SACRED HEART COLLEGE (AUTONOMOUS)

Department of Physics

BSc Physics

Course plan

Academic Year 2014 - 15

Semester 1

COURSE STRUCTURE

COURSE CODE	TITLE OF THE COURSE	NO. HRS./WEE K	CREDI TS	TOTAL HRS./SEM
U1CCENG1	COMMUNICATION SKILLS IN ENGLISH	5	4	90
U1CCENG2	Reading Literature in English	4	3	72
U1CCHIN1A	PROSE AND DRAMA	4	4	72
U1CCMAL1A	കവിത	4	3	72
U1CCFRN1A	FRENCH LANGUAGE AND COMMUNICATION SKILLS I	4	3	72
U1CCSAN1A	Drama Poetry and Alankara	4	3	72
U1CRPHY01	Methodology in Physics	2	2	36
U1CPCHE1	GENERAL CHEMISTRY	2	2	36
U1CPMAT01	DIFFERENTIAL CALCULUS AND TRIGONOMETRY	2	2	36

COURSE PLAN (COURSE 1)

PROGRAMME	BSC PHYSICS	SEMESTER	1
FRUGRAIVIIVIE		JEIVIESTER	
COURSE CODE AND TITLE	U1CCENG1: COMMUNICATION SKILLS IN ENGLISH	CREDIT	3+1
HOURS/WEEK	5	HOURS/SEM	90

COURSE OBJECTIVES
Understand the mechanics of English language and comprehend the meaning of simple narrations, announcements and instructions.
Make inferences about the implications of statements from stress and tone recognize the various registers of speech.
Listen to formal presentations and prepare lecture notes in the appropriate format.
Use English for a variety of speaking contexts including conversations, presentations, speeches, discussions and negotiations.
Critically evaluate presentations, narrations, speeches and analyse and evaluate their content and respond to them appropriately.
Creatively respond to one's surroundings in the form of drama, poetry, narrations, and songs, and perform them before an audience.

SESSI ON	ΤΟΡΙϹ	Learning Resources	Activity	REMARKS
	MODULE I			
	MODULE – I : Speech	Sounds		
1	Introduction to Communication Skills	Course book	Lecture	
2	Phonemic symbols	Audio	Q & A	
3	Vowels	Audio	Q & A	
4	Consonants	Audio	Q & A	
5	Vowels	Audio	Q & A	

6	Consonants	Audio	Q & A
7	Syllables	Course book	Exercises
8	Syllables	Audio	Q & A
9	Syllables	Audio	Q & A
10	Word stress	Audio	Q & A
11	Word stress	Course book	Exercises
12	Word stress	Course book	Exercises
13	Word stress	Audio	Q & A
14	Stress in polysyllabic words	Audio	Q & A
15	Stress in polysyllabic words	Course book	Exercises
16	Stress in polysyllabic words	Course book	Exercises
17	Stress in words used as different parts of speech	Audio	Q & A
18	Stress in words used as different parts of speech	Audio	Q & A
19	Stress in words used as different parts of speech	Lecture	
	MODULE II : Liste	ning	
20	Sentence stress	Course Book	Lecture
21	Sentence stress	Audio	Q& A
22	Sentence stress	Audio	Q& A
23	Sentence stress	Lecture	Exercises
24	Weak forms and strong forms	Audio	Q & A
25	Weak forms and strong forms	Audio & Lecture	Exercises
26	Weak forms and strong forms	Lecture	Exercises

27	Intonation	Lecture	Exercises		
28	Intonation	Audio	Q & A		
	Internal Assessment Test 1				
30	Awareness of different accents	Video	Q & A		
31	Awareness of different accents	Audio/Video	Q & A		
32	Awareness of different accents	Audio/Video	Q & A		
	MODULE- III: Spea	aking			
33	American English	Course Book	Lecture		
34	American English	Audio	Discussion		
35	American English	Audio	Discussion		
36	American English	Audio	Exercises		
37	British and Indian English	Course Book	Discussion		
38	British and Indian English	Audio	Discussion		
39	British and Indian English	Audio	Discussion		
40	British and Indian English	Audio	Discussion		
	Unit II: Academic Listening	& Note-taking			
41	Influence of the mother tongue	Course Book	Lecture		
42	Influence of the mother tongue	Course book	Exercises		
43	Influence of the mother tongue	Audio	Exercises		
44	Influence of the mother tongue	Audio	Exercises		
45	Active listening	Audio	Exercises		
46	Active listening	Audio	Exercises		

47	Barriers to listening	Audio	Exercises			
48	Barriers to listening	Audio	Exercises			
	MODULE III					
	Unit 1 – Art of Small Talk					
49	Seminar Presentation	Course book	Lecture			
50	Listening and note taking	Course book	Exercises			
51	Listening and note taking	Audio	Q & A			
52	Listening and note taking	Course book	Q & A			
53	Listening and note taking	Course book	Exercises			
54	Listening to announcements	Audio	Exercises			
55	Listening to announcements	Course book	Exercises			
56	Listening to announcements	Course book	Exercises			
57	Listening to announcements	Course book	Exercises			
	Unit II: Transactional Co	nversation				
59	Listening to news on the radio and television	Course book	Exercises			
60	Listening to news on the radio and television	Course book	Exercises			
61	Listening to news on the radio and television	Course book	Exercises			
62	Word stress and rhythm	Course book	Exercises			

	Word stross and rhuthm	Course	Evereices
	Word stress and rhythm	Course	Exercises
63		book	
	Pauses and sense groups	Course	Exercises
64	rauses and sense groups		LXEICISES
64		book	
	Pauses and sense groups	Course	Exercises
65		book	
00		book	
	Pauses and sense groups	Course	Exercises
66		book	
	Falling and rising tones	Course	Exercises
67		book	
	Falling and rising tones	Course	Exercises
68		book	
	Falling and rising tones	Course	Exercises
69		book	Excluses
09		DOOK	
	Unit III: Telephone Con	versation	ΙΙ
	Fluency and pace of delivery	Course	Lecture
70		book	
	Internal Examination	Course	Exercises
71		book	
	Art of small talk	Course	Exercises
72		book	EXCICISES
12		DOOK	
	Internal Assessme	ent 2	· · · · · ·
	MODULE IV		
	Unit 1: Drocontal	ion	
	Unit 1: Presentat		
	Participating in conversations	Course	Lecture
73		book	
74	Participating in conversations	Discussion	Exercises
	Participating in conversations	Course	Lecture
75		book	
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No.	Date	Topic of Assignment & Nature of assignment (Individual/ Group – Written/ Presentation – Graded or Non-graded etc)
1	Mid of semester	Write a note on your bus trip the college & present it before the class.
2	Mid of semester	Write a descriptive note on the sights and sounds of the college canteen + presentation before the class
3	Mid of semester	Write an interesting conversation you listened to recently and present it before the class with your partner.
4	Mid of semester	Identify a passage from any textbook or magazine, underline a pair of consonant sounds and read the same in the class giving special emphasis to the pair of sounds chosen
5	Mid of semester	Write a description of the Lakeview ground
6	Mid of semester	Describe the college auditorium
7	Mid of semester	Describe the sights and sounds in the portico of the college on any given day
8	Mid of semester	Describe the aquarium in the portico
9	Mid of semester	Narrate your experiences of any day on the campus

ASSIGNMENTS

REFERENCES

V.Sasikumar, P Kiranmai Dutt and Geetha Rajeevan, Communication Skills in English. Cambridge University Press and Mahatma Gandhi University.

FURTHER READING

Sl.No 1	Title A Course in Listening and Speaking I & II	Author Sasikumar V.,Kiranmai Dutt and Geetha Rajeevan	Publisher & Year New Delhi: CUP, 2007
2	Study Listening: A Course in Listening to Lectures and Note- taking	Tony Lynch	New Delhi: CUP, 2008
3	Study Speaking: A Course in Spoken English for Academic Purposes	Anderson, Kenneth, Joan Maclean and Tony Lynch	New Delhi: CUP, 2008
4	Study Reading: A Course in Reading Skills for Academic Purposes	Glendinning, Eric H. and Beverly Holmstrom	New Delhi: CUP, 2008
5 6	Communication Studies Effective Communication for Arts and Humanities Students	Sky Massan Joan Van Emden and Lucinda Becker	Palgrave Macmillan Palgrave Macmillan

COURSE 2

PROGRAMME	BSc Physics	SEMESTER	1
COURSE CODE AND TITLE	U1CCENG2: Reading Literature in English	CREDIT	3
HOURS/WEEK	4	HOURS/SEM	72

COURSE OBJECTIVES
Explain the nuances of English Language through literature.
Compare the Varied parameters of English language.
Discover comprehensive ability.
Connect the efficiency of the students with realities of life.
Evaluate the beauty of literary expression.

SESSION	ΤΟΡΙϹ	Learning Resources	VALUE ADDITIONS	REMARKS
	MOD	OULE I		
	ESS	AYS		
1	Introducing the text book	Text	РРТ	
2	Bores: E V Lucas	Text		
3	Bores: E V Lucas	Text		
4	Bores: E V Lucas	Text		
5	A Glory has Departed- Jawaharlal Nehru	Text	Group Discussion	
6	A Glory has Departed- Jawaharlal Nehru	Text		

7	A Glory has Departed- Jawaharlal Nehru	Text		
8	A Glory has Departed- Jawaharlal Nehru	Text		
9	Tryst with Destiny- Amartya Sen	Text		
10	Tryst with Destiny- Amartya Sen	Text		
11	Tryst with Destiny- Amartya Sen	Text		
12	Tryst with Destiny- Amartya Sen	Text		
13	How to Escape from Intellectual Rubbish-Bertrand Russel	Text	Group Discussion	
14	How to Escape from Intellectual Rubbish-Bertrand Russel	Text		
15	How to Escape from Intellectual Rubbish-Bertrand Russel	Text		
16	How to Escape from Intellectual Rubbish-Bertrand Russel	Text		
17	Discussion			
18	Discussion		Quiz	
	MODUL	E II- Poetry		
19	Sonnet XXX-William Shakespeare	Text	Lecture/PPT	
20	Sonnet XXX-William Shakespeare	Text		
21	Sonnet XXX-William Shakespeare	Text	Poetry Recitation	
22	Ode to a Nightingale-John Keats	Text	Poetry Recitation	
23	Ode to a Nightingale-John Keats	Text		
24	Mending Wall- Robert Frost		Interaction	
First Inte	rnal Examination	1		
25	Mending Wall- Robert Frost	Text	Poetry Recitation	

26	Mending Wall- Robert Frost	Text	Role Play
27	The Bicycle- David Malouf	Text	Role play
28	The Bicycle- David Malouf	Text	
29	The Bicycle- David Malouf	Text	
30	The Refuge	Text	
	Unit 3: The Bo	y Comes Hon	ne
30	Poor Girl- Maya Angelou	Text	Lecture/PPT
31	Poor Girl- Maya Angelou	Text	
32	The Mask- Kamala Suraiya	Text	
33	The Mask- Kamala Suraiya	Text	
34	Goodbye party for Miss Pushpa T S- Nissim Ezekiel	Text	Poetry Recitation
35	Goodbye party for Miss Pushpa T S- Nissim Ezekiel	Text	
36	Once Upon a Time-Gabriel Okara	text	Quiz
	MODULE III	Short Story	-
37	The Lottery Ticket- Anton Pavlovich Chekhov	Text	
38	The Lottery Ticket- Anton Pavlovich Chekhov	Text	
39	The Lottery Ticket- Anton Pavlovich Chekhov	Text	
40	The Lottery Ticket- Anton Pavlovich Chekhov	Text	Quiz
41	The Lottery Ticket- Anton Pavlovich Chekhov	Text	Video/ e-content
42	Retrieved Reformation- O. Henry	Text	
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43	Retrieved Reformation- O. Henry	Text		
44	Retrieved Reformation- O. Henry	Text		
	·			
45	Retrieved Reformation- O. Henry	Text	РРТ	
46	Retrieved Reformation- O. Henry	Text		
47	A Shadow- R K Narayan	Text		
48	A Shadow- R K Narayan	Text		
49	A Shadow- R K Narayan	Text		
50	A Shadow- R K Narayan	Text	РРТ	
51	A Devoted Son- Anita Deasi	Text		
52	A Devoted Son- Anita Deasi	Text		
53	A Devoted Son- Anita Deasi	Text		
54	A Devoted Son- Anita Deasi	Text	Discussion/Quiz	
55	Two Gentlemen of Verona- A J Cronin	Text		
56	Two Gentlemen of Verona- A J Cronin	Text		
57	Two Gentlemen of Verona- A J Cronin	Text		
58	Two Gentlemen of Verona- A J Cronin	Text	Quiz	
59	Two Gentlemen of Verona- A J Cronin	Text	Role Play	
60	Two Gentlemen of Verona- A J Cronin	Text		
	Unit 4	: DRAMA	1	
61	Refund- Fritz Karinthy	Text		

62	Refund- Fritz Karinthy	Text	
63	Refund- Fritz Karinthy	Text	
64	Refund- Fritz Karinthy	Text	Enacting the Drama
65	Lord Byron's Love Letter-Tennesse Williams	Text	
66	Lord Byron's Love Letter-Tennesse Williams	Text	Quiz
	Second Interna	al Examinatio	bn
67	Lord Byron's Love Letter-Tennesse Williams	Text	
68	Lord Byron's Love Letter-Tennesse Williams	Text	Enacting the Drama
	The Monkey's Paw- W.W Jacob	Text	
69		Recital/ lect	ture
70	The Monkey's Paw- W.W Jacob	Text	
71	The Monkey's Paw- W.W Jacob	Text	
72	The Monkey's Paw- W.W Jacob	Text	Enacting the Drama

ASSIGNMENT

	submission/c	Topic of Assignment& Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc)	
1	By October	Review of a book, article	

REFERENCE

• Dr. Leesa Sadasivan Ed. Reading Literature in English. Foundation Books and Mahatma Gandhi University.

COURSE PLAN

PROGRAMME	BSC PHYSICS	SEMESTER	1
COURSE CODE AND TITLE	U1CCHIN1A – PROSE AND DRAMA	CREDIT	4
HOURS/WEEK	4	HOURS/SEM	72

COURSE OBJECTIVES

Understand and explain the different prose forms written in Hindi language.

Understand various trends in Hindi Drama and its presentation.

Understand the ancient Indian culture

Understand the socio - cultural change in literature

Understand the development of literature and aesthetics

SESSION	ΤΟΡΙϹ	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
	MODULE I	-		
1	General information about literature	Lecture/Discussion		
2	Development of Drama	Lecture/Discussion		
3	Madhavi – Introduction of Author Bhishma Sahni	Lecture/PPT		
4	Madhavi Act – 1, Scene -1	Lecture	Video	
5	Essay - Jeevan Mein Sahitya Ka Sthan Introduction of Author Premchand	Lecture/Discussion		
6	Premchand and his literary works	Lecture/PPT		
7	Madhavi Act – 1, Scene -1	Lecture	Narration of stories related to 'Mahabharat'	
8	Revision	Interaction	Video	
9	Madhavi Act – 1, Scene -1	Lecture		
10	Madhavi Act – 1, Scene -2	Lecture/Discussion		
11	Essay - Jeevan Mein Sahitya Ka Sthan	Lecture		
12	Revision	Interaction	Presentation by students	
13	Madhavi Act – 1, Scene -2	Lecture		

14	Madhavi Act – 1, Scene -2	Lecture	
15	Madhavi Act – 1, Scene -3	Lecture	Presentation
			by students
16	Essay - Jeevan Mein Sahitya	Interaction	Acting
	Ka Sthan		
17	Analyzing the characters of	Interaction	Conversation
	'Madhavi'		
18	Essay - Jeevan Mein Sahitya	Lecture	Seminar
	Ka Sthan		
19	Madhavi Act – 1, Scene -3	Lecture/Discussion	Video
20	Essay - Jeevan Mein Sahitya	Lecture	
	Ka Sthan		
21	Essay - Jeevan Mein Sahitya	Interaction	
	Ka Sthan		
22	Essay - Jeevan Mein Sahitya	Lecture/Discussion	
	Ka Sthan		
23	Essay - Sahitya Ki Mahatta	Lecture/PPT	
	Introduction of Author		
	Mahaveer Prasad Dwivedi		
24		IA – I (1Hour Exam)	
	MODULE II	1	1
25	Essay - Sahitya Ki Mahatta	Lecture	Seminar
26	Essay - Sahitya Ki Mahatta	Lecture	
27	Essay - Sahitya Ki Mahatta	Lecture	
28	Essay - Sahitya Ki Mahatta	Lecture/Discussion	
29	Revision	Interaction	Seminar
30	Madhavi Act – 2, Scene -1	Lecture	
31	Madhavi Act – 2, Scene -1	Lecture	Presentation
			by students
32	Madhavi Act – 2, Scene -1	Lecture/Discussion	
33	Madhavi Act – 2, Scene -2	Lecture	
34	Madhavi Act – 2, Scene -2	Lecture	
35	Madhavi Act – 2, Scene -2	Lecture	Presentation
			by students
36	Revision	Interaction	Video
37	Madhavi Act – 2, Scene -3	Lecture	
38	Madhavi Act – 2, Scene -3	Lecture/Discussion	
39	Essay - Lalit Kalayen	Lecture/PPT	
	Introduction of the Author		
	Dr. Syamsundar Das		
40	Essay - Lalit Kalayen	Lecture	Seminar
41	Essay - Lalit Kalayen	Lecture	
42	Essay - Lalit Kalayen	Lecture/Discussion	

Essav - Lalit Kalaven	Lecture/Discussion	
		Video
		Video
		Debate
	Lecture/PPT	
Essay - Rashtra Ka Swaroop	Lecture	
Essay - Rashtra Ka Swaroop	Lecture	
Essay - Rashtra Ka Swaroop	Discussion	Presentation
		by students
Madhavi Act – 2, Scene -4	Lecture	
Madhavi Act – 2, Scene -4	Lecture	
Madhavi Act – 3, Scene -1	Lecture	
Madhavi Act – 3, Scene -1	Lecture/Discussion	
Revision	Discussion	Video
Essay - Tum Ghar Kab Aoge	Lecture/PPT	
Kavi		
Introduction of the Author		
Ramdhari Sinh Dinakar		
	Lecture	
	Lecture	Seminar
	Lecture	
	Lecture/Discussion	
	Discussion	Presentation
	Discussion	by students
		by students
Madhavi Act – 3 Scene -2	lecture	
		Video
		Video
		Presentation
		by students
Madhavi Act – 3, Scene -3	1	,
Madhavi Conclusion	Interaction	Criticising
		the drama
Seminar		
Seminar		
	MODULE IIIEssay - Rashtra Ka SwaroopIntroduction of the AuthorVasudev Saran AgravalEssay - Rashtra Ka SwaroopEssay - Rashtra Ka SwaroopEssay - Rashtra Ka SwaroopEssay - Rashtra Ka SwaroopMadhavi Act – 2, Scene -4Madhavi Act – 2, Scene -4Madhavi Act – 3, Scene -1RevisionEssay - Tum Ghar Kab AogeKaviIntroduction of the AuthorRamdhari Sinh DinakarEssay - Tum Ghar Kab AogeKaviEssay - Tum Ghar Kab AogeKaviMadhavi Act – 3, Scene -2Madhavi Act – 3, Scene -2Madhavi Act – 3, Scene -3Madhavi Act – 3, Scene -3	Madhavi Act - 2, Scene -3LectureMadhavi Act - 2, Scene -3LectureInteractive sessionDiscussionCIA - II (2 Hours Exam)MODULE IIIEssay - Rashtra Ka SwaroopLecture/PPTIntroduction of the AuthorVasudev Saran AgravalEssay - Rashtra Ka SwaroopLectureEssay - Rashtra Ka SwaroopLectureEssay - Rashtra Ka SwaroopLectureEssay - Rashtra Ka SwaroopDiscussionMadhavi Act - 2, Scene -4LectureMadhavi Act - 2, Scene -4LectureMadhavi Act - 3, Scene -1Lecture/DiscussionRevisionDiscussionEssay - Tum Ghar Kab AogeLectureKaviLectureKaviLectureEssay - Tum Ghar Kab AogeLectureKaviEssay - Tum Ghar Kab AogeLectureMadhavi Act - 3, Scene -2LectureMadhavi Act - 3, Scene -2LectureMadhavi Act - 3, Scene -3LectureMadhavi Act - 3, Scene -2LectureMadhavi Act - 3, Scene -3LectureMadhavi Act - 3, Scene -3Lecture

INDIVIDUAL ASSIGNMENTS/SEMINAR – Details & Guidelines (B.Sc. Physics)

SI.No	Date of Completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc)	
1	Assignment	Review of a lesson based on the text book 2 and reference-	
	(October)	Writing (Individual)	
2	Seminar	Presentation on a given topic based on t the text book 1	
	(October)	and reference – oral (Individual)	

GROUP ASSIGNMENTS/ACTIVITES – Details & Guidelines

SI.No	Date of Completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc)	
1	September Literary Analysis of drama and its video (Gro Discussion)		
2	September Presentation of any scene from drama Madhavi.(Group Activity)		

References

- Hindi Natak Ka Ithihas : Somanath Gupth Hindi Bhavan, Allahabad
- Yug- Chaya , Editor: Shivdan Singh Chouhan, Rajkamal Prakashan, New Delhi.

Web resource references:

• epustakalay.com

www.hindikunj.com

COURSE PLAN

PROGRAMME	BSc PHYSICS	SEMESTER	1
	U1CCFRN1A - FRENCH LANGUAGE AND COMMUNICATION SKILLS I	CREDIT	4
HOURS/WEEK	4	HOURS/SEM	72

COURSE OBJECTIVES

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

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

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

Develop business communication skills

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

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

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

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

Session	Торіс	Method of Teaching	Value Additions	Remarks
		MODULE I		
1	Introducing French Basics	role play,	french basic communication	
		Discussion		
2	French basics -alphabets	chalk n talk, audio	Lecture	
3	french basics	audio ppt, discussion	Lecture	
4	french basics	chalk n talk	Lecture	
5	numbers 1-20	role play,audio ppt	Lecture	
6	verbs introduction	chalk n talk	Lecture	
7	conjugation introduction	chalk n talk,ppt audio	audio	
8	Greetings	role play,audio ppt	Know a new culture	
9	Basic useful sentences in French	role play, audio ppt	Q and A	
10	spell in French	role play,audio ppt	presentation	
11	Indefinite articles	chalk n talk,audio ppt	Lecture	
12	prononciation of vowels	role play,audio ppt	Lecture	
13	French culture	Discussion, audio,ICT	Lecture,q nd A	
14	Revision			
		MODULE II		
15	introducing a third person	game,audio ppt	Q nd A	
16	Asking personal information in french	role play,audio ppt	Lecture	
17	Giving personal information in french	role play,audio ppt	Interaction	
18	verbs etre <i>,</i> avoir	chalk n talk	Lecture	
19	ER verbs	chalk n talk, audio ppt	Lecture	
20	adjectives of nationalities	role play, conversation	Lecture	
21	grammar articles	role play, listening	Ppt	
22	CIA 1			
23	Profession	cross words,chalk n talk	Lecture	
24	interests and tastes	role play,audio	Lecture	
25	Masculine, feminine of adjectives	exercices ,chalk n talk,audio	Lecture	
26	French culture- french names and profession	roleplay,audio	knowing culture	

27	explaing the objective of learning French	f Discussion, ICT,audio A Lecture,q and A		
28	Revision			
		MODULE III		
29	describe a locality	oral, description	Q and A	
30	Express in quatity	role play,chalk n talk	Lecture	
31	"vivre" verb conjugation	audio,chalk n talk	Lecture	
32	places vocabulary	games,music,audio	Video	
33	ll y a,	audio,	daily needed vocabs	
	il n'y a pas	chalk n talk		
34	definite articles	chalk n talk,audio ppt	Lecture	
35	Adjectives	role play,audio ppt	Lecture	
36	Prepositions	role play ,audio ppt	Lecture	
37	Negation	chalk ntalk/roleplay	Lecture	
38	Qualificative adjectives	chalk n talk ,audio ppt	Q and A	
39	Describing ur ideal locality	role play/presentation	Lecture	
40	intonations	audio ppt	Lecture	
41	French culture-express preference for city or village	Discussion	knowing culture	
42	revision			
43	CIA 2			
44	Correspondig with a friend expressing one's likings	chalk n talk/Role plays	Q and A	
45	speak about a persons character	role play <i>,</i> GD	know each other	
46	adjectif possessif part 1	chalk n talk,audio ppt	Lecture	
47	adjectif possessif part 2	chalk n talk, audio ppt	Lecture	
48	speak about the surroundings	discussion	Lecture	
49	introduce and describe someone	role play	Lecture	
50	activities - vocabulary	lecture,audio	Lecture	
51	sports vocabulary	speaking/role play	general knowledge	
52	Vocabulary - relations	abulary - relations chalk n talk,audio ppt Lecture		
53	famous french personality	discussion/comprehension	Lecture	
54	lexique des liens de parente	chalk n talk,audio ppt	Lecture	
	Express ones likings	Audio ppt, discussion	Q and A	
55	lexiques des loisirs	Audio ppt, discussion	Video	

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56	forme negation	Audio ppt, discussion	Q and A	
57	pronounciation of verbs	Audio ppt, discussion	Q and A	
58	form filling	Audio ppt, discussion	Q and A	
59	french artists	Audio ppt, discussion	GK	
60	french music	Audio ppt, discussion	Video	
61	one's own musical preferences	Audio ppt, discussion	Q and A	
62	french music and comparison to one's own musical preference	discussion	knowing the culture	
63	module 1 -revision			
64	module 1 -revision			
65	module 2- revision			
66	module 2-revision			
67	module 3-revision			
68	module 3-revision			
69	module 4-revision			
70	module 4-revision			
71	PYQs discussion			
72	PYQs discussion			

INDIVIDUAL ASSIGNMENTS/SEMINAR – Details & Guidelines

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc)
1	By October	Basic vocabulary on communication skills in Malayalam and French
2		roleplays

References

Version Originale, site web

COURSE PLAN

PROGRAMME	BACHELOR OF SCIENCE IN PHYSICS	SEMESTER	1
COURSE CODE AND TITLE	U1CCSAN1A: DRAMA,POETRYAND ALANKARA	CREDIT	4
HOURS/WEEK	4	HOURS/SEM	72

COURSE OBJECTIVES
Students can understand the poetic style with special reference to classical literature
Students get an awareness about Indian classical poetic tradition
Students familiarize the figures of speech and their usage
Students get an awareness about ascthetic values
Express an issue of concern including topics like environmental, social or health issues,
enumerate its causes and consequences and suggest solutions
Understand moral values through Drama
Understand the tools to beutify the literature through Alankara

Students identify the richness of Indian Literature

SESSION	ΤΟΡΙϹ	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
	MO	DULE I		
1	Introducing Sanskrit Basics	Lecture		
2	About Mahakavya	Lecture		
3	About Kumarasambava	Lecture		
4	Fifth sarga of Kumarasambava	Lecture	e-resource	
5	Brahmacharipravesha	Lecture		
6	Parvathi's penance	PPT/Lecture		
7	Inviting Brahmachari	Lecture		
8	Purushartha	Lecture		
9	Himalaya	Lecture		
10	Conversation to Parvathy	Lecture		
11	Critisisation	PPT/Lecture		
12	Questioning	PPT/Lecture		
13	Upamas	PPT/Lecture		
14	Revision			
	MO	DULE II	•	
15	Sanskrit Drama - Introduction	PPT/Lecture		
16	Mahakavi Bhasa's Dramas	Lecture		
17	Bhasa's Karnabharam	Lecture		

Mahabharatha	Lecture	
	Lecture	
	PPT/Lecture	
	-	
	PPT/Lecture	
Karna's sadness	PPT/Lecture	
Revenge	Lecture	
Karna's birth	Lecture	
CIA-1		
Kunthi's request	Lecture	
Karna's study	Lecture	
ParaShurama's teaching	PPT/Lecture	
Parashrama's curse	PPT/Lecture	
Greatness of Kshathriyas	PPT/Lecture	
Bravery of Karna	Lecture	
Indra's request to karna	Lecture	
Brahmana's blessing	PPT/Lecture	
Karna offering Horses	PPT/Lecture	
Karna offering elephants	PPT/Lecture	
Karna offering gold	Lecture	
Karna offering his kavacha	Lecture	
Indra accepting kavacha and kundala	PPT/Lecture	
Indra's blessing	PPT/Lecture	
The greatness of giving	PPT/Lecture	
Revision		
MODULE III		
Alankara introduction		
Kuvalayananda	PPT/Lecture	
Upama alankara	PPT/Lecture	
Upamana ,Upameya ,sadharana dharma	PPT/Lecture	
Ullekha Alankara	PPT/Lecture	
Dipika Alankara	PPT/Lecture	
Dipika example	PPT/Lecture	Video
Vyathireka Alankara	PPT/Lecture	
Aprastutaprasamsa	PPT/Lecture	
Revision		
Svabhavokthi Alankara	Lecture	Debate
Rupaka Alankara	PPT/Lecture	
Drishtantha Alankara	PPT/Lecture	
Dristantha -example	PPT/Lecture	
Arthantharanyasa	PPT/Lecture	ł – – – – – – – – – – – – – – – – – – –
	Mangalasloka Entry of Karna Request to Karna Duryodhana's order Karna's sadness Revenge Karna's birth CIA-1 Kunthi's request Karna's study ParaShurama's teaching Parashrama's curse Greatness of Kshathriyas Bravery of Karna Indra's request to karna Brahmana's blessing Karna offering Horses Karna offering Horses Karna offering elephants Karna offering his kavacha Indra accepting kavacha and kundala Indra's blessing The greatness of giving Revision Revision Revision Revision Revision Quana alankara Upamana ,Upameya ,sadharana dharma Ullekha Alankara Dipika Alankara Aprastutaprasamsa Revision Svabhavokthi Alankara Drishtantha Alankara	MangalaslokaLectureEntry of KarnaPPT/LectureRequest to KarnaPPT/LectureDuryodhana's orderPPT/LectureKarna's sadnessPPT/LectureRevengeLectureKarna's birthLectureCIA-1CIA-1Kunthi's requestLectureParaShurama's teachingPPT/LectureParaShurama's teachingPPT/LectureGreatness of KshathriyasPPT/LectureBravery of KarnaLectureIndra's request to karnaLectureBrahmana's blessingPPT/LectureBrahmana's blessingPPT/LectureKarna offering HorsesPPT/LectureKarna offering kavachaLectureIndra's request to karnaLectureKarna offering horsesPPT/LectureKarna offering horsesPPT/LectureKarna offering horsesPPT/LectureKarna offering kavachaLectureIndra's blessingPPT/LectureRevisionRevisionRevisionMODULE IIIAlankara introductionPPT/LectureUpama alankaraPPT/LectureUpama alankaraPPT/LectureDipika AlankaraPPT/LectureDipika AlankaraPPT/LectureRevisionSvabhavokthi AlankaraPPT/LecturePPT/LectureDipika AlankaraPPT/LectureDipika AlankaraPPT/LectureDipika AlankaraPPT/LectureDipika AlankaraPPT/LectureRevisionSvabhavokthi Alankara

61	Prathama Ullekha	PPT/Lecture		
62	Dvitheeya Ullekha	PPT/Lecture		
	CIA - II			
	MODULE IV			
63	Characteristic of Karna	Lecture		
64	Characteristics of Shalya	Lecture	Group discussion	
65	Characteristics of Indra	Lecture		
66	Characteristics of Parvathi	PPT/Lecture		
67	Characteristics of Brahmachari	PPT/Lecture		
68	Himalaya	PPT/Lecture		
69	Revision			
70	Revision			
71	Revision			
72	Revision			

INDIVIDUAL ASSIGNMENTS/SEMINAR – Details & Guidelines

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation –
		Graded or Non-graded etc)
1	12/08/2014	The role of Karna in Mahabharatha
2	16/09/2014	Upama kalidasasya

GROUP ASSIGNMENTS/ACTIVITES – Details & Guidelines

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc)
1	23/9/2014	The moral values in Kumarasambava
2	30/9/2014	Purushartha –the means of life

References

- 1. Bhasanatakacakram O.R.I& Manuscript Library Trivandrum
- 2. Bhasanatakamanjari, Dr. V.S. Idakidath, Saparya Books, Kollam
- 3. Kumarasambhavam by Kuttikrishna Marar
- 4. Bhasanatakasarvasvam Sudhamsu Chathurvedi
- 5. Kalidasa Hhridayam, V. Unnikrishnan Nair
- 6. The Problems of Bhasa Plays, Dr. N.P. Unni
- 7. Abhijnana Sakunthalam, M.R.Kale
- 8. Kalidasarvasvam, Sudhamsucathurvedi
- 9. Kuvalayanandam , Appayyadikshitha

COURSE PLAN-

PROGRAMME	B.Sc PHYSICS	SEMESTER	1
COURSE CODE & TITLE	U1CCMAL1A കഥ നോവൽ	CREDITS	4
HOURS/WEEK	4	HOURS/SEM	72

COURSE OBJECTIVES
കഥ, നോവൽ എന്നിവയെക്കുറിച്ച് മെച്ചപ്പെട്ട ധാരണ ഉണ്ടാക്ക
ുക
ഭാഷാപഠനം സാഹിത്യാനുഭവത്തിലൂടെ ആവിഷ്ക്കരിക്കുക
വായനാഭിരുചി വർദ്ധിപ്പിക്കുക
സാഹിത്യ പരിചയം ഉണ്ടാക്കുക
വ്യാവഹാരിക തലത്തിൽ മാതൃഭാഷാപ്രയോഗിക്കുവാനുള്ള
കഴിവ് നേടുക
ഭാഷാപഠനത്തിലൂടെ ആശയവിനിമയശേഷി വർദ്ധിപ്പിക്കുക

Sessio	Торіс	Learning	Teaching Method	Remarks
n		Resources		
	-	Module I		
1	മലയാളസാഹിത്യം സാമാന്യാവലോകനം	സാഹിത്യചര ിത്രങ്ങൾ	Lecturing	
2	ചെറുകഥയുടെ ചരിത്രം -1	സാഹിത്യചര ിത്രങ്ങൾ	Lecturing	
3	ചെറുകഥയുടെ ചരിത്രം-2	സാഹിത്യചര ിത്രങ്ങൾ	Discussion	
4	തകഴിയുടെ രചനാലോകം	നോവൽം ചെറുകഥാ പഠനങ്ങൾ	Lecturing	
5	വെളുത്തകുഞ്ഞ്	Text	Reading	
6	വെളുത്തകുഞ്ഞ്	Text	Group Discussion	
7	സന്തോഷ് ഏച്ചിക്കാനത്തിൻറെ കഥകൾ	ചെറുകഥാ പഠനങ്ങൾ	Lecturing	
8	അഭിനയമുഹൂർത്തങ്ങൾ കഥ	Text	Reading	
9	അഭിനയമുഹൂർത്തങ്ങൾ കഥ	Text	Group Discussion	
10	ഒ വി വിജയനെ പരിചയപ്പെടുത്തുന്നു	നോവൽം ചെറുകഥാ പഠനങ്ങൾ	Lecturing	
11	കടൽത്തീരത്ത്	Text	Reading	
12	കടൽത്തീരത്ത്	Text	Group Discussion	
13	എൻ എസ് മാധവൻറെ കൃതികളുടെ രാഷ്ട്രീയം	നോവൽം ചെറുകഥാ പഠനങ്ങൾ	Lecturing	
14	നാലാംലോകം കഥ	Text	Reading	

16ጠንലാംലോകം കഥTextGroup Discussion17ചെറുകഥ – അവലോകനംTextGroup Discussion18Module III18നോയരുടെ കൃതികൾLecturing19ഫെർലക്ക്TextReading20ഫെർലക്ക്TextGroup Discussion21ഇണ്ണി ആറിനെ പരിചയപ്പെടുത്തുന്നുനോവൽഭ ചെറുകഥാ പഠനങ്ങൾLecturing22ഒറ്റപ്പെട്ടവൽ- പരിചയപ്പെടുത്തുന്നുTextReading23ഒറ്റപ്പെട്ടവൻ- സാഹിത്യവും സിനിമയുംTextGroup Discussion24ജോൺ എബ്രഹാം: സാഹിത്യവും സിനിമയുംCmാവൽഭ പഠനങ്ങൾLecturing25നേർച്ചക്കോഴിTextReading	
Module II 18 GMOOLING 19 GARGELASION 19 GARGELASION 20 GARGELASION 20 GARGELASION 20 GARGELASION 21 Text 21 Group Discussion 21 GROOLINGE 22 GQOALSONN 23 GQOALSONN 24 Caronal Agementation 24 Caronal Agementation 25 GRGALSON	
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എം ടി വാസുദേവൻ നായരുടെ കൃതികൾചെറുകഥാ പഠനങ്ങൾ19ഷെർലക്ക്TextReading20ഷെർലക്ക്TextGroup Discussion21നോവൽംLecturing21നോവൽംLecturing22ഒറ്റപ്പെട്ടുത്തുന്നുപഠനങ്ങൾ22ഒറ്റപ്പെട്ടവൻ-TextReading23ഒറ്റപ്പെട്ടവൻ-TextGroup Discussion24ജോൺ എബ്രഹാം: സാഹിത്യവും സിനിമയുംനോവൽം ഖഠനങ്ങൾLecturing25നേർച്ചക്കോഴിTextReading	
നായരുടെ കൃതികൾപഠനങ്ങൾ19ഷെർലക്ക്TextReading20ഷെർലക്ക്TextGroup Discussion21നോവൽംLecturingഉണ്ണി ആറിനെ പരിചയപ്പെടുത്തുന്നുഖറുകഥാ പഠനങ്ങൾLecturing22ഒറ്റപ്പെട്ടവൻ-TextReading23ഒറ്റപ്പെട്ടവൻ-TextGroup Discussion24ജോൺ എബ്രഹാം: സാഹിത്യവും സിനിമയുംനോവൽം പഠനങ്ങൾLecturing25നേർച്ചക്കോഴിTextReading	
നായരുടെ കൃതികൾപഠനങ്ങൾ19ഷെർലക്ക്TextReading20ഷെർലക്ക്TextGroup Discussion21EnglishingChildrenLecturing21മണ്ണി ആറിനെ പരിചയപ്പെടുത്തുന്നുഖറുകഥാ പഠനങ്ങൾLecturing22ഒറ്റപ്പെട്ടവൻ-TextReading23ഒറ്റപ്പെട്ടവൻ-TextGroup Discussion24ജോൺ എബ്രഹാം: സാഹിത്യവും സിനിമയുംനോവൽഭ് ഖറുകഥാ പഠനങ്ങൾLecturing25നേർച്ചക്കോഴിTextReading	
19ഷെർലക്ക്TextReading20ഷെർലക്ക്TextGroup Discussion21നോവൽŝLecturingഉണ്ണി ആറിനെ പരിചയപ്പെടുത്തുന്നുഖറുകഥാ പഠനങ്ങൾLecturing22ഒറ്റപ്പെട്ടവൻ-TextReading23ഒറ്റപ്പെട്ടവൻ-TextGroup Discussion24ജോൺ എബ്രഹാം: സാഹിത്യവും സിനിമയുംനോവൽŝ ഖറുകഥാ പഠനങ്ങൾLecturing25നേർച്ചക്കോഴിTextReading	
21നോവൽം ഉണ്ണി ആറിനെ പരിചയപ്പെടുത്തുന്നുനോവൽം ചെറുകഥാ പഠനങ്ങൾLecturing22ഒറ്റപ്പെട്ടവൻ- വാ മറ്റപ്പെട്ടവൻ-TextReading23ഒറ്റപ്പെട്ടവൻ- മറ്റപ്പെട്ടവൻ-TextGroup Discussion24ജോൺ എബ്രഹാം: സാഹിത്യവും സിനിമയുംനോവൽം ഖറുകഥാ പഠനങ്ങൾLecturing25നേർച്ചക്കോഴിTextReading	
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22ഒറ്റപ്പെട്ടവൻ-TextReading23ഒറ്റപ്പെട്ടവൻ-TextGroup Discussion24ജോൺ എബ്രഹാം: സാഹിത്യവും സിനിമയുംനോവൽĉ ഖെറുകഥാ പഠനങ്ങൾLecturing25നേർച്ചക്കോഴിTextReading	
23ഒറ്റപ്പെട്ടവൻ-TextGroup Discussion24ജോൺ എബ്രഹാം: സാഹിത്യവും സിനിമയുംനോവൽഭ ചെറുകഥാ പഠനങ്ങൾLecturing25നേർച്ചക്കോഴിTextReading	
24നോവൽം ജോൺ എബ്രഹാം: സാഹിത്യവും സിനിമയുംനോവൽം ചെറുകഥാ പഠനങ്ങൾLecturing25നേർച്ചക്കോഴിTextReading	
സാഹിത്യവും സിനിമയും പഠനങ്ങൾ 25 നേർച്ചക്കോഴി Text Reading	
്സാഹാത്യവുംസാവയും പഠനങ്ങൾ 25 നേർച്ചക്കോഴി Text Reading	
26 നേർച്ചക്കോഴി Text Group Discussion	
27 സാറാ ജോസഫ്, പുരാണ ചെറുകഥാ	
പുനർവായന പഠനങ്ങൾ	
28 (තාയ്ലുലം Text Reading	
29 (බරාමාධ්ර Text Group Discussion	
30 ചെറ്റുകഥ – അവലോകനം Text Group Discussion	
31 Internal Assessment 1 Text	
32 Question paper discussion Text Group Discussion	
Module III	
33 നോവൽം Lecturing	
മാധവിക്കുട്ടിയുടെ ചെറുകഥാ	
കഥകളുടെ പ്രത്യേകതകൾ പഠനങ്ങൾ	
34 പക്ഷിയുടെ മണം Text Reading	
35 പക്ഷിയുടെ മണം Text Group Discussion	
36 നോവൽം Lecturing	
വൈക്കം മുഹമ്മദ് ചെറുകഥാ	
ബഷീറിൻറെ ലോകം പഠനങ്ങൾ	
37 ശിങ്കിടിമുങ്കൻ Text Reading	
38 ശിങ്കിടിമുങ്കൻ Text Group Discussion	
39 സേതുവിന്റെ കൃതികൾ Lecturing	
40 ദൂത് Text Reading	
41 (ດີງູເຫັ້ Text Group Discussion	
42 കെ ആർ മീരയുടെ നോവൽം Lecturing	
എഴുത്തുകൾ പറയുടെ ചെറുകഥാ	
പഠനങ്ങൾ	
43 മോഹമഞ്ഞ Text Reading	
44 മോഹമഞ്ഞ Text Group Discussion	
45 ചെറുകഥ – അവലോകനം Text Group Discussion	
Module - IV	
46 സാഹിത്യചര Lecturing	
മലയാളനോവൽ ചരിത്രം ിത്രങ്ങൾ	

47		ന്ന പിത്വ പര	Group Discussion
47	മലയാളനോവൽ ചരിത്രം	സാഹിത്യചര ിത്രങ്ങൾ	Group Discussion
48	മലയാളനോവൽ ഒനൂതന	സാഹിത്യചര	Lecturing
40	പ്രവണതകൾ	ിത്രങ്ങൾ	Lecturing
49	മലയാളനോവൽ ഒനൂതന	സാഹിത്യചര	Group Discussion
-15	പ്രവണതകൾ	ിത്രങ്ങൾ	
50		ണാവൽ	Lecturing
	വിനോയ് തോമസ്- ആമുഖം	പഠനങ്ങൾ	
51	കരിക്കോട്ടക്കരി– നോവൽ	ണാവൽ	Lecturing
	ആമുഖം	പഠനങ്ങൾ	
52	കരിക്കോട്ടക്കരി അധ്യായം		Group Discussion
	1	Text	
53	കരിക്കോട്ടക്കരി അധ്യായം		Group Discussion
	2	Text	
54	കരിക്കോട്ടക്കരി അധ്യായം		Group Discussion
	3	Text	
55	കരിക്കോട്ടക്കരി അധ്യായം		Group Discussion
50		Text	
56	കരിക്കോട്ടക്കരി അധ്യായം 5	Tout	Group Discussion
57	ം കരിക്കോട്ടക്കരി അധ്യായം	Text	Group Discussion
57	6	Text	
58	കരിക്കോട്ടക്കരി അധ്യായം		Group Discussion
	7	Text	
59	കരിക്കോട്ടക്കരി അധ്യായം		Group Discussion
	8	Text	
60	കരിക്കോട്ടക്കരി അധ്യായം		Group Discussion
	9	Text	
61	കരിക്കോട്ടക്കരി		Group Discussion
62	അധ്യായം10	Text	
62	കരിക്കോട്ടക്കരി അധ്യായം 11	Taut	Group Discussion
	Internal Assessment 2	Text	
63	കരിക്കോട്ടക്കരി അധ്യായം		Group Discussion
	12	Text	
64	കരിക്കോട്ടക്കരി അധ്യായം		Group Discussion
	13	Text	
65	കരിക്കോട്ടക്കരി		Group Discussion
	അവലോകനം	Text	
66	സംവാദം- വിനോയ്		Group Discussion
	തോമസ്	Text	
67	സെമിനാർ	Text	Presentation
68	സെമിനാർ	Text	Presentation
69	സെമിനാർ	Text	Presentation
70	സെമിനാർ	Text	Presentation
71	സെമിനാർ	Text	Presentation
72	Revision	Text	Group Discussion

ASSIGNMENTS

SI no	Date submission/completion	of	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc)
1	By October		മലയാളത്തിലെ തെരെഞ്ഞെടുത്ത കഥാകൃത്തുക്കളുടെ വിവരണങ്ങൾ
2			സിലബസിൽ പഠിക്കാൻ ഇല്ലാത്ത ഒരു നോവലിന്റെ ആസ്ഥാദനം

SEMINAR

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

Referance :

1. സമ്പൂർണ മലയാള സാഹിത്യചരിത്രം – എഡിറ്റർ :പന്മന രാമചന്ദ്രൻ നായർ

2.ചെറുകഥ ഇന്നലെ ഇന്ൻ ഭഎം അച്യുതൻ

3.മലയാള നോവൽ സാഹിത്യചരിത്രം – കെ എം തരകൻ

COURSE PLAN (COURSE 7)

PROGRAMME	BSc PHYSICS	SEMESTER	1
COURSE CODE AND TITLE	U1CRPHY01- METHODOLOGY IN PHYSICS	CREDIT	2+(1PRACTICAL)
THEORY HOURS/WEEK	2	HOURS/SEM	36

COURSE OBJECTIVES

Understand the development of physics in the last century and new scientific concepts from various scientist.

Understand Number systems and its significance.

Apply vector algebra in Physics.

Apply basic measurement techniques in Physics and experimental data.

SESSION	ТОРІС	LEARNING RESOURCES	REMARKS	
	MODULE I			
	Introductory Session- Scope of Physics and general	Lecture		
1	guidelines			
2	Bridging role of the present syllabus	Lecture/PPT		
	Ancient perspectives on the universe -	Lecture /		
		Group		
3		Activity		
	Geocentric model of Ptolemy – Copernican	Lecture		
4	revolution			
	Galileo, and his emphasis on experiments and observations.	Lecture		
5	Kepler's laws. Newton and the deterministic universe			
	Maxwell and the unification of	Lecture		
6	electricity, magnetism and optics.			
	Planck's hypothesis of quantum. Quantum mechanics. Lecture			
	Einstein and his theories of			
7	relativity			
8	Contributions by S. N. Bose, M. N. Saha, C. V. Raman and S.	Lecture		
	Chandrasekhar.			
9	Emergence of modern physics and technology -	Lecture/PPT		
	Semiconductor revolution - nanotechnology.			
10				
	fundamental particles and the unification of all forces of			
	nature.			
11	Physics, and its relation to other branches of Science.			
	Hypotheses; theories and	Activity		

12	Laws in science- verification (proving),	Lecture
13	corroboration and falsification (disproving),	Lecture
	Revision of scientific theories and laws Significance of Peer	
	Review. Publications and patents.	
	MODULE II	
14	Measurement of time – water clocks	Lecture
15	sun dials-Discussion pendulum clocks – digital clocks –	Lecture
	atomic clocks.	
16	Length measurement – rulers – standard metre –	Lecture /
	micrometers – screw	Group
	Gauges	Activity
17	Travelling microscope – laser range finder- sonar – GPS.	Lecture
18	mass energy relation and Problem solving and revision	Lecture
19		Lecture, ppt
	Propagation of errors	
20	uncertainties of measurement	Lecture
21	importance of estimating errors	Lecture,
		discussion
22	dominant errors	Lecture
23	random errors	Lecture
24	systematic errors	Lecture, ppt
25	rejection of spurious measurements	Lecture
26	Estimating and reporting errors	Lecture
27	errors with reading scales	Lecture, ppt
28	errors of digital instruments	Lecture
29	Basic ideas - number of significant digits –	Lecture
30	absolute and relative errors	Lecture,
		discussion
31	standard deviation	Lecture
32	error bars and graphical representation.	Lecture
33	sum and differences	Lecture,
		problem
		solving
34	products and quotients	Lecture
35	multiplying by constants – powers	Lecture,
		problem
		solving
36	Calibrationneed for calibration -methods of calibration.	Lecture, ppt

INDIVIDUAL ASSIGNMENTS/SEMINAR – DETAILS & GUIDELINES

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc.)	
1	20/8/2014	History of Clocks	
2	20/9/2014	Development of science :Contribution of scientists	

GROUP ASSIGNMENTS- DETAILS & GUIDELINES

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc.)
1	By Ocotber	Scientific methods related problem solving (Group Discussion)

REFERENCES

- Gieryn, T.F. Cultural Boundaries of Science., Univ. Chicago Press, 1999.
- Collins H. and T. Pinch. The Golem: What Everyone Should Know About
- Science., CambridgeUniv Press, 1993.
- Hewitt, Paul G, Suzanne Lyons, John A. Suchocki& Jennifer Yeh, Conceptual
- Integrated Science, Addison-Wesley, 2007
- Newton RG. The Truth of Science : New Delhi, 2nd edition
- Bass, Joel, E and et.al. Methods for Teaching Science as Inquiry, Allyn &
- Bacon,2009
- http://www.howstuffworks.com/
- John R. Taylor. An Introduction to Error Analysis: The Study of Uncertainties
- in Physical Measurements, Univ. Science Books

COURSE PLAN (COURSE 8)

PROGRAMME	COMPLEMENTARY CHEMISTRY FOR BACHELOR OF SCIENCE IN PHYSICS	SEMESTER	1		
COURSE CODE AND TITLE	AND U1CPCHE1: GENERAL CHEMISTRY CREDIT		2		
HOURS/WEEK	2	HOURS/SEM 3			
	COURSE OBJECTIVES	·			
Describe different mode	els of atomic structure.				
Define acids and bases and explain the concept of equilibrium.					
Understand the concept of solubility and its applications in various fields.					
Explain the fundamentals of nuclear chemistry.					
Generate a basic idea on applications of nuclear energy in various fields and the possible hazards.					
Explain the fundamentals of analytical chemistry.					
Understand the basics of thermodynamics.					

SESSION	ΤΟΡΙϹ	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
	MODULE I : Atomic Structure : Dr. Rama	akrishnan S (9h)	
1	Introduction: Atoms, Planck's quantum Theory,	Chalk &	video	
	Photoelectric effect	Board		
2	Postulates of bohr's theory, Energy levels in atom	Chalk &		
	Postulates of born's theory, therey levels in atom	Board		
3	origin of hydrogen spectrum	Chalk &		
		Board		
4	Sommerfeld's extension of Bohr's Theory	Chalk &		
	Sommerield's extension of Bohn's Theory	Board		
5		Chalk &		
	Shortcomings of Bohr Theory	Board		
6	Dual nature of matter and radiation. Derivation of	Chalk &		
	de Broglie equation	Board		
7	Wave nature of electron and quantisation of	Chalk &		
	angular momentum, Heisenberg's uncertainty principle	Board		
8	Concept of orbital, Quantum numbers, shapes of	Chalk &		
	orbitals	Board		
9	Electronic configuration of atoms - Aufbau	Chalk &		
	principle, Hund's rule of maximum multiplicity,	Board		
	Pauli's exclusion principle			
	MODULE II: Concept of Equilibrium: Dr. Ra	amakrishnan	S (8h)	

11	Theories of acids and bases	Chalk & Board		
12	Ionic product of water, introductory idea of pH,	Chalk &	quiz	
	рОН.	Board		
13	Strengths of acids and bases, Ka and Kb, pKa and	Chalk &		
	рКb	Board		
14	Buffer solution, Henderson equation	Chalk &		
		Board		
15	Hydrolysis of salt, solubility	Chalk &		
		Board		
16		Chalk &		
	Solubility product, application	Board		
17		Chalk &		
	Common ion effect, application.	Board		
	MODULE III: Nuclear Chemistry : Dr.		1	
18	Stability of Nucleus	Chalk &		
		Board		
19	Natural radioactivity, induced radioactivity	Chalk &	quiz	
20	The state of the first instance of the state	Board		
20	Fertile and fissile isotopes, units of radioactivity.	Chalk &		
21	Nuclear Departience fission and fusion shain	Board		
21	Nuclear Reactions: fission and fusion, chain reactions	Chalk & Board		
22	Disposal of nuclear wastes	Chalk &		
22		Board		
23	Applications of radioactivity	Chalk &		
23		Board		
	MODULE IV: Analytical Chemistry- Basic Princ		i Δ S (5h)	
24	Concentration terms- molality, molarity, normality,	Chalk &		
27	weight percentage, ppm, and millimoles.	Board		
25	Titrimetric method of analysis: General principle,	Chalk &		
23	types of titrations, requirements for titrimetric	Board		
	analysis.	Deard		
26	Primary and secondary standards, criteria for	Chalk &		
	primary standards	Board		
27	Preparation of standard solutions, standardization	Chalk &		
	of solutions	Board		
28		Chalk &	Quiz	
	Problems	Board		
	MODULE V: Laws of Thermodynamics :	Dr.Ragi A.S (8h)	
29	System and Surrounding and First Law of	Chalk &		

30	Second law of Thermodynamics: free energy,	Chalk &		
	Entropy and Spontaneity, Statement of second law	Board		
	based on entropy			
31		Chalk &		
	Entropy change in Phase transitions	Board		
32	entropy of fusion, entropy of vaporization, entropy	Chalk &		
	of sublimation	Board		
33	The concept of Gibbs's free energy- Physical	Chalk &		
	significance of free energy, conditions for	Board		
	equilibrium & spontaneity based on ΔG values.			
34	Effect of temperature on coentensity of Deastion	Chalk &		
	Effect of temperature on spontaneity of Reaction.	Board		
35	Third law of thermodynamics	Chalk &		
	Third law of thermodynamics	Board		
36	Droblems based on Laws of Thermodynamics	Chalk &	Quiz	
	Problems based on Laws of Thermodynamics	Board		

INDIVIDUAL ASSIGNMENTS/SEMINAR – DETAILS & GUIDELINES

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc)	
1	04/08/2014	Applications of solubility product	
2	28/10/2014	Effect of temperature on spontaneity of Reaction.	

GROUP ASSIGNMENTS/ACTIVITES – DETAILS & GUIDELINES

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc)	
1	02/10/2014	Concentration terms	

REFERENCES

- P. L. Soni, Inorganic Chemistry.
- C. N. R. Rao, University General Chemistry, Macmillan.
- R. A. Day Junior, A.L. Underwood, Quantitative Analysis, 5th edn. Prentice Hall of India Pvt. Ltd. New Delhi, 1988.
- R. Gopalan, Analytical Chemistry, S. Chand and Co., New Delhi.
- B. R. Puri, L. R. Sharma, M.S. Pathania, Elements of Physical Chemistry, 3rd edn. Vishal Pub. CO., 2008.
- B. R. Puri, L. R. Sharma, Kalia, Principles of Inorganic Chemistry, 31st edn. Milstone (2010).
- ManasChanda, Atomic Structure and Molecular Spectroscopy.
- 7. Vogel's Text Book of Quantitative Chemical Analysis, J. Mendham, R. C. Denney, J.D. Barnes, M. Thomas, 6th edn. Pearson Education (2003).

COURSE 9

PROGRAMME	BSc.PHYSICS	SEMESTER	1
COURSE CODE AND TITLE	U1CPMAT01: DIFFERENTIAL CALCULUS AND TRIGONOMETRY	CREDIT	3
HOURS/WEEK	4	HOURS/SEM	60

COURSE OBJECTIVES
Understand limits, derivatives of a functions and its applications.
Determine whether a given function is increasing or decreasing.
Apply the concepts of maxima and minima of a function to real world problems
Understand the concepts of derivative of functions of more than one variable
Understand the concepts of Trigonometric functions, their properties and summation of trigonometric series

Sessions	Торіс	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
1	Introductory Session	Lecture		
2	Rates of change and limits	Lecture		
3	Calculating limits using the limit laws	Lecture, Problem Solving		
4	Calculating limits using the limit laws	Lecture, Problem Solving		
5	The precise definition of a limit	Lecture,		
6	The precise definition of a limit	Lecture Problem Solving		
7	One sided limits and limits at infinity	Lecture, Problem Solving		
8	Derivative of a function	Lecture, Problem Solving		
9	Derivative of a function	Lecture, Problem Solving		
10	Differentiation rules	Lecture, Problem Solving		
11	Differentiation rules	Lecture, Problem Solving		
12	The derivative as a rate of change	Lecture		

	1	
13	The derivative as a rate of change	Lecture, Problem Solving
14	Derivatives of trigonometric functions	Lecture, Problem Solving
15	The chain rule and parametric equations	Lecture, Problem Solving
16	The chain rule and parametric equations	Lecture, Problem Solving
17	Implicit Differentiation.	Lecture, Problem Solving
18	Implicit Differentiation.	Lecture, Problem Solving
19		Test
20	Extreme values of functions	Lecture, Problem Solving
21	Extreme values of functions	Lecture, Problem Solving
22	The Mean Value Theorem	Lecture, Problem Solving
23	The Mean Value Theorem	Lecture, Problem Solving
24	Monotonic functions	Lecture, Problem Solving
25	Monotonic functions	Lecture, Problem Solving
26	First derivative test.	Lecture, Problem Solving
27	First derivative test.	Lecture, Problem Solving
28	First derivative test.	Lecture, Problem Solving
29	Test	
30	Functions of several variables	Lecture, Problem Solving
31	Partial derivatives	Lecture, Problem Solving
32	Partial derivatives	Lecture, Problem Solving

33	Partial derivatives	Lecture, Problem
		Solving
34	Partial derivatives	Introduction
35	The Chain Rule	Lecture, Problem
		Solving
36	The Chain Rule	Lecture, Problem
		Solving
37	The Chain Rule	Lecture, Problem Solving
		Lecture, Problem
38	The Chain Rule	Solving
39	Test	
	Test	Lecture, Problem
40	Expansions of sin $n\theta$	Solving
		Lecture, Problem
41	Expansions of $\cos n\theta$,	Solving
		Lecture, Problem
42	Expansions of tan $n\theta$	Solving
		Lecture, Problem
43	Expansions of sin ⁿ 2	Solving
		Lecture, Problem
44	Expansions of $\cos^n \theta$,	Solving
45	5	Lecture, Problem
45	Expansions of sin ${}^{n}\theta$ cos ${}^{m}\theta$	Solving
46	Circular and hyperbolic functions	Lecture, Problem
40	Circular and hyperbolic functions	Solving
47	Circular and hyperbolic functions	Lecture, Problem
		Solving
48	Inverse circular and hyperbolic	Lecture, Problem
	function	Solving
49	Inverse circular and hyperbolic	Lecture, Problem
	function	Solving
50	Inverse circular and hyperbolic	Lecture, Problem
	function	Solving
51	Separation into real and	Lecture, Problem
	imaginary parts	Solving
52	Separation into real and imaginary parts	Lecture, Problem Solving
	Separation into real and	Lecture, Problem
53	imaginary parts	Solving
	Summation of infinite series	Lecture, Problem
54	based on C + iSmethod	Solving
	Summation of infinite series	Lecture, Problem
55	based on C + is method	Solving

56	Summation of infinite series	Lecture, Problem
	based on C + is method	Solving
57	Summation of infinite series	Lecture, Problem
	based on C + is method	Solving
58	Summation of infinite series	Lecture, Problem
	based on C + is method	Solving
59	Application	Lecture, Problem
	Application	Solving
59	Revision	Lecture, Problem
	Revision	Solving
60	Revision	Lecture, Problem
		Solving

INDIVIDUAL ASSIGNMENTS/SEMINAR – DETAILS & GUIDELINES

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc.)
1	By October	PROBLEMS IN DIFFERENTIATION
2		PROBLEMS IN TRIGONOMETRY

GROUP ASSIGNMENTS/ACTIVITES – DETAILS & GUIDELINES

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc.)
1	By October	PROBLEMS IN PARTIAL DIFFERENTIAL EQUATIONS
2		

TEXT BOOKS: -

- George B. Thomas, Jr: Thomas' Calculus Eleventh Edition, Pearson, 2008.
- S.L. Loney Plane Trigonometry Part II, AITBS Publishers India, 2009.

REFERENCE BOOKS:

- Shanti Narayan : Differential Calculus (S Chand)
- George B. Thomas Jr. and Ross L. Finney : Calculus, LPE, Ninth edition, Pearson Education.
- S.S. Sastry, Engineering Mathematics, Volume 1, 4 th Edition PHI.
 - Muray R Spiegel, Advanced Calculus, Schaum's Outline series.