxides, oxoacids and halides of nitrogen. Allotropic forms of phosphorous.	1st week		
10.	Hydrides, halides, oxides and oxyacids of phosphorous. Basic properties of halogens and inter halogen compounds, pseudohalogens and poly halides.	2nd week		
11.	Noble Gases: Occurrence, History of discovery and isolation. Preparation, properties and structure of flourides, oxides, oxyflorides of xenon.	3rd week	September	
12.	Krypton difloride and clatherate compounds of noble gases.	4th week	1	
13.	UNIT III - Chemical Energetics - Laws of Thermodynamics. Important principles and definitions of thermochemistry.	1st week		
14.	Standard state and standard enthalpies of formations, enthalpies of solution and dilution.	2nd week	October	
15.	Bond energy, bond dissociation energy and resonance energy. Kirchhoff's equation.	3rd week	1	
16.	CLASS POWERPOINT PRESENTATIONS	4th week	1	
17.	Statement of Third Law of thermodynamics and calculation of absolute entropies of substances.	1st week		
18.	UNIT IV - Chemical Equilibrium: Free energy change in a chemical reaction. Thermodynamic derivation of the law of chemical equilibrium.	2nd week	November	
19.	Distinction between ΔG and ΔG^{o} , Le Chatelier's principle. Relationships between Kp, Kc and Kx for reactions involving ideal gases.	3rd week		
20.	Ionic Equilibria: Strong, moderate and weak electrolytes, degree of ionization, factors affecting degree of ionization, ionization constant and ionic product of water.	4th week		
21.	MID - TERM EXAMINATION (Tentative)	1st or 2nd week		
22.	Ionization of weak acids and bases, pH scale, common ion effect.	3rd week	December	
23.	Salt hydrolysis-calculation of hydrolysis constant, degree of hydrolysis and pH for different salts. Buffer solutions.			
24.	Solubility and solubility product of sparingly soluble salts – applications of solubility product principle.	3rd week	February	
25.	REVISION & CLASS TESTS	4th week		
26.	CLASS POWERPOINT PRESENTATIONS	1st week		
27.	REVISION & CLASS TESTS	2nd & 3rd week	March	
28.	MID - TERM EXAMINATION (Tentative)	4th week		
29.	FINAL REVISION	1st & 2nd week	April	

^{*}The schedule is subject to changes depending upon the circumstances.

^{*}Class tests and assignment submission to be held at the end of each unit.

^{*}Practical classes would be taken up as per the time table.

B.Sc. 2nd Year [CHEM 203TH]

Title: BASIC ANALYTICAL CHEMISTRY

S.NO.	UNIT / TOPIC	WEEKLY SCHEDULE	MONTH
1.	UNIT I - Introduction: Introduction to Analytical Chemistry and its interdisciplinary nature.	1st week	July
2.	Concept of sampling. Importance of accuracy, precision and sources of error in analytical measurements.	2nd week	
3.	Presentation of experimental data and results, from the point of view of significant figures.	3rd week	
4.	Analysis of soil: Composition of soil, Concept of pH and pH measurement.	4th week	
5.	Complexometric titrations, Chelation, Chelating agents, use of indicators.	1st week	
6.	Determination of pH of soil samples.	2nd week	
7.	Estimation of Calcium and Magnesium ions as Calcium carbonate by complexometric titration.	3rd week	August
8.	UNIT II - Analysis of water: Definition of pure water, sources responsible for contaminating water, water sampling methods, water purification methods.	4th week	
9.	Determination of pH, acidity and alkalinity of a water sample.	1st week	
10.	Determination of dissolved oxygen (DO) of a water sample.	2nd week	
11.	Analysis of food products: Nutritional value of foods, idea about food processing and food preservations and adulteration.	3rd week	
12.	Identification of adulterants in some common food items like coffee powder, asafoetida, chilli powder, turmeric powder, coriander powder and pulses, etc.	wder, 4th week Septemb	
13.	Analysis of preservatives and colouring matter.	1st week	
14.	UNIT III - Chromatography: Definition, general introduction on principles of chromatography, paper chromatography, TLC etc.	2nd week	
15.	Paper chromatographic separation of mixture of metal ion (Fe3+ and Al3+). To compare paint samples by TLC method.	3rd week	October
16.	CLASS POWERPOINT PRESENTATIONS	4th week	1
17.	Ion-exchange: Column, ion-exchange chromatography etc.	1st week	
18.	Determination of ion exchange capacity of anion / cation exchange resin (using batch procedure if use of column is not feasible).	2nd week	
19.	UNIT IV - Analysis of cosmetics: Major and minor constituents and their function Analysis of deodorants and antiperspirants, Al, Zn, boric acid, chloride, sulphate.	3rd week	November
20.	Determination of constituents of talcum powder: Magnesium oxide, Calcium oxide, Zinc oxide and Calcium carbonate by complexometric titration.	4th week	
21.	MID - TERM EXAMINATION (Tentative)	1st or 2nd week	
22.	Suggested Applications: To study the use of phenolphthalein in trap cases. To analyze arson accelerants. To carry out analysis of gasoline.	3rd week	December
23.	Suggested Instrumental demonstrations: Estimation of macro nutrients: in soil samples by flame photometry. Spectrophotometric determination of Iron in Vitamin / Dietary Tablets.	4th week	
24.	Spectrophotometric Identification and Determination of Caffeine and Benzoic Acid in Soft Drink.	3rd week	February
25.	REVISION & CLASS TESTS	4th week	7
26.	CLASS POWERPOINT PRESENTATIONS	1st week	
27.	REVISION & CLASS TESTS	2nd & 3rd week	March
28.	MID - TERM EXAMINATION (Tentative)	4th week	
29.	FINAL REVISION	1st & 2nd week	April

^{*}The schedule is subject to changes depending upon the circumstances.

^{*}Class tests and assignment submission to be held at the end of each unit.

B.Sc. 2nd Year [CHEM 204TH]

Title: FUEL CHEMISTRY & CHEMISTRY OF COSMETICS & PERFUMES

S.NO.	UNIT / TOPIC	WEEKLY SCHEDULE	MONTH
1.	UNIT I - Review of energy sources (renewable and non-renewable). Classification of fuels and their calorific value.	1st week	July
2.	Coal: Uses of coal (fuel and nonfuel) in various industries, its composition, carbonization of coal.	2nd week	
3.	Coal gas, producer gas and water gas—composition and uses.	3rd week	1
4.	Fractionation of coal tar, uses of coal tar bases chemicals, requisites of a good metallurgical coke.	4th week	
5.	Coal gasification (Hydro gasification and Catalytic gasification), Coal liquefaction and Solvent Refining.	1st week	
6.	Petroleum and Petrochemical Industry: Composition of crude petroleum.	2nd week	1
7.	Refining and different types of petroleum products and their applications.	3rd week	August
8.	UNIT II - Fractional Distillation (Principle and process), Cracking (Thermal and catalytic cracking).	4th week	
9.	Reforming Petroleum and non-petroleum fuels (LPG, CNG, LNG, bio-gas, fuels derived from biomass).	1st week	
10.	Fuel from waste, synthetic fuels (gaseous and liquids), clean fuels.	2nd week	1
11.	Petrochemicals: Vinyl acetate, Propylene oxide, Isoprene, Butadiene, Toluene and its derivatives Xylene.	3rd week	September
12.	Lubricants: Classification of lubricants, lubricating oils (conducting and non-conducting) Solid and semisolid lubricants, synthetic lubricants.	4th week	
13.	Properties of lubricants (viscosity index, cloud point, pore point) and their determination.	1st week	
14.	UNIT III - A general study including preparation and uses of the following: Hair dye, hair spray, shampoo.	2nd week	October
15.	Suntan lotions, face powder, lipsticks.	3rd week	1
16.	CLASS POWERPOINT PRESENTATIONS	4th week]
17.	Talcum powder, nail enamel, creams (cold, vanishing and shaving creams).	1st week	
18.	Antiperspirants and artificial flavours.	2nd week	
19.	UNIT IV - Essential oils and their importance in cosmetic industries.	3rd week	
20.	Eugenol, Geraniol.	4th week	November
21.	MID - TERM EXAMINATION (Tentative)	1st or 2nd week	
22.	Sandalwood oil, eucalyptus, rose oil.	3rd week	December
23.	2-Phenyl ethyl alcohol, Jasmone.	4th week	
24.	Civetone, Muscone.	3rd week	February
25.	REVISION & CLASS TESTS	4th week	
26.	CLASS POWERPOINT PRESENTATIONS	1st week	_
27.	REVISION & CLASS TESTS	2nd & 3rd week	March
28.	MID - TERM EXAMINATION (Tentative)	4th week	
29.	FINAL REVISION	1st & 2nd week	April

^{*}The schedule is subject to changes depending upon the circumstances.

^{*}Class tests and assignment submission to be held at the end of each unit.

B.Sc. 3rd Year [CHEM 301TH]

Title: POLYNUCLEAR HYDROCARBONS, DYES, HETEROCYCLIC COMPOUNDS AND SPECTROSCOPY (UV, IR, NMR)

S.NO.	UNIT / TOPIC	WEEKLY	MONTH		
		SCHEDULE			
1.	UNIT I - Polynuclear Hydrocarbons: Synthesis & reactions of Naphthalene.	1st week			
2.	Anthracene & Phenanthrene.	2nd week	July		
3.	Relative reactivity of these compounds at various positions.	3rd week			
4.	Synthetic dyes: Colour and constitution [electronic concept], classification of dyes.	4th week			
5.	Chemistry and synthesis of methyl orange, congo red, malachite green, crystal violet	1st week			
6.	Phenolphthalein, fluorescein, alizarin and indigo.	2nd week			
7.	thiophene & pyridine.		August		
8.	Methods of synthesis, chemical reactions with emphasis on mechanism of electrophilic substitution.	4th week			
9.	Mechanism of nucleophilic substitution reactions in pyridine, comparison of basicity of pyridine, piperidine and pyrrole.	1st week			
10.	Introduction to condensed five & six-membered heterocyclic compounds, preparation.	2nd week			
11.	Reactions of indole quinoline & isoquinoline with special reference to Fisher indole synthesis Skraup synthesis & Bischler – Napieralski synthesis.	3rd week	September		
12.	Mechanism of electrophilic substitution reactions of indole, quinoline, & 4th week isoquinoline.				
13.	UNIT III - Application of UV and IR Spectroscopy to Simple Organic Molecules: Application of visible, ultraviolet and Infrared spectroscopy in organic molecules.	1st week			
14.	Electromagnetic radiations, electronic transitions, λmax. & Emax. chromophore, auxochrome, bathochromic and hypsochromic shifts.	2nd week	October		
15.	Application of electronic spectroscopy and Woodward rules for calculating λ max. of conjugated dienes and α , β – unsaturated compounds.	3rd week			
16.	CLASS POWERPOINT PRESENTATIONS	4th week			
17.	Infrared radiation and types of molecular vibrations, functional group and fingerprint region.	1st week			
18.	IR spectra of alkanes, alkenes and simple alcohols, aldehydes, ketones, carboxylic acids and their derivatives.	2nd week	November		
19.	UNIT IV - Nuclear Magnetic Resonance Spectroscopy: Principle of nuclear magnetic resonance, number of signals, peak areas.	3rd week			
20.	Equivalent & non-equivalent protons, positions of signals, chemical shift.	4th week			
21.	MID - TERM EXAMINATION (Tentative)	1st or 2nd week			
22.	Shielding & deshielding of protons, proton counting, splitting of signals & coupling constants, magnetic equivalence of protons.	& deshielding of protons, proton counting, splitting of signals & coupling 3rd week Decem			
23.	Discussion of PMR spectra of molecules: ethyl bromide acetophenone.	4th week			
24.	Simple problems on PMR spectroscopy for structure determination of organic compounds.	3rd week	February		
25.	REVISION & CLASS TESTS	4th week			
26.	CLASS POWERPOINT PRESENTATIONS	1st week			
27.	REVISION & CLASS TESTS	2nd & 3rd week	March		
28.	MID - TERM EXAMINATION (Tentative)	4th week			
29.	FINAL REVISION	1st & 2nd week	April		

^{*}The schedule is subject to changes depending upon the circumstances.

^{*}Class tests and assignment submission to be held at the end of each unit.

^{*}Practical classes would be taken up as per the time table.

B.Sc. 3rd Year [CHEM 305TH]

Title: POLYMER CHEMISTRY

S.NO.	O. UNIT / TOPIC		MONTH
		SCHEDULE	
1.	UNIT I - Introduction and history of polymeric materials:	1st week	
	Different schemes of classification of polymers, Polymer nomenclature.		July
2.	Molecular forces and chemical bonding in polymers, Texture of Polymers.	2nd week	
3.	Functionality and its importance: Criteria for synthetic polymer formation,	3rd week	
	classification of polymerization processes,		
4.	Relationships between functionality, extent of reaction and degree of	4th week	
	polymerization.		
5.	Bifunctional systems, Poly-functional systems.	1st week	
6.	UNIT II - Kinetics of Polymerization: Mechanism and kinetics of step growth,	2nd week	
	radical chain growth.		
7.	Ionic chain (both cationic and anionic) and coordination polymerizations,	3rd week	August
8.	Mechanism and kinetics of copolymerization, polymerization techniques.	4th week	
9.	Crystallization and crystallinity: Determination of crystalline melting point and	1st week	
	degree of crystallinity.		
10.	Morphology of crystalline polymers, Factors affecting crystalline melting point.	2nd week	
11.	Nature and structure of polymers-Structure Property relationships.	3rd week	
12.	UNIT III - Determination of molecular weight of polymers (Mn, Mw, etc) by end	4th week	September
	group analysis, viscometry, light scattering and osmotic pressure methods.		
13.	Molecular weight distribution and its significance. Polydispersity index.	1st week	
14.	Glass transition temperature (Tg) and determination of Tg, Free volume theory,	2nd week	1
	WLF equation, Factors affecting glass transition temperature (Tg).		
15.	Polymer Solution – Criteria for polymer solubility, Solubility parameter.	3rd week	October
16.	CLASS POWERPOINT PRESENTATIONS	4th week	1
17.	Thermodynamics of polymer solutions, entropy, enthalpy, and free energy change of	1st week	
	mixing of polymers solutions.		
18.	Flory- Huggins theory, Lower and Upper critical solution temperatures.	2nd week	
19.	UNIT IV - Properties of Polymers (Physical, thermal, Flow & Mechanical	3rd week	November
	Properties).	ord woon	
20.	Brief introduction to preparation, structure, properties and application of the	4th week	
	following polymers: polyolefins, polystyrene and styrene copolymers.		
21.	MID - TERM EXAMINATION (Tentative)	1st or 2nd week	
22.	Poly(vinyl chloride) and related polymers, poly(vinyl acetate) and related polymers,	3rd week	December
	acrylic polymers.	Sid week	Beechie
23.	Fluoro polymers, polyamides and related polymers. Phenol formaldehyde resins	4th week	1
23.	(Bakelite, Novalac), polyurethanes, silicone polymers, polydienes.	THI WEEK	
24.	Polycarbonates, Conducting Polymers, [polyacetylene, polyaniline, poly(p-	3rd week	February
27.	phenylene sulphide polypyrrole, polythiophene)].	Sid week	reordary
25.	REVISION & CLASS TESTS	4th week	1
26.	CLASS POWERPOINT PRESENTATIONS	1st week	
27.	REVISION & CLASS TESTS	2nd & 3rd week	March
28.	MID - TERM EXAMINATION (Tentative)	4th week	17101011
29.		1st & 2nd week	April
29.	FINAL REVISION	18t & Ziid week	April

^{*}The schedule is subject to changes depending upon the circumstances.

^{*}Class tests and assignment submission to be held at the end of each unit.

^{*}Practical classes would be taken up as per the time table.

B.Sc. 3rd Year [CHEM 307TH]

Title: CHEMICAL TECHNOLOGY & SOCIETY AND BUSINESS SKILLS FOR CHEMISTRY

S.NO.	UNIT / TOPIC	WEEKLY SCHEDULE	MONTH
1.	UNIT I - Chemical Technology: Basic principles of distillation, solvent extraction.	1st week	
2.	Solid-liquid leaching and liquid-liquid extraction, separation by absorption and adsorption.	2nd week	July
3.	An introduction into the scope of different types of equipment needed in chemical technology.	3rd week	
4.	Reactors, distillation columns, extruders.	4th week	
5.	Pumps, mills, emulgators.	1st week	
6.	Scaling up operations in chemical industry.	2nd week	
7.	Introduction to clean technology.	3rd week	August
8.	UNIT II – Society: Exploration of societal and technological issues from a chemical perspective.	4th week	
9.	Chemical and scientific literacy as a means to better understand topics like air and water (and the trace materials found in them that are referred to as pollutants).	1st week	
10.	Energy from natural sources (i.e. solar and renewable forms), from fossil fuels and from nuclear fission.	2nd week	September
11.	Materials like plastics and polymers and their natural analogues, proteins and nucleic acids	3rd week	
12.	Molecular reactivity and interconversions from simple examples like combustion to complex instances like genetic engineering and the manufacture of drugs.	4th week]
13.	UNIT III - Business Basics: Key business concepts.	1st week	
14.	Business plans, market need.	2nd week	
15.	Project management and routes to market.	3rd week	
16.	CLASS POWERPOINT PRESENTATIONS	4th week	October
17.	Chemistry in Industry Current challenges and opportunities for the chemistry-using industries.	1st week	
18.	Role of chemistry in India and global economies.	2nd week	
19.	UNIT IV - Making money: Financial aspects of business.	3rd week	November
20.	Case studies.	4th week	
21.	MID - TERM EXAMINATION (Tentative)	1st or 2nd week	
22.	Intellectual property Concept of intellectual property.	3rd week	December
23.	Patents.	4th week	
24.	REVISION & CLASS TESTS	3rd week	February
25.	REVISION & CLASS TESTS	4th week	
26.	CLASS POWERPOINT PRESENTATIONS	1st week	
27.	REVISION & CLASS TESTS	2nd & 3rd week	March
28.	MID - TERM EXAMINATION (Tentative)	4th week	
29.	FINAL REVISION	1st & 2nd week	April

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^{*}Class tests and assignment submission to be held at the end of each unit.

B.Sc. 3rd Year [CHEM 308TH]

Title: PESTICIDE CHEMISTRY & PHARMACEUTICAL CHEMISTRY

S.NO.	UNIT / TOPIC	WEEKLY SCHEDULE	MONTH
1.	UNIT I - General introduction to pesticides.	1st week	
2.	Natural and synthetic pesticides.	2nd week	July
3.	Benefits and adverse effects.	3rd week	
4.	Changing concepts of pesticides.	4th week	
5.	Structure activity relationship.	1st week	
6.	UNIT II – Synthesis and technical manufacture and uses of representative pesticides.	2nd week	
7.	Organochlorines (DDT, Gammexene).	3rd week	August
8.	Organophosphates (Malathion, Parathion).	4th week	
9.	Carbamates (Carbofuran and carbaryl).	1st week	
10.	Quinones (Chloranil).	2nd week	September
11.	Anilides (Alachlor and Butachlor).	3rd week	
12.	UNIT III - Drugs & Pharmaceuticals Drug discovery, design and development.	4th week	
13.	Basic Retrosynthetic approach. Synthesis of the representative drugs of the following classes: analgesics agents, antipyretic agents.	1st week	
14.	Anti-inflammatory agents (Aspirin, paracetamol, lbuprofen); antibiotics (Chloramphenicol).	2nd week	October
15.	Antibacterial and antifungal agents (Sulphonamides; Sulphanethoxazol, Sulphacetamide, Trimethoprim); antiviral agents (Acyclovir).	3rd week	
16.	CLASS POWERPOINT PRESENTATIONS	4th week	
17.	Central Nervous System agents (Phenobarbital, Diazepam).	1st week	
18.	Cardiovascular (Glyceryl trinitrate), antilaprosy (Dapsone).	2nd week	
19.	HIV-AIDS related drugs (AZT- Zidovudine).	3rd week	
20.	UNIT IV - Fermentation Aerobic and anaerobic fermentation.	4th week	November
21.	MID - TERM EXAMINATION (Tentative)	1st or 2nd week	
22.	Production of (i) Ethyl alcohol and citric acid.	3rd week	December
23.	(ii) Antibiotics; Penicillin, Cephalosporin, Chloromycetin and Streptomycin.	4th week	
24.			February
25.	REVISION & CLASS TESTS	4th week	1
26.	CLASS POWERPOINT PRESENTATIONS	1st week	
27.	REVISION & CLASS TESTS	2nd & 3rd week	March
28.	MID - TERM EXAMINATION (Tentative)	4th week	1
29.	FINAL REVISION	1st & 2nd week	April

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^{*}Class tests and assignment submission to be held at the end of each unit.

	LECTURE PLAN B.Sc. Mathematics (2020-21)					
	MATH101TH CORE COURSE DIFFERENTIAL CALCULUS 1st Year					
I	Limit and Continuity (epsilon and delta definition), Types of discontinuities, Differentiability offunctions, Successive differentiation, Leibnitz's theorem, Indeterminate forms.	Three weeks				
II	Rolle's theorem, Lagrange's & Cauchy Mean Value theorems, Taylor's theorem with Lagrange's and Cauchy's forms of remainder, Taylor's series. Maclaurin's series of sin x, cos x, e x , log(l+x), (l+x)m ,	Three weeks				
III	Concavity, Convexity & Points of Inflexion, Curvature, Asymptotes, Singular points, Parametric representation of curves and tracing of curves in parametric form, Polar coordinates and tracing of curves in polar coordinates.	Three weeks				
IV	Functions of several variables (upto three variables): Limit and Continuity of these functions Partial differentiation, Euler's theorem on homogeneous functions, Maxima and Minima with Lagrange Multipliers Method (two variables), Jacobian (upto three variables).	Three weeks				
т	MATH102TH CORE COURSE DIFFERENTIAL EQUATIONS 1st Year	Thursday				
1	Basic theory of linear differential equations, Wronskian, and its properties. First order exact differential equations. Integrating factors, rules to find an integrating factor. First order higher degree equations solvable for x, y, p. Clairut's form	Three weeks				
II	Methods for solving higher-order differential equations. Solving a differential equation by reducing its order. Linear homogenous equations with constant coefficients, Linear nonhomogenous equations.	Three weeks				
III	The method of variation of parameters with constant coefficients. The Cauchy-Euler equation and Legendre equation. Simultaneous differential equations, Total differential equations.	Three weeks				
IV	Order and degree of partial differential equations, Concept of linear and non-linear partial differential equations. Formation of first order partial differential equations (PDE). Linear partial differential equation of first order, Lagrange's method. Classification of second order partial differential equations into elliptic, parabolic and hyperbolic through illustrations only.					
	MATH201TH REAL ANALYSIS CORE COURSE 2 nd Year					
I	Real line, bounded sets, suprema and infima, completeness property of R, Archimedean property of R, intervals. Concept of cluster points and statement of Bolzano-Weierstrass theorem	Three weeks				
II	Real Sequence, Bounded sequence, Cauchy convergence criterion for sequences. Cauchy's theorem on limits, order preservation and squeeze theorem, monotone sequences and their convergence (monotone convergence theorem without proof)	Three weeks				
III	Infinite series. Cauchy convergence criterion for series, positive term series, geometric series, comparison test, convergence of p-series, Root test, Ratio test, alternating series, Leibnitz's test (Tests of Convergence without proof). Definition and examples of absolute and conditional convergence.	Three weeks				
IV	Sequences and series of functions, Pointwise and uniform convergence. Mn-test, M-test, Results about uniform convergence, Power series and radius of convergence.	Three weeks				
	MATH202TH ALGEBRA CORE COURSE 2 nd Year					
I	Definition and examples of groups, examples of abelian and non-abelian groups, the group Zn of integers under addition modulo n and the group U(n) of units under multiplication modulo n. Cyclic groups from number systems, complex roots of unity.					
II	Subgroups, cyclic subgroups, the concept of a subgroup generated by a subset and the commutator subgroup of group, examples of subgroups including the center of a group. Cosets, Index of subgroup, Lagrange's theorem, order of an element.	Three weeks				
III	Normal subgroups: their definition, examples, and characterizations, Quotient groups. Definition of Kernel, Basic theorems of homomorphism. First theorem of Homomorphism.	Three weeks				
IV	Definition and examples of rings, examples of commutative and non-commutative rings: rings from number systems, Zn the ring of integers modulo n. Rings of matrices, Subrings and ideals, Definition of Integral domains and fields.	Three weeks				

	MATH307TH	Logic and Sets	SEC-1	3 rd Year	
I		tions, truth table, negation, conjun- tive and inverse propositions and pro		• • • • • • • • • • • • • • • • • • • •	itions, Three weeks
II	Propositional equivalent and Negations.	ence: Logical equivalences. Predicat	riables Three weeks		
III		erations, the laws of set theory and e. Empty set, properties of empty se			
IV	1	etric difference of two sets. Set ide elations, Types of relations, Partitio			
	MATH310TH	VECTOR CALCULUS	SEC-2	3 rd Year	
I	-	oduct of three vectors. Product of so, vector valued point functions. Der			Scalar Three weeks
II	·	Gradient of a scalar point function. Divergence and curl of a vector point function. Gradient, Divergence and curl of sum and products. Laplacian operator.			
III	Orthogonal curvilinear coordinates. Conditions for orthogonality. Fundamental triads of mutually orthogonal uni vectors. Gradient, Divergence, Curl and Laplacian operators in terms of orthogonal curvilinear coordinators.				al unit Two weeks
IV		ne integral, surface integral, Volume sed on these theorems.	integral Theorems of Ga	uss, Green and Stokes (without	proof) Two weeks
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Department of Physics

Lesson Plan

Class B.Sc. 1st Year

Title: Mechanics

Lecture Allotted: 3 per week

S.No.	Topics	Week	Month
1.	UNIT-I: Ordinary Differential Equations: 1 st order homogeneous differential equations. 2 nd order homogeneous differential equations with constant coefficients.	1 st Week	July
2.	Coordinate systems and motion of a particle: Volume, velocity and acceleration in Cartesian co-ordinate systems.	2 nd week	
3.	Volume, velocity and acceleration in Spherical co-ordinate systems, Solid angle.	3 rd week	
4.	Space Time Symmetry and Conservation Laws: Relationship of conservation laws and symmetries of space and time.	4 th week	
5.	Frames of Reference: Inertial frames of reference, Galilean transformation and Galilean invariance.	1 st week	
6.	Non-inertial frames, Coriolis force and its applications; Foucault's pendulum.	2 nd week] ,
7.	UNIT-II: Gravitation and Inverse Square Force Law: Newton's Law of Gravitation, Various forces in nature (qualitative).	3 rd week	August
8.	Central and non-central forces, Inverse square force, Centre of mass.	4 th week	
9.	Equivalent one body problem. Reduced mass	1st week	
10.	, angular momentum in central force field.	2 nd week	
11.	Equation of motion under a force law. Equation of orbit and turning points.	3 rd week	September
12.	relationship between eccentricity and energy, Kepler's laws. Basic idea of global positioning system (GPS).	4 th week	
13.	UNIT-III: Rotational Motion and Kinematics of Elastic and Inelastic Collisions	1 st week	
14.	Angular velocity, angular momentum, Torque, Conservation of angular momentum	2 nd week	October
15.	Elastic and inelastic collisions, coefficient of restitution,	3 rd & 4 th week	
16.	Elastic collisions in laboratory and C.M. systems	1 st week	
17.	Velocities, angle and energies in elastic collisions in C.M. and lab. Systems	2 nd & 3 th week	November
18.	Classical Scattering: Cross- section for elastic scattering, Rutherford scattering (with derivation).	4 th week	November
19.	House Exams	1st or 2nd week	
20.	Special Theory of Relativity: Concept of stationary universal frame of reference and search for ether	3 rd week	December
21.	Michelson- Morley experiment, postulates of special theory of relativity.	4 th week	
22.	Lorentz transformations. Observer in relativity. Relativity of simultaneity.	2 nd week	
23.	Effects of Relativity: Length contraction. Time dilation. Relativistic addition of velocities.	3 rd week	February
24.	Relativistic Doppler effect. Variation of mass with velocity and mass energy equivalence.	4 th week	
25.	Increase of mass in an inelastic collision, Relativistic momentum and energies.	1 st week	March
26.	Transformation of momentum, energy. Minkowsky space.	2 nd Week	
27.	Revision	3 rd week	
28.	Revision	4 th week	

^{*}The schedule is subject to changes depending upon the circumstances

^{*} Class tests to be conducted at the end of each unit

Class B.Sc. 1st Year

Title: Electricity Magnetism and EMT Lecture Allotted: 3 per week

S.No.	Topics	Week	Month
1.	Introduction to Course and syllabus	1st Week	July
2.	Unit-I: Vector Analysis: Review of vector algebra (Scalar and Vector product), gradient, divergence, Curl and their significance,	2 nd week	
3.	Vector Integration, Line, surface and volume integrals of Vector fields,	3 rd week	
4.	Gauss-divergence theorem, Stokes"s theorem, Green"s theorem.	4 th week	
5.	Electrostatics : Significance of electrostatic force, Electrostatic Field, electric flux, Gauss's theorem of electrostatics.	1 st week	August
6.	Applications of Gauss theorem-Electric field due to point charge, infinite line of charge, uniformly charged spherical shell and solid sphere, plane charged sheet, charged conductor, electrostatic potential, electrostatic potential energy.	2 nd week	
7.	Electric potential due to a dipole and quadrupole, long uniformly changed wire, charged disc. Electric potential energy. Electric field as a gradient of a scalar potential.	3 rd week	
8.	Calculation of electric field due to a point charge and a dipole from potential. Method of Electrical Images. Poisson and Laplace equations.	4 th week	
9.	Electric Current and Fields of Moving charges: Current and current density. Continuity equation; $\nabla J + \rho \partial / \partial t = 0$.	1 st week	September
10.	Microscopic form of Ohm"s law (J α E) and conductivity. Failure of Ohms law and its explanation. Invariance of charge.	2 nd week	
11.	Unit-II: Magnetism: Ampere circuital law and its applications. Hall Effect, Expression for Hall constant and its significance.	3 rd week	
12.	Divergence and curl of magnetic field B . Vector potential: Definition of vector potential A and derivation.	4 th week	
13.	Field of Moving Charges: E in different frames of reference. Field of a point charge moving with constant velocity. Field of charge that starts or stops (qualitative).	1 st week	October
14.	Surface current density: Definition. and its use in calculation of change in magnetic field at a current sheet. Transformation equations of E and B from one frame of reference to another	2 nd week	
15.	Dielectrics, parallel plate capacitor with a dielectric, dielectric constant, polarization and polarization vector, displacement vector D , molecular interpretation of Claussius – Mossotti equation	3 rd & 4 th week	
16.	Unit-III: Electrostatic Fields in Dielectrics: Polarization of matter. Atomic and molecular dipoles, induced. Dipole moment and atomic polarizability	1 st week	November
17.	Electric susceptibility and polarization vector Capacity of a capacitor filled with Dielectrics. Dielectrics and Gauss's law Displacement vector	2 nd & 3 rd week	
18.	Establishment of relation $\nabla .D = \rho_{free}$. Energy stored in a dielectric medium.	4 th week	
19.	House Exams	1 st or 2 nd week	December
20.	Magnetic Fields in Matter : Behavior of various substances in magnetic fields. Definition of M and H and their relation to free and bound currents.	3 rd week	
21.	Magnetic permeability and susceptibility and their interrelation. Orbital motion of electrons and diamagnetism. Electron spin and paramagnetic	4 th week	
22.	Ferromagnetism. Domain theory of ferromagnetism, magnetization curve, hysterics loss, ferrites	2 nd week	February
23.	Maxwell's equations and Electromagnetic wave propagation: Displacement current, Maxwell's equations and its physical interpretation,	3 rd week	
24.	EM waves and wave equation in a medium having finite permeability and permittivity but with conductivity $\sigma = 0$. Poynting vector, Poynting theorem	4 th week	

25	. Impedence of a dielectric to EM waves, EM waves in conducting medium	1 st week	March
	and skin depth. EM waves velocity in a conductor and anomalous dispersion.		
26	. Transmission of EM waves at a boundary of two dielectric media for normal and	2 nd Week	
	oblique incidence		
27	. Revision	3 rd week	
28	. Revision	4 th week	

^{*}The schedule is subject to changes depending upon the circumstances

Class B.Sc. 2nd Year Title: Statistical Mechanics and Thermal Physics Lecture Allotted: 3 per week

S.No.	Topics	Week	Month
1.	Introduction to Course and syllabus	1st Week	July
2.	Unit-I: Basic Ideas of Statistical Physics: Scope of statistical physics, basic	2 nd week	
2	ideas about probability	ard 1	
3.	distribution of four distinguishable particles in two compartments of equal sizes. Concept of macro-states, micro-states	3 rd week	
4.	thermodynamic probability, effect of constraints on the system	4 th week	-
5.	Distribution of Particles in Compartments: Distribution of n particles in two	1 st week	August
	compartments		
6.	Deviation from the state of maximum probability. Equilibrium state of a dynamic system	2 nd week	
7.	distribution of n distinguishable particles in k compartments of unequal sizes	3 rd week	_
8.	Unit-II: Types of Statistics in Physics: Phase space and division into elementary cells	4 th week	
9.	Three kinds of statistics. The basic approach in the three statistics.	1st week	September
10.	M-B. Statistics applied to an ideal gas in equilibrium, experimental verification of the Maxwell Boltzmann,,s law of distribution of molecular speeds.	2 nd week	
11.	Need for quantum statistics, h as a natural constant and its implications	3 rd week	1
12.	indistinguishability of particles and its implications.	4 th week	
13.	B-E statistics: Derivation of Planck's law of radiation	1st week	October
14.	Deduction of Wien's distribution law and Stefan's law from Plank's law	2 nd week	
15.	Fermi-Dirac statistics. Applications to liquid helium, free electrons gas (Fermi level and Fermi Energy)	3 rd & 4 th week	
16.	Comparison of M-B, B-E, F-D statistics	1st week	November
17.	Unit-III: Entropy and Laws of Thermodynamics: Application of thermodynamics to the thermoelectric effect	2 nd & 3 rd week	-
18.	change of entropy along a reversible path in a p-v diagram, entropy of a perfect gas	4 th week	-
19.	House Exams	1st or 2nd week	December
20.	equation of state of ideal gas from simple statistical considerations, heat death of the universe	3 rd week	-
21.	, change of entropy of system, additive nature of entropy, law of increase of entropy. Statistical Interpretation of entropy: Statistical definition of entropy	4 th week	
22.	Reversible and irreversible processes, example of reversible and irreversible processes. Work done in a reversibleprocess, example of entropy in natural process, entropy and disorder	2 nd week	February
23.	Unit-IV: Maxwell's Thermodynamic Relations and Their Applications: Thermodynamic Potentials: Enthalpy, Gibbs, Helmholtz and Internal Energy	3 rd week	

^{*} Class tests to be conducted at the end of each unit

	functions. Derivation of Maxwell's thermodynamic relations		
24.	Applications of thermodynamics relations. Cooling produced by adiabatic stretching, adiabatic compression, adiabatic Stretching of a wire, stretching of thin films	4 th week	
25.	Clausius-Clapeyron Equation, Thermo dynamical treatment of JouleThomson effect for liquification of Helium.	1 st week	March
26.	Production of very low temperatures by adiabatic demagnetization, TdS equations	2 nd Week	
27.	Revision	3 rd week	
28.	Revision	4 th week	

^{*}The schedule is subject to changes depending upon the circumstances

Class B.Sc. 2nd Year Title: Waves and Optics Lecture Allotted: 3 per week

S.No.	Topics	Week	Month
1.	Introduction to Course and syllabus	1st Week	July
2.	Unit-I: Simple harmonic motion : characteristics, graphical representation of SHM, phase relation between displacement, velocity and acceleration of a particle executing SHM	2 nd week	
3.	SHM oscillator (mass attached to a spring placed on horizontal frictionless surface). energy of a simple harmonic oscillator.	3 rd week	
4.	solution of the differential equation of SHM. Average kinetic energy, average potential energy and total energy	4 th week	
5.	Damped SHM: Damped oscillations. differential equation of motion of one dimensional damped harmonic mechanical oscillator.	1 st week	August
6.	Types of damping. damped harmonic electric oscillator (differential equation and its solutions). Determination of the damping constants.	2 nd week	
7.	Logarithmic decrement. Relaxation time. The quality factor, power dissipation in a damped harmonic oscillator when damping is weak.	3 rd week	
8.	Relation between power dissipation energy and relaxation time of damped harmonic oscillator.	4 th week	
9.	Unit-II: The Forced Oscillator: Transient and steady behaviour of forced oscillator. Displacement and velocity variation with driving force frequency	1 st week	September
10.	Variation of phase with frequency. Power supplied to an oscillator and its variation with frequency.	2 nd week	
11.	Q- value and band width. Q-value as an amplification factor (Phasor treatment to be followed).	3 rd week	
12.	Coupled Oscillators: Stiffness coupled pendulums. Normal co-ordinates and normal modes of vibration. Inductance coupling of electrical oscillators.	4 th week	
13.	Wave Motion: The type of waves. The wave equation and its solution. Characteristic impedance of a string.	1 st week	October
14.	Impedance matching. Reflection and transmission of energy. Reflected and transmitted energy coefficients.	2 nd week	
15.	Standing waves on a string of fixed length. Energy of a vibrating string. Wave velocity and group velocity.	3 rd week	
16.	Unit-III: Wave Optics: Electromagnetic nature of light. Definition and Properties of wave front. Huygens Principle.	4 th week	
17.	Interference: Division of wavefront and division of amplitude. Young's Double Slit experiment.	1 st week	November
18.	Lloyd's Mirror and Fresnel's Biprism. Phase change on reflection: Stokes' treatment.	2 nd week	
19.	Interference in Thin Films: parallel and wedge-shaped films.	3 rd week	

^{*} Class tests to be conducted at the end of each unit

20.	Fringes of equal inclination (Haidinger Fringes); Fringes of equal thickness	4 th week	
	(Fizeau Fringes).		
21.	House Exams	1 st , 2 nd week	December
22.	Newton's Rings: measurement of wavelength and refractive index. Michelson's	3 rd week	
	Interferometer.	41.	
23.	Unit-IV: Diffraction: Fraunhofer diffraction: Single slit; Double Slit. Multiple	4 th week	
	slits & Diffraction grating, Dispersive power of diffraction grating		
24.	Fresnel Diffraction: Half-period zones. Zone plate. Fresnel Diffraction pattern of a	2 nd week	February
	straight edge, a slit and a wire using half-period zone analysis.		
25.	Polarization: Transverse nature of light waves. Unpolarized and plane polarized	3 rd week	
	light, production of polarized light, Wire grid polarizer, Polaroid		
26.	Effect of intensity of light passing through Polaroid, Malus" law, double	4 th week	
	refraction; ordinary ray and extraordinary ray, positive and negative crystals,		
	birefringence		
27.	Nicol Prism, quarter wave plate and half wave plate, Polarization by reflection	1 st week	March
	(Brewster law), polarization by scattering		
28.	Circular and elliptical polarization, production of elliptically polarized and	2 nd Week	
	circularly polarized light		
29.	Revision	3 rd week	
30.	Revision	4 th week	
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^{*}The schedule is subject to changes depending upon the circumstances
* Class tests to be conducted at the end of each unit

Class B.Sc. 3rd Year **Title: Elements of Modern Physics** Lecture Allotted: 3 per week

S.No.	Topics	Week	Month
1.	Introduction to Course and syllabus	1st Week	July
2.	Unit-I: Planck"s quantum, Planck"s constant and light as a collection of photons; Photo-electric effect	2 nd week	
3.	Compton scattering. De Broglie wavelength and matter waves. Davisson-Germer experiment.	3 rd week	
4.	Problems with Rutherford model- instability of atoms and observation of discrete atomic spectra	4 th week	
5.	Bohr's quantization rule and atomic stability	1st week	August
6.	calculation of energy levels for hydrogen like atoms and their spectra.	2 nd week	
7.	Unit-II: Heisenberg uncertainty principle- impossibility trajectory; estimating minimum energy of a confined principle	3 rd week	
8.	Energy-time uncertainty principle. Wave-particle duality	4 th week	
9.	Matter waves and wave amplitude; Schrodinger equation for non-relativistic particles	1 st week	September
10.	Momentum and Energy operators; stationary states	2 nd week	
11.	physical interpretation of wave function, probabilities and normalization	3 rd week	
12.	Probability and probability current densities in one dimension.	4 th week	
13.	Unit-III: One dimensional infinitely rigid box	1 st week	October
14.	energy eigenvalues and eigenfunctions normalization	2 nd week	
15.	Quantum mechanical scattering and tunnelling	3 rd week	
16.	tunnelling in one dimension -across a step potential.	4 th week	
17.	tunnelling across a rectangular potential barrier.	1 st week	November
18.	Size and structure of atomic nucleus and its relation with atomic weight	2 nd week	
19.	Impossibility of an electron being in the nucleus as a consequence of the uncertainty principle	3 rd week	

20.	Nature of nuclear force, NZ graph	4 th week	
21.	House Exams	1 st , 2 nd week	December
22.	semi-empirical mass formula and binding energy	3 rd week	
23.	Unit-IV: Radioactivity: stability of nucleus; Law of radioactive decay	4 th week	
24.	Mean life & half-life; α decay, β-decay : energy released	2 nd week	February
25.	γ-ray emission, Fission and Fusion, mass deficit,	3 rd week	
26.	relativity and generation of energy. Fission - nature of fragments and emission of neutrons	4 th week	
27.	Nuclear reactor: slow neutrons interacting with Uranium-235	1st week	March
28.	Fusion and thermonuclear reactions.	2 nd Week	
29.	Revision	3 rd week	
30.	Revision	4 th week	

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Class B.Sc. 3rd Year **Title: Nuclear and Particle Physics** Lecture Allotted: 3 per week

S.No.	Topics	Week	Month
1.	Introduction to Course and syllabus	1st Week	July
2.	Unit-I: General Properties of Nuclei: Constituents of nucleus and their Intrinsic properties	2 nd week	
3.	quantitative facts about size, mass, charge density (matter energy), binding energy, average binding energy and its variation with mass number	3 rd week	
4.	main features of binding energy versus mass number curve, N/A plot	4 th week	
5.	angular momentum, parity, magnetic moment, electric moments, nuclear excites states.	1 st week	August
6.	Nuclear Models : Liquid drop model approach, semi empirical mass formula and significance of various terms, condition of nuclear stability	2 nd week	
7.	Two nucleon separation energies, Fermi gas model (degenerate fermion gas, nuclear symmetry potential in Fermi gas), evidence for nuclear shell structure, nuclear magic numbers	3 rd week	
8.	basic assumption of shell model, concept of mean field, residual interaction, concept of nuclear force.	4 th week	
9.	Unit-II: Radioactivity decay : (a) Alpha decay: basics of α -decay processes, theory of α -emission	1 st week	September
10.	Gamow theory of α-decay, Geiger Nuttall law, α -decay spectroscopy	2 nd week	
11.	β-decay: energy kinematics for $β$ - decay, positron emission, electron capture, neutrino hypothesis.	3 rd week	
12.	Gamma decay: Gamma rays emission & kinematics, internal conversion.	4 th week	
13.	Nuclear Reactions: Types of Reactions, Conservation Laws, kinematics of reactions, Q-value	1 st week	October
14.	reaction rate, reaction cross section, Concept of compound and direct reaction, resonance reaction, Coulomb scattering (Rutherford scattering).	2 nd week	
15.	Unit-III: Nuclear Detectors and Accelerators: Interaction of nuclear radiation with matter: Energy loss due to ionization (Bethe-Block formula), energy loss of electrons	3 rd week	
16.	Cerenkov radiation, Detector for Nuclear Radiations: Gas detectors	4 th week	
17.	estimation of electric field, mobility of particle, for ionization chamber and GM Counter.	1st week	November
18.	Basic principle of Scintillation Detectors and construction of photo-multiplier tube (PMT).	2 nd week	

Semiconductor Detectors (Si & Ge) for charge particle and photon detection (concept of charge carrier and mobility).	3 rd week	
facility available in India: Van-de Graaff generator (Tandem accelerator), Linear accelerator	4 th week	
House Exams	1 st , 2 nd week	December
Cyclotron, Synchrotrons.	3 rd week	
Unit-IV: Particle Physics: Particle interactions; basic features. Classification of elementary particles and its families.	4 th week	
Conservation Laws: energy and momentum, angular momentum, parity, Baryon number, Lepton number, Isospin, Strangeness	2 nd week	February
Gell-Mann-Nishijima Scheme, CPT theorem, parity violation in weak interactions. Particle Symmetries	3 rd week	
Quarks Model, quantum number of quarks and gluons. Quark Model of Hadrons: Quark structure of non strange and strange hadrons	4 th week	
Mesons and baryons containing charm and bottom quarks, explanation of their quantum numbers in terms of their constituents quarks, Quark wave function of Mesons and nucleons, need of color quantum number	1 st week	March
Cosmic Rays; origin of cosmic rays. primary and secondary cosmic rays, hard component and soft component, the altitude effect, the latitude effect, East—	2 nd Week	
Revision	3 rd week	
Revision	4 th week	
	facility available in India: Van-de Graaff generator (Tandem accelerator), Linear accelerator House Exams Cyclotron, Synchrotrons. Unit-IV: Particle Physics: Particle interactions; basic features. Classification of elementary particles and its families. Conservation Laws: energy and momentum, angular momentum, parity, Baryon number, Lepton number, Isospin, Strangeness Gell-Mann-Nishijima Scheme, CPT theorem, parity violation in weak interactions. Particle Symmetries Quarks Model, quantum number of quarks and gluons. Quark Model of Hadrons: Quark structure of non strange and strange hadrons Mesons and baryons containing charm and bottom quarks, explanation of their quantum numbers in terms of their constituents quarks, Quark wave function of Mesons and nucleons, need of color quantum number Cosmic Rays; origin of cosmic rays. primary and secondary cosmic rays, hard component and soft component, the altitude effect, the latitude effect, East—west asymmetry, cosmic rays showers. Revision	facility available in India: Van-de Graaff generator (Tandem accelerator), Linear accelerator House Exams 1st, 2nd week Cyclotron, Synchrotrons. 2nd week Unit-IV: Particle Physics: Particle interactions; basic features. Classification of elementary particles and its families. Conservation Laws: energy and momentum, angular momentum, parity, Baryon number, Lepton number, Isospin, Strangeness Gell-Mann-Nishijima Scheme, CPT theorem, parity violation in weak interactions. Particle Symmetries Quarks Model, quantum number of quarks and gluons. Quark Model of Hadrons: Quark structure of non strange and strange hadrons Mesons and baryons containing charm and bottom quarks, explanation of their quantum numbers in terms of their constituents quarks, Quark wave function of Mesons and nucleons, need of color quantum number Cosmic Rays; origin of cosmic rays. primary and secondary cosmic rays, hard component and soft component, the altitude effect, the latitude effect, East—west asymmetry, cosmic rays showers. Revision 4th week 2nd Week 2nd Week 3rd week

^{*}The schedule is subject to changes depending upon the circumstances
* Class tests to be conducted at the end of each unit

Class B.Sc. 2nd Year SEC-I **Title: Physics Workshop Skills** Lecture Allotted: 2 per week

S.No.	Topics	Week	Month
1.	Introduction to Course and syllabus	1st Week	July
2.	Measuring units. conversion to SI and CGS. Familiarization with meter scale	2 nd week	
3.	Vernier calliper, Screw gauge and their utility	3 rd week	
4.	Measure the dimension of a solid block, volume of cylindrical beaker/glass, diameter of a thin wire, thickness of metal sheet, etc.	4 th week	
5.	Use of Sextant to measure height of buildings, mountains, etc.	1 st week	August
6.	Mechanical Skill : Concept of workshop practice. Overview of manufacturing methods	2 nd week	
7.	casting, foundry, machining	3 rd week	
8.	forming and welding. Types of welding joints and welding defects	4 th week	
9.	Common materials used for manufacturing like steel, copper, iron, metal sheets, composites and alloy, wood	1 st week	September
10.	Concept of machine processing	2 nd week	
11.	introduction to common machine tools like lathe, shaper	3 rd week	
12.	drilling, milling and surface machines	4 th week	
13.	Cutting tools, lubricating oils. Cutting of a metal sheet using blade	1st week	October
14.	Smoothening of cutting edge of sheet using file. Drilling of holes of different diameter in metal sheet and wooden block	2 nd week	
15.	Use of bench vice and tools for fitting	3 rd week	
16.	Make funnel using metal sheet	4 th week	
17.	Electrical and Electronic Skill: Use of Multimeter	1st week	November
18.	Soldering of electrical circuits having discrete components (R, L, C, diode)	2 nd week	

19.	Soldering of ICs on PCB	3 rd week	
20.	Operation of oscilloscope	4 th week	
21.	House Exams	1 st , 2 nd week	December
22.	Making regulated power supply	3 rd week	
23.	Timer circuit, Electronic switch using transistor and relay	4 th week	
24.	Introduction to prime movers: Mechanism	2 nd week	February
25.	gear system, wheel, Fixing of gears with motor axel.	3 rd week	
26.	Lever mechanism, Lifting of heavy weight using lever	4 th week	
27.	braking systems, pulleys, working principle of power generation systems. Demonstration of pulley experiment.	1 st week	March
28.	Revision	2 nd Week	
29.	Revision	3 rd week	
30.	Revision	4 th week	

^{*}The schedule is subject to changes depending upon the circumstances

Class B.Sc. 2nd Year SEC-II Title: Electrical Circuits and Network Skills Lecture Allotted: 2 per week

S.No.	Topics	Week	Month
1.	Introduction to Course and syllabus	1st Week	July
2.	Basic Electricity Principles: Voltage, Current, Resistance, and Power	2 nd week	1
3.	Ohm's law. Series, parallel, and series-parallel combinations	3 rd week	1
4.	AC Electricity and DC Electricity	4 th week	1
5.	Familiarization with multimeter, voltmeter and ammeter	1st week	August
6.	Understanding Electrical Circuits: Main electric circuit elements and their combination	2 nd week	
7.	Rules to analyze DC sourced electrical circuits	3 rd week	
8.	Current and voltage drop across the DC circuit elements	4 th week	
9.	Single-phase and three-phase alternating current sources	1 st week	September
10.	Rules to analyze AC sourced electrical circuits	2 nd week	
11.	Real, imaginary and complex power components of AC source	3 rd week	
12.	Power factor. Saving energy and money	4 th week	-
13.	Drawing symbols. Blueprints. Reading Schematics. Ladder diagrams	1st week	October
14.	Electrical Schematics. Power circuits. Control circuits. Reading of circuit schematics	2 nd week	
15.	Tracking the connections of elements and identify current flow and voltage drop	3 rd week	-
16.	: DC Power sources. AC/DC generators. Inductance, capacitance, and impedance. Operation of transformers	4 th week	
17.	Single-phase, three-phase & DC motors	1st week	November
18.	Basic design. Interfacing DC or AC sources to control heaters & motors. Speed & power of ac motor	2 nd week	
19.	Resistors, inductors and capacitors. Diode and rectifiers	3 rd week	
20.	Components in Series or in shunt. Response of inductors and capacitors with DC or AC sources	4 th week	1
21.	House Exams	1 st , 2 nd week	December
22.	Electrical Protection : Relays. Fuses and disconnect switches. Circuit breakers. Overload	3 rd week	1

^{*} Class tests to be conducted at the end of each unit

	devices. Ground-fault protection		
23.	Grounding and isolating. Phase reversal. Surge protection. Interfacing DC or AC sources to control elements (relay protection device)	4 th week	
24.	Electrical Wiring : Different types of conductors and cables. Basics of wiring-Star and delta connection.	2 nd week	February
25.	Voltage drop and losses across cables and conductors	3 rd week	
26.	Instruments to measure current, voltage, power in DC and AC circuits. Insulation. Solid and stranded cable	4 th week	
27.	Conduit. Cable trays. Splices: wirenuts, crimps, terminal blocks, split bolts, and solder	1 st week	March
28.	Preparation of extension board.	2 nd Week	
29.	Revision	3 rd week	
30.	Revision	4 th week	

^{*}The schedule is subject to changes depending upon the circumstances

* Class tests to be conducted at the end of each unit

Class B.Sc. 3rd Year SEC-I **Title: Radiation Safety Lecture Allotted: 2 per week**

S.No.	Topics	Week	Month
1.	Introduction to Course and syllabus	1st Week	July
2.	Basics of Atomic and Nuclear Physics: Basic concept of atomic structure; X rays characteristic and production	2 nd week	
3.	concept of bremsstrahlung and auger electron, The composition of nucleus and its properties	3 rd week	
4.	mass number, isotopes of element, spin, binding energy, stable and unstable isotopes	4 th week	
5.	law of radioactive decay, Mean life and half life, basic concept of alpha, beta and gamma decay	1st week	August
6.	concept of cross section and kinematics of nuclear reactions, types of nuclear reaction, Fusion, fission	2 nd week	
7.	Interaction of Radiation with matter: Types of Radiation: Alpha, Beta, Gamma and Neutron and their sources, sealed and unsealed sources	3 rd week	
8.	Interaction of Photons - Photoelectric effect, Compton Scattering, Pair Production	4 th week	
9.	Interaction of Charged Particles: Heavy charged particles - Beth-Bloch Formula	1 st week	September
10.	Scaling laws, Mass Stopping Power, Range, Straggling, Channeling and Cherenkov radiation	2 nd week	
11.	Beta Particles- Collision and Radiation loss (Bremsstrahlung)	3 rd week	
12.	Interaction of Neutrons- Collision, slowing down and Moderation.	4 th week	
13.	Radiation detection and monitoring devices: Radiation Quantities and Units: Basic idea of different units of activity	1 st week	October
14.	KERMA, exposure, absorbed dose, equivalent dose, effective dose, collective equivalent dose	2 nd week	
15.	Annual Limit of Intake (ALI) and derived Air Concentration (DAC).	3 rd week	
16.	detection: Basic concept and working principle of gas detectors, Ionization Chamber.	4 th week	
17.	Proportional Counter, Multi-Wire Proportional Counters (MWPC) and Gieger Muller Counter	1st week	November
18.	Scintillation Detectors (Inorganic and Organic Scintillators),	2 nd week	
19.	Solid States Detectors and Neutron Detectors, Thermo luminescent Dosimetry	3 rd week	

20.	Radiation safety management: Biological effects of ionizing radiation, Operational limits and basics of radiation hazards evaluation and control	4 th week	
21.	House Exams	1 st , 2 nd week	December
22.	radiation protection standards, International Commission on Radiological Protection (ICRP) principles	3 rd week	
23.	justification, optimization, limitation, introduction of safety and risk management of radiation	4 th week	
24.	Nuclear waste and disposal management. Brief idea about Accelerator driven Sub-critical system (ADS) for waste management.	2 nd week	February
25.	Application of nuclear techniques: Application in medical science	3 rd week	
26.	MRI, PET, Projection Imaging Gamma Camera, radiation therapy	4 th week	
27.	Archaeology, Art, Crime detection, Mining and oil	1st week	March
28.	Industrial Uses: Tracing, Gauging, Material Modification, Sterization, Food preservation	2 nd Week	
29.	Revision	3 rd week]
30.	Revision	4 th week	

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* Class tests to be conducted at the end of each unit

Class B.Sc. 3rd Year SEC-II **Title: Physics Renewable Energy and Energy Harvesting** Lecture Allotted: 2 per week

S.No.	Topics	Week	Month
1.	Introduction to Course and syllabus	1 st Week	July
2.	Fossil fuels and Alternate Sources of energy: Fossil fuels and Nuclear Energy, their limitation	2 nd week	
3.	need of renewable energy, non-conventional energy sources	3 rd week	
4.	An overview of developments in Offshore Wind Energy, Tidal Energy, Wave energy systems, Ocean Thermal Energy Conversion	4 th week	
5.	An overview of developments in solar energy, biomass, biochemical conversion, biogas generation, geothermal energy tidal energy, Hydroelectricity	1 st week	August
6.	Solar energy : Solar energy, its importance, storage of solar energy, solar pond, non convective solar pond, applications of solar pond and solar energy	2 nd week	
7.	solar water heater, flat plate collector, solar distillation, solar cooker	3 rd week	
8.	solar green houses, solar cell, absorption air conditioning	4 th week	
9.	Need and characteristics of photovoltaic (PV) systems, PV models and equivalent circuits, and sun tracking systems	1 st week	September
10.	Wind Energy harvesting: Fundamentals of Wind energy	2 nd week	
11.	Wind Turbines and different electrical machines in wind turbines	3 rd week	
12.	Power electronic interfaces, and grid interconnection topologies	4 th week	
13.	Ocean Energy: Ocean Energy Potential against Wind and Solar, Wave Characteristics and Statistics	1 st week	October
14.	Wave Energy Devices. Tide characteristics and Statistics	2 nd week	
15.	Tide Energy Technologies, Ocean Thermal Energy, Osmotic Power, Ocean Biomass	3 rd week	
16.	Geothermal Energy: Geothermal Resources, Geothermal Technologies	4 th week	
17.	Hydro Energy: Hydropower resources	1 st week	November
18.	hydropower technologies, environmental impact of hydro power sources	2 nd week	
19.	Piezoelectric Energy harvesting: Introduction	3 rd week	
20.	Physics and characteristics of piezoelectric effect, materials	4 th week	
21.	House Exams	1 st , 2 nd week	December

22.	mathematical description of piezoelectricity, Piezoelectric parameters	3 rd week	
23.	modeling piezoelectric generators. Piezoelectric energy harvesting applications	4 th week	
24.	Electromagnetic Energy Harvesting: Linear generators	2 nd week	February
25.	Physics mathematical models, recent applications	3 rd week	
26.	Carbon captured technologies, cell, batteries, power consumption	4 th week	
27.	Environmental issues and Renewable sources of energy, sustainability	1 st week	March
28.	Revision	2 nd Week	
29.	Revision	3 rd week	
30.	Revision	4 th week	

^{*}The schedule is subject to changes depending upon the circumstances
* Class tests to be conducted at the end of each unit

Department of Zoology Lesson Plan (Session 2020-21)

Class B.Sc. 1st Year Title: Animal Diversity Lecture Alloted: 3 per week

S.No.	Topics	Week	Month
1.	Introduction with students and discussion about the syllabus	5 th Aug	
2.	Unit 1: Kingdom Protista	2 nd & 3 rd week	August, 2020
3.	Unit 2: Phylum Porifera	4 th week	9 /
4.	Test of Units 1 & 2, Unit 3: Phylum Cnidaria	5 th week	
5.	Unit 4: Phylum Platyhelminthes	1 st week	
6.	Test of Units 3 & 4, Unit 5: Phylum Nemathelminths	2 nd & 3 rd week	Soutombon 2020
7.	Unit 6: Phylum Annelida	4 th week	September, 2020
8.	Test of Units 5 & 6, Unit 7: Phylum Arthropoda	5 th week	
9.	Unit 7: Phylum Arthropoda	2 nd week	
10.	Unit 8: Phylum Mollusca	3 rd week	October, 2020
11.	Test of Units 7 & 8, Unit 9: Phylum Echinodermata	4 th & 5 th week	3000001, 2020
12.	Unit 10: Protochordates	1st week	
13.	Test of Units 9 & 10, Unit 11: Agnatha	2 nd & 4 th week	November, 2020
14.	Unit 11: Agnatha	5 th week	
15.	Midterm (Tentative)	1st or 2nd week	
16.	Unit 12: Pisces	3 rd week	December, 2020
17.	Unit 13: Amphibia & Test of Units 11 & 12	4 th week	
18.	Recapitulation	2 nd week	
19.	Unit 14: Reptilia	3 rd week	February, 2021
20.	Test of Unit 13 & 14	4 th week	
21.	Unit 15: Aves	1 st week	
22.	Unit 15: Aves & Unit 16: Mammals 2 nd Week		N. 1 2021
23.	Unit 16: Mammals, Test of Units 15 & 16	3 rd week	March, 2021
24.	Revision	4 th week	

^{*}Class Seminars, group discussion, PPTs, quiz will also be conducted.

^{*} There may be slight variation in it.

Class B.Sc. 1st Year Title: Comparative Anatomy & Developmental Biology of Vertebrates Lecture Alloted: 3 per week

S.No.	Topics	Week	Month
1.	Introduction with students and discussion about the syllabus	5 th Aug	
2.	Unit 1: Integumentary System	2 nd & 3 rd week	August,2020
3.	Unit 2: Skeletal System Test of Units 1 & 2	4 th 5 th week	
4.	Unit 3: Digestive System	1 st 2 nd & 3 rd week	
5.	Unit 4: Respiratory System Test of Unit 3	4 th 5 th week	September,2020
6.	Unit 5: Circulatory System Test of Unit 4	1 st 2 nd 3 rd week	Ootobor 2020
7.	Unit 6: Urinogenital System Test of Unit 5	4 th & 5 th week	October,2020
8.	Unit 7: Nervous System Test of Unit 6	1 st 2 nd 3 rd & 4 th week	November,2020
9.	Midterm (Tentative)	1 st or 2 nd week	
10.	Unit 8: Sense organs Test of Unit 7& 8	3 rd & 4 th week	December,2020
11.	Recapitulation Unit 9: Early Embryonic Development	2 nd 3 rd 4 th week	February,2021
12.	Unit 10: Late Embryonic Development Test of Unit 9	1st 2nd week	
13.	Unit 11: Control of Development Test of Unit 10 & 11	3 rd week	March,2021
14.	Revision	4 th week	

^{*}Class Seminars, group discussion, PPTs, quiz will also be conducted.

* There may be slight variation in it.

Class B.Sc. 2nd Year Title: Physiology & Biochemistry Lecture Alloted: 3 per week

S.No.	Topics	Week	Month
1.	Introduction with students and discussion about the syllabus	5 th Aug	
2.	Unit 1: Nerve & Muscle Test of Unit 1	2 nd , 3 rd & 4 th week	August, 2020
3.	Unit 2: Digestion	5 th week	
4.	Unit 2: Digestion	1st week	
5.	Unit 3: Respiration Test of Unit 2	2 nd 3 rd &4 th week	September, 2020
6.	Unit 4: Excretion Test of Unit 3	5 th week	
7.	Unit 4: Excretion	1 st week	
8.	Unit 5: Cardiovascular System Test of Unit 4	2 nd 3 rd 4 th & 5 th week	October, 2020
9.	Unit 6: Reproduction & Endocrine Glands Test of Unit 5	1 st 2 nd & 4 th 5 th week	November, 2020
10.	Midterm (Tentative)	1 st or 2 nd week	
11.	Unit 7: Carbohydrate Metabolism Test of Unit 6	3 rd & 4 th week	December, 2020
12.	Recapitulation Unit 8: Lipid Metabolism, Test of Unit 7	2 nd 3 rd 4 th week	February, 2021
13.	Unit 9: Protein Metabolism Test of Unit 8	1st 2nd week	
14.	Unit 10: Enzymes Test of Unit 9	3 rd week	March, 2021
15.	Revision	4 th week	

^{*}Class Seminars, group discussion, PPTs, quiz will also be conducted.

* There may be slight variation in it.

Class B.Sc. 2nd Year **Title: Genetics & Evolutionary Biology** Lecture Alloted: 3 per week

S.No.	Topics	Week	Month
1.	Introduction with students and discussion about the syllabus	5 th Aug	August, 2020
2.	Unit 1: Introduction to Genetics	2 nd 3 rd 4 th 5 th week	11ugust, 2020
3.	Unit 2: Mendelian Genetics & its Existence	1 st 2 nd 3 rd 4 th 5 th week	September, 2020
4.	Unit 3: Linkage, Crossing Over & Chromosomal Mapping Test of Units 1 & 2	1 st 2 nd 3 rd week	October, 2020
5.	Unit 4: Mutations	4 th 5 th week	
6.	Unit 4: Mutations Test of Unit 3	1 st 2 nd week	November,
7.	Unit 5: Sex Determination Test of Unit 4	3 rd & 4 th week	2020
8.	Midterm (Tentative)	1 st or 2 nd week	D
9.	Unit 6: History of Life	3 rd week	December, 2020
10.	Unit 7: Introduction to Evolutionary Theories	4 th week	2020
11.	Unit 8: Direct Evidences of Evolution Test of Units 6 & 7	2 nd 3 rd week	February,
12.	Unit 9: Processes of Evolutionary Change	4 th week	2021
13.	Unit 9: Processes of Evolutionary Change Test of Unit 8	1st week	
14.	Unit 10: Species Concept Test of Unit 9	2 nd week	
15.	Unit 11: Macroevolution Test of Unit 10	3 rd week	March, 2021
16.	Unit 12: Extinction Test of Units 11 & 12 Revision	4 th week	

^{*}Class Seminars, group discussion, PPTs, quiz will also be conducted.

* There may be slight variation in it.

Class B.Sc. 2nd Year **Title: Medical Diagnostics (SEC)** Lecture Alloted: 2 per week

S.No.	Topics	Week	Month
1.	Unit 1: Introduction to Medical Diagnostics & its Importance	2 nd 3 rd 4 th 5 th week	August, 2020
2.	Unit 2: Diagnostics Method Used for Analysis of Blood	1 st 2 nd 3 rd 4 th week	September,
3.	Test of Units 1 & 2	5 th week	2020
4.	Unit 3: Diagnostic Methods Used for Urine Analysis	1 st 2 nd 3 rd 4 th week	October,
5.	Test of Unit 3	5 th week	2020
6.	Unit 4: Non-Infectious Diseases	1 st 2 nd 3 rd week	November,
7.	Test of Unit 4	4 th week	2020
8.	Midterm (Tentative)	1 st or 2 nd week	December,
9.	Unit 5: Infectious Diseases	3 rd 4 th week	2020
10.	Test of Unit 5	4 th week	
11.	Unit 6: Tumours	2 nd 3 rd 4 th week	February, 2021
12.	Test of Unit 6	1st week	March,
13.	Revision	2 nd 3 rd 4 th week	2021

^{*}Class Seminars, group discussion, PPTs, quiz will also be conducted.

* There may be slight variation in it.

Class B.Sc. 2nd Year **Title: Apiculture (SEC)** Lecture Alloted: 2 per week

S.No.	Topics	Week	Month
1.	Introductory Session	2 nd 3 rd 4 th 5 th week	August, 2020
2.	Unit 1: Biology of Bees	1 st 2 nd 3 rd 4 th week	September,
3.	Test of unit 1	5 th week	2020
4.	Unit 2: Rearing of Bees	1 st 2 nd 3 rd 4 th week	October,
5.	Test of Unit 2	5 th week	2020
6.	Unit 3: Diseases & Enemies	1 st 2 nd 3 rd week	November,
7.	Test of Unit 3	4 th week	2020
8.	Midterm (Tentative)	1 st or 2 nd week	ъ .
9.	Unit 4: Bee Economy	3 rd 4 th week	December, 2020
10.	Test of Unit 4	4 th week	2020
11.	Unit 5: Entrepreneurship in Apiculture	2 nd 3 rd 4 th week	February, 2021
12.	Test of Unit 5	1 st week	March,
13.	Revision	2 nd 3 rd 4 th	2021

^{*}Class Seminars, group discussion, PPTs, quiz will also be conducted.

* There may be slight variation in it.

Class B.Sc. 3rd Year **Title: Applied Zoology** Lecture Alloted: 3 per week

S.No.	Topics	Week	Month
1.	Unit 1: Introduction to Host-Parasite Relationship	2 nd 3 rd 4 th 5 th week	August, 2020
2.	Unit 2: Epidemiology of Disease	1 st 2 nd 3 rd 4 th week	September, 2020
3.	Test of Units 1 & 2 5 th week		
4.	Unit 3: Rickettsiae & Spirochaetes	1 st 2 nd 3 rd week	October, 2020
5.	Unit 4: Parasitic Protozoa Test of Unit 3	4 th 5 th week	
6.	Unit 5: Parasitic Helminthes Test of Unit 4	1 st 2 nd week	November, 2020
7.	Unit 6: Insects of Economic Importance Test of Unit 5	3 rd 4 th week	
8.	Midterm (Tentative)	1st or 2nd week	December,
9.	Unit 7: Insects of Medical Importance Test of Unit 6	3 rd week	2020
10.	Unit 8: Animal Husbandry	4 th week	
11.	Unit 9: Poultry Farming Test of Units 7 & 8	2 nd 3 rd 4 th week	February, 2021
12.	Unit 10: Fish Technology Test of Units 9 & 10	1 st 2 nd 3 rd week	March, 2021
13.	Revision	4 th week	ŕ

^{*}Class Seminars, group discussion, PPTs, quiz will also be conducted.

* There may be slight variation in it.

Class B.Sc. 3rd Year **Title: Immunology** Lecture Alloted: 3 per week

S.No.	Topics	Week	Month
1.	Unit 1: Overview of the Immune System	2 nd 3 rd 4 th 5 th	August,
	Test of Unit 1	week	2020
2.	Unit 2: Cells & Organs of the Immune System	1 st 2 nd 3 rd 4 th	September,
۷.	Test of Unit 2	5 th week	2020
2	IV.: 4 2. Autisans	1st 2nd 3rd 4th	October,
3.	Unit 3: Antigens	5 th week	2020
4	Unit 4: Antibodies	1st 2nd 3rd 4th	November,
4.	Test of Unit 3	week	2020
5.	Midterm (Tentative)	1st or 2nd week	December,
6.	Unit 5: Working of the Immune System	3 rd 4 th week	2020
0.	Test of Unit 4		2020
7.	Unit 6: Immune System in Health & Disease	2 nd 3 rd 4 th week	February,
/.	Test of Unit 5	2 3 4 Week	2021
8.	Unit 7: Vaccines	1 st 2 nd week	
٥.	Test of Unit 6	1 2 Week	March, 2021
9.	Test of Unit 7	3 rd 4 th week	wiaich, 2021
2.	Revision	J 4 WEEK	

^{*}Class Seminars, group discussion, PPTs, quiz will also be conducted.

* There may be slight variation in it.

Class B.Sc. 3rd Year Title: Sericulture (SEC) Lecture Alloted: 2 per week

S.No.	Topics	Week	Month	
1.	Unit 1: Introduction	2 nd 3 rd 4 th 5 th week	August, 2020	
2.	Unit 2: Biology of Silkworm Test of Unit 1	1 st 2 nd 3 rd 4 th 5 th week	September,2020	
3.	Unit 3: Rearing of Silkworms Test of Unit 2	1 st 2 nd 3 rd 4 th week	October, 2020	
4.	Unit 4: Pests & Diseases Test of Unit 3	1 st 2 nd 3 rd 4 th week	November, 2020	
5.	Midterm (Tentative)	1st or 2nd week		
6.	Unit 5: Enterpreneurship in Sericulture Test of Unit 4 & 5	3 rd 4 th week	December, 2020	
7.	Tests & Revision	2 nd 3 rd 4 th week	February, 2021	

^{*}Class Seminars, group discussion, PPTs, quiz will also be conducted.

Class B.Sc. 3rd Year Title: Aquarium Fish Keeping (SEC) Lecture Alloted: 2 per week

S.No.	Topics	Week	Month
1.	Unit 1: Introduction to Aquarium Fish Keeping	2 nd 3 rd 4 th 5 th week	August, 2020
2.	Test of Unit 1	1st week	
3.	Unit 2: Biology of Aquarium Fishes	2 nd 3 rd 4 th 5 th week	September,2020
4.	Test of Unit 2	1 st	
5.	Unit 3: Food & Feeding of Aquarium Fishes	2 nd 3 rd 4 th week	October, 2020
6.	Test of Unit 3	1 st	November,
7.	Unit 4: Fish Transportation	2 nd 3 rd 4 th	2020
8.	Midterm (Tentative)	1 st or 2 nd week	December 2020
9.	Unit 5: Maintenance of Aquarium	3 rd 4 th week	December, 2020
10.	Test of Unit 5	2 nd 3 rd 4 th week	February, 2021
11.	Revision	1 st 2 nd 3 rd 4 th week	March, 2021

^{*}Class Seminars, group discussion, PPTs, quiz will also be conducted.

Dr Punam Chauhan Dept. of Zoology

^{*} There may be slight variation in it.

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Teaching Plan for the session July 2019 to April 2020 B. Com 1st Year

Subject – Business organisation & Management (B.C.1.2)

Unit	Topic	Details	Month	Remarks
1	Foundation of Indian business	Manufacturing & service sector, SME, Make in India movement, LPG, corporate social responsibility, franchising, out sourcing & e commerce.	July 2019 (4 Weeks)	
2	Business Enterprises	Forms of business organisations: sole trade, partnership, company, corporative organisation, LLP, HUF, International business, multi nation companies.	August- September 2019 (8Weeks)	,
3	Management & organisation	Management an introduction, planning & strategy, decision making, Indian philosophy of management, departmentation & decentralisation, group dynamics & team building.	October- November 2019 (8Weeks)	
4	Leadership, Motivation & control	Leadership theories & styles, concept, importance & types of motivation, communication process & barriers, controlling.	December 2019 (4Weeks)	
5	Functional Areas of Management	Marketing management, PLC, Financial management, sources of funds, venture capital, and lease finance, SEBI, HRM.	February- March2022 (7 Weeks)	

<u>Teaching Plan for the session July 2019 to April 2020</u> <u>B. Com 1st Year</u>

<u>Subject – Business Law (B.C.1.3)</u>

Unit	Topic	Details	Month	Remarks
1	The Indian Contract act 1872	Contract, meaning, characteristics & kinds. Essentials of valid contract, void agreements, discharge of contract, contingent contract &	July- August 2019 (5 weeks)	
		quasi contracts.		
2	The Indian contract act 1872: specific contracts	Contract of indemnity & guarantee, contract of bailment, contract of agency.	August 2019 (3 Weeks)	
3	The sales of goods act 1930	Contract of sale, meaning & difference between sale & agreement to sell, condition & warranties, performance of contract of sale, unpaid seller.	September 2019 (4 Weeks)	
4	The Negotiable instrument act 1881	Meaning, characteristics & types of negotiable instruments: Promissory notes, bill of exchange, cheque. Holder & holder in due course, privileges of holder in due course, types of endorsement, crossing of cheque, blousing of cheque.	October- November 2019 (8 Weeks)	
5	The partnership act 1932	Nature & characteristics of partnership, registrations of firms, types of partner, rights & duties, implied authority of a partner, incoming & outgoing partners, modes of dissolution of partnership. LLP act 2008: Feature of LLP, difference	December 2019 to February 2020 (6 Weeks)	
		between LLP & Company, incorporation document, incorporation by registration, partner & their relationship.	February to March 2020 (5 Weeks)	

<u>Teaching Plan for the session July 2019 to April 2020</u> <u>B. Com 1st Year</u>

Subject - Business Statistics & Mathematics (B.C.1.4)

Unit	Topic	Details	Month	Remarks
1	Business Mathematics	Matrices, types & calculation, mathematical functions & their types: linear, quadratic, polynomial, concept of limit & continuity, maxima minima, simple & compound interest.	July- August 2019 (8 Weeks)	
2	Univariate Analysis	Measure of central tendency: arithmetic mean, geometric mean & harmonic mean, mode & median, partition values, quartile, docile, percentile, measures of variation range, quartile deviation, standard & mean deviation, variance.	September- October 2019 (8Weeks)	
3	Bi-variate analysis	Simple linear co relation, Karl Pearson coff. Of co relation, spearman rank co relation, regression analysis, regression equation & estimation.	November- December 2019 (8 Weeks)	
4	Time based data	Meaning & uses of index numbers, construction of index number, simple & weighted average, test of adequacy of index number. Component of time series additive & multiplicative models, trend analysis, moving average methods & list square methods.	February to March 2020 (7 Weeks)	

Teaching Plan for the session July 2019 to April 2020 B. Com 1st Year Subject – Financial accounting (B.C.1.1)

<u>Unit</u>	<u>Topic</u>	<u>Details</u>	<u>Month</u>	Remarks
1	Theoretical	Meaning, characteristics, functions,	July- August	
	Framework	limitations, branches, nature, principles,	2019	
		conventions, bases of accounting, accounting	(8 Weeks)	
		standard, journals, ledger, trial balance.		
2	Business Income	Measurement of business income, revenue	September	
	& Final Accounts	recognition, depreciation, meaning &	2019	
		methods, inventories meaning & methods LIFI	(4 Weeks)	
		FIFO, final accounts, capital & revenue		
		expenditure etc.		
3	Accounting for	Journals entry & ledger of hire purchase,	October-	
	Hire purchase,	accounting treatment in the books of	November 2019	
	consignment &	consignor & consignee, joint venture	(8 Weeks)	
	joint venture	accounting procedure.		
4	Accounting for	Concept of branches, accounting aspect,	December 2019	
	branches &	debtor system, branch final accounts &	to February	
	dissolution of	balance sheet, accounting of dissolution of	2020	
	partnership firm	the partnership firm including insolvency of	(6 Weeks)	
		partners.		
5	Practical & live	Comprised accounting system, Tally ERP	February to	
	projects		March 2020	
			(5 Weeks)	

Teaching Plan for the session July 2019 to April 2020 B. Com 2st Year Subject – company law

<u>Unit</u>	<u>Topic</u>	<u>Details</u>	<u>Month</u>	Remarks
1	Introduction	Administration of Company Law [including	July- August	
		National Company Law Tribunal (NCLT),	2019	
		National Company Law Appellate Tribunal	(8 Weeks)	
		(NCLAT), Special Courts]; Characteristics of a		
		company; lifting of corporate veil; types of		
		companies including one-person company,		
		small company and dormant company;		
		association not for profit; illegal association;		
		formation of company, on-line filing of		
		documents, promoters, their legal position,		
		pre-incorporation contract; on-line		
		registration of a company		
2	Documents	Memorandum of association, Articles of	September	
		association, Doctrine of constructive notice	2019	
		and indoor management prospectus-shelf	(4 Weeks)	
		and red herring prospectus, Misstatement in		
		prospectus, GDR; Book building; Issue,		
		allotment and forfeiture of share,		
		Transmission of shares, Buyback and		
		provisions regarding buyback; Issue of bonus		
		shares.		
3	Management	Classification of directors, women directors,	October-	
		independent director, small shareholder's	November 2019	
		director; Disqualifications, director identity	(8 Weeks)	
		number (DIN); Appointment; Legal positions,		
		powers and duties; removal of directors; Key		
		managerial personnel, managing director,		
		manager. Meetings of shareholders and		
		board; Types of meeting, convening and		
		conduct of meetings, postal ballot, meeting		
		through video conferencing, e-voting;		
		Committees of Board of Directors- Audit		
		Committee, Nomination and Remuneration		
		Committee, Stakeholders Relationship		
		Committee, Corporate Social Responsibility		
4	Dividondo	Committee Provisions relating to payment of Dividend,	December 2019	
4	Dividends, Accounts, Audit	Provisions relating to payment of Dividend, Provisions relating to Books of Account,		
	Accounts, Audit	Provisions relating to Books of Account, Provisions relating t	to February 2020	
		o Audit, Auditors' Appointment, Rotation of	(6 Weeks)	
		I	(O WEEKS)	
5	Winding Up,	Auditors, Auditors' Report, Secretarial Audit. Concept and modes of Winding Up. Insider-	Eobruary to	
3	Insider Trading,	Trading; meaning and legal provisions;	February to March 2020	
	Whistle Blowing	Whistle blowing:- Concept and Mechanism.	(5 Weeks)	
	willstie blowing	vvinstie biowing Concept and Mechanism.	(2 weeks)	

Note: Assignments, class test & midterm will be taken during the session.

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

Teaching Plan for the session July 2019 to April 2020 B. Com 2st Year Subject – INCOME TAX LAW AND PRACTICE

<u>Unit</u>	<u>Topic</u>	<u>Details</u>	<u>Month</u>	<u>Remarks</u>
1	Introduction	Basic concepts: Income, agricultural income,	July- August	
		person, assessee, assessment year, previous	2019	
		year, gross total income, total income,	(8 Weeks)	
		maximum marginal rate of tax; Permanent		
		Account Number (PAN) Residential status;		
		Scope of total income on the basis of		
		residential status Exempted income under		
		section 10		
2	Computation of	a) Income from Salaries	September	
	Income under	b) Income from house property	2019	
	different heads-1		(4 Weeks)	
3	Computation of	f) Profits and gains of business or profession	October-	
	Income under	g) Capital gains	November 2019	
	different heads-2	h) Income from other sources	(8 Weeks)	
4	Computation of	Income of other persons included in	December 2019	
	Total Income and	assessee's total income; Aggregation of	to February	
	Tax Liability	income and set-off and carry forward of	2020	
		losses; Deductions from gross total income;	(6 Weeks)	
		Rebates and reliefs. Computation of total		
		income of individuals and firms; Tax liability		
		of an individual and a firm; Five leading		
		cases decided by the Supreme Court		
Practical/	Preparation of	Filing of returns: Manually, On-line filing of	February to	
Live	Return of Income	Returns of Income & TDS; Provision &	March 2020	
Projects		Procedures of Compulsory On-Line filing of	(5 Weeks)	
		returns for specified assesses.		

Note: Assignments, class test & midterm will be taken during the session.

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

Teaching Plan for the session July 2019 to April 2020 B. Com 2st Year Subject - COMPUTER APPLICATIONS IN BUSINESS

Unit	<u>Topic</u>	<u>Details</u>	<u>Month</u>	Remarks
1	Word Processing	Introduction to word Processing, Word	July- August	
		processing concepts, Use of Templates,	2019	
		Working with word document: Editing text,	(8 Weeks)	
		Find and replace text, Formatting, spell check,		
		Autocorrect, Auto text; Bullets and		
		numbering, Tabs, Paragraph Formatting,		
		Indent, Page Formatting, Header and footer,		
		Tables: Inserting, filling and formatting a		
		table; Inserting Pictures and Video; Mail		
		Merge: including linking with Database;		
		Printing documents Creating Business		
		Documents using the above facilities		
2	Preparing	Basics of presentations: Slides, Fonts,	September	
	Presentations	Drawing, Editing; Inserting: Tables, Images,	2019	
		texts, Symbols, Media; Design; Transition;	(4 Weeks)	
		Animation; and Slideshow. Creating Business		
		Presentations using above facilities		

3	Spreadsheet and	Spreadsheet concepts, Managing worksheets;	October-	
	its Business	Formatting, Entering data, Editing, and	November 2019	
	Applications	Printing a worksheet; Handling operators in	(8 Weeks)	
		formula, Project involving multiple		
		spreadsheets, Organizing Charts and graphs		
		Generally used Spreadsheet functions:		
		Mathematical, Statistical, Financial, Logical,		
		Date and Time, Lookup and reference,		
		Database, and Text functions		
4	Creating Business	Creating spreadsheet in the area of: Loan and	December 2019	
	Spreadsheet	Lease statement; Ratio Analysis; Payroll	to February	
		statements; Capital Budgeting; Depreciation	2020	
		Accounting; Graphical representation of data;	(6 Weeks)	
		Frequency distribution and its statistical		
		parameters; Correlation and Regression		

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

Teaching Plan for the session July 2019 to April 2020 B. Com 2st Year Subject – CORPORATE ACCOUNTING

<u>Unit</u>	<u>Topic</u>	<u>Details</u>	<u>Month</u>	<u>Remarks</u>
1	Accounting for	Issue, forfeiture and reissue of forfeited	July- August	
	Share Capital &	shares: concept & process of book building;	2019	
	Debentures	Issue of rights and bonus shares; Buy back of	(8 Weeks)	
		shares; Redemption of preference shares;		
		Issue and Redemption of Debentures		
2	Final Accounts,	Preparation of profit and loss account and	September	
	Valuation of	balance sheet of corporate entities, excluding	2019	
	Goodwill and	calculation of managerial remuneration,	(4 Weeks)	
	Valuation of	Disposal of company profits. Concepts and		
	Share	calculation of valuation of goodwill and		
		shares: simple problems only.		
3	Amalgamation of	Concepts and accounting treatment as per	October-	
	Companies	Accounting Standard: 14 (ICAI) (excluding	November 2019	
		intercompany holdings). Internal	(8 Weeks)	
		reconstruction: concepts and accounting		
		treatment excluding scheme of		
		reconstruction		
4	Accounting of	Preparation of consolidated balance sheet	December 2019	
	Holding	with one subsidiary company; Relevant	to February	
	Companies	provisions of Accounting Standard: 21 (ICAI).	2020	
			(6 Weeks)	
5	Accounting of	Difference between balance sheet of banking	February to	
	Banking	and non-banking companies; Prudential	March 2020	
	Companies and	norms; Asset structure of a commercial bank;	(5 Weeks)	
	Cash Flow	Non-performing assets (NPA). Concept of		
	Statement	funds, Preparation of cash flow statement as		
		per Indian Accounting Standard (Ind- AS):		
		7.Concept and modes of Winding Up. Insider-		
		Trading; meaning and legal provisions;		
		Whistle blowing:- Concept and Mechanism.		

<u>Teaching Plan for the session July 2019 to April 2020</u> <u>B. Com 2st Year</u>

Subject - COST ACCOUNTING

<u>Unit</u>	<u>Topic</u>	<u>Details</u>	<u>Month</u>	<u>Remarks</u>
1	Introduction	Meaning, objectives and advantages of cost	July- August	
		accounting; Relationship between cost	2019	
		accounting and financial accounting; Cost	(8 Weeks)	
		concepts and classifications; Elements of cost;		
		Cost Sheet, Installation of a costing system;		
		Role of a cost accountant in an organisation		
2	Elements of Cost:	Material/inventory control techniques.	September	
	Material	Accounting and control of purchases, storage	2019	
		and issue of materials. Methods of pricing of	(4 Weeks)	
		materials issues — FIFO, LIFO, Simple		
		Average, Weighted Average, Replacement,		
		Standard Cost. Treatment of Material Losses		
3	Elements of Cost:	Accounting and Control of labour cost. Time	October-	
	Labour	keeping and time booking. Concept and	November 2019	
		treatment of idle time, over time, labour	(8 Weeks)	
		turnover and fringe benefits. Methods of		
		wage payment and the Incentive schemes-		
		Halsey, Rowan, Taylor's Differential piece		
		wage.		
4	Elements of Cost:	Classification, allocation, apportionment and	December 2019	
	Overheads. Book	absorption of overheads; Under- and over-	to February	
	Keeping in Cost	absorption; Capacity Levels and Costs;	2020	
	Accounting	Treatments of certain items in costing like	(6 Weeks)	
		interest on capital, packing expenses, bad		
		debts, research and development expenses;		
		Activity based Costing & Service Costing (brief		
		overview). Reconciliation of cost and financial		
		accounts		
5	Methods of	Job costing, Contract costing, Process costing	February to	
	Costing	(process losses, valuation of work-in-	March 2020	
		progress, joint and by-products)	(5 Weeks)	

Note: Assignments, class test & midterm will be taken during the session.

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<u>Teaching Plan for the session July 2019 to April 2020</u> <u>B. Com 2st Year</u>

Subject - E-COMMERCE

<u>Unit</u>	<u>Topic</u>	<u>Details</u>	<u>Month</u>	<u>Remarks</u>
1	Introduction	Meaning, nature, concepts, advantages,	July- August	
		disadvantages and reasons for transacting	2019	
		online, types of E-Commerce, e-commerce	(8 Weeks)	
		business models (introduction , key elements		
		of a business model and Categorizing major		
		E-commerce business models), forces behind		

	Managment	Cascading Style Sheets/ E-payment system	(,	
	business	Tables, Images, Lists, Forms, Frames,	(5 Weeks)	
	designing / E-	Text Formatting, Fonts, Hypertext Links,	March 2020	
Practical	Website	Introduction to HTML; tags and attributes:	February to	
		flipkart, etc.)		
		shopping (amazon, snapdeal, alibaba,		
		auctions, online portal, online learning, publishing and entertainment} Online		
		services (financial, travel and career),		
		benefits, problems and features), online		
		bills, online marketing, e-tailing (popularity,		
		like {banking, insurance, payment of utility	(6 Weeks)	
		commerce applications in various industries	2020	
4	Transactions	Meaning, purpose, advantages and disadvantages of transacting online, E-	to February	
4	On-line Business	involved in e-payments	December 2019	
		house, automated ledger posting), risks		
		electronic fund transfer, automated clearing		
		banking (meaning, concepts, importance,		
		legal position), payment gateways, online	, ,	
	3,3,0111	digital signatures (procedure, working and	(8 Weeks)	
3	E-payment System	Card, Credit Card, Smart Cards, e-money),	November 2019	
3	F-naymont	crimes Models and methods of e-payments (Debit	October-	
		Appellate Tribunal, Offences and Cyber-		
		subscribers, Penalties and adjudication,		
		Digital signatures certificates, Duties of		
		records, Regulation of certifying authorities,		
		acknowledgement and dispatch of electronic		
		Electronic governance, Attribution,		
		protecting servers as well as clients). IT Act 2000: Definitions, Digital signature,		
		communication, protecting networks and		
		(Encryption, security channels of		
		vandalism etc.), technology solutions		
		methods like hacking, sniffing, cyber-		
	,	instructions and breaches, attacking		
	Cyber Crimes	commerce environment (security	(TVCCR3)	
	Act 2000 and	scope of e-security), security threats in the E-	(4 Weeks)	
2	Security and Encryption & IT	Need and concepts, the e-commerce security environment (dimensions, definition and	September 2019	
	Constitut I	development of a website)	Cantain	
		hardware, software, outsourcing vs. in-house		
		involving decisions regarding selection of		
		e-commerce website (A systematic approach		
		features); Designing, building and launching		
		and internet(meaning, evolution and		
		ecommerce. Technology used in E- commerce: The dynamics of world wide web		

Teaching Plan for the session July 2019 to April 2020 B. Com Year III

<u>Subject - HUMAN RESOURCE MANAGEMENT</u>

Unit	Topic	Details	Month	Remarks
1	Introduction	Human Resource Management: Concept and	July- August	
		Functions, Role, Status and competencies of	2019	
		HR Manager, HR Policies, Evolution of HRM,	(5 weeks)	
		HRM vs HRD. Emerging Challenges of Human		
		Resource Management; Workforce diversity;		
		Empowerment; Downsizing; VRS; Human		
		Resource Information		
2	Acquisition of	Human Resource Planning- Quantitative and	August	
	Human Resource	Qualitative dimensions; job analysis – job	September	
		description and job specification; Recruitment	2019	
		 Concept and sources; Selection – Concept 	(5Weeks)	
		and process; test and interview; placement		
		and induction.		
3	Training and	Concept and Importance; Identifying Training	September-	
	Development	and Development Needs; Designing Training	October 2019	
		Programmes; Role-Specific and Competency-	(6 Weeks)	
		Based Training; Evaluating Training		
		Effectiveness; Training Process Outsourcing;		
		Management Development; Career		
		Development.		
4	Performance	Nature, objectives and importance; Modern	November –	
	Appraisal	techniques of performance appraisal;	December 2019	
		potential appraisal and employee counselling;	(8 Weeks)	
		job changes - transfers and promotions;		
		Compensation: concept and policies; job		
		evaluation; methods of wage payments and		
		incentive plans; fringe benefits; performance		
		linked compensation		
5	Maintenance	Employee health and safety; employee		
		welfare; social security; Employer-Employee		
		relations- an overview; grievance-handling		
		and 37 redressal; Industrial Disputes: causes		
		and settlement machinery.	February to	
			March 2020	
			(5 Weeks)	

Note: Assignments, class test & midterm will be taken during the session.

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

Teaching Plan for the session July 2019 to April 2020 B. Com Year III

Subject- FUNDAMENTALS OF FINANCIAL MANAGEMENT

Unit	Topic	Details	Month	Remarks
1	Introduction	Nature, scope and objective of Financial	July 2019	
		Management, Time value of money, Risk and	(4 Weeks)	
		return (including Capital Asset Pricing Model),		
		Valuation of securities – Bonds and Equities.		
2	Investment Decision	The Capital Budgeting Process, Cash flow	August-	
		Estimation, Payback Period Method,	September	

		Accounting Rate of Return, Net Present Value (NPV), Net Terminal Value, Internal Rate of Return (IRR), Profitability Index, Capital budgeting under Risk – Certainty Equivalent Approach and Risk- Adjusted Discount Rate	2019 (8Weeks)	
3	Financing Decision	Cost of Capital and Financing Decision: Sources of long-term financing Estimation of components of cost of capital. Methods for Calculating cost of equity capital, Cost of Retained Earnings, Cost of Debt and Cost of Preference Capital, Weighted Average cost of capital (WACC) and Marginal cost of capital. Leverage- Operating, Financial & Degree of Leverage. Capital structure —Theories of 45 Capital Structure (Net Income, Net Operating Income, Traditional Approach and MM Hypothesis). Determinants of capital structure.	October- November 2019 (8Weeks)	
4	Dividend Decisions	Theories for Relevance and irrelevance of dividend decision for corporate valuation; Cash and stock dividends; Dividend policies in practice	December 2019 (4Weeks)	
5	Working Capital Decisions	Concepts of working capital, the risk-return trade off, sources of short-term finance, working capital estimation, cash management, receivables management, inventory management and payables management.	February- March2020 (7 Weeks)	

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

<u>Teaching Plan for the session July 2019 to April 2020</u> <u>B. Com Year III</u>

Subject- FUNDAMENTALS OF FINANCIAL MANAGEMENT

Unit	Topic	Details	Month	Remarks
1	Introduction	Meaning, elements, determinants and importance of entrepreneurship and creative behaviour; Entrepreneurship and creative response to the society' problems and at work; Dimensions of entrepreneurship: intrapreneurship, technopreneurship, cultural entrepreneurship, international entrepreneurship, netpreneurship, ecopreneurship and social entrepreneurship	July-August 2019 (6Weeks)	
2	Entrepreneurship and Micro, Small and Medium Enterprises	Concept of business groups and role of business houses and family business in India; The contemporary role models in Indian business: their values, business philosophy and behavioural orientations; Conflict in family business and its resolution	August- September 2019 (6Weeks)	

3		Public and private system of stimulation, support and sustainability of entrepreneurship. Requirement, availability and access to finance, marketing assistance, technology, and industrial accommodation, Role of industries/entrepreneur's associations and self-help groups, The concept, role and functions of business incubators, angel investors, venture capital and private equity fund	September- October 2019 (8Weeks)
4	Sources of business ideas and tests of feasibility	Significance of writing the business plan/project proposal; Contents of business plan/project proposal; Designing business processes, location, layout, operation, planning & control; preparation of project report (various aspects of the project report such as size of investment, nature of product, market potential may be covered); Project submission/ presentation and appraisal thereof by external agencies, such as financial/non-financial institutions	November- December 2019 (8Weeks)
5	Mobilising Resources	Mobilising resources for start-up. Accommodation and utilities; Preliminary contracts with the vendors, suppliers, bankers, principal customers; Contract management: Basic start-up problems	February- March2020 (7 Weeks)

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

Teaching Plan for the session July 2019 to April 2020 B. Com Year III Subject- PRINCIPLES OF MICRO ECONOMICS

Unit	Topic	Details	Month	Remarks
1	Introduction	Determinants of demand, movements vs.	July 2019	
	To Demand and	shift in demand curve, Determinants of	(4 Weeks)	
	Supply	Supply, Movement along a supply curve vs.		
		shift in supply curve; - Market equilibrium		
		and price determination. Elasticity of demand		
		and supply. Application of demand and		
		supply		
2	Consumer Theory	Ordinal Utility theory: (Indifference curve	August-	
		approach): Consumer's preferences;	September	
		Interference curves; Budget line; Consumer's	2019	
		equilibrium; Income and substitution effect;	(6Weeks)	
		Price consumption curve and the derivation		
		of demand curve for a commodity; Criticisms		
		of the law of demand.		
3	Production and Cost	a) Production: Firm as an agent of production.	September-	
		Concepts of Production function. Law of	October 2019	
		variable proportions; Isoquants; Return to	(6Weeks)	
		scale. Economics and Diseconomies of scale.		
		b) Costs: Costs in the short run. Costs in the		

				,
		long run, Profit maximization and cost		
		minimization. Equilibrium of the firm,		
		Technological Change: the very long run		
4	Market Structure	(a). Perfect Competition: Assumption; Theory	November-	
		of a firm under perfect competition; Demand	December 2019	
		and Revenue; Equilibrium of the firm in the	(8Weeks)	
		short run and long run, The long run industry		
		supply curve: increasing, decreasing and		
		constant cost industry. Allocation efficiency		
		under perfect competition		
		(b). Monopoly: Short-run and long-run		
		equilibrium of monopoly firm; Concept of		
		supply curve under monopoly; Allocation		
		inefficiency and dead-weight loss monopoly;		
		Price discrimination. 53		
		(c). Imperfect Competition: Difference		
		between perfect competitions, monopoly and		
		imperfect competition;		
		(i) Monopolistic Competition: Assumption;		
		Short – run Equilibrium; Long run Equilibrium;		
		Concepts of excess capacity; Empirical		
		relevance.		
		(ii) Oligopoly: Causes for the existence of		
		oligopolistic firms in the market rather than		
		perfect Competition; Cooperative vs. Non		
		cooperative Behaviour and dilemma of		
		oligopolistic firms.		
5	Income Distribution	Demand for factors. Supply of factor,	February-	
	and Factor Pricing	backward bending supply curve for labour	March2020	
		concepts of economic rent; Functional	(7 Weeks)	
		Distribution of Income		

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

Teaching Plan for the session July 2019 to April 2020 B. Com Year III Subject - MANAGEMENT ACCOUNTING

Unit Topic **Details** Month Remarks Introduction and Meaning, Objectives, Nature and Scope of July- August management accounting, Difference between 2019 Contemporary cost accounting and management accounting, Issues (5 weeks) Cost control and Cost reduction, Cost management. Financial Statement Analysis -Common Size Statement, Comparative Statements, Trend Analysis and Ratio Analysis. 2 **Marginal Costing** Absorption versus Variable Costing: August Distinctive features and income September determination. Cost-Volume-Profit Analysis, 2019 Profit / Volume ratio. Break-even analysis-(5Weeks) algebraic and graphic methods. Angle of incidence, margin of safety, Key factor, determination of cost indifference point 3 **Decision Making** Steps in Decision Making Process, Concept of September-

		Relevant Costs and Benefits, Various short term decision making situations – profitable product mix, Acceptance or Rejection of special/ export offers, Make or buy, Addition or Elimination of a product line, sell or process further, operate or shut down. Pricing Decisions: Major factors influencing pricing decisions, various methods of pricing	October 2019 (6 Weeks)
4	Budgetary Control	Budgeting and Budgetary Control: Concept of budget, budgeting and budgetary control, objectives, merits, and limitations. Budget administration. Functional budgets. Fixed and flexible budgets. Zero base budgeting. Programme and performance budgeting. Responsibility Accounting- Concepts and Significance	November – December 2019 (8 Weeks)
5	Standard Costing	Standard Costing and Variance Analysis: Meaning of standard cost and standard costing, advantages, limitations and applications. Variance Analysis – material, labour, overheads and sales variances. Disposition of Variances, Control Ratios.	February to March 2020 (5 Weeks)

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

Teaching Plan for the session July 2019 to April 2020 B. Com Year III Subject - INTERNATIONAL BUSINESS

Unit	Topic	Details	Month	Remarks
1	Introduction to	A) Introduction to International Business:	July- August	
	International	Globalisation and its importance in world	2019	
	Business and	economy; Impact of globalization;	(5 weeks)	
	International	International business vs. domestic business:		
	Business	Complexities of international business;		
	Environment	Modes of entry into international business.		
		B) International Business Environment:		
		National and foreign environments and their		
		components - economic, cultural and		
		political-legal environments		
2	Theories of	a) Theories of International Trade – an	August	
	International Trade	overview (Classical Theories, Product Life	September	
	and International	Cycle theory, Theory of National Competitive	2019	
	Organisations and	Advantage); Commercial Policy Instruments -	(5Weeks)	
	Arrangements	tariff and nontariff measures – difference in		
		Impact on trade, types of tariff and non tariff		
		barriers (Subsidy, Quota and Embargo in		
		detail) ; Balance of payment account and its		
		components.		
		b) International Organizations and		
		Arrangements: WTO – Its objectives,		
		principles, organizational structure and		
		functioning; An overview of other		
		organizations – UNCTAD,; Commodity and		

		other trading agreements (OPEC).	
3	Regional Economic	a. Regional Economic Co-operation: Forms of	September-
	Co-operation and	regional groupings; Integration efforts among	October 2019
	International	countries in Europe, North America and Asia	(6 Weeks)
	Financial	(NAFTA, EU , ASEAN and SAARC) .	
	Environment	b. International Financial Environment:	
		International financial system and institutions	
		(IMF and World Bank – Objectives and	
		Functions); Foreign exchange markets and	
		risk management; Foreign investments -	
		types and flows; Foreign investment in Indian	
		perspectiv	
4	Organisational	a. Organisational structure for international	November –
	Structure for	business operations; International business	December 2019
	International	negotiations.	(8 Weeks)
	Business Operations	b. Developments and Issues in International	
	and Developments	Business: Outsourcing and its potentials for	
	and Issues in	India; Role of IT in international business;	
	International	International business and ecological	
	Business	considerations.	
5	Foreign Trade	a. Foreign Trade Promotion Measures and	
	Promotion	Organizations in India; Special economic	
	Measures and	zones (SEZs) and export oriented units	
	Financing of Foreign	(EOUs), ; Measures for promoting foreign	
	Trade and Payment	investments into and from India; Indian joint	February to
	Terms	ventures and acquisitions abroad. b.	March 2020
		Financing of foreign trade and payment terms	(5 Weeks)
		 sources of trade finance (Banks, factoring, 	
		forfaiting, Banker's Acceptance and	
		Corporate Guarantee) and forms of payment	
		(Cash in advance, Letter of Credit,	
		Documentary Collection, Open Account)	

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

Teaching Plan for the session July 2019 to April 2020 B. Com Year III Subject - PERSONAL SELLING AND SALESMANSHIP

Unit	Topic	Details	Month	Remarks
1	Introduction to	Nature and importance of personal selling,	July- August	
	Personal Selling	myths of selling, Difference between Personal	2019	
		Selling, Salesmanship and Sales Management,	(5 weeks)	
		Characteristics of a good salesman, types of		
		selling situations, types of salespersons,		
		Career opportunities in selling, Measures for		
		making selling an attractive career		
2	Buying Motives	Buying Motives: Concept of motivation,	August	
		Maslow's theory of need hierarchy; Dynamic	September	
		nature of motivation; Buying motives and	2019	
		their uses in personal selling.	(5Weeks)	
3	Selling Process	Selling Process: Prospecting and qualifying;	September-	
		Pre-approach; Approach; Presentation and	October 2019	
		demonstration; handling of objections;	(6 Weeks)	
		Closing the sale; Post sales activities		

4	Sales Reports	Sales Reports: reports and documents; sales manual, Order Book, Cash Memo; Tour Diary, Daily and Periodical Reports; Ethical aspects of Selling	November – December 2019 (8 Weeks)	
5	Personal Selling and Merchandising	AIDA Model of selling, Distribution Networks relationship, Advertisement and Personal Selling.	February to	
			March 2020 (5 Weeks)	

L.B.S. Govt. Degree College Saraswatinagar Shimla (H.P.)

Teaching Plan for the session July 2019 to April 2020 B. Com Year III

Subject - INDIAN ECONOMY

Unit	Topic	Details	Month	Remarks
1	Basic Issues and	Concept and Measures of Development and	July2019	
	Features of Indian	Underdevelopment; Human Development;	(4 weeks)	
	Econom	Composition of national income and		
		occupational structure		
2	Policy Regimes	a) The evolution of planning and import	August	
		substituting industrialization.	September	
		b) Economic Reforms since 1991.	2019	
		c) Monetary and Fiscal policies with their	(5Weeks)	
		implications on economy .		
3	Growth,	a) The experience of Growth, Development	September-	
	Development and	and Structural Change in different phases of	October 2019	
	Structural Change	growth and policy regimes across sectors and	(7 Weeks)	
		regions.		
		b) The Institutional Framework: Patterns of		
		assets ownership in agriculture and industry;		
		Policies for restructuring agrarian relations		
		and for regulating concentration of economic		
		power;		
		c) Changes in policy perspectives on the role		
		of institutional framework after 1991.		
		d) Growth and Distribution; Unemployment		
		and Poverty; Human Development;		
		Environmental concerns. e) Demographic		
		Constraints: Interaction between population		
		change and economic development.		
4	Sectoral Trends and	a) Agriculture Sector: Agrarian growth and	November –	
	Issues	performance in different phases of policy	December 2019	
		regimes i.e. pre green revolution and the two	(8 Weeks)	
		phases of green revolution; Factors		
		influencing productivity and growth; the role		
		of technology and institutions; price policy,		
		the public distribution system and food		
		security.		
		b) Industry and Services Sector: Phases of		
		Industrialisation – the rate and pattern of		

	1	T	,	
		industrial growth across alternative policy		
		regimes; Public sector – its role, performance		
		and reforms; The small scale sector; Role of		
		Foreign capital.		
		c) Financial Sector: Structure, Performance		
		and Reforms. Foreign Trade and balance of		
		Payments: Structural Changes and		
		Performance of India's Foreign Trade and		
		Balance of Payments; Trade Policy Debate;		
		Export policies and performance; Macro		
		Economic Stabilisation and Structural		
		Adjustment; India and the WTO, Role of FDI,		
		Capital account convertibility		
5	Inflation,	Inflation: Causes of rising and falling inflation,		
	Unemployment and	inflation and interest rates, social costs of		
	Labour Market	inflation; Unemployment – natural rate of		
		unemployment, frictional and wait		
		unemployment. Labour market and its	February to	
		interaction with production system; Phillips	March 2020	
		curve, the tradeoff between inflation and	(5 Weeks)	
		unemployment, sacrifice ratio, role of		
		expectations adaptive and rational.		

Note: Assignments, class test & midterm will be taken during the session.

LBS Govt. P.G. College Saraswatinagar Lesson plan for the session 2020-21 Department of computer Science and Technology Class- BCA 1st Sem

CORSE CODE: BCA0101

COURSE NAME – MATHEMATICS-1

Credits: 4

Unit	Topic	Months	activity
1. ALGEBRA	 Set theory Relations Quadratic equations Sequence and series Binomial theorem Matrices and determinants 	July 2020	assignment Class test
2.COORDINATE GEOMETRY	 Rectangular coordinates Section ratio Area of triangle Equation of straight lines circle 	August 2020	assignment Class test
3.TRIGONOMETRY 4.CALCULAS	1.T-fuctions , ratios2.Height and distances3. Function4. Limit and continuity5. Derivative	September, 2020	assignment Class test
4.CALCULAS	Maxima and minima revision stest	October, 2020	assignment Class test

Course Title:- Applied English

Course Code:-BCA0102

Credits: 4

Units	Topics	Time /Duration	Activities
UNIT-I	Comprehension: One unseen passages of 250-300 words in length with a variety of comprehension questions including 05 marks for word0attack skills such as word formation and inferring meaning, finding opposites etc. The passage can be a factual passage (e.g., instruction, description, report etc.) or a literary passage (e.g., extract from fiction, drama, poetry, essay or biography), or a discursive passage involving opinion, (argumentative, persuasive or interpretative text).	July 2020	 Assignments Class tests Presentation Code- Practical
UNIT –II	Vocabulary: Change the Number, Change the Gender, Words commonly mis0spelt, Antonyms, Synonyms, Fill up using correct determinant.	August 2020	··
UNIT-III	Filling up the correct form types of the tense in the sentence: present/ past /future tense with simple/continuous/perfect/ perfect continuous forms, Reordering word groups in the sentence to make a meaningfull sentence, Writing meaning of given word and using in the sentence. Conversion among various types of sentences: affirmative, interrogative sentences, negation, exclamations.	September, 2020	"
UNIT-IV	Composition: Composition on a given topic/title based on any current social, environment, health issues. Formal Letter Writing (invitation, accepting/rejecting an invitation, apology, welcome, thanking complements	October, 2020	

Course Title:- Computer Fundamental

Total Credits:- 4

Course Code:—**BCA0103**

Units	Topics	Time /Duration	Activities
UNIT-I	Introduction: Characteristics of Computers, Evolution of computers, Capabilities and limitations of computers, Generations of computers, Types of computers(micro, mini, main frame, supercomputers), Block diagram of computer, Basic components of a computer system0 Input unit, output unit, Arithmetic logic Unit, Control unit, central processing unit, Instruction set, registers, processor speed, type of processors.	July 2020	 Assignments Class tests Presentation Code- Practical
UNIT –II	Memory: main memory organization, main memory capacity, RAM, ROM, EPROM, PROM, cache memory, PCs specifications. Secondary Storage Devices- Magnetic Tape, Magnetic Disks0Internal Hard Disk, External Hard Drives, Floppy Disks, Optical Disks-CD, VCD, CD-R, CD-RW, DVD, Solid State Storage0Flash Memory, USB Drives.	August 2020	
UNIT-III	Input devices: Keyboard, Pointing Devices0mouse, Touch Screens, Joystick, Electronic pen, Trackball, Scanning Devices-Optical Scanners, OCR, OMR, Bar Code Readers, MICR, Digitizer, Electronic card reader, Image Capturing Devices-Digital Cameras. Output devices- Monitors0 CRT, LCD/TFT, Printers- Dot matrix, Inkjet, Laser, Plotters- Drum, Flatbed, Screen image projector.	September, 2020	
UNIT-IV	Computer Software: Software and its Need, Types of software0System software, Application software, System software0operating system, utility program, programming languages, assemblers, compilers and interpreter, introduction to operation system for PCs-DOS, windows, linux, file allocation table (FAT & FAT32), files & directory structure and its naming rules, programming languages0machine, assembly, high level, 4GL, their merits and demerits, application software and its types – word0processing, spreadsheet, presentation graphics	October, 2020	66

Course Title:- C Programming

Course Code:—BCA0104

Total Credits:- 4

Units	Topics	Time /Duration	Activities
UNIT-I	Introductory Concepts: Types of programming languages, Introduction to C, some		5. Assignments
	simple C programs, Desirable program characteristics. C Fundamentals: C character		6. Class tests
	Set, Identifiers and keywords, data types, constants, variables and arrays, Declarations,	July 2020	7. Presentation
	expressions, statements, Symbolic constants.		8. Code- Practical
	Operators and expressions: Arithmetic operators, unary operator, Relational and logical operators, assignment operators, conditional operators, Library Functions. Data Input		"
UNIT –II	and Output: Preliminaries, singe character input, singe character output, Entering input data, writing output data, the gets() and puts() function.	August 2020	
		September, 2020	
	Control Statements: Preliminaries, Branching, Looping, Nested control statements,		44
UNIT-III	switch statement, break statement, The continue statement, The goto statement, The		
	comma operator. Arrays: Defining an array, processing an array, passing arrays to		
	functions, Multidimensional arrays, Arrays and strings.		
UNIT-IV		October, 2020	
	Functions: A brief overview, Defining a function, accessing a function, function		"
	prototypes, passing arguments to a function, recursion. Pointers: Fundamentals, Pointer		
	declarations, Passing pointers to the functions, pointers and one dimensional array,		
	dynamic memory allocation, Operations on pointers, arrays of pointers.		

Course Title:- C Programming lab-I

Course Code:—BCA0104(P)

Units	Topics	Time /Duration
UNIT-I	variables and arrays, Declarations, expressions, statements, Symbolic constants.	
		July 2020

UNIT –II	Operators and expressions: Arithmetic operators, unary operator, Relational and logical operators, assignment operators, conditional operators, Library Functions. Data Input and Output: Preliminaries, singe character input, singe character output, Entering input data, writing output data, the gets() and puts() function.	August 2020
UNIT-III	Control Statements: Preliminaries, Branching, Looping, Nested control statements, switch statement, break statement, The continue statement, The goto statement, The	September, 2020
01.11	comma operator. Arrays: Defining an array, processing an array, passing arrays to functions, Multidimensional arrays, Arrays and strings.	
UNIT-IV		October, 2020
	Functions: A brief overview, Defining a function, accessing a function, function prototypes, passing arguments to a function, recursion. Pointers: Fundamentals, Pointer	
	declarations, Passing pointers to the functions, pointers and one dimensional array,	
	dynamic memory allocation, Operations on pointers, arrays of pointers.	

Course Title:-Office Automation Tool Course Code:- BCA0105
Total Credits:- 4

Units	Topics	Time /Duration	Activities
UNIT-I	DOS commands: (internal (DIR, DATE, TIME, CLS, CD, RD, MD, PATH, TYPE, DEL, ECHO, COPY, REN, PROMPT, VOL, VER), external (ATTRIB, CHKDSK, DISKCOPY, DISKCOMP, XCOPY, TREE, DELTREE, DOSKEY, FORMAT, FIND, SORT, FDISK, MORE, SYS)), Concept of files & directories, Wild card characters, Redirection operators. Windows 2007: Definition, Benefits, Features & uses of Windows 2007, Control panel, Accessories, Task bar, My computer uses, Recycle bin.	July 2020	 Assignments Class tests Presentation
UNIT –II	. Common Office 2007: Elements, Introduction to Office 2007, Customizing the Office Environment, Managing Files in Office, Text Tools, Drawing and Graphics Tools. Word Processing: Definition, Benefits, Features & uses of Word 2007, Menus, Toolbars, Cursor control keys, Short cut keys, Hot keys, Editing Text, Document Formatting, Reusable formatting with Styles and Templates, File handling (opening, creating, saving, printing, editing), Formatting text, Find and replace, Tables and Columns, Advanced Page Layout in Word, Automating Information with Fields, Managing Long Documents, Spell check, Thesaurus, File protection, Mail Merge, Labels, and Envelopes, Macros	August 2020	
	Spreadsheets: Definition, Benefits, Features & Uses of MS Excel 2007, Menus, Toolbars, Worksheets, Formatting Worksheets and Restricting Data, Calculating with	September, 2020	

UNIT-III	Formulas and Functions, Ranges, Auto fill, Data (sort, filter, validation, subtotal), Viewing and Manipulating Data with charts and PivotTables, Print, Goal seek, Scenario,		
	Macros, Creating Excel Databases.		
UNIT-IV	Presentations: Definition, Benefits, Features & Uses of PowerPoint, Menus, Toolbars,	October, 2020	
	Creating and Editing Slides, Adding graphics, Multimedia, and Special Effects to Slides,		"
	Insert (picture, slide, text), Master slide, Views, Animation, Action buttons, Macros.		

Course Title:-Office Automation Tool lab -II Course Code:- BCA0105(P) Total Credits:- 3

Units	Topics	Time /Duration
UNIT-I	DOS commands: (internal (DIR, DATE, TIME, CLS, CD, RD, MD, PATH, TYPE, DEL, ECHO, COPY, REN, PROMPT, VOL, VER), external (ATTRIB, CHKDSK, DISKCOPY, DISKCOMP, XCOPY, TREE, DELTREE, DOSKEY, FORMAT, FIND, SORT, FDISK, MORE, SYS)), Concept of files & directories, Wild card characters, Redirection operators. Windows 2007: Definition, Benefits, Features & uses of Windows 2007, Control panel, Accessories, Task bar, My computer uses, Recycle bin.	July 2020
UNIT –II	. Common Office 2007: Elements, Introduction to Office 2007, Customizing the Office Environment, Managing Files in Office, Text Tools, Drawing and Graphics Tools. Word Processing: Definition, Benefits, Features & uses of Word 2007, Menus, Toolbars, Cursor control keys, Short cut keys, Hot keys, Editing Text, Document Formatting, Reusable formatting with Styles and Templates, File handling (opening, creating, saving, printing, editing), Formatting text, Find and replace, Tables and Columns, Advanced Page Layout in Word, Automating Information with Fields, Managing Long Documents, Spell check, Thesaurus, File protection, Mail Merge, Labels, and Envelopes, Macros	August 2020
UNIT-III	Spreadsheet, Menus, Toolbars, Worksheets, Formatting Worksheets and Restricting Data, Calculating with Formulas and Functions, Ranges, Auto fill, Data (sort, filter, validation, subtotal), Viewing and Manipulating Data with charts and PivotTables, Print, Goal seek, Scenario, Macros, Creating Excel Databases.	September, 2020
UNIT-IV	Presentations: Menus, Toolbars, Creating and Editing Slides, Adding graphics, Multimedia, and Special Effects to Slides, Insert (picture, slide, text), Master slide, Views, Animation, Action buttons, Macros.	October, 2020

Figure 1

Class- BCA 3rdSem.

COURSE NAME – MATHEMATICS-III

CORSE CODE: BCA0301

Credits: 4

Unit	Topic	Months	Activity
Differential equation	 1.order and degree 2. Solution and formation of differential eqn. 3. solution of linear eqn. with constant coefficient 4. Cauchy and Legendre's equations 	July 2020	assignment Class test
2. Complex analysis	1.complex number2.modulas and argument3.square root, cube root of unity4. de-moivre's theorem	August 2020	assignment Class test
3. Number theory	 primes, factorization Chinese remainder theorem quadratic congruence Finite Field 	September, 2020	assignment Class test
4.Group theory 4.Group theory	 GF(p) fields polynomials and their operation over finite field Revison Test 	October, 2020	assignment Class test

Course Title: - Business Practices & Management

Course Code: – BCA0302

Units	Topics	Time	Activities
		/Duration	

UNIT-I	Concepts of Business: Commerce and Industry, Business Environment, Macro and Micro Environment, Business System, Forms of Business Organization.		 Assignments Class tests
		July 2020	3. Presentation4. Code - Practical
	Management: Meaning, definition and importance, Management concept, functions, Principles of management and Management Process.		"
UNIT –II		August 2020	
I D HT. III	Planning: concepts and its types, Decision making concept, Management by objectives (M.B.O.). Motivation0Concepts and theories, Leadership0 Concepts and styles.	September , 2020	"
UNIT-III			
UNIT-IV	Organizing: Concepts, Nature and Significance, Authority and responsibility, Centralization and Decentralization, Communication Nature, Process and types of communication networks. Managerial control 0 concepts and Process, Techniques of control.	October, 2020	

Course Title:- Computer Organization

Course Code:—BCA0303

Units	Topics	Time /Duration	Activities
UNIT-I	Data representation: number systems, decimal to binary, octal and hexadecimal conversion and vice versa, binary coded decimal numbers, hamming code for error detection, alphanumeric codes, arithmetic operations, binary addition and subtraction, addition/subtraction of numbers in 1's and 2's complement notation for binary numbers and 9's and 10's complement notation for decimal numbers, binary multiplication and division, BCD arithmetic, floating point addition and subtraction.	July 2020	 Assignments Class tests Presentation
UNIT –II	Register Transfer Language: Register transfer, Bus and Memory transfer (three-stage bus buffers, memory transfer), arithmetic microoperations (Binary Adder, Binary-adder-Substractor, binary incrementer, arithmetic circuit), Logic micro-operation (list op logic micro operations, hardware implementation), shift micro0operations (hardware implementation), arithmetic logic shift unit.	August 2020	cc
UNIT-III	Instruction codes: (stored program organization, indirect address), computer registers (common bus register), computer instructions (instruction set completeness), timing and control, instruction cycle (fetch and decode, types of instruction, register-reference instructions), Micro programmed control, control memory, addressing sequencing (conditional branching, mapping of instructions, subroutine)	September, 2020	

UNIT-IV	Central Processing Unit: Introduction, general register organization (control word, examples of micro-	October, 2020	
	operations), stack organization (register stack, memory stack, reverse polish notation, evaluation of		66
	arithmetic expressions), instruction formats (three-address instructions, two address instructions,		
	one0address instructions), addressing modes, data transfer and manipulation (data transfer instructions, data		
	manipulation instructions, arithmetic instructions, logical and bit manipulation instructions, shift		
	instructions), Program control (status bit conditions, conditional branch instructions, program interrupt,		
	types of interrupt).		

Course Title: - Object Oriented Programming with C++ Course Code: - BCA0304

Total Credits:- 4

Units	Topics	Time	Activities
		/Duration	
UNIT-I	Object oriented programming: Need for OOP, object oriented approach, characteristics of OOP language-		4. Assignments
	objects, classes, Inheritance, Reusability, Polymorphism, overloading advantage of OOP, relationship		5. Class tests
	between C and C++. Programming Basic: Basic program construction, output using cout, preprocessor	July 2020	6. Presentation
	directive, comments, integer variables, character variables, input with cin, Type bool, setw Manipulator, type		7. Code - Practical
	float, type conversion, arithmetic operators, relational operators, logical operators.		
	Loops and decision control statements: loop- for, while, do, decision-if, if- else, switch, conditional operator,		
	other control statements- break, continue, goto. Structures and functions: structures, Accessing structure		"
	members, structure within a structure, Enumerated Data type, simple functions, passing arguments to		
UNIT –II	functions, Returning values from functions, reference arguments, overloaded functions, storage classes,	August	
	scope resolution operator	2020	
	Objects and classes: A simple class, classes and objects, specifying a class, using a class, C++ objects as	September	
	physical objects, C++ objects as data types, Constructors, objects as function arguments, returning objects	, 2020	٠.
UNIT-III	from functions. Arrays: Array fundamental0defining array, array elements, Accessing array elements,	, 2020	
01/11/11	Initializing arrays, multidimensional arrays, passing arrays to functions, array of objects, strings-string		
	variables, Avoiding Buffer overflow, string constants, array of strings string as class members, Standard C++		
	string Class.		

UNIT-IV	Operator overloading: Overloading unary operators- the operator keyword, operator arguments, operator	October,		
	return values nameless temporary objects, limitation of increment operators, overloading Binary operators,	2020	"	
	data conversion, Pitfalls of operator overloading and conversion. Inheritance: Derived class and base class,			
	specifying the derived class, accessing base class, members, derived class constructors, overriding member			
	functions, class hierarchies, public and private Inheritance, levels of inheritance, multiple inheritance,			
	Ambiguity in Multiple Inheritance, Aggregation- Classes Within Classes.			

Course Title: - Object Oriented Programming with C++ lab-V Course Code: -BCA0304(P) Total Credits:- 3

Units	Topics	Time /Duration
UNIT-I	Programming Basic: Basic program construction, output using cout, preprocessor directive, comments, integer variables, character variables, input with cin, Type bool, setw Manipulator, type float, type conversion, arithmetic operators, relational operators, logical operators.	July 2020
UNIT –II	Loops and decision control statements: loop- for, while, do, decision-if, if- else, switch, conditional operator, other control statements- break, continue, goto. Structures and functions: structures, Accessing structure members, structure within a structure, Enumerated Data type, simple functions, passing arguments to functions, Returning values from functions, reference arguments, overloaded functions, storage classes, scope resolution operator	August 2020
UNIT-III	Objects and classes: A simple class, classes and objects, specifying a class, using a class, C++ objects as physical objects, C++ objects as data types, Constructors, objects as function arguments, returning objects from functions. Arrays: Array fundamental0defining array, array elements, Accessing array elements, Initializing arrays, multidimensional arrays, passing arrays to functions, array of objects, strings-string variables, Avoiding Buffer overflow, string constants, array of strings string as class members, Standard C++ string Class.	September , 2020
UNIT-IV	Operator overloading: Overloading unary operators- the operator keyword, operator arguments, operator return values nameless temporary objects, limitation of increment operators, overloading Binary operators, data conversion, Pitfalls of operator overloading and conversion. Inheritance: Derived class and base class, specifying the derived class, accessing base class, members, derived class constructors, overriding member functions, class hierarchies, public and private Inheritance, levels of inheritance, multiple inheritance, Ambiguity in Multiple Inheritance, Aggregation- Classes Within Classes.	October, 2020

Course Title: - Desktop Publishing and Designing

Total Credits:- 4

Course Code: - BCA0305

Course Code: - BCA0305(P)

Units	Topics	Time	Activities
		/Duration	
UNIT-I	D.T.P For Publications: Introductions to Printing, Types of Printing, Offset Printing, Working of offset		1. Assignments
	Printing, Transparent Printout, Negative & Positives for Plate were making, Use of Desk Top Publishing in		2. Class tests
	Publications, Importance of D.T.P in Publication, Advantage of D.T.P in Publication, Mixing of graphics &	July 2020	3. Presentation
	Image in a single page production, Laser printers Use, Types, Advantage of lager printer in publication.		4. Code - Practical
	Page Layout: Different page format / Layouts, News paper page format, Page orientations, Columns &		
	Gutters, Printing in reduced sizes. Page Maker: Introductions To Page Maker Icon and help, Tool Box,		"
	Styles, Menus etc., Different screen Views, Importing text/Pictures, Auto Flow, Columns, Master Pages and		
UNIT –II	Stories, Story Editor, Menu Commands and short0cut commands, Spell check, Find & Replace, Import	August	
	Export etc., Fonts, Points Sizes, Spacing etc., Installing Printers, Scaling (Percentages), Printer setup.	2020	
	Use Of D.T.P: Use of D.T.P. in Advertisements, Books & Magazines, News Paper, Table Editor. Adobe	September	
	Photoshop: Introduction to Photoshop & Flash, Documents, Various Graphic Files	, 2020	66
UNIT-III		,	
UNIT-IV	Extensions Vector Image and Raster Images, Various Colour Modes and Models. Introduction to Screen and	October,	
	Work Area, Photoshop Tools & Palettes, Use of Layers & Filters Working with Images.	2020	66

Course Title: - Desktop Publishing and Designing lab-VI

Units	Topics	Time /Duration
UNIT-I	D.T.P For Publications: Offset Printing, Working of offset Printing, Transparent Printout, Negative & Positives for Plate were making, Use of Desk Top Publishing in Publications, Importance of D.T.P in Publication, Advantage of D.T.P in Publication, Mixing of graphics & Image in a single page production,	July 2020
	Laser printers Use, Types, Advantage of lager printer in publication.	,

UNIT –II	Page Layout: Different page format / Layouts, News paper page format, Page orientations, Columns & Gutters, Printing in reduced sizes. Page Maker: Introductions To Page Maker Icon and help, Tool Box, Styles, Menus etc., Different screen Views, Importing text/Pictures, Auto Flow, Columns, Master Pages and Stories, Story Editor, Menu Commands and short0cut commands, Spell check, Find & Replace, Import Export etc., Fonts, Points Sizes, Spacing etc., Installing Printers, Scaling (Percentages), Printer setup.	August 2020
UNIT-III	Use Of D.T.P: Use of D.T.P. in Advertisements, Books & Magazines, News Paper, Table Editor. Adobe Photoshop: Introduction to Photoshop & Flash, Documents, Various Graphic Files	September , 2020
UNIT-IV	Extensions Vector Image and Raster Images, Various Colour Modes and Models. Introduction to Screen and Work Area, Photoshop Tools & Palettes, Use of Layers & Filters Working with Images.	October, 2020

Class- BCA 5thSem.

Course Title:-Operating System

Course Code:—BCA0501

Units	Topics	Time /Duration	Activities
UNIT-I	Operating System Concepts: Operating System Classification- Simple Monitor, Multi Programming, Time Sharing, Real Time Systems, Multiprocessor Systems, Batch Processing, Simple User, Multi User, Operating System Functions And Characteristics.	July 2020	Assignments Class tests Presentation
UNIT –II	Processor Management: Process Overview, Process States, Process State Transitions, Process Control Block, Operations On Processes, Suspend And Resume, Interrupt Processing, Scheduling Algorithms, Multiple Processor Scheduling. Deadlock: Deadlock Problem, Deadlock, Deadlock Characterization, Necessary Conditions, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection, Recovery From Deadlock.	August 2020	cc

UNIT-III	Memory Management: Partition, Paging, Segmentation, Types Of Memory Management Scheme, Bare Machine, Resident Monitor, Swapping, Multiple Partition, Virtual Memory, Demand Paging.	September, 2020	
UNIT-IV	File Management: File Types, Operation On Files, File Support, Access Methods, Sequential Access, Direct Access, Index, Allocation Method (Free Space Management, Contiguous, Linked, Indexed), Directory System Single-Level, Two-Level, TreeStructured, File Protection.	October, 2020	66

Course Title:- e-Commerce

Course Code:—**BCA0502**

Units	Topics	Time /Duration	Activities
UNIT-I	e-Commerce: Definition, Framework, Architecture, benefits and Impact of e-Commerce, The Anatomy of e-Commerce application, eCommerce Consumer applications, e-Commerce Organization Application, e-commerce in India, Prospects of e-Commerce.	July 2020	1. Assignments 2. Class tests 3. Presentation
UNIT –II	Consumer0oriented E-Commerce: Consumer0oriented applications, mercantile Process Models, consumer's perspective, Merchant's perspective. Advertising and marketing on the Internet: The new age information based marketing, Advertising on the Internet Active or push0based advertising models, Passive or pull based advertising models. Guidelines for Internet advertising. Online marketing process	August 2020	cc .
UNIT-III	Types of Electronic Payment System: Digital token0based electronic payment systems, smart cards and electronic payment systems, credit card0based electronic payment systems, Risk and electronic payment systems. Electronic data Interchange and its applications in business.	September, 2020	"
UNIT-IV	Securing the Business on Internet: security Policy, Procedures and Practices, transaction security, CRM, what is e-CRM, it's applications, The e-CRM marketing in India, Major Trends, Global Scenario for eCRM, CRM utility in India.	October, 2020	"

Course Title:- Management Information System Total Credits:- 4

Units	Topics	Time /Duration	Activities
UNIT-I	Management Information System: Definition, Meaning and Role of Management Information System Introduction, Definition, System's Approach, Pitfalls in Management Information Systems. Development of Organizational Theory: Management & Organizational Behaviour, Management, Information & System Approach.	July 2020	1. Assignments 2. Class tests 3. Presentation
UNIT –II	Data Processing: Operation of Manual Information System, Components of Computer System, Conversion of Manual to Computer Based Systems, Data Bank Concept, Types of Computer Based Applications. Information System for Decision Making: Evolution of Information System, Decision Making & Management Information System.	August 2020	"
UNIT-III	Strategic & Project Planning for Management Information System: Business Planning, Management Information System Responses, Management Information System Planning0 General & Details. Conceptual System Design: Define Problem, Set System Objective, Establish System Constraints, Determine Information Needs & Sources, Develop Alternative Conceptual Design & Documentation, Prepare the Design Report.	September, 2020	"
UNIT-IV	Detailed System Design: Aim, Project Management, Define Subsystem, Input, Output & Process Design, System Testing, Software & Hardware selection, Documentation of Detailed Design.	October, 2020	

Course Code:—BCA0503

Course Title:-ASP.Net Technologies

$\Gamma_{\alpha + \alpha} 1$	Credite-	4

Course Code:—BCA0504

Units	Topics	Time /Duration	Activities
UNIT-I	Introducing .NET: Microsoft web development, Move from workstation to distributed computing, Internet factor, importance of.net platform0 OS neutral environment, device independence, wide language support, internet based component servicesNET framework: Common language runtime(CLR), code management and execution, security support, error handling and garbage collection, net framework class libraries0System classes, data and XML classes, windows form and drawing classes, web classes. Features of .NET framework: ASP.NET web forms and web services0 Web page authoring & server controls, ASP.NET infrastructure.	July 2020	4. Assignments5. Class tests6. Presentation
UNIT –II	VB.NET: Introduction, statement, lines, comments, operators, procedures, variables0 implicit, explicit, constants, parameters, arrays, branching, looping, objects, classes, inheritance, accessibility of inherited properties and methods, overriding methods. System class, working with numbers, manipulating strings, DateTime arithmetic, converting values, formatting values, managing arrays. Namespace and assemblies, Relating namespaces and DLL assemblies, creating assemblies, importing assemblies, using imported assemblies, compiling with imported namespace.	August 2020	٠.
UNIT-III	ASP.NET Web Forms: Web forms code model, In-page vs. Code0behind format, web form object life cycle, handling client side events on the server, web form event handling, define and respond web form control events, AutoPostBack property, automatic state management with web forms. HTML sever control: definition, RunAt sever attribute, HTML control class, General controls-Anchor, image, form, division, span, Table control, Input Control. Web server Control: Web Control class, General control- Hyperlink, link button, image, label, Panel, Form Controls, Table controls.	September, 2020	‹‹
UNIT-IV	Web form List Control: Simple List controls, Template List controls. Validation Controls: Definition, properties and methods of validation controls, validation controls RequiredFieldValidator, Compare Validator, RangeValidator, RegularExpressionValidator, CustomValidator, ValidationSummary. User Controls: Definition, MarkupOonly User Control, Custom properties, handling events and loading user controls dynamically.	October, 2020	66

Course Title:-ASP.Net Technologies lab-IX

Total Credits:- 3

Course Code:—BCA0504(P)

COURSE CODE: BCA0505

Units	Topics	Time /Duration
UNIT-I	NET framework: Common language runtime(CLR), code management and execution, security support, error handling and garbage collection, net framework class libraries0System classes, data and XML classes, windows form and drawing classes, web classes. Features of .NET framework: ASP.NET web forms and web services0 Web page authoring & server controls, ASP.NET infrastructure.	July 2020
UNIT –II	VB.NET: Introduction, statement, lines, comments, operators, procedures, variables0 implicit, explicit, constants, parameters, arrays, branching, looping, objects, classes, inheritance, accessibility of inherited properties and methods, overriding methods. System class, working with numbers, manipulating strings, DateTime arithmetic, converting values, formatting values, managing arrays. Namespace and assemblies, Relating namespaces and DLL assemblies, creating assemblies, importing assemblies, using imported assemblies, compiling with imported namespace.	August 2020
UNIT-III	ASP.NET Web Forms: Web forms code model, In-page vs. Code0behind format, web form object life cycle, handling client side events on the server, web form event handling, define and respond web form control events, AutoPostBack property, automatic state management with web forms. HTML sever control: definition, RunAt sever attribute, HTML control class, General controls-Anchor, image, form, division, span, Table control, Input Control. Web server Control: Web Control class, General control- Hyperlink, link button, image, label, Panel, Form Controls, Table controls.	September, 2020
UNIT-IV	Web form List Control: Simple List controls, Template List controls. Validation Controls: Definition, properties and methods of validation controls, validation controls RequiredFieldValidator, Compare Validator, RangeValidator, RegularExpressionValidator, CustomValidator, ValidationSummary. User Controls: Definition, Markup0Only User Control, Custom properties, handling events and loading user controls dynamically.	October, 2020

COURSE NAME – Computer Oriented Statistical Method

Credits: 4

Unit	Topic	Months	Activity
	1.frequency distribution		
	2. mean		assignment Class test
	3. mode	July 2020	Class test
 Statistics 	4. median		
	5. dispersion		

2. Probability	addition and multiplication theorem conditional probability independent events	August 2020	assignment Class test
3 Mathematical expectation	 expected value of function of random variable variance and covariance test 	September, 2020	assignment Class test
4. Correlation	 Karl's Pearson coefficient rank correlation revision 	October, 2020	assignment Class test

COURSE NAME – Computer Oriented Statistical Methods lab -X

Credits: 3

CORSE CODE: BCA0505(P)

Unit	Topic	Months
	frequency distribution	
	mean	
	mode	July 2020
Statistics	median	
	dispersion	
	addition and multiplication theorem	

Probability	conditional probability independent events	August 2020
Mathematical expectation	expected value of function of random variable variance and covariance	September, 2020
Correlation	Karl's Pearson coefficient rank correlation	October, 2020

LBS Govt. P.G. College Saraswagtinagar Lesson plan for the session 2020-21 Department of computer Science and Technology Class- BCA 2nd Sem

COURSE NAME – MATHEMATICS-II

Credits: 4

CORSE CODE: BCA0201

Unit	Topic	Months	activity
Calculus	Rolles theorem, Lagranges mean value theorem, Cauchy's mean value theorem their geometrical significance and application. successive differentiation	Dec, 2020	assignment Class test
Number theory	Division algorithm, greatest common divisor, least common multiple. Congruence relation, integer arithmetic, modular arithmetic	Feb, 2021	assignment Class test
Algebra	 Groups: definition, groups of numbers, groups of residue, groups of matrices, groups of functions. Properties of groups, characterization of groups Cyclic groups. 	March, 2021	assignment Class test
Algebra	1. Ring: types of ring, ring of polynomials, rings of functions, properties of rings 2. Fields.	April, 2021	assignment Class test

Course Title:- Communicative English

Course Code:-BCA0202

Credits: 4

Units	Topics	Time /Duration	Activities
UNIT-I	Vocabulary: Fill up using correct form of verb, Usage of the adverb, adjective etc,		1. Assignments
	Write Antonym of the given word and use both the given word and its antonym in the		2. Class tests
	single sentence clarifying meaning and usage, Give different meanings to Synonyms	Dec, 2020	3. Presentation
	and use them in sentences, Give meaning and make sentences using idioms.		4. Code- Practical
	Grammar: Conversion among various types of the tenses in the sentence: present/ past		
	/future tense with simple/continuous/perfect forms, Conversion between Direct/Indirect		
	speech, Conversion between active/passive voice, Conversion among various types of		
	sentences: affirmative, interrogative sentences, negation, exclamations		
	. Skills in Writing: letters, official/business correspondence. CV's, Tech. Reports/types, Precis, comprehension, Paragraph writing (200 word) on current topics, writing notices,		"
UNIT –II	agenda, circulars.	Feb, 2021	
	Secretarial Skills: Effective communication, listening and feedback skills, telephone handling, Attending meeting, preparing of agenda, writing of minutes, summaries.	March, 2021	
UNIT-III	Handling problem situations. Control of voice and proper use of phonetics.		
UNIT-IV	Presentation and Discussion Skills: Types of communication. Barriers to Communication. Effective use of kinesics, Planning interviews and making presentations. Taking initiatives, especially in group discussions, overcoming	April, 2021	"
	nervousness, making audience analyses and establishing leadership.		

Course Title:- Digital Electronics

Course Code:—BCA0203

Total Credits:- 4

Units	Topics	Time /Duration	Activities
UNIT-I	Fundamentals of semiconductor physics: Energy bands in solids0 pn0junction diode depletion region, forward and reverse bias, diode as switch; Bipolar Junction Transistor, transistor configurations, bipolar junction transistor (CE configuration) as switch,	Dec, 2020	Assignments Class tests Presentation
	Saturated and non0saturated logic, Integrated Circuits, characteristics of digital logic families0TTL, ECL, CMOS.	Dec, 2020	4. Code- Practical
	Logic gates: AND, OR, NOT Gates and their Truth Tables, NOR, NAND & XOR gates, Boolean algebra, Basic Boolean Law's, Demorgan's theorem, Boolean function and their truth tables.		"
UNIT –II		Feb, 2021	
UNIT-III	MAP simplification: Minimization techniques, K-Map, Sum of Product & Product of Sum, Venn diagram. Combinational circuit.	March, 2021	"
UNIT-IV	Sequential circuits: Half adder & Full adder, BCD adder, Full Subtractor, Flip-flops-RS, D, JK, T & Master-Slave flip-flops, Shift registers, Multiplexer, Encoder, Decoder.	April, 2021	66

Course Title:- Data Structure

Course Code:- BCA0204

Units	Topics	Time /Duration	Activities
UNIT-I	Preliminaries: Concept & notation, common operation on data structures, algorithm		5. Assignments
	complexity, time-space trade off between algorithm, physical & logical representation		6. Class tests
	of different data structures. Arrays: Arrays defined, representing arrays in memory,	Dec, 2020	7. Presentation
	Various operation (traversal, insertion, deletion), Multidimensional arrays, Sequential		8. Code- Practical
	allocation, Address calculation		
	Linked List: Definition, type (linear, circular, doubly linked, inverted), representing		
	linked lists in memory, advantages of using linked list over arrays, various operations		66
	on Linked list (traversal, insertion, deletion		
UNIT –II		Feb, 2021	

UNIT-III	Stacks: Definition & concepts of stack structure, Implementation of stacks, Operation on stacks (push & pop), Application of stacks (converting arithmetic expression from infix notation to polish and their subsequent evaluation), quick sort technique to sort an array, recursion). Queue: Definition & concept of queues, implementation of queue, operation on queues (insert & delete), circular queue.	March, 2021	cc
UNIT-IV	Trees Structures: Tree, Binary Trees, Tree Traversal Algorithms (Pre-Order, In-Order, Post-Order), Threaded Trees, Binary Search Trees. Sorting & Searching: Selection sort, Bubble sort, Merge sort, Radix sort, Quick sort, Sequential search, Linear search and their complexity.	April, 2021	cc

Course Title:- Data Structure lab-III Course Code:- BCA0204(P) Total Credits:- 3

Units	Topics	Time /Duration
UNIT-I	Arrays: Arrays defined, representing arrays in memory, Various operation (traversal,	
	insertion, deletion), Multidimensional arrays, Sequential allocation, Address calculation	
		Dec, 2020
	Linked List: Definition, type (linear, circular, doubly linked, inverted), representing	
	linked lists in memory, advantages of using linked list over arrays, various operations on Linked list (traversal, insertion, deletion	
UNIT –II		Feb, 2021
	Stacks: Definition & concepts of stack structure, Implementation of stacks, Operation	March, 2021
	on stacks (push & pop), Application of stacks (converting arithmetic expression from	
UNIT-III	infix notation to polish and their subsequent evaluation), quick sort technique to sort an	
	array, recursion). Queue: Definition & concept of queues, implementation of queue,	
	operation on queues (insert & delete), circular queue.	
UNIT-IV	Trees Structures: Tree, Binary Trees, Tree Traversal Algorithms (Pre-Order, In-Order,	April, 2021
	Post-Order), Threaded Trees, Binary Search Trees. Sorting & Searching: Selection sort,	
	Bubble sort, Merge sort, Radix sort, Quick sort, Sequential search, Linear search and	
	their complexity.	

Course Title:- Database Management System Course Code:- BCA0205

Total Credits:- 4

Units	Topics	Time /Duration	Activities
UNIT-I	Introduction To Database Concepts: Data Modeling for a Database, Fields, Records and Files, Abstraction and Data Integration, Database Architecture, Users, Structure of DBMS, Advantages and Disadvantages of DBMS. Data Models: Entity, Attribute, Relationship, Data Model Classifications, File based, Traditional, Semantic, Entity0Relationship Model.	Dec, 2020	 Assignments Class tests Presentation
LDUT H	File Organization: Operation on files, Sequential Files, IndexSequential Files, Types of Indexes, Implicit, limit, multilevel, Direct Files, Indexing using B-Tree Structure. Relational Model: Relational Database, Relational Algebra, Relational Calculus		٠٠
UNIT –II		Feb, 2021	
UNIT-III	Relational Database Design: Relational Scheme and Relational Design, Functional Dependency, Normal forms (First, Second, Third, Boyce Code), Decomposition and dependency preservation, Multi0valued dependency.	March, 2021	"
UNIT-IV	Ms Access: Tables (Creation/Design structure, Data Entry), Primary keys, Foreign Keys Master-Detail Table, Query (Select, Make-Table, Update, Append, Delete) Form (Modal, Modeless), Relationships Report (Creation of a simple report from a table and from a query).	April, 2021	"

Course Code:- BCA0205(P)

Course Title:- Database Management System lab-IV Total Credits:- 3

Units	Topics	Time /Duration
UNIT-I	, Ms Access: Tables (Creation/Design structure, Data Entry), Primary keys, Foreign Keys Master-Detail Table,	
		Dec, 2020
	Query (Select, Make-Table, Update, Append, Delete)	
UNIT –II		Feb, 2021
UNIT-III	Form (Modal, Modeless),	March, 2021

UNIT-IV Re	delationships Report (Creation of a simple report from a table and from a query).	April, 2021
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Class- BCA 4th Sem

Course Title: - Personnel Management

Course Code: -BCA0401

Units	Topics	Time /Duration	Activities
UNIT-I	Introduction to Personnel Management : Nature, Scope, functions and significance, Personnel Policies, classification and organization of Personnel Department.	Dec, 2020	1. Assignments 2. Class tests 3. Presentation 4. Code - Practical
	Human Resource Planning: Meaning, objectives and importance of HRM, Job Analysis and Design, Recruitment, selection, Terms of Employment, Induction and Briefing, Orientation and Placement.		cc .
UNIT –II		Feb, 2021	
UNIT-III	Human resources Development: Training and Development and Promotion and incentives, retirement benefits.	March, 2021	
UNIT-IV	Performance Appraisal and Job Evaluation, Employee remuneration and various incentive plans.	April, 2021	

Course Title:- Accounting

Course Code:—**BCA0402**

Total Credits:- 4

Units	Topics	Time /Duration	Activities
UNIT-I	Accounting: Meaning, Definition and objects of Accounting, Accounting Principles, Accounting concepts		1. Assignments
	and Conventions, Principle of Double Entry System, Journal Entry, Ledger, Cash Book and Subsidiary		2. Class tests
	books, Trial Balance and rectification of errors.	Dec, 2020	3. Presentation
	Final Account: Manufacturing Account, Trading Account, Profit and Loss Account and Balance Sheet.		"
UNIT –II		Feb, 2021	
		March, 2021	
UNIT-III	Cost Accounting: Nature and scope of Cost Accounting, Cost Concept and classification, Cost Sheet, Marginal Costing (BEP and Cost Volume Profit analysis).		"
UNIT-IV	Management Accounting: Meaning, importance and Scope of Management Accounting Brief introduction to the tools of financial statements, Analysis (Ratio, Fund Flow and Cash Flow Analysis).	April, 2021	

Course Title: - System Analysis and Design

Total Credits:- 4

Course Code: -BCA0403

Units	Topics	Time	Activities
		/Duration	
UNIT-I	Overview of System Analysis and Design: Business System concepts, System development life cycle, Project Selection, Feasibility Analysis, Design, Limitation, testing and evaluation. Initial Investigation: Sources of Requests, User / Analyst interaction, Qualities of a System Analyst Feasibility studies: Technical, Operational, Behavioral and economic feasibilities, cost and benefit analysis.	Dec, 2020	4. Assignments5. Class tests6. Presentation7. Code - Practical
UNIT –II		Feb, 2021	

UNIT-III	System requirement specification and analysis: Fact finding techniques, Data Flow Diagrams, Data Dictionaries, process organization and interaction, Decision Analysis, Decision Trees and Tables. Top down and bottom up variance, Audit trails.	March, 2021	cc
UNIT-IV	Detail Design: Modularization, module specification, file design, system development involving databases. System control and quality assurance: Design objectives reliability and maintenance, software design and documentation tools, unit and integration testing, testing practice and plans, system control.	April, 2021	"

Course Title:- Internet Technology & Web Page Design Course Code:- BCA0404 Total Credits:- 4

Units	Topics	Time /Duration	Activities
UNIT-I	Internet: Evolution of Internet, Internet Application, Network requirements, Bandwidth, Internet features (Electronic Mail, Newsgroups, FTP Archive, Real Time Activity, Video, Audio, Search Engine).	Dec, 2020	8. Assignments 9. Class tests 10. Presentation
UNIT –II	World Wide Web: Definition, WWW Browsers, WWW Servers, Dial-Up SLIP, PPP Access, Dedicated line, ISDN.TCP/IP Connectivity- DNS Servers, Domain Names Registration process, IP addressing, Routing with TCP/IP Basics	Feb, 2021	"
UNIT-III	HTML: Text formatting, Data, Tables, Table layout, Images, HTML Interactivity, URLs, HTTP, NNTP, Hyperlinks, Menus & Image Maps, HTML Form, Embedded objects in HTML, Web Typography, Approaching Web Typography, Graphics and Type, Families and Faces, Type forms, Color and Type, Adding Graphics, Adding Graphics with the Image Element, Using images as links, Creating Image Maps, Working with Image Files, Layout Technology, Standard HTML Formatting, Tables, Frames,	March, 2021	"
UNIT-IV	CSS: Formatting your site with Cascading Style Sheets, Seeing Style Sheets in Action, Understanding CSSI's Advantages and Limitations, Making HTML and CSSI's, Making HTML and CSSI work together, Learning How CSSI Works, Using CSSI Properties. XML, XML Language, SMGL, Linking in XML.	April, 2021	"

Course Title:- Internet Technology & Web Page Design lab-VII Course Code:- BCA0404(P) Total Credits:- 3

Units	Topics	Time /Duration
UNIT-I	HTML: Text formatting, Data, Tables, Table layout, Images, HTML Interactivity, URLs, HTTP, NNTP, Hyperlinks, Menus & Image Maps, HTML Form, Embedded objects in HTML, Web Typography, Approaching Web Typography,	Dec, 2020
UNIT –II	Graphics and Type, Families and Faces, Type forms, Color and Type, Adding Graphics, Adding Graphics with the Image Element, Using images as links, Creating Image Maps, Working with Image Files, Layout Technology, Standard HTML Formatting, Tables, Frames	Feb, 2021
UNIT-III	CSS: Formatting your site with Cascading Style Sheets, Seeing Style Sheets in Action, Understanding CSSI's Advantages and Limitations, Making HTML and CSSI's	March, 2021
UNIT-IV	,Making HTML and CSSI work together, Learning How CSSI Works, Using CSSI Properties. XML, XML Language, SMGL, Linking in XML.	April, 2021

Course Title:- Programming in Visual Basic Code:- BCA0405

Total Credits:- 4

Units	Topics	Time	Activities
		/Duration	

UNIT-I	Introduction to Visual Studio: Features of Visual basic, Visual Basic applications, compile, run, Difference between Visual Basic and .NET languages. Open, close existing project, possible menu variations, use the Form Designer, Code Editor, Solution Explorer, work with Visual Studio's windows. Design a form: Add controls to a form, Set properties, common properties for forms and controls, add navigation features, property settings, use Document Outline view, name and save files of a project, Design and property settings for the form, Refer to properties, methods, events, Add code to a form, create an event handler for the default event of a form or control, code with a readable style, code comments, detect and correct syntax errors. Use the toolbar buttons, collapse or expand code, print source code, code snippets, Smart Compile Auto Correction feature, My feature and debug a project.	Dec, 2020	 Assignments Class tests Presentation
UNIT –II	Work with numeric and string data: Work with the built-in value types- Declare and initialize variables, declare and initialize constants, code arithmetic expressions, code assignment statements, work with the order of precedence, use casting, change the type semantics, work with strings, declare and initialize a string, join and append strings. Data types, use Visual Basic functions to convert data types, use methods to convert data types, formatting functions, use methods to convert numbers to formatted strings, Code control structures: Code Boolean expressions, relational operators, logical operators, conditional statements, If statements, Select Case statements, loops, For loops, Do loops, use Exit and Continue statements, Debugging techniques for programs with loops.	Feb, 2021	"
UNIT-III	Code procedures and event handlers: Code and call procedures- Sub procedures, call Sub procedures, pass arguments by reference and by value, code and call Function procedures, work with events, start an event handler for any event, handle multiple events with one event handler, use the Code Editor to start an event handler, add and remove event writing. The Function procedure, event handlers, Message box Handle exceptions and validate data: Introduction to data validation and exception handling, use the IsNumeric function, display a dialog box for error messages, exception handling works, Use structured 34 exception handling, catch an exception, properties and methods of an exception, throw an exception, application with exception handling. Validate data: Validate a single entry, use generic procedures to validate an entry, validate multiple entries, application with data validation, dialog boxes, code, Difference between Validating event and masked text box.	March, 2021	66
UNIT-IV	Arrays and collections: one-dimensional arrays, create an array, assign values to the elements of an array, use For loops to work with arrays, use For Each loops to work with arrays, work with rectangular arrays, create a rectangular array, assign values to a rectangular array, work with rectangular arrays, create a jagged array, assign values to a jagged array, work with jagged arrays, use the Array class, refer to and copy arrays, code procedures that work with arrays, Work with list, sorted list, queues, stacks, array list. Dates and strings: create a DateTime value, get the current date & time, format DateTime values, perform operations on dates and times, work with strings, procedures for validating user entries, Format numbers, dates, and times, Format numbers. Types of controls, combo boxes, list boxes, check boxes, radio buttons, group boxes, use Tab Order view to set the tab order. MultiOform projects: Add a form to a project, rename a form, change the startup form for a project, display a form as a dialog box, pass data between a form and a custom dialog box, Use the MessageBox0	April, 2021	"

Display a dialog box and get the user response, use the FormClosing event. Debug an application: set the	
debugging options, break mode, use the Edit Continue feature, breakpoints, debugging windows, Locals window	
to monitor variables, use the Autos window to monitor variables, Watch windows to monitor expressions, Call	
Stack window to monitor called procedures, Output window to get build or debugging information.	
Markup0Only User Control, Custom properties, handling events and loading user controls dynamically.	

Course Title:- Programming in Visual Basic lab-VIII Code:- BCA0405(P) Total Credits:- 3

Units	Topics	Time /Duration
UNIT-I	UNIT-I use the Form Designer, Code Editor, Solution Explorer, work with Visual Studio's windows. Design a form: Add controls to a form, Set properties, common properties for forms and controls, add navigation features, property settings, use Document Outline view, name and save files of a project, Design and property settings for the form, Refer to properties, methods, events, Add code to a form, create an event handler for the default event of a form or control, code with a readable style, code comments, detect and correct syntax errors. Use the toolbar buttons, collapse or expand code, print source code, code snippets, Smart Compile Auto Correction feature, My feature and debug a project.	
UNIT –II	Work with numeric and string data: Work with the built-in value types- Declare and initialize variables, declare and initialize constants, code arithmetic expressions, code assignment statements, work with the order of precedence, use casting, change the type semantics, work with strings, declare and initialize a string, join and append strings. Data types, use Visual Basic functions to convert data types, use methods to convert data types, formatting functions, use methods to convert numbers to formatted strings, Code control structures: Code Boolean expressions, relational operators, logical operators, conditional statements, If statements, Select Case statements, loops, For loops, Do loops, use Exit and Continue statements, Debugging techniques for programs with loops.	Feb, 2021
UNIT-III	Code procedures and event handlers: Code and call procedures- Sub procedures, call Sub procedures, pass arguments by reference and by value, code and call Function procedures, work with events, start an event handler for any event, handle multiple events with one event handler, use the Code Editor to start an event handler, add and remove event writing. The Function procedure, event handlers, Message box Handle exceptions and validate data: Introduction to data validation and exception handling, use the IsNumeric function, display a dialog box for error messages, exception handling works, Use structured 34 exception handling, catch an exception, properties and methods of an exception, throw an exception, application with exception handling. Validate data: Validate a single entry, use generic procedures to validate an entry, validate multiple entries, application with data validation, dialog boxes, code, Difference between Validating event and masked text box.	March, 2021

UNIT-IV	Arrays and collections: one-dimensional arrays, create an array, assign values to the elements of an array, use For loops to work with arrays, use For Each loops to work with arrays, work with rectangular arrays, create a rectangular array, assign values to a rectangular array, work with rectangular arrays, create a jagged array, assign values to a jagged array, work with jagged arrays, use the Array class, refer to and copy arrays, code procedures that work with arrays, Work with list, sorted list, queues, stacks, array list. Dates and strings: create a DateTime value, get the current date & time, format DateTime values, perform operations on dates and times, work with strings, procedures for validating user entries, Format numbers, dates, and times, Format numbers. Types of controls, combo boxes, list boxes, check boxes, radio buttons, group boxes, use Tab Order view to set the tab order. MultiOform projects: Add a form to a project, rename a form, change the startup form for a project, display a form as a dialog box, pass data between a form and a custom dialog box, Use the MessageBox0 Display a dialog box and get the user response, use the FormClosing event. Debug an application: set the debugging options, break mode, use the Edit Continue feature, breakpoints, debugging windows, Locals window to monitor variables, use the Autos window to monitor variables, Watch windows to monitor expressions, Call Stack window to monitor called procedures, Output window to get build or debugging information. MarkupOOnly User Control, Custom properties, handling events and loading user controls dynamically.	April, 2021

Class- BCA 6th Sem

Course Title: - Computer Networks

Course Code: - BCA0601

Units	Topics	Time	Activities
		/Duration	
UNIT-I	Introduction to Communication Network: Computer Networks, (Need, uses, and Advantages of Computer		1. Assignments
	Network), Network Models (Peer0to0Peer0Network, Server0based Network, Client0Server Network),		2. Class tests
	Network components, Network Topology (Star, Ring, Bus, Mesh, Tree, Hybrid, Advantage and Disadvantage	Dec, 2020	3. Presentation
	of each types.), Types of Networks (LAN, MAN, WAN), Internet (Brief History, Internet Today, Protocol	•	4. Code - Practical
	and Standard		

UNIT –II	Error Detection and Correction: Types of errors (Single–bit0error, Burst0Error), Error Detection (Redundancy, Parity check, CRC, Checksum), Error correction (FEC, Hamming code, Burst error corrections) Data Communication Channel and Media, Conductive Media (Twisted-pair cable, Coaxial cable), Fiber optics (Characteristic of light, Types of Fiber optics), Wireless Transmission, (Microwaves, Infrared, Radio waves)	Feb, 2021	"
UNIT-III	OSI0Reference Model: OSI Model, OSI Physical Layer Concepts, DLL, Network Layer, TL, SL, PL and AL Concepts. Internet model / TCP/IP Model and Protocols, Modem, DSL, Cable Modem, ISDN, Real world network (Ethernet, Ethernet operation, frame format, Ethernet characteristic, cabling and components) Token Ring and Token Bus networking Technology. Network Connectivity, Repeater, Hub-(Active, Passive and Intelligent), Bridge0(Local, Remote and wireless), Routers (Static and Dynamic), switches and types of switches, Brouter and Gateways.	March, 2021	cc
UNIT-IV	TCP/IP Protocol: Ptortocol Suite, Internet Architecture Board, TCP/IP Protocol (TCP,UDP,IP,ARD), concept of Physical Addressing, and logical Addressing, Different Classes of IP addressing, Special IP Addressing, Classful Addressing, Sub netting, Super netting, Classless addressing, TCP/IP Service Protocol (FTP,SMTP, TELNET, DNS).	April, 2021	٠.

COURSE NAME – NUMERICAL METHODS

Credits: 4

COURSE CODE: BCA0602

Unit	Topic	Months	activity
	 Representation of numbers: Decimal to Binary conversion, 		assignment
NUMERICAL ANALYSIS	Floating point representation of numbers, Integer and real/floating point arithmetic, 2. Errors: different types of errors, error in the approximation of a function, error in series approximation.	Dec, 2020	Class test
Linear equations	 Solution of algebraic and transcendental equation using Bisection method, Regula-Falsi method, Newton-Raphson method. 		assignment Class test

	 Solution of simultaneous linear equations using Gauss Elimination method, Gauss-Jordon method, Jacobi's iterative method, Gauss Seidel iterative method 	Feb, 2021	
Interpolation	1.Interpolation, Finite difference and operators2. Newton Forward, Newton Backward, Games forward, Games backward.	March, 2021	assignment Class test
Numerical differentiation and integration	 Numerical differentiation: Differentiating a Graphical function, Differentiating a Tabulated function- Equal and Un-equal intervals. Numerical integration: Newton-Cotes formula, Trapezoidal rule, Simpson's 01/3rd and 3/8th rule, Weddle's rule. 	April, 2021	assignment Class test

Course Title: - Multimedia Technology

Course Code: - BCA0603

Units	Topics	Time	Activities
		/Duration	
UNIT-I	Introduction to Multimedia: Needs and areas of use, Development platforms for multimedia, Identifying Multimedia elements Text, Images, Sound, Animation and Video, Making simple Multimedia with PowerPoint. Concepts of plain & formatted text, RTF & HTML texts, Object Linking and Embedding concept.	Dec, 2020	 Assignments Class tests Presentation Code - Practical
	Sound: Sound and it Attributes, Mono V/S Stereo Sound, Sound Channels, Sound and Its Effect In Multimedia, Analog V/S Digital Sound, Overview Of Various Sound File Formats On PC WAV, MP3.		

UNIT –II		Feb, 2021	
UNIT-III	Graphics: Importance of Graphics in Multimedia, Vector and Raster Graphics, Image Capturing Methods Scanner, Digital Camera Etc. Various Attributes of Images Size, Color, Depth, Resolution etc, Various Image File Format BMP, DIB, EPS, PIC, and TIF Format Their Features and imitations, Basics of animation, Software Tools for animation.	March, 2021	cc
UNIT-IV	Video: Basics of Video Analog and Digital Video, How to use video on PC. Introduction to graphics accelerator cards, Brief note on various video standards NTSC, HDTV, Introduction to video capturing Media & instrument Videodisk. Virtual Reality Terminology Head Mounts Display (HMD), Boom, Cave, Input Devices and Sensual Technology	April, 2021	"

Course Title: - Computer Graphics

Course Code: - BCA0604

Units	Topics	Time /Duration	Activities
UNIT-I	Introduction: Definition Of Computer Graphics And Its Applications, Video Display Devices, Raster Scan Displays, Random Scan Displays, Color CRT Monitors, Direct View Storage Tubes, Flat Panel Displays. Input Devices: Keyboard, Mouse, Trackball and Spaceball, Joysticks, Digitizers, Image Scanners, Touch Panels, Light Pens, Voice Systems	Dec, 2020	 Assignments Class tests Presentation Code - Practical
UNIT –II	Output Primitives: Line Drawing Algorithms (DDA, Bresenhaum's), Circle Generating Algorithm (Midpoint Circle Drawing Algorithm), Ellipse Generating Algorithm, Midpoint Ellipse Generating Algorithm, Character Generation.	Feb, 2021	"
	2D Transformations: Translation, Rotation, Scaling, Reflection, Shear, Composite	March,	
UNIT-III	Transformation0Translation, Rotations, Scaling. Two Dimensional Viewing: Window-To-Viewport Coordinate Transformation	2021	"
UNIT-IV	Clipping: Introduction, Clipping Operations, Point Clipping, Line Clipping(Cohen-Sutherland Line Clipping, Liang-Barsky Line Clipping, Nicholl-Lee-Nicholl Line Clipping), Polygon Clipping(SutherlandHodgeman Polygon Clipping, Weiler-Atherton Polygon Clipping), Curve Clipping, Text Clipping.	April, 2021	"

Course Title: - Computer Graphics lab-XI

Course Code: - BCA0604 (P)

Total Credits:- 3

Units	Topics	Time /Duration
UNIT-I	Output Primitives: Line Drawing Algorithms (DDA, Bresenhaum's), Circle Generating Algorithm(Midpoint Circle Drawing Algorithm),	
		Dec, 2020
	Ellipse Generating Algorithm, Midpoint Ellipse Generating Algorithm, Character Generation.	
UNIT –II		Feb, 2021
UNIT-III	2D Transformations: Translation, Rotation, Scaling, Reflection, Shear, Composite Transformation0Translation, Rotations, Scaling. Two Dimensional Viewing: Window-To-Viewport Coordinate Transformation	March, 2021
UNIT-IV	Clipping: Clipping Operations, Point Clipping, Line Clipping(Cohen-Sutherland Line Clipping, Liang-Barsky Line Clipping, Nicholl-Lee-Nicholl Line Clipping), Polygon Clipping(SutherlandHodgeman Polygon Clipping, Weiler-Atherton Polygon Clipping), Curve Clipping, Text Clipping.	April, 2021

Course Title: Software Engineering

Course Code: - BCA0605

Units	Topics	Time	Activities
		/Duration	

UNIT-I	Software engineering: Evolving Role of Software, Software Engineering, Changing nature of Software, Software Myths, Terminologies, Role of management in software development Software Process and desired Characteristics. Software Life Cycle Models: Build & Fix Model, Water Fall Model, Incremental Process Model, Evolutionary Process Models, Unified Process, Comparison of Models, Other Software Processes, Selection of a Model.	Dec, 2020	 Assignments Class tests Presentation Code - Practical
UNIT –II	Software Requirements Analysis & Specifications: Requirements Engineering, Types of Requirements, Feasibility Studies, Requirements Elicitation, Requirements Analysis Documentation, Validation and Management. Software Architecture: Its Role, Views, Component & Connector View and its architecture style, Architecture Vs Design, Deployment View & Performance Analysis, Documentation, Evaluation	Feb, 2021	
UNIT-III	Function Oriented Design: Design principles, Module level Concepts, Notation & Specification, Structured Design Methodology, Verification Object0Oriented Design: OO Analysis & Design, OO Concepts, Design Concepts, UML – Class Diagram, Sequence & Collaboration Diagram, Other diagrams & Capabilities, Design Methodology, Dynamic and Functional Modeling, Internal Classes & Operations.	March, 2021	u
UNIT-IV	Detailed Design: PDL, Logic/Algorithm Design, State Modeling of Classes, Verification: Design Walkthroughs, Critical Design Review, Consistency Checkers. Coding: Programming Principles & Guidelines, Coding Process, Refactoring, Verification.	April, 2021	"

Lesson plan for the session 2020-21 Department of computer Science and Technology Class- Add-on Diploma B.A/B.Com/B.Sc

Course Title: -Internet Technology and Web Page DesigningCourse Code: -UG-201

Units	Topics	Time /Duration	Activities	Remarks
UNIT-I	Internet: Evolution of Internet, Internet Application, Network requirements, Bandwidth	July	1. Assignments 2. Class tests 3. Presentation	
UNIT-I	Internet features (Electronic Mail, Newsgroups, FTP Archive, Real Time Activity, Video, Audio, and Search Engine).	August	cc	
UNIT –II	World Wide Web: Definition, WWW Browsers, WWW Servers, Dial-Up SLIP, PPP Access, Dedicated line, ISDN.TCP/IP Connectivity- DNS Servers,	September	66	
UNIT –II	Domain Names Registration process, IP addressing, Routing with TCP/IP Basics	October		
UNIT-III	HTML: Text formatting, Data, Tables, Table layout, Images, HTML Interactivity, URLs, HTTP, NNTP, Hyperlinks, Menus & Image Maps, HTML Form, Embedded objects in HTML, Web Typography, Approaching		"	
UNIT-III	Web Typography, Graphics and Type, Families and Faces, Type forms, Color and Type, Adding Graphics, Adding Graphics with the Image Element, Using images as links, Creating Image Maps, Working with Image Files, Layout Technology, Standard HTML Formatting, Tables, Frames,		66	
UNIT-IV	CSS: Formatting your site with Cascading Style Sheets, Seeing Style Sheets in Action, Understanding CSSI's Advantages and Limitations, Making HTML and CSSI's,		"	
UNIT-IV	Making HTML and CSSI work together, Learning How CSSI Works, Using CSSI Properties. XML, XML Language, SMGL, Linking in XML.		"	

Lesson plan for the session 2020-2021 Department of computer Science and Technology Class- Add-on Advance Diploma B.A/B.Com/B.Sc

Course Title:- Internet Technology and Web Page Designing Course Code:- UG-301

Units	Topics	Time	Activities	Remarks
		/Duration		
UNIT-I	Introduction To Database Concepts: Data Modeling for a Database, Fields, Records and Files, Abstraction and		4. Assignments	
	Data Integration, Database Architecture, Users, Structure of DBMS, Advantages and Disadvantages of DBMS.	July	5. Class tests	
			6. Presentation	
UNIT-I	Data Models: Entity, Attribute, Relationship, Data Model Classifications, File based, Traditional, Semantic, Entity0Relationship Model.	August	"	
UNIT –II	File Organization: Operation on files, Sequential Files, Index Sequential Files, Types of Indexes, Implicit, limit, multilevel, Direct Files, and Indexing using B-Tree Structure.	September	"	
UNIT -II	Relational Model: Relational Database, Relational Algebra, Relational Calculus.			
	Transfer of the second	October	"	
UNIT-III	Relational Database Design: Relational Scheme and Relational Design, Functional Dependency,	November		
			"	
UNIT-III	Boyce Code), Decomposition and dependency preservation, Multi0valued dependency.	December		
			"	
UNIT-IV	Ms Access: Tables (Creation/Design structure, Data Entry), Primary keys, Foreign Keys Master-Detail Table, Query (Select, Make-Table,	February	"	
UNIT-IV	Update, Append, Delete) Form (Modal, Modeless), Relationships Report (Creation of a simple report from a table and from a query).	March	"	