SACRED HEART COLLEGE (AUTONOMOUS)

DEPARTMENT OF MATHEMATICS BACHELOR OF SCIENCE [MATHEMATICS]

Course plan

Academic Year 2014 - 15

Semester 2

PROGRAMME	BSc MATHEMATICS	SEMESTER	2
COURSE CODE & TITLE	U2CCENG3: CRITICAL THINKING, ACADEMIC WRITING AND PRESENTATION	CREDIT	4
HOURS/WEEK	5	HOURS/SEM	72
FACULTY NAME	TOM C. THOMAS		

COURSE OBJECTIVES

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

Develops appropriate and impressive writing styles for various contexts

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

Develops capacity for making academic presentations effectively and impressively

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

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

SESSION	ТОРІС	LEARNING RESOURCES	REMARKS
	MODULE I		
1	Introduction to Critical Thinking	Lecture/PPT	
2	Introduction to Critical Thinking	Lecture/PPT	
3	Introduction to Critical Thinking	Lecture/PPT	
4	Introduction to Critical Thinking	Lecture/PPT	
5	Reasoning and Arguments	Activities/ Discussion	
6	Reasoning and Arguments	Activities/ Discussion	
7	Reasoning and Arguments	Activities/ Discussion	
8	Reasoning and Arguments	Activities/ Discussion	
9	Reasoning and Arguments	Activities/ Discussion	
10	Reasoning and Arguments	Activities/ Discussion	
11	Deductive and Inductive Arguments	Course book	
12	Deductive and Inductive Arguments	Course book	
13	Deductive and Inductive Arguments	Course book	
14	Deductive and Inductive Arguments	Course book	
15	Deductive and Inductive Arguments	Course book	

Fallacies		
	Course book	
Inferential Comprehension	Group Activities	
Inferential Comprehension	Group Activities	
0 Inferential Comprehension Group Activities Activities		
Inferential Comprehension	Course book	
	Group	
interential comprehension	Activities	
Inferential Comprehension	Group	
·	Activities	
Critical Thinking and Academic Writing	Group	
	Activities	
Critical Thinking and Academic Writing	Group	
Cuitical Thinking and Apadausis White	Activities	
Critical Ininking and Academic Writing	Group Activities	
INTERNAL ASSESSMENT TEST 1	Activities	
	Presentation	
	Course book	
	Course book	
	Course book	
	Course book	
	Course book	
	12220	
	Course book	
	Course book	
	Course book	
Letter to the Editor	Course book	
Letter to the Editor	Course book	
Resume Writing		
MODULE III		
Covering Letter	Lecture	
Covering Letter	Lecture	
Emails	Course book	
Fmails	Course book	
	Course book	
	Course book	
·		
Accuracy in Academic writing	Course book	
	Inferential Comprehension Inferential Comprehension Inferential Comprehension Inferential Comprehension Inferential Comprehension Inferential Comprehension Critical Thinking and Academic Writing Critical Thinking and Academic Writing INTERNAL ASSESSMENT TEST 1 Writing Models Writing Models Writing Models Writing Models Writing Models Writing Letters Writing Letters Writing Letters Writing Letters Writing a Letter to the Editor Writing a Letter to the Editor Resume Writing MODULE III Covering Letter Emails Interview Skills Interview Skills	

54	Accuracy in Academic writing	Course book	
55	Accuracy in Academic writing		
56	Articles and Determiners Course book		
57	Articles and Determiners Course book		
58	Nouns and Pronouns		
59	Subject-verb agreement Lecture		
60	Phrasal verbs	Lecture	
61	Modals		
62	Tenses	Course book	
63	Tenses	Course book	
64	Tenses		
65	Conditional clauses	Course book	
66	Relative Pronouns	Course book	
	Passive Voices	Course book	
67	INTERNAL ASSESSMENT TEST 2		
		Lecture	
68	Conjunctions	Course book	
69	Embedded questions		
70	Embedded questions	Course book	
71	Punctuations and Abbreviations		
72	Soft skills for academic presentations	Course book	
73 Effective communication skills Course book			
	Flip Charts, OHP, Power point presentation	Group	
74	Clarity and have it is a second at the	Presentations	
75	Clarity and brevity in presentation	Group Presentations	
73	Interaction and persuasion	Group	
76	interdetion and persuasion	Presentations	
	Interview skills	Group	
77		Presentations	
	Interview skills	Group	
78		Presentations	
79	Interview skills	Group Presentations	
79	Group Discussion	Group	
80	Group discussion	Presentations	
	Group Discussion	Group	
81		Presentations	
	Group Discussion	Group	
82		Presentations	
00	Group Discussion	Group	
83	Crawa Biaswasias	Presentations	
84	Group Discussion	Group Presentations	
04	Group Discussion	Group	
85	Group Discussion	Presentations	
86	Review Session 1		

87	Review Session 1	
88	Review Session 2	
89	Review Session 3	
90	Review Session 4	

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

GROUP ASSIGNMENTS/ACTIVITES – Details & Guidelines

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

PROGRAMME	UG COMMON COURSE	SEMESTER	2
COURSE CODE AND TITLE	U2CCENG4: MUSINGS ON VITAL ISSUES	CREDIT	2
HOURS/WEEK	4	HOURS/SEM	72
FACULTY NAME	K M Johnson, Bijo Mathew		

COURSE OBJECTIVES

Appreciate inspirational literatures of various literary genres across cultures

Critically engage with literary texts written in different languages and later translated into English

Critically engage with biographical sketch of the authors and familiarize their personality, oeuvre and style.

Develop a creative and insightful perspective towards life

Apply the unfathomable power of literatures in their writings and creative endeavors.

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

14	Jagannath Prasad Das : "Kalahandi"	PPT/Lecture	
15	Jagannath Prasad Das : "Kalahandi"	Lecture	
16	Jagannath Prasad Das : "Kalahandi"	Lecture	
17	Leah Levin : "Universal Declaration of Human	PPT/Lecture	video
	Rights"	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
18	Leah Levin : "Universal Declaration of Human	PPT/Lecture	
	Rights"		
19	Leah Levin: "Universal Declaration of Human	Lecture	
	Rights"		
20	Nani A Palkivala : "Human Rights and Legal	PPT/Lecture	video
	Responsibilities"		
21	Nani A Palkivala : "Human Rights and Legal	Lecture	
	Responsibilities"		
22	Nani A Palkivala : "Human Rights and Legal	Lecture	
- 22	Responsibilities"		
23	Martin Luther King: "I Have a Dream"	Lecture	
24	Martin Luther King: "I Have a Dream"	Discussion	
25	Martin Luther King: "I Have a Dream" CIA – I		
26	MODULE II- HUMAN RIGHTS	DDT/Lead	
26	Kalpana Jain : "Stigma, Shame and Silence"	PPT/Lecture	
27	Kalpana Jain : "Stigma, Shame and Silence"	Lecture	video
28	Kalpana Jain : "Stigma, Shame and Silence"	Lecture	
29	Wole Soyinka: "Telephone Conversation"	Lecture	
30	Wole Soyinka: "Telephone Conversation"	PPT/Lecture	
31	Richard Wright: "Twelve Million Black Voices"	Lecture	video
32	Richard Wright: "Twelve Million Black Voices"	Lecture	
33	Richard Wright: "Twelve Million Black Voices"	Lecture	
34	Aruna Roy: "Tune in to the Voice of the Deprived"	PPT/Lecture	1.1
35	Aruna Roy: "Tune in to the Voice of the Deprived"	Lecture	video
36	Aruna Roy: "Tune in to the Voice of the Deprived"	Lecture	
37	Johannes V. Jensen: "Lost Forests"	Lecture	
38	Johannes V. Jensen: "Lost Forests"	PPT/Lecture	uidaa
39 40	Johannes V. Jensen: "Lost Forests" Omprakash Valmiki: "Joothan"	Lecture Lecture	video
41	Omprakash Valmiki : "Joothan"	Discussion	
42	Omprakash Valmiki : "Joothan"	Presentation	
74	MODULE –III Gender Question	1 resemation	
43	Jamaica Kincaid : "Girl"	Presentation	
44	Jamaica Kincaid : "Girl"	Presentation	+
77	MODULE III- GENDER QUESTION	1 7 Cocintation	
45	Jamaica Kincaid : "Girl"	Locturo	Vidoo
45		Lecture	Video
46	Taslima Nasrin: "At the Back of Progress"	Discussion	
47	Taslima Nasrin: "At the Back of Progress"		
48	Taslima Nasrin: "At the Back of Progress"		
<u> </u>	1	1	1

49	Judy Brady : "Why I Want a Wife"	Lecture	Video
50	Judy Brady : "Why I Want a Wife"	Lecture, discussion	
51	Judy Brady : "Why I Want a Wife"	Lecture, discussion	
52	J B Priestley: "Mother's Day"	Lecture, discussion	
53	J B Priestley : "Mother's Day"	Lecture	
54	J B Priestley : "Mother's Day"	Discussion	Video
55	J B Priestley : "Mother's Day"	Lecture	
56	Amartya Sen : "More Than 100 Million Women are Missing	Lecture	
57	Amartya Sen: "More Than 100 Million Women are Missing	Presentation	
58	Amartya Sen: "More Than 100 Million Women are Missing	Presentation	
59	Amartya Sen : "More Than 100 Million Women are Missing	Presentation	
60 - 72	Revision		
	CIA 2		

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc)
1	2/2/2015	Presentations
2	28/1/2015	Role Plays

GROUP ASSIGNMENTS/ACTIVITES – Details & Guidelines

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

References

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

PROGRAMME	BACHELOR OF SCIENCE – MATHEMATICS	SEMESTER	2
COURSE CODE AND TITLE	U2CCHIN2A - TRANSLATION, CORRESPONDENCE, ESSAYS AND APPLIED GRAMMAR (SEM II)	CREDIT	4
HOURS/WEEK	4	HOURS/SEM	72
FACULTY NAME	Dr. MINIPRIYA R, SYAMLAL M. S		

COURSE OBJECTIVES

Recognize and get introduced to the minor genres such as essay to develop their social and moral sense in life.

Define grammatical structure of Hindi language and analyse the problems, challenges of communication in Hindi.

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

Understand translation as a linguistic, communicative and cultural activity.

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

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

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

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

GROUP ASSIGNMENTS/ACTIVITES – Details & Guidelines

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

References

• Hindi vyakaran by Kamta Prasad Guru , Prabhat Prakashan

Web resource references:

- epustakalay.com
- www.hindikunj.com

PROGRAMME	BSC MATHEMATICS	SEMESTER	2
COURSE CODE AND TITLE	U2CCFRN2A - FRENCH LANGUAGE AND COMMUNICATION SKILLS II	CREDIT	4
HOURS/WEEK	4	HOURS/SEM	72

COURSE OBJECTIVES

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

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

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

Develop business communication skills

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

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

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

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

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

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

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

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

References

Version Originale, site web

PROGRAMME	BACHELOR OF SCIENCE IN MATHEMATICS	SEMESTER	2
COURSE CODE AND TITLE	U2CCSAN2A: COMMUNICATION SKILLS IN SANSKRIT	CREDIT	4
HOURS/WEEK	4	HOURS/SEM	72
FACULTY NAME	Mr. Mathew Jose		

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

SESSION	TOPIC	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
	MODULE I			
1	Introducing Vibhakthi	Lecture		
2	Prathama vibhakthi	Discussion		
3	Dvitheeya vibhakthi	Lecture		
4	Thritheeya vibhakthi	Lecture	e-resource	
5	Chathurthi vibhakthi	Lecture		
6	Panchami vibhakthi	Chalk n talk		
7	Shashti vibhakthi	Lecture		

8	Sapthami vibhakthi	Chalk n talk	
9	Sambhodhanaprathama	Lecture	
10	Akarantha pulinga bala shabha	Lecture	
11	Aakarantha sthreelinga Latha shabdha	Discussion	
12	Ekarantha pulinga Kavi shabdha	Discussion	
13	Ukarantha pulinga Guru shabdha	PPT/Lecture	
14	Revision		
	MODU	LE II	
15	Structure of sentence- Present tense	PPT/Lecture	
16	Prathama purusha ekavachaam	Chalk n talk	
17	Prathama purusha dvivachaam	Lecture	
18	Prathama purusha bahuvachaam	Lecture	
19	Madhyama purusha ekavachaam	Lecture	
20	Madhyam purusha dvivachaam	Game	
21	Madhyam purusha bahuvachaam	Game	
22	Uthamapurusha ekavachaam	PPT/Lecture	
23	Uthamapurusha dvivachaam	PPT/Lecture	
24	Uthamapurusha bahuvachaam	Lecture	
25	Past tense- Prathamapurusha	Lecture	
26		CIA-1	1
27	Past tense - Madhyamapurusha	Lecture	
28	Past tense - Uthamapurusha	Chalk n talk	
29	Future tense - Prathamapurusha	Chalk n talk	
30	Future tense - Madhyamapurusha	Discussion	
31	Future tense - Uthamapurusha	Discussion	
32	Sentence making in Sanskrit-Active voice	Lecture	

33	Sentence making in Sanskrit –Passive voice	Lecture		
34	Revision			
35	Revision			
	MODULE III			
36	Introduction Meghadootha	Lecture		
37	Explaining Khandakavyam	Lecture		
38	Yaksha -curse	PPT/Lecture		
39	Yaksha's meeting with cloud	PPT/Lecture		
40	Requesting to cloud	PPT/Lecture		
41	Praising cloud	Lecture		
42	Yaksha directing cloud	Lecture		
43	Meeting with Balaka bird	Chalk n talk		
44	Departure	Discussion		
45	Rajahamsa	Roleplay		
46	Explaining Mountain	Discussion		
47	Directing to Megha	PPT/Lecture		
48	Revision			
49	Revision			
	MODULE IV			<u> </u>
50	Introduction Mrichakatika drama	PPT/Lecture		
51	Charudatha	PPT/Lecture	Video	
52	Vasanthasena	PPT/Lecture		
53	Vasanthasena's visiting	PPT/Lecture		
54	Rajasyala Samsthanaka	Lecture		
55	Vasanthasena 's meeting with Charudatha	Lecture	Debate	
56	Matithreya's conversation with Radanika	PPT/Lecture		

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

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

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 February	Bhasa's dramas	
2		Khandakavyas in Sanskrit	

References

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

PROGRAMME	B.Sc MATHEMATICS	SEMESTER	2
COURSE CODE & TITLE	u2ccmal2a കവിത	CREDITS	4
HOURS/WEEK	4	HOURS/SEM	72
FACULTY NAME	FR. XAVIER C S		

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

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

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

45	പഠിച്ച കവിതകൾ ഒരു		Group Discussion
	അവലോകനം	Text	
		Module- IV	
46	മലയാള - നൂതന	കവിതാ	Lecturing
	പ്രവണതകൾ	പഠനങ്ങൾ	
47	ചിന്താഗ്നി	Text	Group Discussion
48	ചിന്താഗ്നി	Text	Lecturing
49	ആ പശുകുട്ടിയുടെ മരണം	Text	Group Discussion
50		കവിതാ	Lecturing
	ആ പശുകുട്ടിയുടെ മരണം	പഠനങ്ങൾ	
51	തേൾക്കുടം	Text	Lecturing
52	തേൾക്കുടം	Text	Group Discussion
53	കൗസല്യ	Text	Group Discussion
54	കൗസല്യ	Text	Group Discussion
55	കൗസല്യ	Text	Group Discussion
56	എന്തു ശുത്തി ഏതു ശുത്തി		Group Discussion
		Text	
57	എന്തു ശുത്തി ഏതു ശുത്തി		Group Discussion
		Text	
58	സമകാലീക മലയാള	കവിതാ	Group Discussion
	കവിത	പഠനങ്ങൾ	
59	സമകാലീക മലയാള		Group Discussion
60	കവിത	Text	Croup Discussion
60	സമകാലീക മലയാള കവിത	Tout	Group Discussion
61	പഠിച്ച കവിതകൾ ഒരു	Text കവിതാ	Group Discussion
01	അവലോകനം	പഠനങ്ങൾ	Group Discussion
62	പഠിച്ച കവിതകൾ ഒരു	(110(17001300	Group Discussion
02	അവലോകനം	Text	Group Biscussion
	Internal Assessment 2	TEXE	
63	Question paper discussion	Text	Group Discussion
64	പഠിച്ച കവിതകൾ ഒരു	കവിതാ	Group Discussion
	അവലോകനം	പഠനങ്ങൾ	
65	പഠിച്ച കവിതകൾ ഒരു	കവിതാ	Group Discussion
	അവലോകനം	പഠനങ്ങൾ	
66	സംവാദം-	Text	Group Discussion
67	സെമിനാർ	Text	Presentation
68	സെമിനാർ	Text	Presentation
69	സെമിനാർ	Text	Presentation
70	സെമിനാർ	Text	Presentation
71	സെമിനാർ	Text	Presentation
72	Evaluation of the course	Text	Group Discussion

ASSIGNMENTS

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

SEMINAR

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

Reference :

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

PROGRAMME	BSC MATHEMATICS	SEMESTER	2
COURSE CODE AND TITLE	U2CRMAT02-ANALYTIC GEOMETRY, TRIGONOMETRY AND MATRICES	CREDIT	4
HOURS/WEEK	4	HOURS/SEM	72
FACULTY NAME	JEET KURIAN MATTAM		

COURSE OBJECTIVES
To find the equation to tangent and normal at a point on a conic
To find the polar equation of a line, circle, tangent and normal to conics
To familiarize with real and imaginary parts of a circular and hyperbolic functions of a complex variable
To solve a system of linear equations using the inverse of a matrix
To familiarize with the characteristic roots and characteristic vectors
To find the inverse of a matrix by Cayley- Hamilton theorem.

SESSIONS	TOPIC		METHOD		REMARKS
1	Analytic	geometry-	Lecture,	Group	
	preliminaries		discussion,		
			Problem sol	ving	
2	Analytic	geometry-	Lecture,	Group	
	preliminaries		Discussion,P	roblem	
			solving		
3	Analytic	geometry-	Lecture,	Group	
	preliminaries		Discussion,P	roblem	
			solving		
4	Module 1		Lecture,	Group	
	Tangents in te	rms of their	Discussion,P	roblem	
	slope		solving		
5	Number of tar	ngents from	Lecture,	Group	
	a point		Discussion,P	roblem	
			solving		

6 Orthoptic Lo	cus	Lecture,	Group	
		Discussion,Probl	lem	
		solving		
7 Tangent at a	point	Lecture,	Group	
		Discussion,Probl	lem	
		solving		
8 Chord joinin	g two points,	Lecture,	Group	
tangent , in	tersection of	Discussion,Probl	lem	
tangents and	d normal of a	solving		
parabola				
9 Problems		Group		
		Discussion,Probl	lem	
		solving		
10 Chord joinin	g two points,	Lecture,	Group	
tangent , in	tersection of	Discussion,Probl	lem	
tangents an	d normal of	solving		
an ellipse				
11 Chord joinin	g two points,	Lecture,	Group	
tangent , in	tersection of	Discussion, Probl	lem	
tangents and	normal of a	solving		
hyperbola				
12 Problems		Group		
		Discussion,Probl	lem	
		solving		
13 Chord of cor	tact	Lecture,	Group	
		Discussion,Probl	lem	
		solving		
14 Chord with	a given mid	Lecture,	Group	
point		Discussion,Probl	lem	
		solving		
15 Problems		Group		
		Discussion, Probl	lem	
		solving		
16 Equation of	he polar of a	Lecture,	Group	
given point a	and pole of a	Discussion, Probl	lem	
given line		solving		
17 Conjugate	lines and	Lecture,	Group	
problems		Discussion, Probl	•	
		solving		

18	Conjugate diameters of	Lecture, Group	
	ellipse	Discussion,Problem	
		solving	
19	Properties and problems	Lecture, Group	
		Discussion,Problem	
		solving	
20	Conjugate diameters of	Lecture, Group	
	hyperbola	Discussion,Problem	
		solving	
21	Problems	Group	
		Discussion,Problem	
		solving	
22	Asymptotes	Lecture, Group	
		Discussion,Problem	
		solving	
23	Conjugate hyperbola	Lecture, Group	
		Discussion,Problem	
		solving	
24	Properties and problems	Lecture, Group	
		Discussion,Problem	
		solving	
25	Rectangular hyperbola,	Lecture, Group	
	Parametric coordinates	Discussion, Problem	
		solving	
26	Problems	Group	
		Discussion,Problem	
		solving	
27	Problems	Group	
		Discussion,Problem	
20	Mandada 2	solving	
28	Module 2	Lecture, Group	
	Polar coordinates,	Discussion, Problem	
	distance between the	solving	
20	points, area of a triangle		
29	Equation of a straight		
	line, Parallel lines,	Discussion, Problem	
	perpendicular straight	solving	
20	lines	4 h	
30	Test	1 hour	

31	Equation of a circle	Lecture, Group	
	Equation of a circle	Discussion, Problem	
		·	
32	Problems	solving Group	
32	Problems	·	
		Discussion, Problem	
22		solving	
33	Polar equation of a conic	Lecture, Group	
		Discussion,Problem	
_		solving	
34	Chord of a conic	Lecture, Group	
		Discussion,Problem	
		solving	
35	Tangent and normal of a	Lecture, Group	
	conic	Discussion,Problem	
		solving	
36	Polar of a point with	Lecture, Group	
	respect to a conic	Discussion,Problem	
		solving	
37	Asymptotes of conic	Lecture, Group	
		Discussion,Problem	
		solving	
38	Problems	Group	
		Discussion,Problem	
		solving	
39	Problems	Group	
		Discussion,Problem	
		solving	
40	CIA-1	1 hour	
41	Module 3	Lecture, Group	
	Trigonometry-	Discussion, Problem	
	Introduction	solving	
42	Expansion of sine and	Lecture, Group	
	cosine functions	Discussion, Problem	
		solving	
43	Hyperbolic functions and	Lecture, Group	
	relation connecting	Discussion, Problem	
	hyperbolic and circular	solving	
	functions		
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44	Problems	Group	
		Discussion,Problem	
		solving	
45	Problems	Group	
		Discussion, Problem	
		solving	
46	Separation into real and	Lecture, Group	
	imaginary parts -	Discussion, Problem	
	problems	solving	
47	Problems	Group	
		Discussion,Problem	
		solving	
48	Problems	Group	
		Discussion, Problem	
		solving	
49	Factorisation of x ⁿ -1	Lecture, Group	
		Discussion, Problem	
		solving	
50	Problems	Group	
		Discussion,Problem	
		solving	
51	Factorisation of x ⁿ +1	Lecture, Group	
		Discussion,Problem	
		solving	
52	Problems	Group	
		Discussion,Problem	
		solving	
53	Factorisation of x ²ⁿ -	Lecture, Group	
	2x ⁿ a ⁿ cos nx + a ²ⁿ	Discussion,Problem	
		solving	
54	Problems	Group	
		Discussion,Problem	
		solving	
55	Summation based on	Lecture, Group	
	geometric series -	Discussion,Problem	
	problems	solving	
56	Summation based on	Lecture, Group	
	binomial series -	Discussion,Problem	
	problems	solving	

57	Summation based on	Lecture, Group
	exponential series-	Discussion,Problem
	problems	solving
58	Summation based on	Lecture, Group
	logarithmic series-	Discussion,Problem
	problems	solving
59	Summation based on	Lecture, Group
	hyperbolic series -	Discussion,Problem
	problems	solving
60	Module 4	Lecture, Group
	Rank of a matrix and	Discussion,Problem
	problems	solving
61	Elementary	Lecture, Group
	transformations and	Discussion,Problem
	inverse of Elementary	solving
	transformations	
62	Equivalent matrices	Lecture, Group
		Discussion,Problem
		solving
63	Normal form of a matrix	Lecture, Group
	to find the rank and	Discussion,Problem
	problems	solving
64	Row equivalent canonical	Lecture, Group
	form to find the rank and	Discussion,Problem
	problems	solving
65	System of non	Lecture, Group
	homogenous linear	Discussion,Problem
	equations and matrix	solving
	method to solve	
66	Problems	Group
		Discussion,Problem
		solving
67	Cramer's rule and	Lecture, Group
	problems	Discussion,Problem
		solving
68	System of homogenous	Lecture, Group
	linear equations and	Discussion,Problem
	problems	solving
69	Characteristic equation	Lecture, Group
	of a matrix and roots	Discussion,Problem
		solving

70	Characteristic vectors	Lecture, Group	
	and problems	Discussion,Problem	
		solving	
71	Cayley-Hamilton	Lecture, Group	
	theorem and problems	Discussion,Problem	
		solving	
72	Problems	Group	
		Discussion,Problem	
		solving	
73	CIA-2	2 hours	

		Topic of Assignment & Nature of
	Date of completion	assignment (Individual/Group –
		Written/Presentation — Graded or Non-
		graded etc)
1	21/12/2014	PROBLEMS FROM MODULE-1
2	19/1/2015	PROBLEMS FROM MODULE -2

REFERENCES

- 1. Manicavachagom Pillay, Natarajan–Analytic Geometry (Part I, Two Dimensions)
- 2.S.L.Loney—Plane TrigonometryPart –II, S. Chand and Company Ltd.
- 3. Frank Ayres Jr-Matrices, Schaum's Outline Series, TMH Edition.

PROGRAMME	BACHELOR OF MATHEMATICS	SEMESTER	2
COURSE CODE AND TITLE	U2CPPHY2: ELECTRIC AND MAGNETIC PHENOMENA, THERMODYNAMICS AND SPECIAL THEORY OF RELATIVITY	CREDIT	2
THEORY HOURS/WEEK	2	HOURS/SEM	36
FACULTY NAME	DR. ROBY CHERIAN &DR. SUMOD S.G		

COURSE OBJECTIVES
Analyzing the concepts Dielectrics
Apply the concepts Magnetic materials
Introduce the role of equilibrium thermodynamics
Applying the concepts of Special theory of relativity

SESSION	TOPIC	LEARNING RESOURCES	REMARKS
	MODULE I	-	
1	Dielectrics- polar and non-polar dielectrics	Lect	
	polarization- sources of	Lect+PPT	
2	polarization		
		Lect + Group	
3	Gauss's law in dielectrics + Problem solving	Activity	
4	permittivity	Lect	
	dielectric displacement	Lect	
5	vector- dielectric constant		
6	susceptibility- ferroelectricity	Lect	
7	Dielectrics- polar and non-polar dielectrics	Lect	
		Group	
8	Problem Solving	Activity	
9	Magnetization in materials	Lect	
10	linear and non-linear materials-	Lect+PPT	
11	Diamagnetism paramagnetism	Lect	
12	ferromagnetism- hysteresis	Lect	
13	FerromagneticDomains antiferromagnetism	Lect	
14		Group	
	Problem Solving	Activity	

15	Thermodynamic systems- thermodynamic	
	equilibrium	Lect
16	thermodynamic	Lect
	processes- isothermal process- adiabatic	
	process	
17	zeroth law of thermodynamics	Lect
18	first law of thermodynamics	Lect
19	heat engine	Lect
20	heat engine	Lect+Video
21	the Carnot engine	Lect+PPT
22		Lect + Group
	the Carnot engine + Problem solving	Activity
23	refrigerator concept of entropy-	Lect
24	second law of thermodynamics	Lect
25	- third law of thermodynami	Lect
26	Maxwell's thermodynamic relations.	Lect
	MODULE II	
27	Special theory of relativityIntroduction	Lect
28	Galilean transformation	Lect
29	Newtonian principle of relativity	Lect+PPT
30	Special theory of Relativity-Conceptual	Lect
	Description	
31	postulates: Explanation with discussion on its	Lect
	implications	
32	Lorentz transformation- Derivation, Length	Lect
	Contraction	_
33		Lect + Group
	Time dilation –Concept and derivation	Activity
34	relativity of simultaneity, addition of	Group
	velocities-	Activity
35	relativistic mass transformations	Lect
36	mass energy relation and Problem solving and	Lect
i	revision	

		Topic of Assignment & Nature of
	Date of	assignment (Individual/Group –
	completion	Written/Presentation – Graded or Non-
		graded etc)
1	20/12/2014	Dielectrics in daily life
2	20/1/2015	Applications of ferromagnetic materials

GROUP ASSIGNMENTS- Details & Guidelines

	Date of completion	Topic of Assignment & Nature of assignment (Individual/Group – Written/Presentation – Graded or Non-graded etc)	
1	Class activity	Thermodynamics related problem solving (Group	
1	in Feb 2015	Discussion)	

REFERENCES

- 1. Introduction to Modern Mathematics- H.S. Mani and G.K. Mehta (Affiliated East West press Pvt. Ltd)
- 2. Concepts of Modern Mathematics- A. Beiser (Tata McGraw-Hill, 5th Edn.)
- 3. Modern Mathematics- R. Murugeshan (S. Chand and Co.)
- 4. Introduction of Electrodynamics- D.J. Griffiths (PHI Pvt. Ltd)
- 5. Modern Mathematics- G.Aruldas and P.Rajagopal (PHI Pub)
- 6. Thermodynamics- Zemansky and Dittmann (Tata McGraw-Hill)
- 7. Heat and Thermodynamics- Brijlal and Subrahmanyam (S. Chand &Co)

PROGRAMME	BACHELOR OF MATHEMATICS	SEMESTER	2
COURSE CODE AND TITLE	U2CRSTA02: PROBABILITY AND STATISTICS	CREDIT	3
HOURS/WEEK	4	HOURS/SEM	60

COURSE OBJECTIVES

Analyse different approaches to probability - their properties, Addition & Multiplication theorem, Theorem of total probability.

Introduce random variables, probability distributions - their properties, distribution functions, Reliability functions, change of variables (univariate case only).

Comprehend joint distribution of a pair of random variables, marginal & conditional distributions, independence of random variables.

apply the concepts of correlation - its properties, different measures of correlation.

Introduce the regression equations - their identification, Probable error, Coefficient of determination, Linear regression (Three variable case), partial & multiple correlations - their expressional properties (no derivation).

SESSI ON	TOPIC	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
	<u> </u>			
1	Random Experiments, sample space	PPT	video	
2	Events, Algebra of events	PPT/Lecture		
3	Borel field of events. Approaches to probability	PPT/Lecture		
4		PPT/Lecture	e-	
	Statistical definition of probability		resource	
5	Classical definition of probability	PPT/Lecture		
6	Axiomatic definition of probability	PPT/Lecture		
7	Addition theorem on probability, conditional probability	Lecture		
8	Independence of events	Lecture		
9	Problems	Lecture		
10	Problems	Lecture		
11	Theorem of total probability	PPT/Lecture		
12	Properties, Problems	PPT/Lecture		
13	Bayes theorem	PPT/Lecture		

14	Problems			
15	Random variables	PPT/Lecture		
16	Probability distribution of discrete random	Lecture		
	variables, properties			
17	Probability distribution of continuous random	Lecture		
	variables, properties			
18	Distribution function	Lecture		
19	Problems	Lecture		
20	Joint distribution of a pair of random	PPT/Lecture		
	variables,			
21	marginal and conditional distributions	PPT/Lecture		
22	Problems			
23	Independence of random variables	PPT/Lecture		
24	Problems	Lecture		
25	Correlation and its properties	Lecture		
26	Rank correlation			
27	Regression equations	Lecture		
28	Coefficient of determination	Lecture		
29	Partial and multiple correlation	PPT/Lecture		
30	Properties	PPT/Lecture		
31	Reliability functions	PPT/Lecture		
32	Change of variables			
	Problems			
	Joint distribution of a pair of random	PPT/Lecture		
33	variables			
34	Problems	PPT/Lecture		
35	Properties of joint p.d.f	PPT/Lecture		
36	Problems	Lecture	Quiz	
	Distribution functions	Lecture	Q & Ans	
37			Session	
38	Marginal distribution	PPT/Lecture		
39	Problems	PPT/Lecture		
40	Conditional distribution	PPT/Lecture		
41	Problems	PPT/Lecture		
42	Independence of random variables	Lecture		
43	Problems			
44	Correlation	PPT/Lecture		
45	Types of correlations	PPT/Lecture		
46	Correlation coefficient	PPT/Lecture		

47	Properties of correlation coeff.	PPT/Lecture		
48	Problems	PPT/Lecture		
49	Rank correlation	PPT/Lecture		
50	Problems	PPT/Lecture		
51	Regression	PPT/Lecture		
52	Properties	PPT/Lecture	Video	
53	Multiple regression	PPT/Lecture		
54	Examination	PPT/Lecture		
55	Partial and multiple correlation			

	Topic of Assignment & Nature of assignment
	(Individual/Group – Written/Presentation – Graded or Non-
	graded etc)
1	Problems ON CORRELATION COEFFICIENT
2	Problems using PROBABILITY AND BAYES THEOREM

REFERENCES:

- 1. S.P.GUPTA STATISTICAL METHODS
- 2. S.C.GUPTA, V.K.KAPOOR FUNDAMENTALS OF MATHEMATICAL STATISTICS
- **3.** B.L.AGARWAL BASIC STATISTICS