

# **GOVT. P.G. COLLEGE FOR WOMEN, ROHTAK**



**LESSON PLANS**  
**ODD & EVEN SEMESTER**  
**2023-24**

# **Govt PG College for Women, Rohtak**

## **Dept of English**

### **Lesson plan for the Academic session: 2023-24**

Class – BA 1<sup>st</sup> Year 2<sup>nd</sup> Sem. Text

Subject: English

Assistant/Associate Professor: Ms. Niti Ahlawat, Ms.Minakshi, Ms. Meenu,Ms. Sonu, Ms. Sushma, Ms. Deeksha, Ms. Sonam, Ms. Tamanna

1. Week 1 : Introduction to the Syllabus,Ch-1 Text “Pigeons at Daybreak”  
Textual Exercise and Extended Grammar
2. Week 2 : Ch-2 Text “With the Photographer”  
Textual Exercise and Extended grammar
3. Week 3 : Ch-3 Text “The Journey”  
Textual Exercise and Extended Grammar
4. Week 4: Ch-4 Text “The Refugee”  
Textual Exercise and Extended Grammar
5. Week 5: Ch-5 Text “Bellows for the Bullock”  
Textual Exercise and Extended Grammar
6. Week 6: Assignment and Test
7. Week 7:Ch-6 Text “Panchlight”  
Textual Exercise and Extended Grammar
8. Week 8:Ch-7 “The Child”  
Textual Exercise and Extended Grammar
9. Week 9: Ch-8 Text “The Blind Dog”  
Textual Exercise
10. Week 10: Extended Grammer of Ch-8
11. Week 11: Glossary & Phonetic Transcription
12. Week 12: Test & Assignment
13. Week 13: Synonyms & Antonyms
14. Week 14: Revision of Short (Q/A) & Long (Q/A)
15. Week 15: Revision

Govt P.G. College for Women, Rohtak

Weekly Lesson Plan (w.e.f. Jan. 2024 to April 2024)

**Class : BA I (English Hon's) Semester 2**

**Paper : Introduction to Drama and Related Literary Terms**

**Teacher : Mrs. Savita Thakran**

S.No.	Week	Topic
1	Week 1	Introduction to Drama and Other Literary Terms
2	Week 2	Introduction to Life and Works of Anton Chekov,
3	Week 3	Dramatis Personae and story outline of the play <b>The Marriage Proposal</b>
4	Week 4	Analysis of <b>The Marriage Proposal</b> (contd.)
5	Week 5	Introduction to Life and Works of Rabindranath Tagore
6	Week 6	Story outline and Dramatis Personae of the play <b>The Post Office</b>
7	Week 7	Explanation and Analysis of <b>The Post Office</b>
8	Week 8	<b>The Post Office</b> (contd.)
9	Week 9	Introduction to Life and Plays of <b>William Shakespeare</b>
10	Week10	Dramatis Personae and Story outline of the play <b>The Merchant of Venice</b>
11	Week 11	Explanation and Critical Analysis of the play <b>The Merchant of Venice</b>
12	Week12	Discussion on important topics on the play <b>The Merchant of Venice</b>

<b>13</b>	Week 13	Discussion on L.A.Q. and S.A.Q
<b>14</b>	Week 14	Assignments 1& 2
<b>15</b>	Week 15	Test and Presentations

**Submitted by:**

**Savita Thakran**

**Associate Professor (Department of English)**

# Lesson Plan Even Semester (2023-2024)

## B A I English (Hons.)

### From 1 Jan. to 30 April 2024

**Course: Introduction to Prose**  
**Paper 5**

**Teacher's Name – Renu Singh**

Sr.	Week	Topics
1	1-6 Jan	"Of Revenge" - Francis Bacon
2	8-13 Jan.	"On Dreams - Thomas Brown
3	15-20 Jan.	"Sir Roger in Church" - Joseph Addison
4	22-27 Jan.	"A Treatise on Good Manners and Good Breeding" - Jonathan Swift
5	29 Jan-3 Feb.	"Dignity and Uses of Biography" - Samuel Johnson
6	5-10 Feb.	"On National Prejudices"- Oliver Goldsmith
7	12-17 Feb.	"The True Critic" - Oscar Wilde  Precis Writing
8	19-24 Feb.	"On Being Modern Minded"-Bertrand Russell
9	26-2 March	"The Death of the Moth" - Virginia Woolf  Discussion and allotment of Topics for Assignment
10	4-9 March	"Meditation on the Moon" - Aldous Huxley
11	11-16 March	"From Evolution and Ethics" - T.H. Huxley  Discussion on Critical Appreciation of a Prose Passage
12	18-22 March	"Columbus and Crusoe" - V.S. Naipaul
13	1-6 April	Test and Assignment Presentation
14	8- 13 April	Assignment Presentation
15	15-30 April	Assignment Presentation & Revision

**Lesson plan (2023-24)**  
**B.A. I English Hons. 2nd Semester**  
**Course-VIII**  
**Essentials of Communication**

Week	Topic
Week 1	Unit-I Nature and objectives of communication
Week 2	Process of communication
Week 3	Principles of Effective Communication
Week 4	Barriers to communication: Wrong choice of medium, Physical barriers
Week 5	Semantic barriers, Socio-physiological barrier and Test of the complete unit
	Unit-II Communicative Grammar and Lexis
Week 6	Common Errors
Week 7	Contd. Common Errors and Test
Week 8	Foreign Words: Ab initio, ad hoc, agenda, alma mater, anno domini, bon ami, bonafide, bonhomie, bon jour, bourgeoisie, de facto, de jure, en masse, en route, et cet era, ex parte, exempli gratia, homo sapiens, etc.
	Unit-III Communication through Mass Media
Week 9	Introduction of Basic understanding of role of information and media in detail
Week 10	Newspapers, radio, television, computers, internet, multimedia
Week 11	Reviewing T.V. Programme
Week 12	Revision of unit 1
Week 13	Revision of unit 2
Week 14	Revision of unit 3
Week 15	Test, assignment and presentation

<b>Lesson Plan for Session 2023-24 (Even Semester)</b> <b>Department of English</b> <b>Class: B.Sc. I (Med)</b> <b>Teacher Name: Ms Neeti</b>		
<b>Paper: English</b>		
<b>Sr. No</b>	<b>Date</b>	<b>Topic</b>
1	1-01-2024 to 13-01-2024	Introduction to the syllabus, CH-1 Text "Our Civilization"
2	15-01-2024 to 20-01-2024	Chapter 1 Glossary and Questions
3	22-01-2024 to 27-01-2024	Chapter 2 Text "Its question time" reading and analysis
4	29-01-2024 to 03-02-2024	Glossary and Questions of chapter 2
5	05-02-2024 to 10-02-2024	Practice of exercise of chapter 2
6	12-02-2024 to 17-02-2024	Chapter 3 Text "An Interview with Christiaan Bernard", Glossary and Questions
7	19-02-2024 to 24-02-2024	Chapter 4 Text "Untouchability and the Caste System", Glossary and Questions
8	26-02-2024 to 02-03-2024	Chapter 5 Text "Inhumanisation of War", Glossary and Questions
9	04-03-2024 to 09-03-2024	Chapter 6 Text "Seven types of Gender Inequality", Glossary and Questions
10	11-03-2024 to 16-03-2024	Grammar: Official Correspondence: letter writing
11	18-03-2024 to 22-03-2024	Practice of letter writing
12	01-04-2024 to 06-04-2024	Translation

13	08-04-2024 to 13-04-2024	Precis writing
14	15-04-2024 to 20-04-2024	Revision
15	22-04-2023 Onwards	Test and assignment

<b>Lesson Plan for Session 2023-24 (Even Semester)</b> <b>Department of English</b> <b>Class: B.Sc. I (Non.Med)</b> <b>Teacher Name: Ms. Jyoti Hooda, Dr.Minakshi</b> <b>Paper: English</b>	
<b>Date</b>	<b>Topic</b>
01-01-2024 to 13-01-2024	Introduction to the syllabus, and books and authors
15-01-2024 to 20-01-2024	CH-1 Text "Our Civilization reading and analysis
22-01-2024 to 27-01-2024	Chapter 1 Glossary and Questions
29-01-2024 to 03-02-2024	Chapter 2 Text "Its question time", Glossary and Questions
05-02-2024 to 10-02-2024	Exercise of Chapter 2
12-02-2024 to 17-02-2024	Chapter 3 Text "An Interview with Christiaan Bernard", Glossary and Questions
19-02-2024 to 24-02-2024	Chapter 4 Text "Untouchability and the Caste System", Glossary and Questions
26-02-2024 to 02-03-2024	Chapter 5 Text "Inhumanisation of War", Glossary and Questions
04-03-2024 to 09-03-2024	Chapter 6 Text "Seven types of Gender Inequality", Glossary and Questions

11-03-2024 to 16-03-2024	Grammar: Official Correspondence: letter writing
18-03-2024 to 22-03-2024	Practice of letter writing
01-04-2024 to 06-04-2024	Translation
08-04-2024 to 13-04-2024	Precis writing
15-04-2024 to 20-04-2024	Revision
22-04-2023 Onwards	Test and assignment

**Govt. P.G. College for Women, Rohtak**

**LESSON PLAN for the Academic Session: 2023-24 (Jan. to April 2024)**

Class: B.Sc. I Sem II (Physics Hons.)

Subject: English

Assistant Professor: Mrs. Meenu

S. No.	Week	Topics Covered
1	Week 1	Introduction to the syllabus, CH-1 Text "The Bet", Suggested short & long Q/A
2	Week 2	Chapter 2 Text "The Gift of the Magi", Suggested short & long Q/A
3	Week 3	Holi Vacations
4	Week 4	Chapter 3 Text "Three Questions", Suggested short & long Q/A
5	Week 5	Revision of Chapter 1,2 & 3
6	Week 6	Chapter 4 Text "Under the Banyan Tree", Suggested short & long Q/A
7	Week 7	Grammar – Synonyms , Antonyms
8	Week 8	Prefix – Suffix, Homophones and homonyms
9	Week 9	One word substitution, Theme based paragraphs
10	Week 10	Email Writing, Reporting, Resume writing
11	Week 11	Reviewing TV Programs

12	Week 12	Revision
13	Week 13	Test & Assignment Submission
14	Week 14	Revision
15	Week 15	Revision

**Govt. P.G. College for Women, Rohtak**

**LESSON PLAN for the Academic Session: 2023-24 (Jan. to April 2024)**

Class: B.Sc. I Sem II ( H. Sc. Hons.)

Subject: English

Assistant Professor: Mrs. Meenu

Week	Topics Covered
Week 1	Introduction to the syllabus, CH-1 Text "The Bet", Suggested short & long Q/A
Week 2	Chapter 2 Text "The gift of the Magi", Suggested short & long Q/A
Week 3	Chapter 3 Text "The Postmaster", Suggested short & long Q/A
Week 4	Chapter 4 Text "Three Questions", Suggested short & long Q/A
Week 5	Revision of Chapter 1,2 & 3
Week 6	Chapter 5 Text "The Dying Detective ", Suggested short & long Q/A
Week 7	Chapter 6 Text "Under the Banyan Tree ", Suggested short & long Q/A
Week 8	Grammar – Synonyms , Antonyms
Week 9	Prefix – Suffix, Homophones and homonyms
Week 10	One word substitution, Theme based paragraphs
Week 11	Email Writing, Reporting, Resume writing
Week 12	Reviewing TV Programs
Week 13	Revision
Week 14	Test & Assignment Submission
Week 15	Revision

**Govt PG College for Women Rohtak**

**Lesson Plan for the academic year 2023-24 from Jan to April 2024**

**B.SC. I Mathematics Hons, (SECOND SEM) Qualifying Paper**

**SUBJECT – ENGLISH**

**TEACHER – Ms DEEKSHA**

<b>Sr.No</b>	<b>Week</b>	<b>Topic</b>
1.	Jan Week 1	“The Bet” by Anton Chekhov, Introduction to the writer and story. Story Reading and discussion on Questions answers.
2.	Week 2	“Gift Of the Magi” by O Henry, Introduction to the writer and story. Story Reading and discussion on Questions answers.
3	Week 3	“The Postmaster” by Rabindranath Tagore, Introduction to the writer and story. Story reading and discussion on Questions answers.  “Three Questions” by Leo Tolstoy, Introduction to the writer and story. Story reading and discussion on Questions answers.
4	Week 4	“The Dying Detective” by Arthur Canan Doyle, Introduction to the writer and story. Story reading and discussion of Questions answers.
5	Week 5	“Under The Banyan Tree” by RK Narayan, Introduction to the writer and story. Story Reading and discussion of Questions answers.  Grammar and Writing Skills Practice of Antonyms and Synonyms. Prefix and Suffix
6	FEB Week 1	Introduction and analysis of One Word Substitution and  Homophones and Homonyms  Developing writing skills, Technical writing:- Email writing, Report writing.
7	Week 2	Developing writing skills – Resume writing, and Book Review
8	Week 3	Revision of the story “The Bet” Revision of Question answers. Test.

9	Week 4	Revision of the story “Gift of the Magi” Revision of Question answers. Group Discussion
10	MARCH Week 1	Revision of “The Postmaster”. Revision of Question answers. Test of the story.
11	Week 2	Revision of the story “Three Questions” Revision of Question answers. Test of the story. Group Discussion
12	Week 3	Revision of the story “Three Dying Detective” Revision of Question answers. Test of the story
13	April Week 1	Revision of “Under The Banyan Tree”. Revision of Question answers. Group Discussion
14	Week 2	Revision of Grammar and submission of Assignments
15	Week 3	Oral And Written Tests

Govt. PG College for Women, Rohtak Weekly Lesson Plan for English as  
Qualifying Paper for Hons. Classes 2023-24

Week 1– Introduction to the syllabus, CH-1 Text “The Bet”

Week 2 - Suggested short & long Q/A of Ch. 1

Week 3 – Chapter 2 Text “The gift of the Magi”

Week 4 – Suggested short & long Q/A of Ch. 2

Week 5 – Chapter 3 Text “The Postmaster”

Week 6 - Suggested short& long Q/A of Ch. 3

Week 7 - Chapter 4 Text “Three Questions ”

Week 8 - Suggested short & long Q/A of Ch. 4

Week 9 - Chapter 5 Text “The Dying Detective”

Week 10 - Suggested short & long Q/A of Ch. 5

Week 11 - Chapter 6 Text “Under the Banyan Tree”, Suggested short & long Q/A

Week 12 - Grammar : Synonyms , Antonyms,Prefix-Suffix

Week 13 – Homophones and homonyms, One word substitution

Week 14 – Theme based paragraphs , E-mail Writing

Week 15 – Reporting, Resume writing, Reviewing TV Programmes

- Test and submission of assignments

### **Govt PG College for Women, Rohtak**

#### **LESSON PLAN of BA II PASS COURSE 4<sup>TH</sup> SEM (from Jan-April 2024)**

TEACHERS: MS SAVITA THAKRAN, MS RENU SINGH, MS KIRAN SHARMA, MS SURAJMUKHI, MS ABHILASHA ROHILLA, MS JYOTI HOODA, MS SONU, MS TAMANNA

Subject: **English**

Paper: **EN04**

Session: **2023-24**

Sr No	Week	Topic
1	JAN 1	Introduction to Poetry and explanation of different poetic forms and devices
2	JAN 2	Poetry and its forms
3	JAN 3	Reading and analysis of Sonnet XVIII by William Shakespeare
4	JAN 4	Critical analysis of the usage of different poetic devices in the sonnet Discussion of question answers and explanation of literary devices Grammar: Prefixes and Suffixes
5	JAN 5	Reading and critical analysis of Know Then Thyself by Alexander Pope Discussion of question answers Grammar: Introduction to Verb Patterns
6	FEB 1	Reading and critical analysis of <i>Elegy Written in a Country Churchyard</i> by Thomas Gray Discussion on the mood and context of the poem Grammar: Illustration of Verb Patterns
7	FEB 2	Reading and critical analysis of <i>Elegy Written in a Country Churchyard</i> by Thomas Gray Discussion on the mood and context of the poem Grammar: Exercise and Practice of Verb Patterns
8	FEB 3	Reading and critical analysis of <i>The World is Too Much with Us</i> by William Wordsworth and <i>Ode on a Grecian Urn</i> by John Keats. Discussion of question answers Grammar: Introduction to Clauses and its different types
9	FEB 4	Reading and critical analysis of <i>My Last Duchess</i> by Robert Browning Discussion on his style and poetic devices
10	MARCH 1	Discussion of question answers Grammar: Illustration and exercise of Clauses Grammar: Prepositions I
11	MARCH 2	Reading and critical analysis of <i>When You are Old</i> by W.B. Yeats Discussion of question answers Grammar: Introduction to Non-Finites: Gerund, its rules, and exercise
12	MARCH 3	Reading and critical analysis of <i>Where the Mind is Without Fear</i> by Rabindranath Tagore Discussion of question answers and poetic devices and style Grammar: Introduction and illustration of Non-Finites: Infinitive, its rules, and exercise
13	April 1	Reading and critical analysis of <i>The Bangle Sellers</i> by Sarojini Naidu

		Discussion of question answers and poetic devices and Style Grammar: Practice of Non-Finites
14	April 2	Reading and critical analysis of Another Woman by Imtiaz Dharker Discussion of question answers and poetic devices and style
15	April 3	Grammar: Practice of Non-Finites Revision of Textbook Revision of Grammar <b>Tests and submission of assignments</b>

### **Session 2023-2024**

#### **Lesson Plan from January-2024 to April- 2024 Class B.A.II (English Hons.) Sem - IV (Even Sem.)**

#### **Paper - XVII**

**Subject: English Poetry (1660-1798)**

**Teacher: Dr. Jyoti**

**Hooda**

Week	Month	Topics
1	January	Introduction to Neoclassical Period, Restoration age and Poetry in Restoration age
2	January	Unit-1- Poem- John Dryden's Mac Flecknoe
3	January	Poem-Mac Flecknoe
4	January	John Dryden's Poem- A Song for Cecilia's Day
5	January	Poem- A Song for Cecilia's Day
6	February	Unit-II - Introduction to the poet Alexander Pope
7	February	Alexander Pope's Poem- Essay on Man (extracts) Epistle 2
8	February	Poem - Essay on Man (extracts) Epistle 2
9	February	Group discussion and Class Test
10	March	Unit-III -Charlotte Smith's Sonnet: To A Nightingale
11	March	Charlotte Smith's -Sonnet: To Solitude
12	March	Mary Robinson's poem - Life
13	April	Sarah Dixon's poem- The Return'd Heart
14	April	Mary Montagu's poem - The Lover, A Ballad

15	April	Mary Leapor's poem - An Epistle To A Lady Presentations and assignment, Revision
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**Note: This is tentative lesson Plan.**

Govt. P.G. College for Women, Rohtak

Dept. of English

Tentative Lesson Plan: Session 2023-24

Class: B.A. II year (English Hons.) Sem. IV

Paper: History of English Drama and Prose (1660 - 1798)

Teacher's Name: Niti Ahlawat

Weeks	Topics to be covered
1	Unit 1 Love for Love
2	Do...
3	Do...
4	Do..
5	Unit 2 The School of Scandal
6	Do...
7	Do...
8	Do...
9	Introduction of Steel and Addison
10	Essay no.1 and 2
11	Essay no.10 and 39
12	Essay no.40 and 42
<u>13</u>	<u>Essay no.68 and 82</u>
<u>14</u>	<u>Essay no.144</u>

15	Revision, Test, submission of assignments and presentations by the students
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<p align="center"><b>Lesson Plan for Session 2023-24 (Even Semester)</b>  <b>Department of English</b>  <b>Class: B.A. II year (English Hons.) Sem. IV</b></p> <p align="center"><b>Teacher Name: Ms. Minakshi</b>  <b>Paper: History of English Literature (1660 - 1798)</b></p>	
Date	Topic
01-01-2024 to 13-01-2024	Introduction to Restoration period
15-01-2024 to 20-01-2024	Features and literary trends of the Restoration era.
22-01-2024 to 27-01-2024	Comedy of Manners, Heroic Tragedy, Introduction to Restoration Prose.
29-01-2024 to 03-02-2024	Restoration Satire, Introduction to history of 18th century literature
05-02-2024 to 10-02-2024	Literary trends in 18th century literature, 18th century: an Age of Prose and Reason
12-02-2024 to 17-02-2024	Neoclassical poetry, English verse, Satire in 18th century, the Periodical Essays.
19-02-2024 to 24-02-2024	Decline of Drama in 18th century, rise of novel, introduction to Pre - Romantic age.
26-02-2024 to 02-03-2024	Novel in the Pre - Romantic age, Heroic Couplet, Verse and Satire, Poetic diction
04-03-2024 to 09-03-2024	Discussion on 18th century literature, non - detailed study (Authors: Edmund Walter, Thomas Otway, John Locke, Aphra Behn, Jonathan Swift, Thomas Parnell)
11-03-2024 to 16-03-2024	James Thomson, George Crabbe, Robert Burns, Dr. Samuel Johnson, Sarah Fielding
18-03-2024 to 22-03-2024	Literary works (Non - Detailed) – Hudibras, The Pilgrim's Progress, Alexander's feast
01-04-2024 to 06-04-2024	Literary works (Non - Detailed) – Hudibras, The Pilgrim's Progress, Alexander's feast

08-04-2024 to 13-04-2024	Elegy Written in a Country Churchyard, Decline and fall of Roman Empire, The History of England
15-04-2024 to 20-04-2024	The Wealth of Nations, Preface to Shakespeare, Clarissa Harlowe, <u>The Life of Johnson, A Vindication of the Rights of Women</u>
22-04-2023 Onwards	<u>Test and assignment.</u>

### **Lesson Plan for Session 2023-24 (Even Semester)**

**Department of English**

**Class: B. A.II (English Honours) sem IV**

**Teacher Name: Dr.Abhilasha**

**Paper: English Novel**

<b>Sr no</b>	<b>Weeks</b>	<b>Topics</b>
1	01-01-2024 to 13-01-2024	Introduction to the Genre Novel
2	15-01-2024 to 20-01-2024	Novel- Oroonoko
3	22-01-2024 to 27-01-2024	Introduction to the Age and the author
4	29-01-2024 to 03-02-2024	Discussion on the Summary, themes and characters of the Text Text & Critical Evaluation (page 1-15)
5	05-02-2024 to 10-02-2024	Text reading & Critical Evaluation (page 16-40) Discussion on S.A.Q
6	12-02-2024 to 17-02-2024	Text reading & critical evaluation (page41-65) Discussion on S.A.Q. and L.A.Q.
7	19-02-2024 to 24-02-2024	Novel- Shamella
8	26-02-2024 to 02-03-2024	Novel- Shamella
9	04-03-2024 to 09-03-2024	1) Textual interpretation with literary devices 2) Text will be continued with thematic aspects Introduction to the author, summary, themes and characters Text reading and critical evaluation (page310-325) Discussion on S.A.Q.
10	11-03-2024 to 16-03-2024	Text reading and critical evaluation (page 326-343) Discussion on S.A.Q. and L.A.Q
11	18-03-2024 to 22-03-2024	Novel –Moll Flanders Introduction to the author, summary, themes and characters

12	01-04-2024 to 06-04-2024	Text reading and critical evaluation Discussion on S.A.Q. and L.A.Q
13	08-04-2024 to 13-04-2024	Text reading and critical evaluation Discussion on S.A.Q. and L.A.Q
14	15-04-2024 to 20-04-2024	Tests, Submission of Assignments and Presentations by students
15	22-04-2023 Onwards	Test and revision

**Govt. P.G. College for Women, Rohtak**

**Lesson Plan for the Session: 2023-24 (Jan. to April 2024)**

**Associate/ Assistant Prof. Names:** Dr. Renu Singh, Dr. Kiran Sharma, Dr. Surajmukhi Yadav, Dr. Abhilasha Rohilla, Dr. Sushma

**Class:** BA III Pass Course **Sem:** 6

**Subject:** ENGLISH **Book Prescribed:** Merchant of Venice

Week	Topic
1	Introduction to Drama and Basic elements of theatre, The Aristotelian Poetics; Origin and growth of English Drama; Growth of Elizabethan Theatre
2	Types of Drama
3	Introduction to the playwright: William Shakespeare and brief summary of the play. Reading and critical analysis of Act 1 Scene 1 Discussion on questions.
4	Reading and critical analysis of Act 1 Scene 2 Practice of one word substitution Discussion on questions.
5	Reading and critical analysis of Act 1 Scene 3 Learning to write summary. Discussion on questions.
6	Reading and critical analysis of Act 2 Scene 1,2 Discussion on questions.
7	Reading and critical analysis of Act 2 Scene 3,4 Discussion on questions.
8	Reading and critical analysis of Act 2 Scene 5

	Discussion on questions.
9	Test Reading and critical analysis of Act 3 Scene 1,2 Discussion on questions.
10	Reading and critical analysis of Act 3 Scene 3 Discussion on questions.
11	Reading and critical analysis of Act 3 Scene 4,5 Discussion on questions. Practice of comprehension passage
12	Reading and critical analysis of Act 4 Scene 1,2 Discussion on questions.
13	Reading and critical analysis of Act 4 Scene 3,4 Discussion on questions. Learning to write an official letter.
14	Revision, test and submission of assignments
15	Revision

### LESSON PLAN

**Academic Session: 2023-24 (Jan. to April 2024)**

**Subject: English**

**Class: BAIII (English Hons.) Sem VI**

**Paper: Poetry**

**Associate Professor: Dr. Kiran Sharma**

Week	Topics
1	Defining Poetry, detailed description of W. B. Yeats and his age. Discussion on major themes and works.
2	Summary and explanation of "Sailing to Byzantium". Detailed summary and explanation of "Easter 1916" and "The Second Coming".
3	Detailed summary and explanation of "Among School Children" and discussion on questions based on W. B. Yeats and prescribed poems.
4	Introduction of Philip Larkin and his works. Discussion on Postmodernism and The Movement Poetry.

	Summary and explanation of “Ambulances”.
5	Summary and explanation of “Church Going”, “MCMXIV” and “The Explosion”.
6	Discussion on questions based on Philip Larkin and his prescribed poems.
7	Introduction of W. H. Auden and his works. Discussion on war poets.
8	Detailed summary and explanation of “Lullaby” and “As I walked Out one Evening”.
9	Detailed summary and explanation of “The Shield of Achilles” and “The Unknown Citizen”.
10	Discussion on questions based on W. H. Auden.
11	Revision
12	Revision
13	Revision
14	Revision
15	Test and submission of assignments

**LESSON PLAN for the session 2023-24 (Even Sem) from Jan to April 2024**

**Assistant Professor: Mrs. Meenu**

**Class: BA III ENGLISH HONS Sem: VI**

**Subject: English**

**Paper: History of English Literature**

**Book Prescribed: A New History of English Literature by Dr. B.S. Dahiya**

Week	Topics
1	Socio- Historical Background to 20 <sup>th</sup> century
2	Early 20 <sup>th</sup> C. Poetry
3	War Poets
4	Poets of 1930s
5	Poetry after 1930s
6	Prose of 20 <sup>th</sup> century
7	Early 20 <sup>th</sup> C. Novel
8	Early 20 <sup>th</sup> C. Novel contd.
9	Novel after 1950

10	Novel after 1950 cont.
11	Revival of Drama in later 19th century
12	Irish Theatre
13	Poetic drama
14	Theatre of Absurd
15	Revision, Test, Submission of assignments

<b>Lesson Plan for Session 2023-24 (Even Semester)</b> <b>Department of English</b> <b>Class: B. A. Final Year,(English Honours)</b> <b>Teacher Name: Dr.Abhilasha</b> <b>Paper: English Drama</b>	
<b>Date</b>	<b>Topic</b>
01-01-2024 to 13-01-2024	Introduction of English Drama
15-01-2024 to 20-01-2024	Historical, Political, literary, contexts Thematic Aspects with examples
22-01-2024 to 27-01-2024	Concept and Definition of Modern Drama, Theatre of Absurd, Modern Play 2) Introduction of John Osborne's 'Look back in anger' with contemporary Literary features and characters. 3) Textual Interpretation of Act 1 with Literary devices 4) Textual Interpretation of Act 2 with literary devices
29-01-2024 to 03-02-2024	1) Act 3 textual and critical explanation 2) Symbolism, Significance of title, Thematic Aspects will be discussed from Exam Point of View
05-02-2024 to 10-02-2024	1) Introduction to T. S. Eliot as Modern Playwright, Poet and critic with reference to Contemporary

	<p>Scenario</p> <p>2) Discussion on Thematic Aspects of the play; Musical, Historical, Modern Play.</p> <p>3) Textual interpretation of the play with characters</p> <p>4) Textual Critical Interpretation with literary devices</p>
12-02-2024 to 17-02-2024	<p>1) Critical Textual Interpretation with religious, Mythological references</p> <p>2) Acknowledging students to textual and critics' citation</p> <p>3) Examination questions will be discussed</p>
19-02-2024 to 24-02-2024	<p>1) Discussion on previous year question papers</p> <p>2) Motivate the students to get help from Internet Access to update themselves for prescribed syllabus</p>
26-02-2024 to 02-03-2024	<p>1) Introduction to the last prescribed text: ST. JOHN by Dr. G. B. Shaw</p> <p>2) Introduction to the contemporary scenario of text to the</p> <p>1) Introduction to the last prescribed text: ST. JOHN by Dr. G. B. Shaw</p> <p>2) Introduction to the contemporary scenario of text to the students</p>
04-03-2024 to 09-03-2024	<p>1) Textual interpretation with literary devices</p> <p>2) Text will be continued with thematic aspects</p> <p>3) Concepts of French Revolution and Feudalism, Law of Liberty, Equality and Fraternity</p>
11-03-2024 to 16-03-2024	

	1) Acknowledgement of quotations; Textual and Critical 2) Relevance of quotations citations in exams. 3) Questions from examination point of view will be discussed
18-03-2024 to 22-03-2024	1) Completion of texts 2) Doubts will be cleared of students 3) Key points will be discussed for effective Answers in exams.
01-04-2024 to 06-04-2024	1)Revision of first text from exam point of view. 2) Guidance for preparation of assignments
08-04-2024 to 13-04-2024	1)Revision of first text from exam point of view. 2) Guidance for preparation of assignments
15-04-2024 to 20-04-2024	Tests, Submission of Assignments and Presentations by students
22-04-2023 Onwards	Test and revision

**GOVERNMENT PG COLLEGE FOR WOMEN, ROHTAK**

**LESSON PLAN for the session 2023-24 (Even Sem) from Jan to April 2024**

**Dept. of English**

**Class: BA III English Hons.**

**Teacher: Deeksha**

**Paper: Novel**

**Class: BA III English Hons.**

**Sem: 6**

S No.	WEEK	TOPIC
1	January Week 1	A Passage to India by E.M Forster Introduction to Author & Book Thematic Aspects like Contemporary & Literary Scenario Discussed
2	Week 2	Colonial, Post-Colonial novel, Political, Cultural etc.. Characterisation, background of Novel etc. Places, plot Structure
3	Week 3	Chapter 1-6 (Textual and Critical)
4	Week 4	Chapter 7- 17 (Textual and Critical Analysis)

		Chapter 18-28 (Textual and Critical Analysis)
5	Week 5	Chapter 29- 37 (Textual and Critical Analysis) Discussion on Textual Quotes & Critical Comments by Critics
6	Feb. Week 1	<i>1984</i> by George Orwell Thematic aspects, symbols, contemporary literary scenario Critical analysis and discussion on part I of the text.
7	Week 2	Critical analysis and discussion on part II of the text Critical analysis and discussion on part III of the text
8	Week 3	The Heart of the Matter by Graham Greene Introduction to author & book
9	Week 4	Thematic aspects, symbols, contemporary literary scenario Critical analysis and discussion on part I of the text.
10	March Week 1	Critical analysis and discussion on part II of the text
11	Week 2	Critical analysis and discussion on part III of the text
12	Week 3	Revision and Presentations on A Passage to India
13	April Week 1	Revision and Presentations on Heart of the Matter
14	Week 2	Revision and Presentations on 1984
15	Week 3	Tests and Submission of Assignments

## Lesson Plan

**Name of the Assistant Professor:**

**Class and Lab : B.Sc. (Med.) 4th Semester**

**Subject lesson plan: From January 2024 to April 2024**

<b><u>Week &amp; Date</u></b>	<b><u>Topics</u></b>
<b>Week 1</b>	
15 Jan-20 Jan	Classification & Taxonomic Ranks Continued Continued Continued Continued Continued
<b>Week 2</b>	
22Jan-27 Jan	Herbarium & Botanical Gardens Continued Continued Continued Continued Continued
<b>Week 3</b>	
29Jan-3Feb	Types of Inflorescence Continued Continued Continued Continued Continued
<b>Week 4</b>	
5Feb- 10 Feb	Flower description
<b>Week 5</b>	
12Feb- 17 Feb	Flower description
<b>Week 6</b>	
19 Feb- 24 Feb	Flower description
<b>Week 7</b>	
26Feb- 2 Mar	Flower description
<b>Week 8</b>	
4March -9 March	Flower description
<b>Week 9</b>	

11March -16 March	Flower description
<b>Week 10</b>	
18March -22 March	To study Pollen germination & Flower description Continued Continued Continued Continued Continued
<b>Week 11</b>	
1 April-6 April	Flower description & Types of Ovules Continued Continued Continued Continued Continued
<b>Week 12</b>	
8 April-13 April	Flower description and to study stages of Embryo development Continued Continued Continued Continued Continued
<b>Week 13</b>	
15 April-20 April	Types of Seeds & Fruits Continued Continued Continued Continued Continued
<b>Week 14</b>	
22April-30 April	<b>Revision</b>

## **Lesson Plan**

**Name of the Assistant Professor:**

**Class and Lab : B.Sc. (Med.) 6th Semester**

**Subject lesson plan: From January 2024 to April 2024**

<u><b>Week &amp; Date</b></u>	<u><b>Topics</b></u>
<b>Week 1</b>	

15 Jan-20 Jan	Protein test - 1 Protein test -2 Continued... Continued... Continued... Continued...
<b>Week 2</b>	
22Jan-27 Jan	fat test – 1 fat test – 2 Continued... Continued... Continued... Continued...
<b>Week 3</b>	
29Jan-3Feb	Carbohydrates - monosaccharide test - 1 Carbohydrates – monosaccharide test - 2 Continued ... Continued... Continued... Continued...
<b>Week 4</b>	
5Feb- 10 Feb	Carbohydrates – starch test Continued ... Continued... Continued... Continued...
<b>Week 5</b>	
12Feb- 17 Feb	Detection of heat released during Respiration Continued ... Continued... Continued... Continued...
<b>Week 6</b>	
19 Feb- 24 Feb	Detection of CO <sub>2</sub> during aerobic respiration Continued ... Continued... Continued... Continued...
<b>Week 7</b>	
26Feb- 2 Mar	Sterilization techniques-1 & 2 Continued... Continued...

	Continued...
<b>Week 8</b>	
4March -9 March	Preparation of MS medium 1 Preparation of MS medium 2 Continued... Continued... Continued... Continued
<b>Week 9</b>	
11March -16 March	Test of biochemistry practicals Continued... Continued... Continued... Continued... Continued
<b>Week 10</b>	
18March -22 March	Demonstration of anther culture-1 Demonstration of anther culture-2 Continued... Continued... Demonstration of protoplast isolation Demonstration of protoplast culture
<b>Week 11</b>	
1 April-6 April	Identification of cereal specimens Identification of pulses specimens Continued... Continued... Identification of vegetable specimens Identification of spices specimens Continued...
<b>Week 12</b>	
8 April-13 April	Field visit-1 Field visit-2 Continued... Continued... Continued... Continued...
<b>Week 13</b>	
15 April-20	Identification of fiber specimen

April	Identification of beverages specimens Continued... Continued... Continued...
<b>Week 14</b>	
22April-30 April	<b>Revision</b>

## Lesson Plan

**Name of the Assistant Professor:**

**Class and Section : B.Sc. (Med.) 2<sup>nd</sup> Semester**

**Subject lesson plan: From January 2024 to April 2024**

<b><u>Week &amp; Date</u></b>	<b><u>Topics</u></b>
<b>Week 1</b>	<b>Assignment - Bryophytes</b>
15 Jan-20 Jan	General characters of Bryophytes Classification of Bryophytes Alternation of generations Economic Importance of Bryophytes Evolution of Bryophytes Range of Thallus in Bryophytes <b>Oral Test</b>
<b>Week 2</b>	<b>Assignment - Marchantia</b>
22Jan-27 Jan	Structure of Marchantia Reproduction in Marchantia Test General characters of Bryophytes Structure of Anthoceros Reproduction in Anthoceros Morphological structure of Funaria Topic Discussion
<b>Week 3</b>	<b>Assignment - Anthoceros and Funaria</b>
29Jan-3Feb	Anatomy of Funaria Reproduction in Funaria Test of Marchantia and Anthoceros General characters of Pteridophyte Heterospory Apospory and Apogamy
<b>Week 4</b>	<b>Assignment - Pteridophytes</b>
5Feb- 10 Feb	Classification of Pteridophytes Economic Importance of Pteridophytes Test-Bryophytes
<b>Week 5</b>	<b>Assignment - Rhynia and Selaginella</b>
12Feb- 17 Feb	General account of stellar evolution Alternation of generations in pteridophytes

	Oral test - Economic Importance of Bryophytes) Structure and Reproduction of Rhynia Structure of Selaginella
<b>Week 6</b>	<b>Assignment-</b> Equisetum
19 Feb- 24 Feb	Anatomy of Selaginella Reproduction in Selaginella Reproduction in Selaginella Contd Structure of Equisetum Anatomy of Equisetum
<b>Week 7</b>	<b>Assignment -</b> Equisetum
26Feb- 2 Mar	Reproduction in Equisetum Reproduction in Equisetum Group Discussion on General Characters of Pteridophytes Morphology of Pteris Anatomy of Pteris
<b>Week 8</b>	<b>Assignment -</b> Pteris
4March -9 March	Reproduction in Pteris Test- Equisetum Comparative account on sporophytes of Marchantia, Anthoceros, Funaria Test –Pteridophytes Revision/Problem Solving of Bryophytes Revision Problem Solving of Pteridophytes
<b>Week 9</b>	<b>Assignment -</b> DNA-Protein Interaction
11March -16 March	Revision Problem Solving of Pteridophytes DNA- The genetic material Structure of DNA DNA-Protein Interaction The Nucleosome model I The Nucleosome model II
<b>Week 10</b>	<b>Assignment -</b> DNA
18March -22 March	Revision
<b>Week 11</b>	<b>Assignment -</b> Mendelism
1 April-6 April	The Nucleosome model III Satellite and Repetitive DNA Test –DNA Mendelism Law of Segregation Law of Independent Assortment Linkage Analysis
<b>Week 12</b>	<b>Assignment -</b> Mitochondrial DNA and Plasmid DNA
8 April-13 April	Complementary Genes Supplementary Genes Epistasis, Dominant Genes Test –Mendelism Presence and Function of Mitochondrial DNA
<b>Week 13</b>	<b>Assignment -</b> Transcription
15 April-20 April	<b>Topic Discussion</b> Presence and Function of Mitochondrial DNA Presence and Function of Plasmid DNA

	Plasmids, Spontaneous Mutation Induced Mutation 1, Induced Mutation 2 DNA Damage, DNA Repair Modern Concept of Genes RNA and Ribosomes, Transcription Structure of Proteins Transposable Genetic Material Test DNA, Transcription
<b>Week 14</b>	<b>Assignment - DNA Replication</b>
22April-30 April	DNA Replication I DNA Replication II Genetic Code I Genetic Code II Protein Synthesis I Protein Synthesis II Test Protein Synthesis Regulation of Gene Expression in ProkaryotesI Regulation of Gene Expression in ProkaryotesII Regulation of Gene Expression in EukaryotesI Regulation of Gene Expression in EukaryotesII

### **Lesson Plan**

**Name of the Assistant Professor:**

**Class and Section A : B.Sc. (Med.) 4th Semester**

**Subject lesson plan: From January 2024 to April 2024**

<u><b>Week &amp; Date</b></u>	<u><b>Topics</b></u>
<b>Week 1</b>	<b>Assignment - Botanical Names</b>
15 Jan-20 Jan	Introduction to Angiosperms Taxonomy and Systematics Taxonomy and Systematics Components of Taxonomy Components of Taxonomy <b>Oral Test</b>
<b>Week 2</b>	<b>Assignment - Taxonomy</b>
22Jan-27 Jan	Role of Chemotaxonomy Role of Chemotaxonomy Cytotaxonomy & Taximetrics in relation to Taxonomy Cytotaxonomy & Taximetrics in relation to Taxonomy Topic Discussion <b>Class Test - Chemotaxonomy, Cytotaxonomy &amp; Taximetrics</b>
<b>Week 3</b>	<b>Assignment - Plant Identification</b>

29Jan-3Feb	Botanical Nomenclature, Principles and Rules Principle of Priority Principle of Priority Keys to Identification of Plants Type Concept
<b>Week 4</b>	<b>Assignment - Taxonomic Ranks</b>
5Feb- 10 Feb	Taxonomic Ranks Bentham & Hooker System of Classification Engler & Prantl System of Classification Engler & Prantl System of Classification Topic Discussion - Taxonomy & Classification <b>Class Test - Classification System</b> Flower: A Modified Shoot and Floral Terms Type of Inflorescence
<b>Week 5</b>	<b>Assignment - Inflorescence</b>
12Feb- 17 Feb	Topic Discussion - Floral Terms <b>Internal Test - Unit I &amp; II (Paper 1)</b> Microsporangia Microsporogenesis Microsporangium wall & dehiscence
<b>Week 6</b>	<b>Assignment - Gametogenesis</b>
19 Feb- 24 Feb	Topic Discussion - Microsporogenesis Male Gametophyte Pollen Grain & its structure Pollen Germination I Pollen Germination II
<b>Week 7</b>	<b>Assignment - Pollen Grains of Angiosperms</b>
26Feb- 2 Mar	<b>Class Test - Unit I (Paper 2)</b> Types of Pollination & Agencies of Pollination Pollen-Pistil Interaction Pollen-Pistil Interaction Self - Incompatibility Self - Incompatibility
<b>Week 8</b>	<b>Assignment - Pollination in Angiosperms</b>
4March -9 March	Topic Discussion - Diagnostic Features of Family Rannunculaceae Economic Importance of Family Rannunculaceae Brassicaceae - Diagnostic Features Brassicaceae - Economic Importance Malvaceae - Diagnostic Features Malvaceae - Economic Importance
<b>Week 9</b>	<b>Assignment - Economic Importance of Angiosperms</b>
11March -16 March	Topic Discussion - Above Families Euphorbiaceae - Diagnostic Features Euphorbiaceae - Economic Importance Rutaceae - Diagnostic Features & Economic Importance Topic Discussion - Above Families <b>Class Test - Above Families (Rannunculaceae - Rutaceae)</b>
<b>Week 10</b>	<b>Assignment - Angiospermic Families</b>
18March -22 March	Revision

<b>Week 11</b>	<b>Assignment - Angiospermic Families</b>
1 April-6 April	Structure of Megasporangia Megaspороogenesis (I) Megaspороogenesis (II) Megagametogenesis Female Gametophyte (Mono-, Bisporic) Female Gametophyte (Tetrasporic)
<b>Week 12</b>	<b>Assignment - Female Gametophyte</b>
8 April-13 April	Topic Discussion Double Fertilization Endosperm & Its types Economic importance of various families <b>Internal Test - (Unit III &amp; IV, Paper 2)</b>
<b>Week 13</b>	<b>Assignment - Endosperms &amp; Embryos</b>
15 April-20 April	<b>Topic Discussion</b> Endosperm & Its types Embryogenesis in Dicots Embryogenesis in Monocots Polyembryony Topic Discussion - Embryo & Endosperms
<b>Week 14</b>	<b>Assignment - Types of Seeds and fruits</b>
22 April-30 April	Fruit (I) Fruit (II) Cucurbitaceae - Diagnostic Features Cucurbitaceae - Economic Importance Structure of Monocot Structure of Dicot Seeds Apiaceae - Diagnostic Features Apiaceae - Economic Importance Asclepiadaceae - Diagnostic Features & Economic Importance Lamiaceae - Diagnostic Features & Economic Importance Topic Discussion - Above Families

### **Lesson Plan**

**Name of the Assistant Professor:**

**Class and Section : B.Sc. (Med.) 6<sup>th</sup> Semester**

**Subject lesson plan: From January 2024 to April 2024**

<u><b>Week &amp; Date</b></u>	<u><b>Topics</b></u>
<b>Week 1</b>	<b>Assignment - Assignment –Basics of Enzymology</b>

15 Jan-20 Jan	Discovery and nomenclature of enzymes Characteristics of enzymes Concept of holoenzymes and apoenzymes Coenzymes and cofactors Regulation of enzyme activity I Regulation of enzyme activity II
<b>Week 2</b>	<b>Assignment - Respiration</b>
22Jan-27 Jan	Mechanism of enzyme action Class test of enzymology ATP Aerobic respiration Anaerobic respiration Kreb's cycle
<b>Week 3</b>	<b>Assignment - Oxidative phosphorylation</b>
29Jan-3Feb	Chemiosmotic theory Redox potential Oxidative phosphorylation Pentose phosphate pathway Test of respiration Structure and function of lipids
<b>Week 4</b>	<b>Assignment - fatty acids</b>
5Feb- 10 Feb	Fatty acid biosynthesis and $\beta$ Oxidation Saturated and unsaturated fatty acids Storage and mobilization of fatty acids Test of lipid metabolism Nitrogen metabolism
<b>Week 5</b>	<b>Assignment - recombinant DNA technology</b>
12Feb- 17 Feb	Internal assessment test (unit 1 and unit 2 ) Tools of recombinant DNA technology Cloning vectors Genomic and c DNA library Transposable elements Techniques of recombinant DNA technology
<b>Week 6</b>	<b>Assignment- Plant tissue culture</b>
19 Feb- 24 Feb	Cloning vectors Genomic and c DNA library Transposable elements Aspects of plant tissue culture Cellular totipotency
<b>Week 7</b>	<b>Assignment - genetic transformation</b>
26Feb- 2 Mar	Oral test –genetic engineering Differentiation Morphogenesis

	Biology of <i>Agrobacterium</i> sp. Vectors for gene delivery
<b>Week 8</b>	<b>Assignment - cereals</b>
4March -9 March	Marker genes Test of unit 4 PAPER 2- Food plants – rice Wheat Maize Pulses – gram
<b>Week 9</b>	<b>Assignment - pulses and fibre yielding crops</b>
11March -16 March	Group discussion <b>Test of food plants</b> Arhar Pea Vegetables – potato Tomato Onion Test of unit 1
<b>Week 10</b>	<b>Assignment - Oil yielding plants</b>
18March -22 March	Revision
<b>Week 11</b>	<b>Assignment -spices</b>
1 April-6 April	Fibres – cotton Jute Flax Groundnut Mustard Sunflower Coconut Introduction to spices Spices – coriander
<b>Week 12</b>	<b>Assignment - Cinchona and Rauwolfia sp.</b>
8 April-13 April	Ferula Turmeric Ginger Internal assessment test ( unit 1 and 2 ) Clove Oral discussion Cinchona sp.
<b>Week 13</b>	<b>Assignment - Medicinal plants</b>
15 April-20 April	<b>Topic Discussion</b> <i>Rauwolfia</i> sp.

	Atropa sp. Opium sp. Cannabis sp. Azadirachta sp. Withania sp. Beverages Tea Coffee
<b>Week 14</b>	<b>Assignment -Beverages</b>
22April-30 April	Sugarcane Timber yielding plants Test of sugar and timber yielding plants Energy plantation Hevea sp. Biofuels

### **Lesson Plan**

**Name of the Assistant Professor:**

**Class and Lab 53B : B.Sc. (Med.) 2<sup>nd</sup> Semester**

**Subject lesson plan: From January 2024 to April 2024**

<b><u>Week &amp; Date</u></b>	<b><u>Topics</u></b>
<b>Week 1</b>	
15 Jan-20 Jan	Morphology of <i>Marchantia</i> Reproduction in <i>Marchantia</i> Continue Continue Continue Revision
<b>Week 2</b>	
22Jan-27 Jan	Morphology of <i>Anthoceros</i> Reproduction in <i>Anthoceros</i> Continue Continue Revision Test
<b>Week 3</b>	
15 Jan-20 Jan	Morphology of <i>Funaria</i>

	Reproduction in <i>Funaria</i> Continue Continue Revision Test
<b>Week 4</b>	
5Feb- 10 Feb	Morphology of <i>Funaria</i> Reproduction in <i>Funaria</i> Continue Continue Continue Continue
<b>Week 5</b>	
12Feb- 17 Feb	Morphology of <i>Selaginella</i> Reproduction in <i>Selaginella</i> Continue Continue Continue Continue
<b>Week 6</b>	
19 Feb- 24 Feb	Morphology of <i>Equisetum</i> Reproduction in <i>Equisetum</i> Continue Continue Continue
<b>Week 7</b>	
26Feb- 2 Mar	Practice of section cutting of <i>Equisetum</i> Continue Continue Continue
<b>Week 8</b>	
4March -9 March	Staining procedure of <i>Equisetum</i> Repeat Revision
<b>Week 9</b>	
11March -16 March	Morphology of <i>Pteris</i> Reproduction in <i>Pteris</i> Continue Continue Revision Test Field collection

<b>Week 10</b>	
18March -22 March	Permanent slides of stellar system Continue Continue Revision Test Field collection
<b>Week 11</b>	
1 April-6 April	Numerical on complementary genes Continue Numerical on supplementary genes Continue Numerical on Duplicate genes Continue Numerical on dominant Genes
<b>Week 12</b>	
8 April-13 April	Monohybrid cross Continue Dihybrid cross Revision
<b>Week 13</b>	
15 April-20 April	Revision of all material and permanent slides of Bryophyta Revision of all material and permanent slides of Pteridophyta
<b>Week 14</b>	
22April-30 April	<b>Revision</b>

## Lesson Plan Jan 2024

Name: Pardeep Kumar

Class: B.Sc. 4th Sem (Hons.)

Paper code: Phy- 404

Subject Name: **Atomic and Nuclear Physics**

Number of days: 4-6

16 JAN – 31 JAN	Atoms in electric and magnetic fields: Electron spin. Stern-Gerlach experiment, magnetic field from classical view point, Orbital angular momentum, dipole moment and energy in Zeeman effect. Spin-orbit coupling. Fine structure. Total angular
01 FEB – 29FEB	Momentum, Many-electron atoms: Pauli exclusion principle, Many particles in one dimensional box. Vector model. L-S and jj coupling Symmetric and ant symmetric wave functions. Atomic shell model
01 MARCH – 22 MARCH	Doublet Structure of alkali spectra. Empirical evidence of multiples, Selection rules, Properties: mass, size, angular momentum, constituents, binding energy, stability. Models: Liquid drop model. Mass formula. radioactivity: Law of radioactive decay. Theory of successive radioactive, Numerical Problems
23 MARCH – 31 MARCH	<b>Holi Vacation</b>
01 APRIL – 30 APRIL	Transformations. Radioactive series (mention the series-diagram not needed) Periodic table, Spectral notations for atomic states, Shell model, nuclear forces. <i>Revision and Test</i>

## Lesson Plan JAN- APRIL (2024)

Name: POOJA RANI

Class: B.SC 2 PHYSICS(HONS) Semester-IV

Paper code: Phy-403

Subject Name: **VIBRATION and WAVE OPTICS**

Number of days: 4-6

16Jan – 31 jan	Kirchhoff's integral theorem and kirchoff laws, Fresnel-Kirchhoff integral formula, its application to diffraction problems, Fraunhofer diffraction, Single slit, rectangular slit, circular aperture. Multiple slit.
01feb-29feb	Plane diffraction grating, Resolving power and depressive power of a plane diffraction, Fresnel diffraction, Fresnel's integrals, Cornu's spiral, Fresnel diffraction pattern at a straight edge, a slit and a wire.

01 march-22 march	wire (qualitatively using Cornu's spiral, holography recording and reconstruction method and its theory as interference between two plane waves,
23 march-31 march	. HOLI Vacations
1 April-30 April	reconstruction method and its theory as interference between two plane waves.

### **Lesson Plan Jan 2024**

Name: Miss Sanehaa

Class: B.Sc.( Hons) 6<sup>th</sup> Sem

Paper code: Phy- 605

Subject Name: ***Electronic devices: Physics and applications-II***

Number of days: 1-3

16 JAN – 31 JAN	Amplifiers – Only bipolar junction transistor, CB, CE and CC configurations, Singlestage CE amplifier (biasing and stabilization circuits, Q-point, equivalent circuit, input impedance, output impedance, voltage and current gain)
01 FEB – 29 FEB	Class A, B, C amplifiers (definitions) RC coupled amplifiers (frequency response, Bode plot, amplitude and phase) Class B push-pull amplifier Feedback in amplifiers – Voltage feedback and current feedback Effect of negative voltage series feedback on input impedance, output impedance and gain, stability distortion and noise, Feedback in amplifiers cont....
01 MARCH – 22 MARCH	Oscillators – Barkhausen criterion, Colpitts, phase shift crystal oscillators. Multivibrators, Basic circuits of astable, bistable and monostable multivibrators, Multivibrators cont.... Details of astable multivibrators (Derivation of time period).
23 MARCH – 31 MARCH	<b><i>Holi Vacation</i></b>
01 APRIL – 30 APRIL	Multivibrators cont... problems, Sweep circuits Sweep circuit using transistor as a switch and UJT (derivation of time period). <i>Revision and Test</i>

### **Lesson Plan Jan 2024**

Name: Pardeep Kumar

Class: B.Sc. 6th Sem (Sec A)Non med.

Paper code: Phy- 602

Subject Name: Nuclear Physics

Number of days: 1-3

16 JAN – 31 JAN	Nuclear mass and binding energy, systematics nuclear binding energy, nuclear stability Nuclear size, spin, parity, statistics magnetic dipole moment, quadrupole moment (shape concept) Determination of mass by Bain-Bridge, Bain-Bride and Jordan mass spectrograph, Determination of charge by Mosley law Determination of size of nuclei by Rutherford Back Scattering.
01 FEB – 29FEB	Interaction of heavy charged particles (Alpha particles), alpha disintegration and its theory Energy loss of heavy charged particle Energetics of alpha-decay, Range and straggling of alpha particles. Geiger-Nuttal law.Introduction of light charged particle (Beta-particle) Origin of continuous beta-spectrum (neutrino hypothesis) types of beta decay and energetics of beta decay, Energy loss of betaparticles (ionization), Range of electrons, absorption of beta-particles.
01 MARCH – 22 MARCH	Interaction of Gamma Ray, Nature of gamma rays, Energetics of gamma rays, passage of Gamma radiations through matter (photoelectric, compton and pair production effect) electron position neutrino hypothesis) types of beta decay and energetics of beta decay, Energy loss of betaparticles (ionization), Range of electrons, absorption of beta-particles. annihilation. Absorption of Gamma rays (Mass attenuation coefficient) and its application.Nuclear reactions, Elastic scattering, Inelastic scattering, Nuclear disintegration, photonuclear reaction Radiative capture, Direct reaction, heavy ion reactions and spallation Reactions, conservation laws. Q-value and reaction threshold
23 MARCH – 31 MARCH	<b><i>Holi Vacation</i></b>
01 APRIL – 30 APRIL	Nuclear Reactors General aspects of Reactor design. Nuclear fission and fusion reactors, (Principles, construction, working and use) Linear accelerator, Tandem accelerator, Cyclotron and Betatron accelerators. Ionization chamber, proportional counter, G.M. counter detailed study, scintillation counter, Semiconductor detector. <i>Revision and Test</i>

## **Lesson Plan Jan 2024**

Name: SANEHAA

Class: B.Sc. 6th Sem (Sec B & C)Non med.

Paper code: Phy- 602

Subject Name: Nuclear Physics

Number of days: 1-6

16 JAN – 31 JAN	<p>Nuclear mass and binding energy, systematics nuclear binding energy, nuclear stability</p> <p>Nuclear size, spin, parity, statistics magnetic dipole moment, quadrupole moment (shape concept)</p> <p>Determination of mass by Bain-Bridge, Bain-Bride and Jordan mass spectrograph, Determination of charge by Mosley law Determination of size of nuclei by Rutherford Back Scattering.</p>
01 FEB – 29FEB	<p>Interaction of heavy charged particles (Alpha particles), alpha disintegration and its theory Energy loss of heavy charged particle</p> <p>Energetics of alpha-decay, Range and straggling of alpha particles. Geiger-Nuttall law. Introduction of light charged particle (Beta-particle)</p> <p>Origin of continuous beta-spectrum (neutrino hypothesis) types of beta decay and energetics of beta decay, Energy loss of betaparticles (ionization), Range of electrons, absorption of beta-particles.</p>
01 MARCH – 22 MARCH	<p>Interaction of Gamma Ray, Nature of gamma rays, Energetics of gamma rays, passage of Gamma radiations through matter (photoelectric, compton and pair production effect) electron position neutrino hypothesis) types of beta decay and energetics of beta decay, Energy loss of betaparticles (ionization), Range of electrons, absorption of beta-particles. annihilation. Absorption of Gamma rays (Mass attenuation coefficient) and its application. Nuclear reactions, Elastic scattering, Inelastic scattering, Nuclear disintegration, photonuclear reaction</p> <p>Radiative capture, Direct reaction, heavy ion reactions and spallation Reactions, conservation laws. Q-value and reaction threshold</p>
23 MARCH – 31 MARCH	<b><i>Holi Vacation</i></b>
01 APRIL – 30 APRIL	<p>Nuclear Reactors General aspects of Reactor design. Nuclear fission and fusion reactors, (Principles, construction, working and use) Linear accelerator, Tandem accelerator, Cyclotron and Betatron accelerators.</p> <p>Ionization chamber, proportional counter, G.M. counter detailed study, scintillation counter, Semiconductor detector.</p> <p><i>Revision and Test</i></p>

## **Lesson Plan**

**(Jan - April 2024)**

Name: Mrs.Renu Kumari

Class: B.Sc. Physics (H) Semester-II

Paper code: Phy-202

Subject Name: ***Mechanics***

Number of days: 1-3

16 JAN – 31 JAN	Law of gravitation. Inertial and gravitational mass, Potential energy and field due to spherical shell and solid sphere, Self-energy,
01 FEB – 29FEB	Motion of a particle under central force field Angular momentum conservation one body problem, two body problem and its reduction to one body problem and its solution, The energy equation and energy diagram. Kepler's laws. Satellites. Inertial frame and Galilean transformation, Non-inertial frame and fictitious forces.
01 MARCH – 22 MARCH	Uniformly accelerating system, Physics in rotating coordinate systems, centrifugal and Coriolis forces. Michelson-Morley experiment and its outcome. Postulates of special theory of relativity. Lorentz transformations. Simultaneity and order of events. Lorentz contraction
23 MARCH – 31 MARCH	Holi Celebration
01 APRIL – 30 APRIL	Time dilation. Relativistic transformation of velocity, Velocity dependence of mass and equivalence of mass and energy, Transformation of energy and momentum

## **Lesson Plan**

**(Jan - April 2024)**

**Name:** Dr. Manju Vashistha,

**Class:** B.Sc I(NM) 2<sup>nd</sup> Sem, Sec A, Sec B

**Paper code:** Phy-201

**Subject Name:** Properties of Matter, Kinetic theory, Relativity

**Number of days:** 4-6, 1-3

.Week	Syllabus covered
16 JAN – 31 JAN	Unit I introduction, elasticity, Hooke's law, elastic constants and their relations, Poisson's ratio
01 FEB – 29FEB	Torsion of cylinder and twisting couple bending of beam, Cantilevers, centrally loaded beam, Test and assignment of unit I, introduction to unit II, assumptions of kinetic theory of gases, Law of equipartition of energy and its applications for specific heats of gases. Maxwell distribution of speeds and velocities, experimental verification of Maxwell's law of speed distribution, Most probable speed, average and r.m.s speed, mean free path,

01 MARCH – 22 MARCH	Transport of energy and momentum, diffusion of gases, Brownian motion Real gases, van der waal's equation, Test and assignment of unit II
23 MARCH – 31 MARCH	<i>HOLI- VACATION</i>
01 APRIL – 30 APRIL	Introduction to unit III, reference systems, inertial frames, Michelson-Morley experiment: search for ether, Lorentz transformations Length contraction, time dilation, velocity addition theorem, Variation of mass with velocity and mass energy equivalence. <i>Revision and test</i>

## **Lesson Plan**

### **(Jan - April 2024)**

**Name:** Ms. Neeraj Kadian

**Class:** B.Sc I(NM) 2<sup>nd</sup> Sem, Sec C

**Paper code:** Phy-201

**Subject Name:** Properties of Matter, Kinetic theory, Relativity

**Number of days:** 4-6

.Week	Syllabus covered
16 JAN – 31 JAN	Unit I introduction, elasticity, Hooke's law, elastic constants and their relations, Poisson's ratio
01 FEB – 29FEB	Torsion of cylinder and twisting couple bending of beam, Cantilevers, centrally loaded beam, Test and assignment of unit I, introduction to unit II, assumptions of kinetic theory of gases, Law of equipartition of energy and its applications for specific heats of gases. Maxwell distribution of speeds and velocities, experimental verification of Maxwell's law of speed distribution, Most probable speed, average and r.m.s speed, mean free path,
01 MARCH – 22 MARCH	Transport of energy and momentum, diffusion of gases, Brownian motion Real gases, van der waal's equation, Test and assignment of unit II
23 MARCH – 31 MARCH	<i>HOLI -VACATION</i>
01 APRIL – 30 APRIL	Introduction to unit III, reference systems, inertial frames, Michelson-Morley experiment: search for ether, Lorentz transformations Length contraction, time dilation, velocity addition theorem, Variation of mass with velocity and mass energy equivalence. <i>Revision and test</i>

## **Lesson Plan**

## **(Jan –2024)**

Name: Ms. EKTA

Class: B.Sc. (Non Med) 2<sup>nd</sup> Sem, Sec A & B & C

Paper code: Phy- 202

Subject Name: Electro Magnetic Induction and Electronic Devices.

Number of days: 1-3 & 4-6

.Week	Syllabus covered	
16 JAN – 31 JAN	Semiconductor Diodes: Energy bands in solids. Intrinsic and extrinsic semiconductor, Hall effect, P-N junction diode and their V-I characteristics. Zener and avalanche breakdown. Resistance of a diode, Light Emitting diodes (LED). Photo conduction in semiconductors, Photo diode, Solar Cell.	
01 FEB – 29FEB	Diode Rectifiers: P-N junction half wave and full wave rectifier. Types of filter circuits (L and - with theory). Zener diode as voltage regulator, simple regulated power supply. Transistor biasing, methods of Transistor biasing and stabilization. D.C. load line. Common-base and common-emitter transistor biasing.	
01 MARCH – 22 MARCH	. Common-base, Common emitter amplifiers. Classification of amplifiers. Resistance-capacitance (R-C) coupled amplifier. Feed-back in amplifiers, advantage of negative feedback Emitter follower. Oscillators: Oscillators, Principle of Oscillation, Classification of Oscillator. Condition for self sustained oscillation: Barkhausen Criterion for oscillations. Tuned collector common emitter oscillator. Hartley oscillator. Colpitt's oscillator.	
23 MARCH – 31 MARCH	<i>Holi Vacations</i>	
01 APRIL – 30 APRIL	Electromagnetic Induction : Growth and decay of current in a circuit with (a) Capacitance and resistance (b) resistance and inductance (c) Capacitance and inductance (d) Capacitance resistance and inductance. AC circuit analysis using complex variables with (a) capacitance and resistance, (b) resistance and inductance (c) capacitance and inductance (d) capacitance, inductance and resistance Series and parallel resonant circuit. Quality factor (Sharpness of resonance). <i>Revision and test</i>	

## **Lesson Plan**

## **(EVEN 2024)**

Name: Mr. Vikas

Class: B.Sc.(Non Med) 4<sup>th</sup> Sem, Sec A, Sec B, Sec C

Paper code: Phy- 401

Subject Name: Statistical Physics

Number of days: 4-6, 1-3

.Week	Syllabus covered
16 Jan – 31 Jan	Probability, some probability considerations, combinations possessing maximum probability, combinations possessing minimum probability, distribution of molecules in two boxes. Case with weightage (general), assignment, Phase space, microstates and macrostates,
01 Feb – 29 Feb	statistical fluctuations constraints and accessible States Thermodynamical probability, Postulates of Statistical Physics. Division of Phase space into cell, test, Condition of equilibrium between two system in thermal contact. $\beta$ -Parameter,
01 March – 22 March	Entropy and Probability, Boltzman's distribution law. Evaluation of A and $\beta$ . Bose-Einstein statistics, Application of B.E. Statistics to Planck's radiation law, B.E. gas. Fermi-Dirac statistics
23 March – 31 March	<i>Holi Vacations</i>
01 April – 30 April	M.B. Law as limiting case of B.E. Degeneracy and B.E., Condensation. F.D. Gas, test, electron gas in metals. Zero point energy, Specific heat of metals and its solution. <i>Revision and test</i>

## Lesson Plan

**(Jan – April 2024)**

Name: Dr. Manju Vashistha,  
Class: B.Sc II (NM) 4<sup>th</sup> Sem, Sec C  
Paper code: Phy-402  
Subject Name: Optics  
Number of days: 1 -3

.Week	Syllabus covered
16 Jan – 31 Jan	Introduction to unit I, Interference by division of amplitude: Colour of thin films, wedge shaped film, Newton's ring Continue
01 Feb – 29 Feb	Michelson Interferometers, Fresnel's Diffraction- half period zone, zone plate, diffraction at a straight edge Rectangular slit and circular aperture, test and assignment Introduction to unit II, Fraunhofer diffraction-one slit, two slit, N-slit Plane transmission grating spectrum, dispersive power of a grating
01 March – 22 March	Limit of resolution, Rayleigh's criterion Resolving power of telescope and a grating test and assignment of unit II, Introduction to unit III, polarisation and double refraction Polarisation by reflection and scattering, Malus law, Huygens's wave theory of double refraction,
23 March – 31 March	<i>Holi Vacations</i>
01 April – 30 April	Analysis of polarised light- Nicol prism, quarter wave plate and half

	wave plate , Production and detection of plane, circularly and elliptical polarized light , optical activity, fresnel's theory of rotation, specific rotation Polarimeters. <i>Revision and test</i>
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## **Lesson Plan**

### **(Jan – April 2024)**

Name: Ms. Neeraj Kadian

Class: B.Sc II (NM) 4<sup>th</sup> Sem, Sec A and Sec B

Paper code: Phy-402

Subject Name: Optics

Number of days: 1-3, 4-6

.Week	Syllabus covered
16 Jan – 31 Jan	Introduction to unit I, Interference by division of amplitude: Colour of thin films, wedge shaped film, Newton's ring Continue
01 Feb –29 Feb	Michelson Interferometers, Fresnel's Diffraction- half period zone, zone plate, diffraction at a straight edge Rectangular slit and circular aperture, test and assignment Introduction to unit II, Fraunhofer diffraction-one slit, two slit, N-slit Plane transmission grating spectrum , dispersive power of a grating
01 March – 22 March	Limit of resolution, rayleigh's criterion Resolving power of telescope and a grating test and assignment of unit II, Introduction to unit III, polarisation and double refraction Polarisation by reflection and scattering, Malus law, Huygens's wave theory of double refraction,
23March – 31March	<i>Holi Vacations</i>
01April -30 Aril	Analysis of polarised light- nicol prism, quarter wave plate and half wave plate , Production and detection of plane, circularly and elliptical polarized light , optical activity, fresnel's theory of rotation, specific rotation Polarimeters. <i>Revision and test</i>

## **Lesson Plan**

**(Jan – 2024)**

Name: Mr. Vikas

Class: B.Sc.( Hons) 6<sup>th</sup> Sem

Paper code: Phy-604

Subject Name: *Physics of Materials-II*

Number of days: 1-3

.Week	Syllabus covered
16 JAN-31 JAN	Dielectric Properties of Materials. Polarization, Local electric field at an atom. Depolarization field, Lorentz fields of dipoles inside a cavity.
01 FEB- 29 FEB	Dielectric constant and polarizability: Electric susceptibility, polarizability Clausius-Mosotti equation. Qualitative discussion of ferroelectric properties of materials P-E hysteresis loop, Qualitative description of free electron theory Inadequacies of free electron theory with reference to Hall effect and specific heat of electrons in a metal.
1 MARCH-22 MARCH	Elementary band theory-Bloch theorem, Kronig-Penney model Difference between conductors, semiconductors and Insulators Band gaps
23 MARCH-31 MARCH	<i>Holi Vacations</i>
01 APRIL-30 APRIL	Effective mass of electron, concept of hole, Types of semiconductor Action conductivity in semiconductors Mobility of carriers (lattice & semiconductors (qualitative)). <i>Revision and test</i>

**Lesson Plan**

**(Jan - April 2024)**  
**2023-24 (Even Sem)**

**Name:** Ms. Anju Rani

**Class:** B.Sc III(NM) 6<sup>th</sup> Sem, Sec ( A, B and C)

**Paper code:** Phy-601

**Subject Name:** Atomic, Molecular and Laser Physics

**Number of days:** 1-3(Sec.-B), 4-6 (Sec.-A&C)

.Week	Syllabus covered
16 JAN – 31 JAN	Vector atom model, quantum numbers associated with vector atom model, penetrating and non-penetrating orbits (qualitative description), spectral lines in different series of alkali spectra, spin orbit interaction and doublet term separation, LS or Russel-Saunders Coupling jj coupling (expressions for interaction energies for LS and jj coupling required), Zeeman effect (normal and Anomalous), Zeeman pattern of D1 and D2 lines of Na-atom.
01 FEB – 29FEB	Zeeman effect (normal and Anomalous), Zeeman pattern of D1 and D2 lines of Na-atom. Paschen Back effect of a single valence electron system, Weak field Stark effect of Hydrogen atom. Discrete set of electronic energies of molecules, assignment , quantization of Vibrational and rotational energies, Raman effect (Quantitative description), Stoke's and anti-Stoke's lines. Test.
01 MARCH – 22 MARCH	Main features of a laser : Directionality, high intensity, high degree of coherence, spatial and temporal coherence, Einstein's coefficients and possibility of amplification, momentum transfer, life time of a level, kinetics of optical absorption. Test and assignment.
23 MARCH – 31 MARCH	<i>HOLI -VACATION</i>
01 APRIL – 30 APRIL	Threshold condition for laser emission, Laser pumping, He-Ne laser and RUBY laser (Principle, Construction and Working). Applications of laser in the field of medicine and industry. <i>Revision and Test.</i>

**Lesson Plan**  
**(Jan - April 2024)**  
**2023-24 (Even Sem)**

**Name:** Ms. Anju Rani

**Class:** B.Sc. 2<sup>nd</sup> Physics (H) Semester-IV

**Paper code:** Phy-401

**Subject Name:** Mathematical Physics-II

**Number of days:** Monday, Tuesday, Wednesday (1-3)

.Week	Syllabus covered
16 JAN – 31 JAN	Gamma and Beta functions. Legendre, Hermite and Laguerre Polynomials: Rodrigues formulae, generating functions, recurrence relations, orthogonality. Series expansion of a function in terms of a complete set of Legendre functions.
01 FEB – 29FEB	Bessel functions: first and second kind. Generating function, recurrence formulas, zeros of Bessel functions and orthogonality. Fraunhofer diffraction integral for circular aperture. Problems and Test.
01 MARCH – 22 MARCH	General solution of wave equation in 1 dimension. Transverse vibration of stretched string. Oscillation of hanging chain. Wave equation in 2 and 3 dimensions. Vibrations of rectangular and circular membrane. Derivation of the equation of heat conduction. Derivation of the equation of heat conduction. Heat flow in one-two-and three dimensional rectangular systems of finite boundaries, Temperature inside circular plate.
23 MARCH – 31 MARCH	<i>HOLI -VACATION</i>
01 APRIL – 30 APRIL	Laplace equation in Cartesian, cylindrical and spherical coordinate systems. Problems of steady flow of heat in rectangular and circular plate. Gravitational potential of a ring. <i>Revision and Test</i>

## **Lesson Plan**

**(Jan - April 2024)**

Name: Mrs.Renu Kumari

Class: B.Sc. Physics (H) Semester-II

Paper code: Phy-201

Subject Name: ***Mathematical Physics***

Number of days: Thursday, Friday, Saturday

16 JAN – 31 JAN	Classification of differential equations: linear and nonlinear, homogeneous and non-homogenous equations, First order: Separable and exact equations. Integrating factor, Second Order: Homogeneous equations with constant coefficient's Wronskian.
01 FEB – 29FEB	General solution Statement of Existence and Uniqueness theorem for initial value problems, Solution of non-homogeneous equations by operator (D) method. Particular Method of undetermined coefficients and variation of parameters Equations reducible to those with constant coefficient.
01 MARCH – 22 MARCH	Holi vacations
23 MARCH – 31 MARCH	Fourier series, Dirichlet conditions (Statement only), Orthogonality of sine and cosine functions, Sine and cosine series. Distinctive features of Fourier expansions.
01 APRIL – 30 APRIL	Half-range expansions. Applications Square wave triangular wave, output of full wave rectifier and other simple functions Summary of infinite series, Systematic and random errors. Propagation of errors, Standard and probable error. Least square fitting of data (linear case

### **Lesson Plan 2023-2024**

Name: Ms. Neha

Class: B.Sc. Physics (H) Semester-VI

Paper code: Phy-606

Subject Name: Nano Physics

Number of days: 4-6

16 Jan – 31 Jan	Introduction of nano technology, particle size determination, mass spectroscopy, TEM, SEM,
01 Feb –29 Feb	X-Ray Diffraction for NPs, Significance of XRD, Photoluminescence spectra and Raman spectroscopy for nano particles, Increase in width of nano particles, assignment
01 March – 22 March	Methods of synthesis of nano particles, Top – Down and Bottom –Up approach, Physical and chemical methods, Ball milling, test
23March – 31March	<b>holi vacations</b>
01April -30 Aril	Method of synthesis of nano- particles-ion implantation, chemical bath deposition, CVD, PVD, MBE, revision

### **Lesson Plan 2024 even sem**

Name: Ms. EKTA

Class: B.Sc. Physics (H) Semester-IV

Paper code: Phy-402

Subject Name: Thermal Physics-II

Number of days: Monday, Tuesday, Wednesday

16 JAN – 31 JAN	Zeroth and first law of thermodynamics, Reversible and irreversible processes. Conversion of heat into work Carnot theorem, test , Second law of thermodynamics, Thermodynamic temperature, assignment Clausius inequality.Entropy changes in reversible and irreversible processes ,
01 FEB – 29FEB	Temperature-entropy diagrams. Test, The principle of increase of entropy & its applications, Thermodynamic potentials: Enthalpy, Gibbs and Helmholtzfunctions. Maxwell relations and their applications. Magnetic work. class test. Magnetic cooling by adiabatic demagnetization,

01 MARCH – 22 MARCH	Approach to absolute zero ,change of phase, equilibrium between a liquid and its vapour. Clausius-Clapeyron equation
23 MARCH – 31 MARCH	<b>Holi vacations</b>
01 APRIL – 30 APRIL	The triple point with examples from physics. test. Second order phase transitions <i>Revision And Test</i>

### **Lesson Plan 2023-2024 even sem**

**Name: Ms. Neha**

**Class: B.Sc. Physics (H) Semester-VI**

**Paper code: Phy-603**

**Subject Name: Statistical Physics**

**Number of days: Monday, Tuesday, Wednesday**

16 Jan – 31 Jan	Introduction of Statistical physics, Three types of statistics, Bose – Einstein Statistic, Postulates of BE Statistic,.
01 Feb –29 Feb	Partition function of bosons, Thermodynamics functions of boson gas and photon gas, B-E condensation, critical temperature of bosons gas Hydrogen para and ortho , Introduction of Fermi-Dirac statistic, Postulates of FD Statistic, assignment
01 March – 22 March	Fermi- Dirac Statistics, thermodynamic function of fermion gas, Thermodynamics functions of electron gas, Difference between boson and fermion gas, assignment, test
23March – 31March	<b>Holi vacations</b>

01April -30 Aril	Specific heat of electrons, Fermi energy, Fermi temperature, test, revision
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## **Lesson Plan**

### **Session 2023-24(16Jan-30April,2024)**

Name: Ms. Neeraj Kadian

Class: B.Sc. Home Science<sup>2<sup>th</sup></sup> Sem

Paper code:202

Subject Name:Physics

Number of days:1-3 days

16 Jan -23 Jan	Properties of solids - a) Density , specific gravity , elasticity, hardness ,malleability, ductility. b) Properties of liquids :- Surface tension ,capillary action ,Archimedes principle, specific gravity of liquids
24Jan – 31Jan	Properties of gases :- Elasticity , compressibility, atmospheric pressure, Simple machines – Mechanical advantages , efficiency lever, screw pulleys, seissors , beaters
5Feb – 14 Feb	Friction:- Friction ,advantages and disadvantages, concepts of ball bearing, sewing floor scrubbing machines Centripetal and centrifugal forces, spin dryer in washing machine.
19 Feb- 26Feb	Air appliances :- Vacuum cleaner. Static and current electricity, Basic electrical circuits ,units of electrical measurement ,ohm's law and parallel circuits
27Feb- 01 March	Sources of electricity – Dry and storage battery ,grouping of cells ,generator, thermocouple, Thermal effect- Seebeck effect, thermoelectric thermometer, fuse circuit breaker, toaster,geysers hot plate, water heater, water boiler, steam iron
04 March–13 March	. Induced Current :- Transformer. House wiring :- Transfer of energy from the PowerPoint to home , kilowatt hour, Meter distribution of current to the house
18March–20March	number of circuits in a house, methods of installing the wiring circuits and switches
01 April – 03April	. Introduction to heat :- Unit of heat, Source and properties of heat , heat and temperature
08 April – 10 April	heat transfer, humidity, relative humidity and dew point. Application of heat transfer household thermometers, pressure cooker, vaccum coffee maker.
15April – 17April	Refrigeration :- Refrigerator , Compressor and absorption type
22April – 24April	cold storage plants.
onwards	Revision

**Lesson Plan**  
**JAN- APRIL (2024)**

Name: Ms. Pooja Rani

Class: B.Sc.( Hons) 2nd Sem

Paper code: Phy- 203

Subject Name: *magnetism*

Number of days: 1-3

16JAN- 31 JAN	Magnetic force between current elements, definition of B, Properties of B, Ampere's Circuital Law, Curl and divergence of B, vector potential, Magnetic flux, calculation of B for circular and solenoid currents, Torque on a current loop in a uniform magnetic field, Continue....., numericals
1FEB-29FEB	Magnetic dipole, Force on an isolated moving charge, B, H and their relation. Magnetic susceptibility, Stored magnetic energy in matter, Magnetic circuit B-H curve and energy loss in hysteresis, Numerical problems , test and assignment, A conducting rod moving through a uniform magnetic field, A loop through on uniform magnetic field.
1 March-22March	A stationary loop with field source moving, Faraday's law of induction. Curl E-D B/dt, Mutual induction –
23March-31 march	HOLI Vacations
1April-30April	Reciprocity theorem, self induction, energy stored in magnetic field

## Lesson Plan

Academic Session 2023-24

**Subject: 16ECO22C2 –Macro Economics-II**

M.A.Semester 2<sup>nd</sup> Semester

**Dr Pardeep Kumar Duhan**

Week	Contents
1	The Demand for and supply of money: Classical Approach to Demand for Money – Quantity Theory Approach; ;Fisher's equilibrium; Cambridge Quantity theory;
2	Keynes Liquidity Approach – Transaction; Precautionary and Speculative Demand for Money Aggregate Demand for Money; Friedman, Patinkun Baumol and Tobin
3	Determinants of money supply, High-powered money, Money multiplies.
4	Inflation: Definition of Inflation; Economics effects of Inflation – The effect of Inflation of the distribution of Income and Wealth,
5	The effect of Inflation on output, Employment and the Growth Rate; Demand Side and Supply Side theories of inflation.
6	Problems and Practices of the 1 <sup>st</sup> and 2 <sup>nd</sup> Unit
7	Inflation and unemployment: The Phillips Curve, The Inflationary Pressure Curve: Phillips Curve, Inflationary Pressure Curve and the Rate of Inflation
8	The Phillipis Curve; Trade off and Non Trade Off.
9	Adaptive Expectation and Rational Expectation Keynesianism Vs Monetarism.
10	Trade Cycles – Models of Samuelson, Hicks and Kaldor, Economic Growth:
11	Harrod- Doman Model; Neo-Classical Model (with money & without money). International Adjustment: The Determination of National Income in Open Economy;
12	The International Transmission of Disturbance: Transmission under Fixed Exchange Rate; Transmission under Floating Exchange Rate (Mudel Fleming Model).
13	Test, Revision and Collection of Assignments from Students for Internal Marks Process

Dr P.K. Duhan

## Lesson Plan

Academic Session 2023-24

**Subject: 17ECO24D4 Financial Institutions and Markets-II**

(Discipline Specific Course)

M.A. 4<sup>th</sup> Semester

**Dr Pardeep Kumar Duhan**

Week	Contents
1	Proliferation of banking and non-bank financial intermediaries -
2	Effectiveness of monetary Policy - Credit creation and its control, Profitability and efficiency of banks.
3	Commercial banks and Co-operative banks.
4	Development banks- Role and functions; Investment and merchant banking, Financial sector reforms in India
5	Types of non-bank financial institutions: Their growth and impact on India's economic development, Measures taken to control their operations.
6	Problems and Practices of the 1 <sup>st</sup> and 2 <sup>nd</sup> Unit
7	Role of money market and capital market: Call money market, Treasury bill market, Commercial bill market including commercial ECN and certificate of deposits
8	Discount market - Government securities market - Market for derivation: future and options, and other derivatives:
9	types, uses and pricing of derivation - Primary and secondary market for securities.
10	SEBI: its impact on the working of capital market in India; IRDA and its role in financial markets -
11	Theory of optimum currency areas - Euro-dollar
12	Euro-Currency markets - Their development role at international level.
13	Test, Revision and Collection of Assignments from Students for Internal Marks Process

Dr P.K. Duhan

## Lesson Plan

Academic Session 2023-24

**Subject: COMPUTER APPLICATION IN ECONOMIC ANALYSIS**

B.A. Hons 4<sup>th</sup> Semester

**Dr Pardeep Kumar Duhan**

Week	Contents
1	Opening, saving and printing documents files, Editing and formatting of documents, inserting page Numbers and footnotes,
2	Table: Auto Format and Properties, Inserting graphs and diagrams,
3	Introduction to MS Power Point, Preparation of presentations in Power point using design template and Text structure layouts.
4	Introduction to Microsoft Excel: Creation of worksheets; Data entry, formatting, sorting and validation; Importing and exporting of data files
5	Uses of mathematical, financial and statistical function and what if analysis,
6	Data Analysis: Correlation, Simple and Multiple Regression, One way ANOVA, Creation of diagrams and graphs.
7	Networking of Computer: Intranet and Internet, LAN and WAN
8	Internet Explorer, Search engines, Emails, Computer, document
9	Internet Security, Antivirus-scanning and updates
10	Introduction to SPSS: Creation of data files, assigning names and labels to variables, sort cases, import/export of files, Computing variable
11	Data Analysis: Descriptive statistics, Comparing means, Simple Correlation analysis, A
12	ANOVA, Simple Regression Analysis, Preparation of graphs and diagrams.
13	Test, Revision and Collection of Assignments from Students for Internal Marks Process

Dr P.K. Duhan

## Lesson Plan

Academic Session 2023-24

**Subject: Macro Economics**

B.A. Hons 4<sup>th</sup> Semester

**Dr Pardeep Kumar Duhan**

Week	Contents
1	Opening, saving and printing documents files, Editing and formatting of documents, inserting page Numbers and footnotes,
2	Table: Auto Format and Properties, Inserting graphs and diagrams,
3	Introduction to MS Power Point, Preparation of presentations in Power point using design template and Text structure layouts.
4	Introduction to Microsoft Excel: Creation of worksheets; Data entry, formatting, sorting and validation; Importing and exporting of data files
5	Uses of mathematical, financial and statistical function and what if analysis,
6	Data Analysis: Correlation, Simple and Multiple Regression, One way ANOVA, Creation of diagrams and graphs.
7	Networking of Computer: Intranet and Internet, LAN and WAN
8	Internet Explorer, Search engines, Emails, Computer, document
9	Internet Security, Antivirus-scanning and updates
10	Introduction to SPSS: Creation of data files, assigning names and labels to variables, sort cases, import/export of files, Computing variable
11	Data Analysis: Descriptive statistics, Comparing means, Simple Correlation analysis, A
12	ANOVA, Simple Regression Analysis, Preparation of graphs and diagrams.
13	Test, Revision and Collection of Assignments from Students for Internal Marks Process

Dr P.K. Duhan

## Lesson Plan

Academic Session 2023-24

**Subject: Industrial Economics**

B.A. Hons 6<sup>th</sup> Semester

**Dr Pardeep Kumar Duhan**

Week	Contents
1	Scope and methods of Industrial Economics, Basic concepts of firm, industry and market; organizational forms
2	Separation of ownership from management and control. Alternative goals of firm:
3	Neo-classical and contributions of R Marris and Williamson.
4	Elements of Market Structure: Sellers' and buyers' concentration, product differentiation, conditions of entry.
5	Determinants and measurement of sellers's concentration
6	Growth of firms: Vertical integration, diversification, mergers and acquisitions.
7	Evolution of Market structure – conduct - performance paradigm.
8	Economics of Advertisement: concepts, market structure and advertisement.
9	Economics of R & D: Concepts, measurement and market structure and innovation.
10	Theory of industrial location, contribution of Weber and Sargent Florence
11	Allocative efficiency: Market structure and profitability.
12	Productive efficiency: Degree of sub optimal capacity.
13	Revision and Assignment

Dr P.K. Duhan

## Lesson Plan

Academic Session 2023-24

**Subject: Industrial Economics**

4<sup>th</sup> Semester

**Dr Pardeep Kumar Duhan**

Week	Contents
1	Scope and methods of Industrial Economics, Basic concepts of firm, industry and market; organizational forms
2	Separation of ownership from management and control. Alternative goals of firm:
3	Neo-classical and contributions of R Marris and Williamson.
4	Elements of Market Structure: Sellers' and buyers' concentration, product differentiation, conditions of entry.
5	Determinants and measurement of sellers's concentration
6	Growth of firms: Vertical integration, diversification, mergers and acquisitions.
7	Evolution of Market structure – conduct - performance paradigm.
8	Economics of Advertisement: concepts, market structure and advertisement.
9	Economics of R & D: Concepts, measurement and market structure and innovation.
10	Theory of industrial location, contribution of Weber and Sargent Florence
11	Allocative efficiency: Market structure and profitability.
12	Productive efficiency: Degree of sub optimal capacity.
13	Revision and Assignment

Dr P.K. Duhan

**Govt. P.G. College for Women Rohtak**  
**Department of Economics**  
**Lesson Plan for the session 2023-24**  
**Class: BA Eco Hons. 1st Year 2nd semester**

**Subject: Indian Economy**

**Name of Teacher: POOJA**

<b>No. of Weeks</b>	<b>Content of the Syllabus</b>
1 <sup>st</sup> Week	Features and characteristics of Indian economy
2 <sup>nd</sup> Week	Importance of Agriculture, Causes of Backwardness and Low Productivity
3 <sup>rd</sup> week	Land Reforms :Need Implementation and Critical Evaluation
4 <sup>th</sup> week	Revision and Test
5 <sup>th</sup> week	Industry :Problems of Industrial Development
6 <sup>th</sup> week	Recent Industrial Policy
7 <sup>th</sup> week	Small and Large Scale Industries
8 <sup>th</sup> week	Major Large Scale Industries:Iron and Steel ,Petroleum
9 <sup>th</sup> week	Revision and Test
10 <sup>th</sup> week	Principles Features of Indian Tax Structure
11 <sup>th</sup> week	Division of financial resources between centre and their states
12 <sup>th</sup> week	Direction and Composition of exports and imports and changes therein since 1991
13 <sup>th</sup> week	Economic reforms : Liberalization
14 <sup>th</sup> week	Privatization
15 <sup>th</sup> week	Globalization ,appraisal of economic reforms
16 <sup>th</sup> week	Revision and test

**Class: BA Eco Hons 2<sup>nd</sup> Year 4<sup>th</sup> Semester**

**Subject: Welfare Economics-II**

**Name of Teacher: POOJA**

<b>No. of Weeks</b>	<b>Content of the Syllabus</b>
1 <sup>st</sup> Week	Infinite Number of non-comparable optima vs unique social optimum
2 <sup>nd</sup> Week	Compensation criteria-contributions of barole
3 <sup>rd</sup> week	Kaldor and Hicks Compensation criteria
4 <sup>th</sup> week	The Scitovsky double criterion
5 <sup>th</sup> week	Samuelson`s utility possibility curve
6 <sup>th</sup> week	Revision and Test.
7 <sup>th</sup> week	Value judgements and welfare economics
8 <sup>th</sup> week	Bergsons social welfare function
9 <sup>th</sup> week	Arrow`s possibility theorem
10 <sup>th</sup> week	Revision and Test.
11 <sup>th</sup> week	Divergence between private and social cost
12 <sup>th</sup> week	Problems of non market Interdependence
13 <sup>th</sup> week	External economies and diseconomies
14 <sup>th</sup> week	Problem of public goods
15 <sup>th</sup> week	Pigovian welfare economics
16 <sup>th</sup> week	Revision and Test.

**Class: B.A hons 3<sup>rd</sup> Year 6<sup>th</sup> Semester**

**Subject: History of Economics Thought**

**Name of Teacher: POOJA**

<b>No. of Weeks</b>	<b>Content of the Syllabus</b>
1 <sup>st</sup> Week	Marxian economics
2 <sup>nd</sup> Week	Theory of value
3 <sup>rd</sup> week	Theory of capital accumulation, theory of crisis
4 <sup>th</sup> week	Jevon`s Theory of value
5 <sup>th</sup> week	Bohm-Bawerk Theory of capital
6 <sup>th</sup> week	Revision and Test.
7 <sup>th</sup> week	Walras Theory of general Equilibrium
8 <sup>th</sup> week	A Genral overview of marshalls contribution
9 <sup>th</sup> week	Revision and Test.
10 <sup>th</sup> week	Neo-calssical economics:J.M Keynes and his contribution
11 <sup>th</sup> week	Arrow Theorm of welfare economics
12 <sup>th</sup> week	Social choice theory
13 <sup>th</sup> week	Retional Expectation Modals
14 <sup>th</sup> week	New classical macro economics
15 <sup>th</sup> week	Revision and Test.
16 <sup>th</sup> week	Revision and Test

**Class: B.A hons 3<sup>rd</sup> Year 6<sup>th</sup> Semester**

**Subject: International Economics**

**Name of Teacher: POOJA**

<b>No. of Weeks</b>	<b>Content of the Syllabus</b>
1 <sup>st</sup> Week	Rationale of protection :Tariff and Non-tariff barriers to Trade-Quota
2 <sup>nd</sup> Week	Voluntary export restraints
3 <sup>rd</sup> week	Export subsidies,dumping and international cartel
4 <sup>th</sup> week	Revision and Test
5 <sup>th</sup> week	Forms of economic co-operation
6 <sup>th</sup> week	Static Effects of custom union
7 <sup>th</sup> week	Dynamic Effects of custom union
8 <sup>th</sup> week	Free trade area
9 <sup>th</sup> week	Revision and Test
10 <sup>th</sup> week	World Trade Organisation and India
11 <sup>th</sup> week	Recent change in the direction and composition of India`s Foreign trade
12 <sup>th</sup> week	Multi-National corporation
13 <sup>th</sup> week	Export promotion
14 <sup>th</sup> week	Import substitution
15 <sup>th</sup> week	Recent import and export policies
16 <sup>th</sup> week	Revision and Test

**Class: M.A. 2<sup>nd</sup> Year 4<sup>th</sup> Semester**

**Subject: International Economics**

**Name of Teacher: POOJA**

<b>No. of Weeks</b>	<b>Content of the Syllabus</b>
1 <sup>st</sup> Week	Foreign trade multiplier
2 <sup>nd</sup> Week	Merits and demerits of fixed and flexible exchange rate
3 <sup>rd</sup> week	Forms of economic cooperation
4 <sup>th</sup> week	Static and Dynamic Effects of custom union and free trade area
5 <sup>th</sup> week	International Monetary system
6 <sup>th</sup> week	Multilateralism and WTO
7 <sup>th</sup> week	International reserves :conditionality clause IMP
8 <sup>th</sup> week	Emerging International Monetary system with special reference to post maastricht developments and developing countries
9 <sup>th</sup> week	Reforms of IMS
10 <sup>th</sup> week	Theory of regionalism at global level collapse of brettonwood systems,optimum currency areas
11 <sup>th</sup> week	GATT,WTO(TRIPS,TRIMS)
12 <sup>th</sup> week	Direction and composition of trade and their Implication,rationale and impact of trade reforms since 1991 on balance of payments,employment and growth
13 <sup>th</sup> week	Indian`s internationaldebt
14 <sup>th</sup> week	Working and regulations of MN9 in India
15 <sup>th</sup> week	Recent import and export policies and agenda for future
16 <sup>th</sup> week	Revision and Test

**Class: B.A. 3<sup>Rd</sup> Year 6<sup>th</sup> Semester**

**Subject: HUMAN RESOURCES DEVELOPMENT**

**Name of Teacher: POOJA**

Week	
1 <sup>st</sup> Week	Concept, nature and scope of HRD
2 <sup>nd</sup> Week	Significance, objectives and functions of HRD
3 <sup>rd</sup> week	HRD and man power planning
4 <sup>th</sup> week	Human capital: concept, determinants and problem of measurement
5 <sup>th</sup> week	Theories of human capital formation: particularly in the context of developing economies
6 <sup>th</sup> week	Role of public and private investment in human capital formation
7 <sup>th</sup> week	Economics of education
8 <sup>th</sup> week	Economics of health and nutrition
9 <sup>th</sup> week	Functioning of market for human resources
10 <sup>th</sup> week	Functioning of market for human resources
11 <sup>th</sup> week	Functioning of market for human resources
12 <sup>th</sup> week	<b>Vacations</b>
13 <sup>th</sup> week	Human resource management practices
14 <sup>th</sup> week	Human resource management practices- sub topics
15 <sup>th</sup> week	Human resource management practices- sub topics
16 <sup>th</sup> week	Tests and revision

Academic session 2023-24

Subject: Business economics

Class B.com 1<sup>st</sup>(Pass course) Semester 2<sup>nd</sup>

Asst.Prof. Pooja

Week	
1 <sup>st</sup> Week	Forms of market
2 <sup>nd</sup> Week	Perfect competition
3 <sup>rd</sup> week	Price determination
4 <sup>th</sup> week	Equilibrium of firm and industry
5 <sup>th</sup> week	Revision and test
6 <sup>th</sup> week	Monopoly market
7 <sup>th</sup> week	Price discrimination
8 <sup>th</sup> week	Monopolistic competition
9 <sup>th</sup> week	Product differentiation
10 <sup>th</sup> week	Oligopoly
11 <sup>th</sup> week	Kinked demand curve
12 <sup>th</sup> week	Price leadership model
13 <sup>th</sup> week	Theory of factor pricing
14 <sup>th</sup> week	Rent ,Profit
15 <sup>th</sup> week	Wages , Interest
16 <sup>th</sup> week	Revision

# Lesson Plan

**Class – B.A. 3rd Semester**

**Faculty – Dr. Bhupinder**

**Subject – Macro Economics**

**Lesson Plan Session – 2023-24**

<b>Time Period</b>	<b>Topics</b>
Week,1	Concept of money in a modern economy, monetary aggregates, demand for money.
Week, 2	<b>Quantity theory of money, liquidity preference and rate of interest.</b>
<b>Week, 3</b>	<b>Money supply and credit creation and monetary policy</b>
Week, 4	<b>Derivation of IS and LM functions,IS- LM and aggregate demand</b>
<b>Week, 5</b>	<b>Shift in AD karo, theories of trade cycle ; Samuelson model</b>
<b>Week, 6</b>	<b>Hicks model of trade cycle , gains from international trade.</b>
<b>Week, 7</b>	<b>Balance of payments, Market for foreign exchange</b>
<b>Week, 8</b>	Determination of exchange rates
<b>Week, 9, 10</b>	<b>Nature and scope of public finance, principle of maximum social advantage</b>
<b>Week, 11</b>	<b>Effects of public expenditure, impact and incidence of taxes,</b>
<b>Week, 12</b>	<b>Characteristics of a good taxation system</b>
<b>Week 13</b>	Test and revision and assignment

**Class – M.A.(Economics) 4th Semester**

**Faculty – Dr. Bhupinder**

**Subject - Indian Economy-11**

**Lesson Plan Session 2023-24**

<b>Time Period</b>	<b>Topics</b>
Week, 1	<b>Agriculture; Role and features of Indian agriculture ,Technological change in agriculture</b>
Week, 2	<b>Trends in agricultural production and productivity; WTO and Indian agriculture, poverty in India ;absolute and relative analysis of poverty</b>
Week, 3	<b>Industry growth and pattern of industrialisation, new industrial policy and liberalisation, impact on Indian economy</b>
Week,4	<b>Public sector enterprises; Trends and performance ,small and cottage industries ,issues of privatization</b>
Week, 5	<b>Unemployment and migration in India</b>
Week, 6	<b>External sector, structure and direction of Foreign trade ,balance of payments</b>
Week, 7	<b>Issues in Export -Import policy and FIMA exchange policy, Foreign capital and mnc's in India</b>
Week, 8	<b>Environment as necessity Amenity and public goods</b>
Week,9	<b>Causes of environmental and Ecosystem degeneration-- policies for controlling pollution -economic and persuasive their relative effectiveness in LDCs</b>
Week,10	<b>Relation between population, poverty and environmental degradation</b>
Week, 11	<b>Micro planning for environment and Eco Preservation- water sheds, joint forest management and self help groups</b>
Week,12	<b>Role of state in Environmental preservation- f review of environmental legislation in India</b>
Week, 13	<b>Revision and assignment work</b>

**Class – B.A.(H) 2nd semester**

**Faculty – Dr. Bhupinder**

**Subject – Mathematics For Economists**

**Lesson Plan Session – 2023-24**

<b>Time Period</b>	<b>Topics</b>
Week,1	Integration; meaning and economic interpretation; indefinite and Definite Integration
Week, 2	<b>Simple techniques including integration by substitution and integration by parts</b>
<b>Week, 3</b>	<b>Differential equation- basic concepts, solution of first order linear differential equation</b>
Week, 4	<b>Non- linear differential equation, exact and variable separable type only.</b>
<b>Week, 5</b>	<b>Linear differential equation of second order with constant Coefficient and term</b>
<b>Week, 6</b>	<b>Difference equation- basic concepts, solution of first and second order linear difference equation with constant term and coefficient.</b>
<b>Week, 7</b>	<b>Linear programming;- relevance and basic concepts</b>
<b>Week, 8</b>	Graphic and simplex methods
<b>Week, 9, 10</b>	<b>Dual solution ,economic interpretation of dual</b>
<b>Week, 11</b>	<b>Test and revision and assignment work</b>
<b>Week, 12</b>	<b>Test and revision</b>
<b>Week 13</b>	Test and revision and assignment work

**Class – B.A.(H) 3rd Semester**

**Faculty – Dr. Bhupinder**

**Subject - Development Economics-11**

**Lesson Plan Session 2023-24**

<b>Time Period</b>	<b>Topics</b>
Week, 1	<b>Dualistic development: social and Technological dualism</b>
Week, 2	<b>Nurkse disguised unemployment as saving potential, Reni-Fei theory of dual economy</b>
Week, 3	<b>Harish todaro model of migration</b>
Week,4	<b>Models of growth ;classical model, Mill theory</b>
Week, 5	<b>Marksian model and Keynesian model</b>
Week, 6	<b>Inequality and development; meaning, measurement Lorenz curve</b>
Week, 7	<b>Kuznets inverted u shape curve, inequality and development,interconnection- population growth and economic development</b>
Week, 8	<b>Capital formation;' meaning and sources, capital output ratio</b>
Week,9	<b>Human capital;- concept and utilisation, Foreign aid and economic development</b>
Week,10	<b>Transfer of Technology</b>
Week, 11	<b>Assignment works</b>
Week,12	<b>Revision and test</b>
Week, 13	<b>Revision and test</b>

**Class – M.A.-3rd Semester**

**Faculty – Dr. Bhupinder**

**Subject – Growth and Development-11**

**Lesson Plan Session – 2023-24**

<b>Time Period</b>	<b>Topics</b>
Week,1	<b>Sectoral aspects of development; importance of agriculture and industry in economic development</b>
Week, 2	<b>Role of Institutions, Government and Markets</b>
<b>Week, 3</b>	<b>Poverty; indicators and Measurement</b>
Week, 4	<b>Trade and Development : trade as an engine of growth, prebisch, singer and Murdal views ,gains from trade and LDCs</b>
<b>Week, 5</b>	<b>Two gap analysis ,role of foreign direct investment</b>
<b>Week, 6</b>	<b>Multinational corporations(MNCs) in the emerging scenario , objectives and role of monetary policy in economic development</b>
<b>Week, 7</b>	<b>Role of fiscal policy in economic development, Choice of technique and appropriate Technology</b>
<b>Week, 8</b>	<b>Investment criteria, cost benefit analysis</b>
<b>Week, 9, 10</b>	<b>Techniques of planning, plan models in India , planning in a market oriented economy, endogeneous growth, role of education, research and knowledge</b>
<b>Week, 11</b>	<b>Explanation of cross country differentials in economic development and growth</b>
<b>Week, 12</b>	<b>Test and revision</b>
<b>Week 13</b>	<b>Test and revision and assignment</b>

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**Class – M.A. 2nd Semester**

**Faculty – Dr. Bhupinder**

**Subject – Managerial Economics**

**Lesson Plan Session – 2023-24**

<b>Time Period</b>	<b>Topics</b>
Week,1	Meaning and nature of managerial economics; how does economics contribution to managerial functions
Week, 2	Business decision and economic analysis, scope of managerial economics
<b>Week, 3</b>	Application of micro economics to operational issues, application of macro economics to business environment
Week, 4	The gap between theory and practice and role of managerial economics, Analysis of market demand, meaning of market demand, types of demand
<b>Week, 5</b>	Determinants of market demand, demand elasticity importance of elasticity concept, price elasticity of demand, measuring price elasticity from a demand function
<b>Week, 6</b>	Determinants of price elasticity of demand, price elasticity and total revenue, price elasticity and marginal revenue, cross elasticity of demand, income elasticity of demand, elasticity of price Expectations , promotional elasticity of sales
<b>Week, 7</b>	Demand forecasting, why demand forecasting, techniques of demand forecasting, survey method, complete enumeration, sample survey and end- use methods
<b>Week, 8</b>	Opinion Poll methods, Expert- Opinion method, Deephi method and market studies and experiments , statistical methods ,trend projections methods based on time series data, econometrics methods

<b>Week, 9, 10</b>	Cost and break even analysis- some accounting and analytical cost concepts; economies and diseconomies of scale
<b>Week, 11</b>	Break even analysis, linear and non linear Cost and revenue functions; contributonal analysis,
<b>Week, 12</b>	Profit volume ratio, margin of safety
<b>Week 13</b>	Test and revision and assignment

## Lesson Plan

Academic session 2023-24

Subject: 17ECO24D1 Agricultural Economics-II (Discipline Specific Course)

Semester 4<sup>th</sup>

Dr Satyawan Jatain

Week	Contents
1	Terms of Trade between Agriculture and Industry: Meaning; Impact of change in terms of trade in favour of and against agriculture; changes in terms of trade between agriculture and industry during the course of economic development;
2	Terms of trade between agriculture and industry in India since Independence; Agricultural Marketing: Need for an efficient system of agricultural marketing; Efficiency of agricultural Marketing system in India;
3	Measures to improve the efficiency of agricultural marketing in India. Cooperative movement in India - organization structure and development of different types of cooperatives in India.
4	Terms of Trade between Agriculture and Industry: Meaning; Impact of change in terms of trade in favour of and against agriculture; changes in terms of trade between agriculture and industry during the course of economic development;
5	Terms of trade between agriculture and industry in India since Independence; Agricultural Marketing: Need for an efficient system of agricultural marketing; Efficiency of agricultural Marketing system in India;
6	Measures to improve the efficiency of agricultural marketing in India. Cooperative movement in India - organization structure and development of different types of cooperatives in India.
7	Agricultural Credit: Importance of agricultural credit; Sources (formal and informal), problems and Government policies since Independence. Capital formation in the rural sector - savings, assets and credits
8	Issues in Agriculture price policy: objectives of Agricultural Price Policy; Main elements of Agricultural Price Policy; Agricultural Price Policy in India: Its evolution; objectives of Price policy in India

9	Important constitution of Agriculture Price Policy in India; Critical Evaluation of India's Agriculture Price Policy; Need for Revision of Agricultural Price Policy in India.
10	The New Economic Policy and Indian Agriculture: Macro Economic Stabilization measures; structural Adjustments in the Agricultural Sector
11	World Trade Organization and Indian Agriculture; Model of Production Debate:
12	Private V /s Public investment in Agriculture; Trends in public and private investment in Indian Agriculture.
13	Test, Revision and Collection of Assignments from Students

Academic session 2023-24

Subject: 16ECO22C4 -Mathematics for Economists-II

Class: M.A 1<sup>st</sup> -Semester 4<sup>th</sup>

DrSatyawanjatain

Week	Contents
1	Integration – meaning and economic interpretation. Indefinite and definite integration.
2	Simple techniques including integration by substitution and integration by parts.
3	Problems and Practices of the 1 <sup>st</sup> Unit
4	Differential equation – basic concepts, solution of first order linear differential equation. Non-linear differential equation – e
5	exact and variable separable type only. Linear differential equation of second order with constant coefficient and term
6	Problems and Practices of the 2 <sup>nd</sup> Unit
7	Difference equation – basic concepts, solution of first Order linear difference equation
8	Second order linear difference equation with constant term and coefficient.
9	Problems and Practices of the 3 <sup>rd</sup> Unit
10	Linear Programming – Relevance and basic concepts, Graphic,
11	Simplex and dual solution. Economic interpretation of dual
12	Problems and Practices of the 4 <sup>th</sup> Unit
13	Test, Revision and Collection of Assignments from Students

Academic session 2023-24

Subject: Economics of Public Finance-EC28

Class: B.A 3<sup>rd</sup> (Hons.) Semester 6<sup>th</sup>

DrSatyawanjatain

Week	Contents
1	Nature of Public Finance, Scope and importance of Public Finance
2	Theory of maximum Social advantage
3	Private goods and Public goods, and Merit goods
4	Role of Government, Optimal provision of Public goods
5	Revenue account and Capital account
6	Different concept of Budgetary deficits
7	Economic and functional classification of budget
8	Tax and non-Tax sources, Taxable capacity
9	Direct and indirect taxes, Revision and test
10	Benefit principle and ability to pay principle
11	Theory of incidence of indirect taxes
12	Wagner, Peacock and Wiseman Hypothesis, Canon of public expenditure, Revision and test
13	Changing trend and pattern of taxes in India
	Tests and revision

Academic session 2023-24

Subject: International Economics

Class: B.A 3<sup>rd</sup> Pass Semester 6<sup>th</sup>

Dr.Satyawanjatin

Week	Contents
1	Inter-regional and international trade
2	Comparative cost and Hecksher-ohlin theory
3	Rate of Exchange
4	Fixed and flexible exchange rate
5	Free trade vs protection
6	Exchange control
7	Change in volume of trade
8	Balance of payments
9	Foreign trade multiplier
10	I.M.F
11	World Bank
12	W.T.O and SAARC
13	Test, Revision and Collection of Assignments from Students

**Name of College: GCW Rohtak**

**Session: 2023-24**

**Name of Assistant Professor: Dr. Yogesh**

**Class: B.A. (Eco Hons) 2nd Sem**

**Subject: Micro Economics**

Month	Description of the Syllabus to be covered	Other activities
01 Jan to 25 January	Price and output determination: Oligopoly-Price and output determination – Non Collusive: Cournot, Kink demand curve and price rigidity, Collusive: Price leadership, Cartels.	Classroom Quiz
26 January to 20 February	Alternative Theories of the Firm: Critical evaluation of marginal analysis; Baual's sales revenue maximization model (simple static with advertisement model); Full-cost pricing rule; Bain's, limit pricing theory.	Unit Test
21 Feb. to 20 March	Theory of Factor Pricing: Market for Factor Inputs: (largely with reference to Labour): A Firm's and Market Demand for a labour (with one and several variable inputs) and its determinations. Supply of labour to a firm and the Market. Equilibrium Wage Rate and Employment under:- (i) Competitive Factor and Product Market (ii) Monopsonistic buyer of Labour and perfect competition in Labour market (iii) Imperfect competition in product market and Trade Union Monopoly (iv) Bilateral Monopoly	Group discussion
21 March to 20 April	Welfare Economics: Conditions of Pareto Optimality; Pareto efficiency versus Pareto optimality, Market failure and its causes; Markets with Imperfect competition; consumption and production externalities; public goods. Ways for correcting it.	Unit Test

**Name of College: GCW Rohtak**

**Session: 2023-24**

**Name of Assistant Professor: Dr. Yogesh**

**Class: MA Economics (2<sup>nd</sup> Year)**

**Subject: Public Economics**

<b>Month</b>	<b>Description of the Syllabus to be covered</b>	<b>Other activities</b>
01 Jan to 25 January	Fiscal Federalism: Principles of multi-unit finance; principles of grant design; Indian fiscal federalism, vertical and horizontal imbalances, assignment of functions and sources of revenue; constitutional provisions; Finance . Commissions and Planning Commission.	Classroom Quiz
26 January to 20 February	Centre-State financial relations in India, problems of State's resources and indebtedness; transfer of resources from Union to States and, States to Local Bodies. Public Finance - Trends in revenue and expenditures of the Central and State Governments.	Unit Test
21 Feb. to 20 march	Fiscal Policy: Instruments and transmission mechanisms; fiscal policy for stabilization-automatic vs. discretionary stabilization; various concepts of budgetary deficits; fiscal deficit in India: extend, trend and, implication.	Group discussion
21 March to 20 April	Public debts: India's public debt since 1951-growth, composition, ownership pattern and debt management. Fiscal reforms in India.	Unit Test

**Name of College: GCW Rohtak**

**Session: 2023-24**

**Name of Assistant Professor: Dr. Yogesh**

**Class: B.A. (Eco. Hons) 4th Sem**

**Subject: Basic of Statistics**

<b>Month</b>	<b>Description of the Syllabus to be covered</b>	<b>Other activities</b>
01 Jan to 25 January	Correlation and Regression: Simple Correlation: Type of correlation, Karl Pearson's Coefficient of correlation and Spearman's Rank correlation, Concurrent Deviation method. Coefficient of determination. Regression analysis –Concept, fitting of regression lines (method of least squares). Properties of regression coefficients.	Classroom Quiz
26 January to 20 February	Time Series Analysis - Concept and components, Determination of trend (Linear, Quadratic and Exponential ) and seasonal Variations.	Unit Test
21 Feb. to 20 march	Probability: Random experiment, Random variable, Sample space and events. Permutation and combinations .Theorems of Probability (Addition and Multiplication ).Conditional probability.	Group discussion
21 March to 20 April	Theoretical Distribution-Binomial, Poisson and Normal, with their Properties	Unit Test

**Name of College: GCW Rohtak**

**Session: 2023-24**

**Name of Assistant Professor: Dr. Yogesh**

**Class: B.Com (Pass) 2nd sem      Section: B**

**Subject: Business Economics**

<b>Month</b>	<b>Description of the Syllabus to be covered</b>	<b>Other activities</b>
01 Jan to 25 January	Perfect Competition: Profit Maximization and equilibrium of firm and industry; Short run and Long run Supply Curves; Price and output determination, Practical Applications. Monopoly: Determination of price under Monopoly; Equilibrium of a firm; comparison between Monopoly and Perfect Competition; Price Discrimination; Multi-Plant Monopoly, Practical Applications.	Classroom Quiz
26 January to 20 February	Monopolistic Competition: Meaning and Characteristics; price and output determination under monopolistic Competition; Product differentiation; Selling cost; comparison with Perfect Competition; Excess capacity under Monopolistic Competition, Oligopoly : features, price rigidity model, duopoly model, price leadership.	Unit Test
21 Feb. to 20 march	Marginal Productivity Theory and demand for factors; nature of supply of factor inputs, Determination of wage rates under perfect competition and monopoly. Exploitation of labour; Rent- Concept, Recardian concept and Modern Theories of rent; Quasi Rent.	Group discussion
21 March to 20 April	Interest- concept and Theories of interest; Profit- nature, concept and theories of profit, break-even point analysis.	Unit Test

**Name of College: GCW Rohtak**

**Session: 2023-24**

**Name of Assistant Professor: Dr. Yogesh**

**Class: MA Economics**

**Subject: Micro Economics**

<b>Month</b>	<b>Description of the Syllabus to be covered</b>	<b>Other activities</b>
01 Jan to 25 January	<b>Price and output determination:</b> Oligopoly-Price and output determination – Non Collusive: Cournot, Kink demand curve and price rigidity, Collusive: Price leadership, Cartels.	Classroom Quiz
26 January to 20 February	<b>Alternative Theories of the Firm:</b> Critical evaluation of marginal analysis; Baumal's sales revenue maximization model (simple static with advertisement model); Full-cost pricing rule; Bain's, limit pricing theory.	Unit Test
21 Feb. to 20 March	<b>Theory of Factor Pricing:</b> Market for Factor Inputs: (largely with reference to Labour): A Firms's and Market Demand for a labour (with one and several variable inputs) and its determinations. Supply of labour to a firm and the Market.  <b>Equilibrium Wage Rate and Employment under:-</b>  (i) Competitive Factor and Product Market  (ii) Monopsonistic buyer of Labour and perfect competition in Labour market  (iii) Imperfect competition in product market and Trade Union Monopoly	Group discussion

	(iv) Bilateral Monopoly	
21 March to 20 April	<b>Welfare Economics:</b> Conditions of Pareto Optimality; Pareto efficiency versus Pareto optimality, Market failure and its causes; Markets with Imperfect competition; consumption and production externalities; public goods. Ways for correcting it.	Unit Test

NAME OF Assistant Professor: Dr. Rita Khanna

CLASS: BA 1<sup>st</sup> 2<sup>nd</sup> semester

SUBJECT: Sanskrit HH

SESSION: 2023-24 (Even sem)

Week 1,	Unit 1, Padhyabhag
Week 2,	Unit 1, Padhyabhag
Week 3,	Unit 1, Padhyabhag
Week 4,	Unit 2, Gadhyabhag
Week 5,	Unit 2, Gadhyabhag
Week 6	Unit 2, Gadhyabhag
Week 7	Unit 2, Gadhyabhag
Week 8	Unit 3, ShabadRupani
Week 9	Unit 3, ShabadRupani
Week 10	Unit 4,ShabadRupani
Week 11	Unit 4,ShabadRupani
Week 12	Unit 5, sandhi
Week 13	Unit 5, sandhi
Week 14	Revision
Week 15	Revision
Week 16	Revision

NAME OF LECTURER: Dr. Rita Khanna

CLASS: BA 2<sup>nd</sup> year 4<sup>th</sup> semester

SUBJECT: Sanskrit Elective

SESSION: 2023-24(even sem)

Week 1	Unit 1 shrimadbhagvadgeeta
Week 2,	Unit 1 shrimadbhagvadgeeta
Week 3	Unit 1 shrimadbhagvadgeeta
Week 4	Unit 1 shrimadbhagvadgeeta
Week 5	Unit 2 Raghuvansh
Week 6	Unit 2 Raghuvansh
Week 7	Unit 2 Raghuvansh
Week 8	Unit 2 Raghuvansh
Week 9	Unit 3 samash
Week 10	Unit 3 samash
Week 11	Unit 4 Partayay
Week 12	Unit 4 Partayay
Week 13	Unit 5 Partayaharsutra
Week 14	Unit 5 Patar anuwaad
Week 15	Revision
Week 16	Revision

NAME OF LECTURER: Dr. Rita Khanna

CLASS: BSC 2<sup>nd</sup> Year 4<sup>th</sup> semester

SUBJECT: Sanskrit

SESSION: 2023-24 (even sem)

Week 1,	Unit 1, Padhyabhag
Week 2,	Unit 1, Padhyabhag
Week 3,	Unit 1, Padhyabhag
Week 4,	Unit 2, Gadhyabhag
Week 5,	Unit 2, Gadhyabhag
Week 6	Unit 2, Gadhyabhag
Week 7	Unit 2, Gadhyabhag
Week 8	Unit 3, ShabadRupani
Week 9	Unit 3, ShabadRupani
Week 10	Unit 4,ShabadRupani
Week 11	Unit 4,ShabadRupani
Week 12	Unit 5, sandhi
Week 13	Unit 5, sandhi
Week 14	Revision
Week 15	Revision
Week 16	Revision

**Lesson Plan Academic Session 2023-24**

**Subject — Developmental Psychology**

**Class B.A Pass Course Semester 4**

**Associate Professor — Dr. Neelam Raipuria Mangla**

**Week wise Topic**

**Jan 24**

1<sup>st</sup> week- Practical Exam

2<sup>rd</sup> week — Practical Exam

3<sup>rd</sup> week - Introduction to Developmental Psychology

4<sup>th</sup> week - Introduction to Developmental Psychology

**Feb 24**

1<sup>st</sup> week - Principles of Development

2<sup>nd</sup> week - Factors affecting Development

3<sup>rd</sup> week- Prenatal Development

4<sup>th</sup> week - Infancy, Childhood

**Mar 24**

1<sup>st</sup> week -Childhood

2<sup>nd</sup> week - Adolescence

3<sup>rd</sup> week - Adulthood

4<sup>th</sup> week — Holiday

**April 24**

1<sup>st</sup> week -Language Development

2<sup>nd</sup> week-Cognitive Development

3<sup>rd</sup> week -Statistical Analysis

4<sup>th</sup> week- Aging

**DEPARTMENT OF PSYCHOLOGY**

**LESSON PLAN : 2023-2024**

**B.A. Hons. (6 sem) CLINICAL PSYCHOLOGY**

**Submitted by DR. NEELAM MANGLA**

**JAN. 24**

1<sup>st</sup> week- Practical Exam

2<sup>nd</sup> week- Practical Exam

3<sup>rd</sup> Week - Introduction to Clinical Psychology, History

4<sup>th</sup> Week - Role of Clinical Psychologist, Models of Clinical Psychology

**FEB 24**

1<sup>st</sup> Week - Models of Clinical Psychology

2<sup>nd</sup> Week - Models of Clinical Psychology

3<sup>rd</sup> Week - Clinical Assessment

4<sup>th</sup> Week - Therapies

**MARCH 24**

1<sup>st</sup> Week - Therapies

2<sup>nd</sup> Week — Different study methods

3<sup>rd</sup> Week — Client Centred Therapy

4<sup>th</sup> Week - Holi Vacation

**APRIL 24**

1<sup>st</sup> Week - Ethical Cultural Issues

2<sup>nd</sup> Week – Future of Clinical Psychology

3<sup>rd</sup> Week- Group Therapy

4<sup>th</sup> Week- Class Test and Revision, Short Questions

**DEPARTMENT OF PSYCHOLOGY**

**LESSON PLAN : 2023-2024**

**B.A. Hons. (6 sem) DEVELOPMENTAL PSYCHOLOGY**

**Submitted by DR. NEELAM MANGLA**

**JAN. 24**

1<sup>st</sup> week- Practical Exam

2<sup>nd</sup> week- Practical Exam

3<sup>rd</sup> Week - Historical background of Human Development, Principles of Development, Methods of Human Development

4<sup>th</sup> Week - Theories and factors of Human Development

**FEB 24**

1<sup>st</sup> Week - Role of Biological and social factors

2<sup>nd</sup> Week - Cultural factors affecting human development, Nature-Nurture

3<sup>rd</sup> Week - Pre Natal development and its periods, Hazards of Pre Natal period

4<sup>th</sup> Week - Maternal health at risk, Characteristics, development and problems of Infancy

## **MARCH 24**

1<sup>st</sup> Week - Nature , Characteristics and problems of adolescence

2<sup>nd</sup> Week — Youth and its current status, self concept, identity and self esteem, Characteristics and problems of childhood

3<sup>rd</sup> Week — Role of family, peers , school and medium, cognitive development

4<sup>th</sup> Week - Holi Vacation

## **APRIL 24**

1<sup>st</sup> Week - Emotional , behavioural and social approaches of Emotional behavior

2<sup>nd</sup> Week — Behavioural and environmental influence of cognitive development

3<sup>rd</sup> Week- Nature and approaches of cognitive development ,development of Language.

4<sup>th</sup> Week- Moral development, Temperament, Conscience development in Young children

**Lesson Plan: BA Psychology Hons. 3rd Year (6th semester) 2023-2024**

**Faculty: Mr. Vinod**

**Paper: ORGANIZATIONAL BEHAVIOUR**

**Jan 24**

1<sup>st</sup> week: Practical exams

2<sup>nd</sup> week: Practical exams

3<sup>rd</sup> week: Organizational behaviour: Nature and scope of organizational behavior

4<sup>th</sup> week: challenges of Organizational behavior

## **Feb 24**

1<sup>st</sup> week: Motivation: Meaning, approaches and models of motivation

2<sup>nd</sup> week: Content models and Process models

3<sup>rd</sup> week: Motivation & Its Applications in organizations, Motivational practices

4<sup>th</sup> week: Management by objectives (MBO), Employee Involvement and Recognition strategies.

## **March 24**

1<sup>st</sup> Week- Leadership: Meaning, Traits of leader, Is leadership person, process or position?

2<sup>nd</sup> Week- Theories of leadership: Trait theories (Ohio & Michigan),

3<sup>rd</sup> week- Behavioural theories (Blake and Mouton), Situational theories (Fiedler contingency Model)

4<sup>th</sup> week - Holi Vacation

## **April 24**

1<sup>st</sup> week- Conflict and Negotiation: Meaning and types of organizational conflict,

2<sup>nd</sup> week- Negotiation Tactics

3<sup>rd</sup> week- Organizational culture and organizational change

4<sup>th</sup> week- Dynamics of organization culture, challenges and Resistance to change

**Lesson Plan: BA Psychology Hons. Ist Year (2nd semester) 2023-2024**

**Faculty: Mr. Vinod**

**Paper: BASICS OF RESEARCH METHODS & STATISTICS**

**Jan 24**

1<sup>st</sup> week: Practical exams

2<sup>nd</sup> week: Practical exams

3<sup>rd</sup> week: Data Collection Techniques: Observation

4<sup>th</sup> week: Questionnaire

**Feb 24**

1<sup>st</sup> week: Data Collection Techniques: Interview

2<sup>nd</sup> week: Telephone Interview, Sociometry

3<sup>rd</sup> week: Writing up a Research Report - APA Style.

4<sup>th</sup> week: Normal Distribution Curve: Concept of Normal Probability Curve.

**March 24**

1<sup>st</sup> Week- Laws of Normal Probability Curve,

2<sup>nd</sup> Week- Characteristics and its Applications

3<sup>rd</sup> week- Correlational Methods: Concept of Correlation, Spearman's Rank — Difference method, Product moment method

4<sup>th</sup> week- Holi Vacation

## **April 24**

1<sup>st</sup> week- Research Design: Within and Between. Requirement of a good research design.

2<sup>nd</sup> week-.. Within — Single Group Design, Between Group — Two Randomized,

3<sup>rd</sup> week-. Matched Group, Multigroup Design

4<sup>th</sup> week- Sampling — its Techniques, Assumption of Parametric and Non-Parametric Tests

## **Lesson Plan: BA Psychology Hons. 2nd Year (4th semester) 2023-2024**

**Faculty: Mr. Vinod**

**Paper: PSYCHOPATHOLOGY**

### **Jan 24**

1<sup>st</sup> week: Practical exams

2<sup>nd</sup> week: Practical exams

3<sup>rd</sup> week: Introduction to Psychopathology: Concept of Psychopathology

4<sup>th</sup> week: Models of Psychopathology: Psychodynamic, Behavioural, Cognitive Behavioural

### **Feb 24**

1<sup>st</sup> week: Clinical Assessment: Clinical Interview, Case History, Psychological Tests.

2<sup>nd</sup> week: Anxiety disorders: Generalized Anxiety disorder.

3<sup>rd</sup> week: Phobia, Obsessive Compulsive disorder, Posttraumatic Stress disorder.

4<sup>th</sup> week: Conversion Hysteria, Personality disorder: Paranoid, Antisocial, Borderline personality disorder, Avoidant.

### **March 24**

1<sup>st</sup> Week- Mood disorders: Major depressive disorders and Bipolar-I & Bipolar-II disorder

2<sup>nd</sup> Week- Schizophrenia: Nature, Types, Etiology and Treatment.

3<sup>rd</sup> week- Substance and Alcohol related disorders

4<sup>th</sup> week - Holi Vacation

### **April 24**

1<sup>st</sup> week- Clinical Intervention: Meaning & goals,

2<sup>nd</sup> week- Psychodynamic, Behavioural, Cognitive Behavioural, Biological Therapies.

3<sup>rd</sup> week- Mental Health: Components, Importance

4<sup>th</sup> week- Measures for promoting mental health.

## **Lesson Plan Academic Session 2023-24**

**Subject — Psychology**

**Class & Sem**

**— B.A (Hons) 4<sup>th</sup> Sem**

**Paper — Life style & health (PY14)**

**Extension Lecturer : KAVITA DEVI**

## **Jan 24**

1<sup>st</sup> week- Practical Exam

2<sup>nd</sup> week — Practical Exam

3<sup>rd</sup> week — Health Behavior

4<sup>th</sup> week- Seeking Health Care

## **Feb 24**

1<sup>st</sup> week — Modifying health behavior

2<sup>nd</sup> week — Modifying health behavior

3<sup>rd</sup> week — Attitude change and health behavior

4<sup>th</sup> week — Theory of planned behavior & reasoned action

## **Mar 24**

1<sup>st</sup> week — Health enhancing behavior (exercise)

2<sup>nd</sup> week — Accident prevention

3<sup>rd</sup> week - Health enhancing behavior (exercise)

4<sup>th</sup> week — Holi Vacation

## **Apr 24**

1<sup>st</sup> week — Health compromising behavior - smoking

2<sup>nd</sup> week — Health compromising behavior — alcoholism

3<sup>rd</sup> week — Stress and Coping

4<sup>th</sup> week — Regulation and treatment of Obesity

**Lesson Plan: BA Psychology Hons. 2nd Year (4th semester) 2023-2024**

**Faculty: Mrs. Kavita Devi**

**Paper: PSYCHOLOGICAL ASSESSMENT**

**Jan 24**

1<sup>st</sup> week: Practical exams

2<sup>nd</sup> week: Practical exams

3<sup>rd</sup> week: Psychological Assessment — Meaning and nature

4<sup>th</sup> week: Intellectual Assessment: Individual Tests — Wechsler Scales — WAIS, WISC and WPPSI

**Feb 24**

1<sup>st</sup> week: Group Tests - Culture fair Intelligence test, Raven's progressive matrices

2<sup>nd</sup> week: Personality Assessment: Self report inventories — Empirical, Criterion Keying

3<sup>rd</sup> week: MMPI; Factor Analysis: 16 PF; Personality Theory: EPPS

4<sup>th</sup> week: Projective Techniques — Inkblot, Rorschach, Pictorial, TAT, Completion, Sentence Completion Test

**March 24**

1<sup>st</sup> Week- Measuring Interests - Strong Interest Inventory, Kuder Occupational Interest Survey

2<sup>nd</sup> Week- Measurement of Aptitudes — Multiple Aptitude Test Batteries: Differential Aptitude Test

3<sup>rd</sup> week- Educational Achievement Tests — Iowa Tests of Basic Skills

4<sup>th</sup> week-Holi Vacation

## **April 24**

1<sup>st</sup> week- Metropolitan Achievement Test

2<sup>nd</sup> week- Achievement Tests —Tests of General Educational Development

3<sup>rd</sup> week- for College Performance — Scholastic Assessment Tests

4<sup>th</sup> week- Graduate Record Exam

## **Department of psychology**

### **Lesson Plan Academic Session 2023-24**

**Subject — Psychology**  
**B.A (Pass course) 2nd Sem**

**Class & Sem —**

**Paper — Experimental Psychology (PY02)**  
**Lecturer : KAVITA DEVI**

**Extension**

## **Jan 24**

1<sup>st</sup> week- Practical Exam

2<sup>rd</sup> week — Practical Exam

3<sup>rd</sup> week —Attention

4<sup>th</sup> week- Psychophysics

## **Feb 24**

1<sup>st</sup> week — Psychophysics

2<sup>nd</sup> week — Learning

3<sup>rd</sup> week — Trail and error & insight learning

4<sup>th</sup> week — Classical & operant conditioning

## **Mar 24**

1st week — Short Term Memory

2nd week — Long Term Memory, Forgetting

3rd week — Problem Solving

4th week — Holiday

**Apr 24**

1st week — Thinking

2nd week — Statistics Frequency Distribution

3rd week — Graphical presentation of Data

4th week — Measures of Central Tendencies

## **DEPARTMENT OF PSYCHOLOGY**

**LESSON PLAN : 2023-2024**

**B.A. Hons. (6 sem) APPLIED PSYCHOLOGY**

**Submitted by DR. ANKITA BUDHIRAJA**

**JAN. 24**

1<sup>st</sup> week — Practical Exam

2<sup>nd</sup> week — Practical Exam

3<sup>rd</sup> Week - Introduction: Meaning, Basic and applied research, Fields of applied psychology

4<sup>th</sup> Week - Educational Applications: Role of psychologists in school system: school psychologist, community psychologist, Educational psychologist:

**FEB 24**

1<sup>st</sup> Week - Measurement and evaluation: Assessing educational readiness, assessing educational achievement

2<sup>nd</sup> Week - Industrial Applications: Planning, selection, training, job satisfaction

3<sup>rd</sup> Week - Careers and work: Choosing a career, Work-related attitudes

4<sup>th</sup> Week - job interviews, conflict in work settings.

#### **MARCH. 24**

1<sup>st</sup> Week - Health Applications: Dealing with health related information

2<sup>nd</sup> Week — stress and illness, taking active steps to cope with stress, coping with medical care.

3<sup>rd</sup> Week — Lifestyles and its consequences: Smoking, drinking, overeating

4<sup>th</sup> Week - Holiday

#### **APRIL 24**

1<sup>st</sup> Week - lack of exercise, behavior and AIDS.

2<sup>nd</sup> Week — Clinical Applications: Cognitive-Behavior therapy, Psychodynamic, Behavior, client-centered therapy

3<sup>rd</sup> Week- Legal Applications: Media and Perception about crime

4<sup>th</sup> Week - eyewitness testimony, role of attorneys and judges, defendant characteristics.

### **DEPARTMENT OF PSYCHOLOGY**

#### **LESSON PLAN : 2023-2024**

#### **B.A. Hons. (2<sup>nd</sup> sem) COGNITIVE PROCESSES**

**Submitted by DR. ANKITA BUDHIRAJA**

**JAN 24**

1<sup>st</sup> week — Practical Exam

2<sup>nd</sup> week — Practical Exam

3<sup>rd</sup> Week - Habituation: Orienting Reflexes, Habituation and Dishabituation

4<sup>th</sup> Week - Classical Conditioning: Paradigms, Extinction, Spontaneous Recovery, Generalization and Discrimination

**FEB 24**

1<sup>st</sup> Week - Operant conditioning: Paradigms and reinforcement schedules. Observational Learning.

2<sup>nd</sup> Week - Sensation: Types of Senses. Sensory Processes; Visual and Auditory (Structure and Functions of Eye & Ear)

3<sup>rd</sup> Week - Attention: Attentional Processes, Selective and Divided Attention

4<sup>th</sup> Week - Perception: Gestalts' Laws of organization, Perception of size, shape and Depth. **MARCH 24**

1<sup>st</sup> Week - Memory: Encoding, Storage and Retrieval processes in short term memory and long term memory

2<sup>nd</sup> Week — Real Life Memories: Eyewitness Testimony: Accuracy and Improvement.

3<sup>rd</sup> Week — Forgetting: Decay and Interference: Retroactive and proactive, Mnemonics.

4<sup>th</sup> Week - Holiday

**APRIL 24**

- 1<sup>st</sup> Week - Intelligence: Cognitive and psychometric approaches;  
2<sup>nd</sup> Week — Genetic and Environmental Influences.  
3<sup>rd</sup> Week- Thinking and Reasoning: Thinking processes; Concepts  
4<sup>th</sup> Week - Categories, Inductive and deductive reasoning

**Lesson Plan : 2023-2024**

**Even Semester**

**Subject: Applying Social Psychology**

**Class: B.A. Psychology Hons 2<sup>nd</sup> semester**

**Name of Teacher: Dr.Ankita Budhiraja**

**Jan 24**

1<sup>st</sup> week: Practical exams

2<sup>nd</sup> week: Practical exams

3<sup>rd</sup> week: Socialization — Nature

4<sup>th</sup> week: Socialization — Agencies

**Feb 24**

1<sup>st</sup> week: Socialization —Process

2<sup>nd</sup> week: Communication - Model, verbal and non- verbal communication

3<sup>rd</sup> week: Communication-Barriers

4<sup>th</sup> week: Effect of Presence of Others and conformity

**Mar 24**

1<sup>st</sup> week: Compliance and Obedience

2<sup>nd</sup> week: Prejudice -Nature, Acquisition

3<sup>rd</sup> week: Prejudice - Reduction

4<sup>th</sup> week: Holi vacation

**Apr 24**

1<sup>st</sup> week: Prosocial behaviour

2<sup>nd</sup> week: Applying social psychology to work and health

3<sup>rd</sup> week: Aggression: theories

4<sup>th</sup> week: aggression: determinants

# Dept. of Fine Arts

## Lesson plan for Even semester 2023-24

Teacher: Deepanjali Dayal &

Class- BA-1 Painting section- A & B

Dr. Kiran Bala

Sr. No.	Week	Lesson Plan
1.	8.1.24 to 13.1.24	Drawing and coloring of first design.
2.	15.1.24 to 20.1.24	Coloring of first design.
3.	22.1.24 to 27.1.24	Coloring of second design.
4.	29.1.24 to 3.2.24	Coloring of second design.
5.	5.2.24 to 10.2.24	Drawing of third design.
6.	12.2.24 to 17.2.24	Drawing & Coloring of third design.
7.	19.2.24 to 24.2.24	Drawing & Coloring of third design.
8.	26.2.24 to 2.3.24	Drawing of fourth design.
9.	4.3.24 to 9.3.24	Coloring of fourth design.
10.	11.3.24 to 16.3.24	Landscape- 1
11.	18.3.24 to 23.3.24	Landscape -2
12.	25.3.24 to 30.3.24	Landscape -3
13.	1.4.24 to 6.4.24	Landscape -4
14.	8.4.24 to 13.4.24	Complete all pending work
15.	15.4.24 to 20.4.24	Complete all pending work

# Dept. of Fine Arts

Lesson plan for Even semester (March, April, May, June) 2023-24

Teacher: Deepanjali Dayal &

Class- BA-1 Applied section- A & B

Dr. Kiran Bala

Sr. No.	Week	Lesson Plan
1.	8.1.24 to 13.1.24	Sketching
2.	15.1.24 to 20.1.24	Drawing of first monogram
3.	22.1.24 to 27.1.24	Coloring of first monogram
4.	29.1.24 to 3.2.24	Drawing of second monogram
5.	5.2.24 to 10.2.24	Drawing and coloring of third monogram
6.	12.2.24 to 17.2.24	Drawing and coloring of fourth monogram
7.	19.2.24 to 24.2.24	Sketching and drawing of first layout
8.	26.2.24 to 2.3.24	Coloring of first layout
9.	4.3.24 to 9.3.24	Drawing of second layout
10.	11.3.24 to 16.3.24	Coloring of second layout
11.	18.3.24 to 23.3.24	Drawing of third layout
12.	25.3.24 to 30.3.24	Coloring of third layout
13.	1.4.24 to 6.4.24	Drawing of fourth layout
14.	8.4.24 to 13.4.24	Coloring of fourth layout
15.	15.4.24 to 20.4.24	Complete all pending work

# Dept. of Fine Arts

Lesson plan for Even semester (March, April, May, June) 2023-24

Teacher: Deepanjali Dayal

Class- BA-3 Applied section- A & B

Sr. No.	Week	Lesson Plan
1.	8.1.24 to 13.1.24	Sketching
2.	15.1.24 to 20.1.24	Drawing of first poster
3.	22.1.24 to 27.1.24	Coloring of first poster
4.	29.1.24 to 3.2.24	Coloring of first poster
5.	5.2.24 to 10.2.24	Drawing of second poster
6.	12.2.24 to 17.2.24	Coloring of second poster
7.	19.2.24 to 24.2.24	Drawing of third poster
8.	26.2.24 to 2.3.24	Coloring of third poster
9.	4.3.24 to 9.3.24	Drawing of fourth poster
10.	11.3.24 to 16.3.24	Coloring of fourth poster
11.	18.3.24 to 23.3.24	Photography
12.	25.3.24 to 30.3.24	Photography
13.	1.4.24 to 6.4.24	Photography
14.	8.4.24 to 13.4.24	Photography
15.	15.4.24 to 20.4.24	Complete all pending work

# Dept. of Fine Arts

Lesson plan for Even semester (March, April, May, June) 2023-24

Teacher: Deepanjali Dayal

Class- BA-3 Painting section- A & B

Sr. No.	Week	Lesson Plan
1.	8.1.24 to 13.1.24	Sketching
2.	15.1.24 to 20.1.24	Drawing of first poster
3.	22.1.24 to 27.1.24	Coloring of first poster
4.	29.1.24 to 3.2.24	Drawing & Coloring of second poster
5.	5.2.24 to 10.2.24	Drawing & Coloring of third poster
6.	12.2.24 to 17.2.24	Drawing & Coloring of fourth poster
7.	19.2.24 to 24.2.24	Life study- 1
8.	26.2.24 to 2.3.24	Life study- 1
9.	4.3.24 to 9.3.24	Life study-2
10.	11.3.24 to 16.3.24	Life study-2
11.	18.3.24 to 23.3.24	Life study- 3
12.	25.3.24 to 30.3.24	Life study- 3
13.	1.4.24 to 6.4.24	Life study- 4
14.	8.4.24 to 13.4.24	Life study- 4
15.	15.4.24 to 20.4.24	Complete all pending work

# Dept. of Fine Arts

Lesson plan for Even semester (March, April, May, June) 2023-24

Teacher: Dr. Kiran Bala

Class- BA-2 Painting section- A & B

Sr. No.	Week	Lesson Plan
1.	8.1.24 to 13.1.24	Sketching
2.	15.1.24 to 20.1.24	Drawing of Composition 1
3.	22.1.24 to 27.1.24	Coloring of first Composition 1
4.	29.1.24 to 3.2.24	Drawing of Composition 2
5.	5.2.24 to 10.2.24	Coloring of first Composition 2
6.	12.2.24 to 17.2.24	Drawing of Composition 3
7.	19.2.24 to 24.2.24	Coloring of first Composition 3
8.	26.2.24 to 2.3.24	Drawing & Coloring of Composition 4
9.	4.3.24 to 9.3.24	Poster- 1
10.	11.3.24 to 16.3.24	Poster- 1
11.	18.3.24 to 23.3.24	Poster- 2
12.	25.3.24 to 30.3.24	Poster- 3
13.	1.4.24 to 6.4.24	Poster- 4
14.	8.4.24 to 13.4.24	Poster- 4
15.	15.4.24 to 20.4.24	Complete all pending work

# Dept. of Fine Arts

Lesson plan for Even semester (March, April, May, June) 2023-24

Teacher: Dr. Kiran Bala

Class- BA-2 Applied section- A & B

Sr. No.	Week	Lesson Plan
1.	8.1.24 to 13.1.24	Sketching
2.	15.1.24 to 20.1.24	Drawing of first poster
3.	22.1.24 to 27.1.24	Coloring of first poster
4.	29.1.24 to 3.2.24	Drawing of second poster
5.	5.2.24 to 10.2.24	Coloring of second poster
6.	12.2.24 to 17.2.24	Drawing and coloring of third poster
7.	19.2.24 to 24.2.24	Drawing and coloring of fourth poster
8.	26.2.24 to 2.3.24	Drawing and coloring of layout first.
9.	4.3.24 to 9.3.24	Drawing and coloring of layout first.
10.	11.3.24 to 16.3.24	Drawing and coloring of layout second
11.	18.3.24 to 23.3.24	Drawing and coloring of layout second
12.	25.3.24 to 30.3.24	Drawing and coloring of layout third
13.	1.4.24 to 6.4.24	Drawing and coloring of layout fourth
14.	8.4.24 to 13.4.24	Drawing and coloring of layout fourth
15.	15.4.24 to 20.4.24	Complete all pending work

**Lesson Plan of B.A.IInd semester**  
**Physical Geography**  
**Session (2023-24)**

- 15.1.24 to 20.1.24: Definition, nature, scope and significance of Physical geography
- 22.1.24 to 27.1.24: Approaches to study of agriculture geography; commodity approach.
- 29.1.24 to 3.2.24: Deterministic, systematic, regional approaches
- 5.2.24 to 10.2.24 Factors influencing agricultural patterns : physical
- 12.2.24 to 18.2.24: Institutional, demographic factors
- 19.2.24 to 24.2.24: Infrastructural services, technological factors, mechanical inputs
- 26.2.24 to 2.3.24: Agricultural systems of world: Whittlessey's classification
- 4.3.24 to 9.3.24 Shifting cultivation, Plantation farming, Mediterranean agriculture,
- 11.3.24 to 16.3.24: Commercial grain farming, Agricultural region: concept and technique
- 18.3.24 to 22.3.24: Normative, empirical, single element techniques
- 1.4.24 to 6.4.24: Statistical technique, Nature, significance, classification of agricultural models
- 9.4.24 to 13.4.24: Economic and Descriptive models, Food security
- 15.4.24 to 20.4.24: Sustainable agriculture,
- 20.4.24 to 22.4.23: WTO and agriculture
- 22.4.24 onward revision

**Lesson Plan for Session 2023-24 (Even Semester)**  
**Department of Geography**  
**Class: B. A. 4<sup>th</sup> Sem,**  
**Teacher Name: Dr. Bindu**  
**Dr. Kuldeep Suhag, Dr. Phoolkumar Dr. Amita**  
**Paper: Human Geography**

<b>Date</b>	<b>Topic</b>
15-01-2024 to 20-01-2024	Meaning, definition and nature of Human geography
22-01-2024 to 27-01-2024	Scope, approaches and branches of Human Geography
29-01-2024 to 03-02-2024	Classification of races according to Herbert Risley, J. K. Hutton Test I
05-02-2024 to 10-02-2024	Human adaptation to the environment, Eskimo, Bushman, Gond and Gujjars Assignment-I
12-02-2024 to 17-02-2024	Classification of resources, renewable, non-renewable, biotic, abiotic, recyclable and non- renewable
19-02-2024 to 24-02-2024	Distribution, utilization and conservation of biotic and abiotic resources Test II
26-02-2024 to 02-03-2024	Distribution and density of world population, population growth, fertility and mortality patterns
04-03-2024 to 09-03-2024	Concept of over, under and optimum population
11-03-2024 to 16-03-2024	Maltus, Recardo and Marx theories. Test III and Assignment II
18-03-2024 to 22-03-2024	Meaning, classification and types of Rural settlements
01-04-2024 to 06-04-2024	Urban settlements: Origin, classification and functions of towns.
08-04-2024 to 13-04-2024	Population pressure, resource use and environment degradation
15-04-2024 to 20-04-2024	Sustainable development, concept of deforestation, soil erosion
22-04-2023 Onwards	Air and water pollution. Test IV and revision

LESSON PLAN B.A.4<sup>TH</sup> SEM.PRACTICAL  
SESSION 2023-24

DATE	TOPIC
15.1.24 TO 27.1.24	Map Projections :General Principles
29.1.24.TO 10.2.24	Cylindrical Map Projections
12.2.24 TO 24.2.24	Conical Projections
26.2.24 TO 9.3.24	Zenithal Projections
11.3.24 TO 22.3.24	Conventional Projections
1.4.24 TO 13.4.24	Identification and choice of map projections
15.4.24 TO 20.4.24	Plane Table Survey
22.4.24 ONWARDS	Revision Exercise and file checking

Taught By :

1.Dr. Phool Kumar

2.Ms Hem Lata

3.Dr. Amita

**Lesson Plan for Session 2023-24 (Even Semester)**  
**Department of Geography**  
**Class: B. A. Final Year,**  
**Teacher Name: Ms. Deepak**  
**Ms. Vandana, Ms. Hemlata, Dr. Amita**  
**Paper: Remote Sensing and Quantitative Methods**

<b>Date</b>	<b>Topic</b>
15-01-2024 to 20-01-2024	Introduction to Aerial photographs : their advantages
22-01-2024 to 27-01-2024	Introduction to Aerial photograph: their types
29-01-2024 to 03-02-2024	Interpretation of aerial photographs. Test I
05-02-2024 to 10-02-2024	Remote sensing: Fundamentals, stages, electromagnetic spectrum      Assignment-I
12-02-2024 to 17-02-2024	Types of satellites, and types of imageries
19-02-2024 to 24-02-2024	Imageries and their applications in various fields: agriculture, environment and resource mapping. Test II
26-02-2024 to 02-03-2024	Introduction to Geographical Information System: Definition, purpose, Advantages and disadvantages.
04-03-2024 to 09-03-2024	Software and hardware requirements in GIS.
11-03-2024 to 16-03-2024	Application of GIS in various fields of Geography. Test III and Assignment II
18-03-2024 to 22-03-2024	Measures of Central Tendencies: Mean, Median.
01-04-2024 to 06-04-2024	Mode and Range
08-04-2024 to 13-04-2024	Quartile Deviation and Mean Deviation
15-04-2024 to 20-04-2024	Standard Deviation and Coefficient of Variation.
22-04-2023 Onwards	Test IV and revision

LESSON PLAN B.A.6<sup>TH</sup> SM. PRACTICAL  
SESSION 2023-24

DATE	TOPIC
15.1.24 to 27.1.24	Demarcation of principal elements on Aerial Photographs
29.1.24 to 10.2.24	Scale of Aerial Photographs
12.2.24 to 24.2.24	Interpretation of single vertical photograph
26.2.24 to 9.3.24	Use of stereoscope in Aerial Photographs
11.3.24 to 22.3.24	Identification of features on IRS-ID imagery
1.4.24 to 20.4.24	Socio-Economic survey and report writing
22.4.24 onwards	Exercise revision and file checking

Taught by:

- 1.Ms Deepak Malik
- 2.Dr.Jyoti
- 3.Dr.Kuldeep Singh
- 4.Dr. Sushila
- 5.Ms. Hem Lata

<b>Lesson Plan for Session 2021-22(Even Semester)</b>	
<b>Department of Geography</b>	
<b>Subject: Geography</b>	<b>Class: M.A 2<sup>nd</sup> Sem., Teacher Name: Dr. Satish Kumar</b>
<b>Paper: Geo. Of World Economy</b>	<b>Paper Code: 16GEO22C1</b>
<b>Date</b>	<b>Topic</b>
15-01-2024 to 20-01-2024	Economic Geography: The Stuff of Economic Geography
22-01-2024 to 27-01-2024	A brief history, Why Economic Geography?
29-01-2024 to 03-02-2024	Assignment 1: The Stuff of Economic Geography
05-02-2024 to 10-02-2024	Modes of Theorizing in Economic Geography:
12-02-2024 to 17-02-2024	Political Economy, Poststructuralist Economic Geography
19-02-2024 to 24-02-2024	Capitalism, Fundamental Concepts: Use-value, Exchange Value,
26-02-2024 to 02-03-2024	Assignment 2: Use-value, Exchange Value and Revision, Dynamics of World Economy, Spatial Structure of the World Economy.
04-03-2024 to 09-03-2024	Capital, Capital and Labour, Capital Accumulation, Capital Accumulation by Dispossession.
11-03-2024 to 16-03-2024	Capitalism in Twentieth Century: Organized Capitalism, Disorganized Capitalism. Neo-Liberalism.
18-03-2024 to 22-03-2024	World Economy and the Capitalist mode of production, The Basic Elements of World Economy:
01-04-2024 to 06-04-2024	Single Market, a Multiple State System, the Three-tier structure; A Space-Time Matrix of the World Economy
08-04-2024 to 13-04-2024	Economic Development: Globalization or Internationalization,
15-04-2024 to 20-04-2024	Patterns of International Trade, WTO and Developing Countries

22-04-2023 Onwards	Revision

<b>Lesson Plan for Session 2023-24(Even Semester)</b>	
<b>Department of Geography</b>	
<b>Subject: Geography</b>	<b>Class: M.A 2<sup>nd</sup> Sem., Teacher Name: Dr. Satish Kumar</b>
<b>Paper: DIGITAL CARTOGRAPHY</b>	<b>Paper Code: 16GEO22CL1</b>
<b>Date</b>	<b>Topic</b>
15-01-2024 to 20-01-2024	Basic introduction to GIS software
22-01-2024 to 27-01-2024	Basic introduction to GIS software
29-01-2024 to 03-02-2024	Raster and Vector data
05-02-2024 to 10-02-2024	Downloading of Toposheet from Survey of India
12-02-2024 to 17-02-2024	Georeferencing of Image
19-02-2024 to 24-02-2024	Digitisation of Image (Dot and Line feature)
26-02-2024 to 02-03-2024	Digitisation of Image (Polygon feature)
04-03-2024 to 09-03-2024	Setting projections of image (Geographic Coordinate System)
11-03-2024 to 16-03-2024	Introduction to various map elements (Grid, Title, Scale)
18-03-2024 to 22-03-2024	Introduction to various map elements (Legend, North Arrow)
01-04-2024 to 06-04-2024	Making of Choropleth map
08-04-2024 to 13-04-2024	Making of Isopleths map
15-04-2024 to 20-04-2024	Making of Dot map and Exporting of Map
22-04-2023 Onwards	Revision

**Lesson Plan for Session 2023-24 (Even Semester)**

**Department of Geography**

**Class: MA IInd Semester**

**Teacher Name: Ms. Jyoti and Ms. Vandana**

**Paper: Environmental Geography(16 GEO22C9 )**

<b>Date</b>	<b>Topic</b>
15-01-2024 to 20-01-2024	Environmental Geography: Nature and Scope, Fundamental concepts of Environmental Geography.
22-01-2024 to 27-01-2024	Approaches and methods in Environmental Geography, relationship with other branches of knowledge
29-01-2024 to 03-02-2024	Environment and Ecology: Meaning, structure and concepts, sub division of Ecology <b>Test I</b>
05-02-2024 to 10-02-2024	Ecosystem: Meaning and concepts of Ecosystem, classification and components of eco-system
12-02-2024 to 17-02-2024	Trophic structure, ecological pyramid, energy flow, Bio-geochemical cycles
19-02-2024 to 24-02-2024	Ecological regions of India, Environmental Pollution: Meaning, types, sources, causes and impacts. <b>Test II and Assignment I</b>
26-02-2024 to 02-03-2024	Environmental Pollution: Meaning, types, sources, causes and impacts. Air, water, and land pollution.
04-03-2024 to 09-03-2024	Environmental degradation: Nature, process, types and causes of environmental degradation, Greenhouse effect, global warming and ozone depletion, Desertification. <b>Test III</b>
11-03-2024 to 16-03-2024	Environmental Management: concept, methods and approaches, management of soil, forest.
18-03-2024 to 22-03-2024	Management of Mineral resources and Disaster Management, Conservation of natural resources
01-04-2024 to 06-04-2024	Emerging environmental problems and issues in India
08-04-2024 to 13-04-2024	Environmental policies, programmes, awareness, and movements in India. <b>Test IV and Assignment II</b>

15-04-2024 to 20-04-2024	<b>Seminar</b>
22-04-2023 Onwards	<b>Revision</b>

<b>Lesson Plan for Session 2023-24 (Even Semester)</b> <b>Department of Geography</b> <b>Class: MA IInd Semester</b> <b>Teacher Name: Ms. Deepak</b> <b>Paper: Geography of India (16GEO22CI)</b>	
<b>Date</b>	<b>Topic</b>
15-01-2024 to 20-01-2024	Physiographic divisions of India.
22-01-2024 to 27-01-2024	Physiographic divisions of India, Drainage system.
29-01-2024 to 03-02-2024	Mechanism of Indian Monsoon, climatic regions.
05-02-2024 to 10-02-2024	Soil and natural vegetation                      Test I and Assignment I
12-02-2024 to 17-02-2024	Growth of population, distribution and density of population.
19-02-2024 to 24-02-2024	Population problems, population policies and food security.
26-02-2024 to 02-03-2024	Characteristic of Indian agriculture and agricultural regions. Test II
04-03-2024 to 09-03-2024	Industrial Regions and transport network
11-03-2024 to 16-03-2024	Domestic and international trade. Test III
18-03-2024 to 22-03-2024	Evolution of administrative map of India, river water dispute among states.
01-04-2024 to 06-04-2024	Interlinking of rivers, terrorism problems.
08-04-2024 to 13-04-2024	Test IV and Assignment II
15-04-2024 to 20-04-2024	Seminar
22-04-2023 Onwards	Revision

MAII SEMESTER  
REGIONAL DEVELOPMENT AND PLANNING  
DR.SUSHILA  
SESSION 2023-24

16/1/24 to 20/1/24: Conceptual and theoretical framework : Concept of development , regional development

22/1/24 to 27/1/24: Concept of region and regional planning

Geography and regional planning

29/1/24 to 3/2/24: Selection of indicators and measures of regional disparities

5/2/24 to 10/2/24: Regional Growth theories: Friedmann periphery theory

12/2/24 to 18/3/24: Polarisation band trickle down effect theory of Hirschman

19/2/24 to 24/2/24: Circular and cumulative causation model of Myrdal

Growth pole theory of Perroux

4/3/24 to 9/3/24: Planning process: types of planning and its rationale

Principles and objectives

11/3/24 to 16/3/24: Region for planning characteristics, hierarchy, need and demarcation, planning region of India

18/3/24 to 22/3/24: Experience of regional development and planning India : multi level planning

1/4/24 to 6/4/24: Regional policies in the Indian five years plans

8/4/24 to 13/4/24: Planning policies for regional development

15/4/24 to 20/4/24 : Regional backward : criteria, strategy and programme for backward area development

22/4/24: onward revision

**Lesson Plan for Session 2023-24 (Even Semester)**  
**Department of Geography**  
**Class: MA IInd Semester**  
**Teacher Name: Ms. Vandana**  
**Paper: Morphometric Analysis(16GEO22CL2)**

<b>Date</b>	<b>Topic</b>
15-01-2024 to 20-01-2024	Introduction to Morphometric Analysis
22-01-2024 to 27-01-2024	Drainage Basin and Geographical Significance
29-01-2024 to 03-02-2024	Linear Aspects ,stream ordering based on Horton
05-02-2024 to 10-02-2024	Stream ordering based on Strahler
12-02-2024 to 17-02-2024	Areal Aspects, stream frequency
19-02-2024 to 24-02-2024	Drainage density
26-02-2024 to 02-03-2024	Relief Aspects ,Hypsometric curve
04-03-2024 to 09-03-2024	Integral Hypsometric curve
11-03-2024 to 16-03-2024	Clinographic curve
18-03-2024 to 22-03-2024	Slope Analysis ,Average slope {Wentworth Method}
01-04-2024 to 06-04-2024	Relative relief {Smith method} ,Profile Analysis-An Introduction
08-04-2024 to 13-04-2024	Longitudinal Profile
15-04-2024 to 20-04-2024	<b>Seminar</b>
22-04-2023 Onwards	<b>Revision</b>

<b>Lesson Plan for Session 2021-22(Even Semester)</b>	
<b>Department of Geography</b>	
<b>Subject: Geography</b>	<b>Class: M.A 4<sup>th</sup> Sem., Teacher Name: Dr. Satish Kumar</b>
<b>Paper: Geographical Thought</b>	<b>Paper Code: 17GEO24C1</b>
<b>Date</b>	<b>Topic</b>
15-01-2024 to 20-01-2024	Development of Geographical Knowledge
22-01-2024 to 27-01-2024	Relationship of geography with other natural and social sciences; Subject matter of geography
29-01-2024 to 03-02-2024	Assignment 1: Pre-scientific geographical ideas and emergence of scientific geography.
05-02-2024 to 10-02-2024	Pre-scientific geographical ideas and emergence of scientific geography; influence of Kant.
12-02-2024 to 17-02-2024	Unit Test-1: Humboldt and Ritter; legacy of Humboldt and Ritter
19-02-2024 to 24-02-2024	Dualisms and dichotomies: physical and human, systematic and regional, and general and particular.
26-02-2024 to 02-03-2024	Assignment 2: Unification of Geography- Richthofen and Hettner. Social Origins of Environmental Determinism.
04-03-2024 to 09-03-2024	Possibilism, Regional concept, Vidal de la Blache, Quantitative revolution and positivism
11-03-2024 to 16-03-2024	Unit Test-2: locational analysis. Reactions to scientific positivism and development of 'human centred theories; Behavioural, humanistic and radical approaches.
18-03-2024 to 22-03-2024	Structuralism and structuration; post-structural and post-colonial critique;
01-04-2024 to 06-04-2024	Structuralism and structuration; post-structural and post-colonial critique;
08-04-2024 to 13-04-2024	Assignment 3: Feminist and gender geography; the post-modern perspectives in geography; geography, neoliberalism and globalisation.
15-04-2024 to 20-04-	Neoliberalism and globalisation

2024	
22-04-2023 Onwards	Unit Test-3: Revision

<b>Lesson Plan for Session 2023-24(Even Semester)</b>	
<b>Department of Geography</b>	
<b>Subject: Geography</b>	<b>Class: M.A 4<sup>th</sup> Sem., Teacher Name: Dr. Satish Kumar</b>
<b>Paper: SATELLITE IMAGES AND ITS INTERPRETATION</b>	<b>Paper Code: 17GEO24CL2</b>
<b>Date</b>	<b>Topic</b>
15-01-2024 to 20-01-2024	Kinds of satellite images
22-01-2024 to 27-01-2024	Study of a satellite image - annotation (IRS - IB, IRS- IC etc.)
29-01-2024 to 03-02-2024	Visual interpretation of a satellite image.
05-02-2024 to 10-02-2024	Separating physical and cultural features on an image.
12-02-2024 to 17-02-2024	Identification of objects on panchromatic, true colour and FCC images and their comparison.
19-02-2024 to 24-02-2024	Identification and mapping of land use/land cover on satellite images
26-02-2024 to 02-03-2024	Study of thermal image and interpretation of various features
04-03-2024 to 09-03-2024	Study of Radar image and interpretation of various features
11-03-2024 to 16-03-2024	Acquisition of open-source satellite data from USGS / GLOVIS.
18-03-2024 to 22-03-2024	Acquisition of open-source satellite data from USGS / GLOVIS.
01-04-2024 to 06-04-2024	Acquisition of open-source satellite data from BHUVAN (ISRO)
08-04-2024 to 13-04-2024	Acquisition of open-source satellite data from BHUVAN (ISRO)
15-04-2024 to 20-04-2024	Extraction of land use land cover area

22-04-2023 Onwards	Revision

**Lesson Plan of M.A. 4th semester  
Agricultural geography (17GEO24DB3)  
Dr. Jyoti (2023-24)**

**15.1.24 to 20.1.24:** Definition, nature and scope,significance of agriculture geography  
**22.1.24 to 27.1.24:** Approaches: Commodity approach,Deterministic,  
**29.1.24 to 3.2.24:** Systematic, regional approach.Factors influencing agricultural patterns  
**5.2.24 to 10.2.24:** Physical factors,Institutional, Test and assignment  
**12.2.24 to 17.2.24:** Demographic factors,Infrastructural services  
**19.2.24 to 24.2.24:** Technological factors, Mechanical inputs, Seminar  
**26.2.24 to 2.3.24:** Agricultural systems of world: Whittelssey’s classification,Shifting  
**04.3.24 to 09.3.24:** Plantation farming, Mediterranean agriculture,Commercial grain farming  
**11.3.24 to 16.3.24:** Agricultural region: concept and technique,Normative technique  
**18.3.24 to 22.3.24:** Empirical techniques,Single element, Statistical technique, Test  
**1.4.24 to 6.4.24:** Nature, significance, classification of agricultural models  
**08.4.24 to 13.4.24:** Economic and Descriptive models, Food security, assignment  
**15.4.24 to 20.4.24:** Sustainable agriculture, WTO and agriculture  
**22.4.24 Onwards:** Revision

**Lesson Plan (Session2023-24)  
M.A. Geography, 4<sup>th</sup> Semester,  
Paper – Aerial Photographs and Its Interpretation  
(Practical) Code – 17GEO24CL1  
Dr. Phool Kumar, Professor, Department of Geography.**

Date	Topic
15.1.2024 to 20.1.2024	Aerial Photographs – Types and Characteristics,
22.1.2024 to 27.1.2024	Elements of Air Photo Interpretation,

29.1.2024 to 03.2.2024	Stereo Vision Test, Orientation of stereo model under Mirror Stereoscope; Determination of scale on an aerial photograph;
05.2.2024 to 10.2.2024	Measurement of height of an object on single vertical aerial photograph;
12.2.2024 to 17.2.2024	Parallax bar measurement and height determination;
19.2.2024 to 24.2.2024	Preparation of Index map;
26.2.2024 to 02.3.2024	Preparation of stereogram, stereo triplet and mosaic from aerial photographs;
04.3.2024 to 09.3.2024	Preparation of stereogram, stereo triplet and mosaic from aerial photographs;
11.3.2024 to 16.3.2024	Interpretation of Aerial photographs – Identification, mapping and interpretation of Natural and Cultural features;
18.3.2024 to 22.3.2024	Interpretation of Aerial photographs – Identification, mapping and interpretation of Natural and Cultural features;
01.4.2024 to 06.4.2024	Land use/Land cover studies on aerial photographs
08.4.2024 to 13.4.2024	Land use/Land cover studies on aerial photographs
08.4.2024 to 13.4.2024	Land use/Land cover studies on aerial photographs;
22.4.2024 to 27.4.2024	Urban studies on aerial photographs – Change detection, Residential area study.
22.4.2024 to 27.4.2024	Urban studies on aerial photographs – Change detection, Residential area study.
29.4.2024 onwards	Preparation for Practical Examination

### **Lesson Plan (Session 2023-24)**

**M.A. Geography, 4<sup>th</sup> Semester, Paper- Geography of Tourism**

**Dr. Phool Kumar, Professor, Department of Geography**

<b>Date</b>	<b>Topic</b>
15.1.2024 to 20.1.2024	Geography of Tourism: Meaning and Definition,
22.1.2024 to 27.1.2024	Geography of Tourism: Nature and scope,
29.1.2024 to 03.2.2024	Motivating factors of tourism; Robinson's classification of motivating factors of tourism,
05.2.2024 to 10.2.2024	Tourism: Product and typology,
12.2.2024 to 17.2.2024	Infrastructure and support system of tourism,
19.2.2024 to 24.2.2024	Accommodation and supplementary accommodation; Agencies and intermediaries.

26.2.2024 to 02.3.2024	Impact of tourism: Physical, economic, and social, perceptual positive and negative impacts,
04.3.2024 to 09.3.2024	Impact of tourism: Physical, economic, and social, perceptual positive and negative impacts,
11.3.2024 to 16.3.2024	Tourism paradigms: Ethnic and cultural tourism, heritage tourism,
18.3.2024 to 22.3.2024	Sustainable tourism and ecotourism,
01.4.2024 to 06.4.2024	Regional dimensions of tourism in India, Himalayan region,
08.4.2024 to 13.4.2024	Northern Plains, The Thar Desert, Deccan plateau,
22.4.2024 to 27.4.2024	Coastal Plains, and the Islands.
29.4.2024 onwards	Revision

### **Lesson Plan for session 2023-24**

MA Geography 4 semester

Paper- Research methodology

Faculty- Dr Parveen Khatri

- 15-1-24 to 20-1-24 Meaning and purpose of research
- 22-1-24 to 27-1-24 Types of Research
- 29-1-24 to 3-2-24 social science research, identification of Research Question
- 5-2-24 to 10-2-24 literature surveying, methods and methodology in human geography
- 12-2-24 to 17-2-24 Scientific method in Human geography
- 19-2-24 to 24-2-24 Analytical steps of the Scientific method
- 26-2-24 to 2-3-24 the routes of Scientific explanation, Deductive and inductive forms of reference
- 4-3-24 to 9-3-24 Explanation in geography , some problems
- 11-3-24 to 16-3-24 quantitative to qualitative geography, qualitative data production, interviews
- 18-3-24 to 22 -3-24 process of interviewing, structure interviews, informal surveys,
- 1-4-24 to 6-4-24 depth interviewing and working with groups, observation, participant observation and ethnography
- 8-4-24 to 13-4-24 Process of Research Report writing, reference styles
- 15-4-24 to 20-4-24 ethics in research

## **Lesson Plan Zoology Department 2023-24 Even Semester**

**Class: B.Sc. (Med.) 2nd Semester (Theory)**

**Teachers: Dr. Anu Bhargava, Ms. Babli Rathee**

<b>Week &amp; Date</b>	<b>Topics</b>
<b>Week 1</b>	
Jan 11-20	Phylum - Annelida: General characters and classification, Biodiversity and economic importance, Type study – Pheretima, Metamerism, Trochophore larva: Affinities, evolutionary significance.
<b>Week 2</b>	
Jan 22-31	Phylum – Arthropoda : General characters and classification, Biodiversity and economic importance, Type study – Periplaneta.
<b>Week 3</b>	
Feb 01-10	Phylum - Mollusca: General characters and classification, Biodiversity and economic importance, Type study – Pila, Torsion and detorsion in gastropoda. <b>TEST</b>
<b>Week 4</b>	
Feb 12-17	Phylum - Echinodermata: General characters and classification, Biodiversity and economic importance, Type Study -Asteries (Sea Star), Echinoderm larvae, Aristotle's Lantern.
<b>Week 5</b>	
Feb 19- 24	Phylum – Hemichordata: Type study: Balanoglossus Elements of Heredity and variations, The varieties of gene interactions, Linkage and recombination: Coupling and repulsion hypothesis, crossing-over and chiasma formation; gene mapping.
<b>Week 6</b>	
Feb 26- 29	Sex determination and its mechanism: male and female heterozygous systems, genetic balance system; role of Y -chromosome, male haploidy, cytoplasmic and environmental factors, role of hormones in sex determination. <b>TEST</b>
<b>Week 7</b>	
March 01-09	Sex linked inheritance: Haemophilia and colour blindness in man, eye colour in Drosophila, Nondisjunction of sex-chromosome in Drosophila.
<b>Week 8</b>	
March 11-16	Sex-linked and sex influenced inheritance. Extra chromosomal and cytoplasmic inheritance: i) Kappa particles in Paramecium. ii) Shell coiling in snails. iii) Milk factor in mice. <b>TEST</b>
<b>Week 9</b>	
March 18-22	Multiple allelism: Eye colour in Drosophila; A, B, O blood group in man. Human genetics: Human karyotype. Chromosomal abnormalities involving autosomes and sex chromosomes, monozygotic and dizygotic twins. Inborn errors of metabolism.
<b>Week 10</b>	
March 23-31	<b>Holi Vacation</b>
<b>Week 11</b>	
April 01-06	Nature and function of genetic material; Structure and type of nucleic acids; Protein synthesis. Spontaneous and induced (chemical and radiations) mutations. <b>TEST</b>
<b>Week 12</b>	
April 08-13	Gene mutations; chemical basis of mutations; transition, transversion, structural chromosomal aberrations; numerical aberrations.
<b>Week 13</b>	
April 15-20	Applied genetics: Eugenics, eugenics and euphenics; genetic counseling, pre-natal diagnostics, DNA-finger printing, transgenic animals
<b>Week 14</b>	
April 22-30	<b>Revision</b>

## **Lesson Plan Zoology Department 2023-24 Even Semester**

**Class : B.Sc. (Med.) 4th Semester (Theory)**

**Teachers: Dr. Radha Rathee, Dr. Madhuri Kaushik**

<b>Week &amp; Date</b>	<b>Topics</b>
<b>Week 1</b>	
Jan 11-20	Amphibia: Origin, Evolutionary tree. Type study of frog ( <i>Rana tigrina</i> ), Parental Care in Amphibia.
<b>Week 2</b>	
Jan 22-31	Reptilia: Type study of Lizard ( <i>Hemidactylus</i> ), Origin, Evolutionary tree. Extinct reptiles; Poisonous and non-poisonous snakes; Poison apparatus in snakes.
<b>Week 3</b>	
Feb 01-10	Aves: Type study of Pigeon ( <i>Columba livia</i> ); Flight adaptation, Principles of aerodynamics in Bird flight, migration in birds. Mammals: Classification, type study of Rat; Adaptive radiations of mammals and dentition.
<b>Week 4</b>	
Feb 12-17	Circulation: Origin, conduction and regulation of heart beat, cardiac cycle, electrocardiogram, cardiac output, fluid pressure and flow pressure in closed and open circulatory system. <b>TEST</b>
<b>Week 5</b>	
Feb 19- 24	Composition and functions of blood & lymph; Mechanism of coagulation of blood, coagulation factors; anticoagulants, haemopoiesis.
<b>Week 6</b>	
Feb 26- 29	Respiration: Exchange of respiratory gases, transport of gases, lung air volumes, oxygen dissociation curve of hemoglobin.
<b>Week 7</b>	
March 01-09	Bohr's effect, Hamburger's phenomenon (Chloride shift), control / regulation of respiration. <b>TEST</b>
<b>Week 8</b>	
March 11-16	Excretion: Patterns of excretory products viz. Amonotelic, ureotelic uricotelic, ornithine cycle (Kreb's– Henseleit cycle) for urea formation in liver.
<b>Week 9</b>	
March 18-22	Excretion: Urine formation, counter-current mechanism of urine concentration, osmoregulation, micturition. <b>TEST</b>
<b>Week 10</b>	
March 23-31	<b>Holi Vacation</b>
<b>Week 11</b>	
April 01-06	Neural Integration: Nature, origin and propagation of nerve impulse along with medullated & non-medullated nerve fibre, conduction of nerve impulse across synapse.
<b>Week 12</b>	
April 08-13	Chemical integration of Endocrinology: Structure and mechanism of hormone action. Physiology of hypothalamus, pituitary, thyroid, parathyroid, adrenal, pancreas and gonads. Reproduction: Spermatogenesis. <b>TEST</b>
<b>Week 13</b>	
April 15-20	Capacitation of spermatozoa, ovulation, formation of corpus luteum, Oestrous-anoestrous cycle, Menstrual cycle in human; fertilization, implantation and gestation.
<b>Week 14</b>	
April 22-30	<b>Revision</b>

## **Lesson Plan Zoology Department 2023-24 Even Semester**

**Class : B.Sc. (Med.) 6th Semester (Theory)**

**Teachers: Dr. Mamta Khokhar (HOD), Mrs. Manju Chhikara**

<b>Week &amp; Date</b>	<b>Topics</b>
<b>Week 1</b>	
Jan 11-20	Study of insect pests of crops and vegetables.
<b>Week 2</b>	
Jan 22-31	Pest of Sugarcane, Pest of Cotton, Pest of Wheat
<b>Week 3</b>	
Feb 01-10	Pest of Paddy, Pest of Vegetables, Pest of Stored grains
<b>Week 4</b>	
Feb 12-17	Insect control: Biological control, its history, requirement and precautions and feasibility of biological agents for control.
<b>Week 5</b>	
Feb 19- 24	Chemical control: History, Categories of pesticides. Important pesticides from each category to pests against which they can be used. Insect repellants and attractants.
<b>Week 6</b>	
Feb 26- 29	Integrated pest management, Important bird and rodent pests of agriculture & their management.
<b>Week 7</b>	
March 01-09	Historical perspectives, aims and scope of developmental biology. Generalized structure of mammalian ovum & sperm. Spermatogenesis and Oogenesis
<b>Week 8</b>	
March 11-16	Fertilization, parthenogenesis, different types of eggs and patterns of cleavage in invertebrates and vertebrates.
<b>Week 9</b>	
March 18-22	Process of blastulation in invertebrates and vertebrates, Fate-map construction in frog and chick.
<b>Week 10</b>	
March 23-31	<b>Holi Vacation</b>
<b>Week 11</b>	
April 01-06	Gastrulation in invertebrates and vertebrates. Gastrulation & formation of three germinal layers in frog and chick.. Elementary knowledge of primary organizers
<b>Week 12</b>	
April 08-13	Extra embryonic membranes: structure & significance in birds and mammals. Concepts of competence, determination and differentiation.
<b>Week 13</b>	
April 15-20	Concept of regeneration
<b>Week 14</b>	
April 22-30	<b>Revision</b>

## **LESSON PLAN (JAN-APRIL, 2024)**

**B.Sc. (Home Science) II<sup>nd</sup> Semester, I<sup>st</sup> Year**

### **Introduction to Textile (214) Theory**

<b>Week</b>	<b>Syllabus</b>
<b>Week I</b>	Fibers, its taxonomy and classification
<b>Week II</b>	Manufacturing and properties of plant fibers- cotton
<b>Week III</b>	Manufacturing and properties of plant fibers- jute
<b>Week IV</b>	Manufacturing and properties of silk fiber
<b>Week V</b>	Manufacturing of rayon and polyester fibers
<b>Week VI</b>	Manufacturing of acrylic and polyamide fibers
<b>Week VII</b>	Basic principles of yarn making, Simple yarn
<b>Week VIII</b>	Types of Yarns: Novelty Yarns
<b>Week IX</b>	Properties of yarn and Importance of blends
<b>Week X</b>	Weaving: parts of loom and Basic weaves
<b>Week XI</b>	Basic weaves, types and making
<b>Week XII</b>	Weaving:Fancy weaves, types and making
<b>Week XIII</b>	Knitting: types of knit
<b>Week XIV</b>	Advantages and disadvantages of knit
<b>Week XV</b>	Braiding, felting and bonding

## **LESSON PLAN (JAN-APRIL, 2024)**

**B.Sc. (Home Science) II<sup>nd</sup> Semester, I<sup>st</sup> Year**

### **Introduction to Textile (214) Practical**

<b>Week</b>	<b>Syllabus</b>
<b>Week I</b>	Collection of different types of natural fibers
<b>Week II</b>	Microscopic identification of Natural Fibers
<b>Week III</b>	Burning identification of Natural Fibers
<b>Week IV</b>	Chemical identification of Natural Fibers
<b>Week V</b>	Collection of synthetic fibers
<b>Week VI</b>	Microscopic identification of Natural Fibers
<b>Week VII</b>	Burning identification of Natural Fibers
<b>Week VIII</b>	Chemical identification of Natural Fibers
<b>Week IX</b>	Collection of Material for weave making
<b>Week X</b>	Making of weaves
<b>Week XI</b>	Making of weaves
<b>Week XII</b>	Making of weaves
<b>Week XIII</b>	Making of any Four fancy weaves
<b>Week XIV</b>	Making of any next Four fancy weaves
<b>Week XV</b>	To estimate the thread count of fabric Knitting: thumb method and ending

**B.Sc. H.Sc. I Year (JAN-APRIL, 2024)**

**Subject: Fundamental of Nutrition (206)**

	<b>Theory</b>
Week I	Food, Nutrients, RDA
Week II	Carbohydrates – Structure, Classification, Intake
Week III	Proteins – Structure, Classification, Intake
Week IV	Lipids – Structure, Classification, Intake
Week V	Lipids – Definition & Classification, Function
Week VI	Lipids – Sources, Deficiency & Excess
Week VII	Water – Function & Sources, Intake
Week VIII	Function, Sources & RDA of Vitamin A
Week IX	Functions, Sources & RDA of Vitamin D
Week X	Functions, Sources & RDA of Vitamin K & E
Week XI	Functions, Sources & RDA of Vitamin E & Folic Acid
Week XII	Functions, Sources & RDA of Vitamin B-Complex
Week XIII	Function, Sources & RDA of Macro Minerals
Week XIV	Function, Sources & RPA of Micro Minerals
Week XV	Function, Sources & RDA of Micro Minerals

**B.Sc. H.Sc. I Year (JAN-APRIL, 2024)**

**Subject: Fundamental of Nutrition (206) Practical**

	<b>Practical</b>
Week I	Planning, Preparation of Energy rich recipes
Week II	Planning, Preparation of Energy rich recipes
Week III	Planning & Preparation of Protein rich recipes
Week IV	Planning & Preparation of Protein rich recipes
Week V	Planning & Preparation of Vitamin – A Rich recipes
Week VI	Planning & Preparation of Vitamin – A Rich recipes
Week VII	Planning & Preparation of Iron rich recipes
Week VIII	Planning & Preparation of Iron rich recipes
Week IX	Planning & Preparation of Calcium rich recipes
Week X	Planning & Preparation of Calcium rich recipes
Week XI	Planning & Preparation of Thiamin rich recipes
Week XII	Planning & Preparation of Thiamin rich recipes
Week XIII	Planning & Preparation of Vitamin C rich recipes
Week XIV	Planning & Preparation of Vitamin C rich recipes
Week XV	Planning & preparation of Fibre rich recipes

**B.Sc. H.Sc. I YearII semester**  
**Human Development 1 (Theory)-203**

<b>Weeks</b>	<b>Topics</b>
Week I	Definition of Growth and Development, Difference between Growth and Development.
Week II	Principles of Development, Factors affecting development.
Week III	Stages of Development.
Week IV	Prenatal development during three trimesters.
Week V	Factors affecting Prenatal development.
Week VI	Infancy-Physical characteristics and sensory capacities of a new born.
Week VII	Development task, Physical, Motor, Social Development during Infancy.
Week VIII	Emotional and Cognitive development in Infancy.
Week IX	Factors affecting development in Infancy.
Week X	Developmental tasks, Physical, Social, Motor, Emotional, Cognitive Development during pre-school.
Week XI	Pre-school orientation and significance.
Week XII	Factors affecting development and importance of play in pre-school.
Week XIV	Revision
Week XV	Revision

**B.Sc. H.Sc. I YearII semester  
Human Development 1 (Practical)-203**

<b>Weeks</b>	<b>Topics</b>
Week I	Developmental assessment of Infants and pre-schoolers 、
Week II	File-checking
Week III	Observing relevant development in Infancy. (Physical Motor)
Week IV	File-checking
Week V	Observing relevant development in pre-school. (Motor, Emotional, Social)
Week VI	File-checking
Week VII	Collection of Stories and Rhymes for children of nursery school.
Week VIII	File-checking
Week IX	Constructing a game for a five to six year child.
Week X	File-checking
Week XI	Activities for pre-schoolers
Week XII	File-checking

**B.Sc. H.Sc. II Year (JAN-APRIL, 2024)**

**Subject: Community Development & Communication (401)**

<b>Weeks</b>	<b>Theory</b>
Week I	Meaning, Scope & Importance of Communication
Week II	Elements of Communication
Week III	Problems of Communication
Week IV	Models of Communication
Week V	Various Type of Communication
Week VI	Classification of Teaching Methods
Week VII	Scope, Advantage & Limitations of Ext. Methods
Week VIII	Scope, Advantage & Limitations of Ext. Methods
Week IX	Panchayati Raj System
Week X	Principles of Democratic Decentralisation
Week XI	Classification of Audio- Visual Aids
Week XII	Selection & Use of Audio-Visual Aids
Week XIII	Radio talks, Television
Week XIV	Personal Talk, Conferences
Week XV	Tours, Campaigns, Village Fair

**B.Sc. H.Sc. II Year (JAN-APRIL, 2024)**

**Subject: Community Development & Communication (401)**  
**Practical**

<b>Weeks</b>	<b>Practical</b>
Week I	Use of 5 Non-projected Aids
Week II	Poster
Week III	Chart
Week IV	Leaflet
Week V	Pamphlet & Flashcards
Week VI	Preparation of Projected Aids
Week VII	Transparency
Week VIII	Power Point Presentation
Week IX	Power Point Presentation
Week X	Use of Puppet as a media
Week XI	Use of Puppet as a media
Week XII	Use of Puppet as a media
Week XIII	Preparation of Radio Talks
Week XIV	Preparation of Radio Talks
Week XV	Preparation of Radio Talks

**B.Sc. H.Sc. II YearIV semester**  
**Human Development III (Theory)-402**

<b>Weeks</b>	<b>Topics</b>
Week I	Definition, Development task, Significance of period in young adulthood.
Week II	Responsibilities and Adjustment, New family, work place, parenthood in young adulthood.
Week III	Sex role issues and implications for young adults.
Week IV	Definition, Physical changes, menopause in middle adulthood.
Week V	Health issues, stress in middle age, coping with stress in middle age.
Week VI	Occupation and job satisfaction, preparation for retirement.
Week VII	Definition, developmental task of old age.
Week VIII	Common interest in old age, adjustment to family life in old age.
Week IX	Psychology changes, health problems in old age.
Week X	Cognitive and memory changed in old age.
Week XI	Retirement-Effects on self, family, society and friendship.
Week XII	Problems of old age and coping strategies.
Week XIII	Revision
Week XIV	Revision
Week XV	Revision

## B.Sc. II Year IV Semester Psychology - 403

<b>Weeks</b>	<b>Topics</b>
Week I	Motivation - Definition Types of Motives
Week II	Learning – Meaning, Nature and Theories effect of Motivation
Week III	Principles of Learning, Factors affecting Learning, Test
Week IV	Intelligence (Concept Theories, Development and Measurement)
Week V	Thinking (Concepts and Tools of Thinking)
Week VI	Imagination – Nature and Development
Week VII	Reasoning as related to imagination and Thinking
Week VIII	Personality Concept Definition and Types
Week IX	Assessment of Personality
Week X	Factors Influencing Personality
Week XI	Freud's Theory of Personality, Test
Week XII	Memory Definition and Analysis Improvement
Week XIII	Types of Memory Remembering, Test
Week XIV	Forgetting Concept and Types
Week XV	Theories Test

**B.Sc. II Year IV Semester**  
**Institutional Food Management (Theory) - 404**

<b>Weeks</b>	<b>Topics</b>
Week I	Catering Management – Definition and Scope
Week II	Hygiene and Sanitation – Environmental
Week III	Hygiene in food Handling
Week IV	Personal Hygiene Test
Week V	Organization of Spaces – Workspace
Week VI	Work Surfaces, Lighting and Ventilation
Week VII	Storage Spaces – Location, Types, Sanitation
Week VIII	Surface Areas – Location and Planning Test
Week IX	Menu Planning – Planning and Writing Menus
Week X	Types of Menus, Use of Menu
Week XI	Food Service – Various Styles of Service Test
Week XII	Food Cost Control – Why Control Food Costs
Week XIII	Costing of dishes, Means and Events
Week XIV	Pricing - Methods of Pricing
Week XV	Factors affecting Pricing Test

## **LESSON PLAN (JAN-APRIL, 2024)**

**B.Sc. (Home Science) IV<sup>th</sup>Semester, II<sup>nd</sup> Year**

### **Garment Construction and Apparel Science (415) Theory**

<b>Week</b>	<b>Syllabus</b>
<b>Week I</b>	Selection of garments for Infant
<b>Week II</b>	Selection of garments for toddlers and preschool
<b>Week III</b>	Selection of garments for School going and teenager and <b>class test</b>
<b>Week IV</b>	Selection of garments for adult and old age
<b>Week V</b>	Selection of household linen and curtain
<b>Week VI</b>	Selection of garments for draperies and towels
<b>Week VII</b>	Selection of readymade garments
<b>Week VIII</b>	Renovation and mending and <b>class test</b>
<b>Week IX</b>	Construction of drafting and pattern making
<b>Week X</b>	Construction of draping and types
<b>Week XI</b>	Fit: recognizing correct fit and balance
<b>Week XII</b>	Problems of fit and remedies <b>Class test</b>
<b>Week XIII</b>	Fashion & factors favoring and retarding fashion
<b>Week XIV</b>	Fashion cycle and buying criteria for readymade garments
<b>Week XV</b>	Samples of increasing and decreasing of knit

## **LESSON PLAN (JAN-APRIL, 2024)**

**B.Sc. (Home Science) IV<sup>th</sup> Semester, II<sup>nd</sup> Year**

**Garment construction and apparel science (415) Practical**

<b>Week</b>	<b>Syllabus</b>
<b>Week I</b>	Drafting of child bodice block
<b>Week II</b>	Drafting of child bodice block with collar
<b>Week III</b>	Drafting checking and problem taking
<b>Week IV</b>	Drafting of A line frock
<b>Week V</b>	Drafting of frock
<b>Week VI</b>	Cutting and stitching of A line frock
<b>Week VII</b>	Garments checking and file checking
<b>Week VIII</b>	Drafting of Kameej
<b>Week IX</b>	Drafting of same and query taking
<b>Week X</b>	Drafting of Salwar
<b>Week XI</b>	Cutting of Kameej and Salwar
<b>Week XII</b>	Stitching of Kameej and Salwar
<b>Week XIII</b>	Drafting of petticoat
<b>Week XIV</b>	Stitching of petticoat
<b>Week XV</b>	Checking of garments

**B.Sc. II Year IV Semester**  
**Introduction to Home Management-II (Theory) (406)**

<b>Weeks</b>	<b>Topics</b>
Week I	Ergonomics in Home
Week II	Work Simplification – Body Mechanics
Week III	Mendel's Classes of Change
Week IV	Work Study Techniques – Test
Week V	Income – Types of Income, Budget
Week VI	Steps in Budget, Factor affecting Budget
Week VII	Saving – Types of Saving – Bank
Week VIII	Insurance, Provident Fund – Test
Week IX	Credit – Its use, Types of Credit
Week X	Problem in Credit, Taxation – Types
Week XI	Basic Calculation of Income Tax – Test
Week XII	Introduction of Art – Elements of Art
Week XIII	Color, Pattern, Shape, Light, Space
Week XIV	Color – Classification, Dimensions, Color scheme
Week XV	Factors, Influencing colour

## B.Sc. II Year IV Semester Food Science (Theory) - 407

<b>Weeks</b>	<b>Topics</b>
Week I	Vegetables and Fruits – Classification, Composition
Week II	Nutritive Value, Selection, Vegetables Cookery, Shortage
Week III	Past Harvest Changes in Fruits, Enzymatic Browning
Week IV	Raising and Leavening Agents – Types, uses
Week V	Eggs – Composition, Quality of Eggs, Egg Cookery
Week VI	Use of Egg in different preparations
Week VII	Meat, Fish and Poultry – Meat – Composition
Week VIII	Nutritive Value, Post Mortem changes in Meat
Week IX	Fish – Types, Composition, Fish Cookery
Week X	Fish Spoilage, Storage
Week XI	Poultry – Types, Composition, Nutritive Value
Week XII	Spices and Condiments – Classification
Week XIII	Uses, Storage of Spices, Note on Herbs
Week XIV	Evaluation of Food Quality – Sensory Evaluation
Week XV	Objective Evaluation, Texture Evaluation

**B.Sc. II Year IV Semester**  
**Food Science (Practical) - 407**

<b>Weeks</b>	<b>Topics</b>
Week I	Preparation of James - Group I
Week II	Preparation of James – Group II
Week III	File Checking
Week IV	Preparation of Chutney - Group I
Week V	Preparation of Chutney – Group II
Week VI	File Checking
Week VII	Preparation of Pickles – Group I
Week VIII	Preparation of Pickles – Group II
Week IX	File Checking
Week X	Preparation of Jelly – Group I
Week XI	Preparation of Jelly – Group II
Week XII	File Checking
Week XIII	Preparation of Murabbas – Group I
Week XIV	Preparation of Murabbas – Group II
Week XV	Visiting to Food Industry, File Checking

**B.Sc. III Year VI Semester**  
**Women Empowerment 601**

<b>Weeks</b>	<b>Topics</b>
Week I	Status of Indian Women Legal, Social
Week II	Status of Women Economic, Political
Week III	Status of Women Educational
Week IV	Problems related to Women Violence and Abuse
Week V	Families with Marital disharmony and dowry
Week VI	Sexual discrimination and Exploitation
Week VII	Mass Media and Women Empowerment
Week VIII	Education and Empowerment
Week IX	Empowerment and Empowerment
Week X	Home Science Education and Empowerment
Week XI	Role of H.Sc in Professional Development
Week XII	Trends in Women's Movement
Week XIII	Women movement in reference to India
Week XIV	Social Welfare Programmes
Week XV	Impact of Social Welfare Programmes

**B.Sc. III Year VI Semester**  
**Child Welfare (Theory) - 602**

<b>Weeks</b>	<b>Topics</b>
Week I	Definition and Objectives of Child Welfare
Week II	Philosophy of Child Welfare
Week III	National Policy of Child Welfare (Needs & Goals)
Week IV	Problem of School dropouts and Child Labour
Week V	Effect of Mass Media on Children
Week VI	Nutritional and Educational Deprivation
Week VII	Emotional Deprivation, Test
Week VIII	Children with Special needs Blind Children
Week IX	Deaf and Dumb Children
Week X	Mentally retarded Children
Week XI	Juvenile Delinquency, Test
Week XII	Voluntary Agencies
Week XIII	International Agencies
Week XIV	Family Planning Programme in India
Week XV	Family Planning Programmes, Test

## B.Sc. III Year VI Semester Child Welfare (Practical) - 602

<b>Weeks</b>	<b>Topics</b>
Week I	Visit to Bal Bhawan, Writing Report
Week II	Visit to Nursery School, Report Writing
Week III	File Checking
Week IV	Visiting to the Institutes for Children, Report
Week V	Preparing Play Material and Toys ( 4 – 6 years old)
Week VI	Preparing Play Material (4-6 Years old)
Week VII	Prepare Questionnaire for Survey
Week VIII	Survey to know deprivation of girls
Week IX	Report writing and checking of files
Week X	Observation of Child Welfare Activities
Week XI	Write a Report on involvement of Children
Week XII	File Check
Week XIII	Make resource file regarding C.W. happening
Week XIV	Collect child Welfare happenings
Week XV	File Check

**B.Sc. H.Sc. III Year (2021-22)**  
**Subject: Nutritional Biochemistry II (603)**

<b>Weeks</b>	<b>Theory</b>
Week I	Definition and Classification of Lipids
Week II	Properties of Fatty acids
Week III	Beta Oxidation of Lipids
Week IV	Biosynthesis of Fatty acids
Week V	Ketone body formation, Ketosis, Fatty Liver
Week VI	TCA Cycle
Week VII	ETC
Week VIII	Oxidative Phosphorylation
Week IX	Biosynthesis of Proteins
Week X	Biosynthesis of Proteins
Week XI	Nucleic Acid – Concept & Composition
Week XII	Replication of Nucleic Acid
Week XIII	Transcription of Nucleic Acid
Week XIV	Genetic Code
Week XV	Structure of DNA and RNA

**B.Sc. II Year VI Semester**  
**Food Microbiology Theory (604)**

<b>Weeks</b>	<b>Topics</b>
Week I	Characteristics of Moulds, Yeasts and Bacteria
Week II	Useful and Pathogenic Microorganisms
Week III	Brief History of food microbiology
Week IV	Important Microorganisms in food – Test
Week V	Primary Source of Micro organisms in foods
Week VI	Extrinsic and Intrinsic Parameters of growth
Week VII	Contamination and Spoilage by Micro organisms
Week VIII	Preservation – Cereal, Egg, Poultry – Test
Week IX	Food Preservation – Use of High and Low Temp.
Week X	Freeze drying, Irradiation in Food Preservation
Week XI	Microbes used in Food Bio technology
Week XII	Fermented food and their benefits text
Week XIII	Public Health Hazards due to contaminated foods
Week XIV	Food borne Infections, Indices of Food, Milk
Week XV	Food, Water and Milk Testing –Test

## **LESSON PLAN (JAN-APRIL, 2024)**

**B.Sc. (Home Science) VI<sup>th</sup> Semester, III<sup>rd</sup> Year**

### **Apparel designing (615) Theory**

<b>Week</b>	<b>Syllabus</b>
<b>Week I</b>	Design : its components and characteristics
<b>Week II</b>	Structural design through variation in yarn
<b>Week III</b>	Structural design through variation in weaves
<b>Week IV</b>	Structural design through decorative finishes
<b>Week V</b>	Applied designs through dyeing & printing
<b>Week VI</b>	Applied designs through embroidery
<b>Week VII</b>	Line, form and shapes analysis
<b>Week VIII</b>	Texture analysis and colors use in garments
<b>Week IX</b>	Use of Colours in garments
<b>Week X</b>	Principles of design in garments
<b>Week XI</b>	Study average figure types
<b>Week XII</b>	Designing clothes for different figure
<b>Week XIII</b>	Designing clothes for figure with variation
<b>Week XIV</b>	Use of computer in apparel construction
<b>Week XV</b>	Application of computer aided designing

## **LESSON PLAN (JAN-APRIL, 2024)**

**B.Sc. (Home Science) VI<sup>th</sup> Semester, III<sup>rd</sup> Year**

### **Apparel designing (615) Practical**

<b>Week</b>	<b>Syllabus</b>
<b>Week I</b>	Study colors, and color wheel
<b>Week II</b>	Use of color schemes in garments
<b>Week III</b>	Study grey scale and value scale
<b>Week IV</b>	Checking of work sheets
<b>Week V</b>	Use of line in garments
<b>Week VI</b>	Study of body shapes
<b>Week VII</b>	Developments of motif and its placement
<b>Week VIII</b>	Making of same
<b>Week IX</b>	Motif enlarging and reducing effect
<b>Week X</b>	Making an apparel by embroidery
<b>Week XI</b>	Making an household article by printing
<b>Week XII</b>	Study of batik on fabric
<b>Week XIII</b>	Making an article of batik
<b>Week XIV</b>	File checking
<b>WeekXV</b>	Garments checking and problem solving

## B.Sc. H.Sc. III Year VI semester Interior Designing (Theory)-606

<b>Weeks</b>	<b>Topics</b>
<b>Week I</b>	Furniture-Selection and type
<b>Week II</b>	Furniture arrangement.
<b>Week III</b>	Types of lighting suitable for different areas of House.
<b>Week IV</b>	Various types of accessories and their place in Interior decoration.
<b>Week V</b>	Window treatment-Basic window treatment, types of curtains.
<b>Week VI</b>	Draping fabric-Selection and care.
<b>Week VII</b>	Hanging of Curtain-Pelmet, swages, valances.
<b>Week VIII</b>	Wall finishes-Paints, Wood paneling, wall paper.
<b>Week IX</b>	Floor treatment types-Brick, Stone, Tiles, Soft floor covering.
<b>Week X</b>	Design-Definition and types
<b>Week XI</b>	Principles of Design.
<b>Week XII</b>	Flower arrangement.
<b>Week XIII</b>	Revision
<b>Week XIV</b>	Revision
<b>Week XV</b>	Revision

**B.Sc. H.Sc. III Year VI sem**  
**Subject: Therapeutic Nutrition (607)**

	<b>Theory</b>
Week I	Principles of Diet Therapy
Week II	Modification of Normal Diet & Purposes
Week III	Full, Soft & Bland Diet
Week IV	Dietician and the Role of Dietician
Week V	GIT disorders – Diarrhea
Week VI	Constipation
Week VII	Fevers – Typhoid
Week VIII	T.B.
Week IX	Weight Management – Obesity
Week X	Under nutrition
Week XI	Diabetes Mellitus
Week XII	Hypertension
Week XIII	Hypertension
Week XIV	Kidney Disorders
Week XV	Kidney Disorders

**B.Sc. H.Sc. III Year**  
**Subject: Therapeutic Nutrition (607) Practical**

	<b>Practical</b>
Week I	Planning of Diet- Constipation & Diarrhea
Week II	Planning of Diet- Constipation & Diarrhea
Week III	Planning of Diet- Constipation & Diarrhea
Week IV	Preparation of Diet for Constipation & Diarrhea
Week V	Planning of Diet for Typhoid
Week VI	Planning of Diet for Typhoid
Week VII	Preparation of Diet for Typhoid
Week VIII	Planning of Diet for Hypertension
Week IX	Planning of Diet for Hypertension
Week X	Preparation of Diet for Hypertension
Week XI	Planning of Diet for Diabetes Mellitus
Week XII	Planning of Diet for Diabetes Mellitus
Week XIII	Preparation of Diet for Diabetes
Week XIV	Planning of Diet for Obesity
Week XV	Preparation of Diet for Obesity

## B.A. I Year II Semester Home Science (Theory)

Weeks	Topics
Week I	Health Education (Meaning & Objectives) Health Hazards
Week II	Definition of Health and Hygiene, Factors relating to Health
Week III	Water (Importance, Impurities, Types, Sources and Purify)
Week IV	Definition of infection, infective agents, infections disease
Week V	Communicable diseases
Week VI	Disinfectant – Definition, Types and methods
Week VII	Immunity Definition, Types and Schedule
Week VIII	Diseases Spread by insects – Malaria
Week IX	Diseases spread by ingestion
Week X	Disease Spread by droplet infections
Week XI	Diseased Spread by contact
Week XII	Transmission of heat their application
Week XIII	Thermometer and J Scales of measurement
Week XIV	Evaporation
Week XV	Revision and Test

**B.A. I Year II Semester**  
**Home Science (Practical)**

<b>Weeks</b>	<b>Topics</b>
Week I	Pottery Painting
Week II	Pottery Painting
Week III	Pottery Decoration
Week IV	Pottery Decoration
Week V	Flower Arrangement (Fresh)
Week VI	Flower Arrangement (Dry)
Week VII	Flower Arrangement (Fresh)
Week VIII	Flower Arrangement (Dry)
Week IX	Preparation of Chart
Week X	Preparation of Chart
Week XI	Preparation of Chart
Week XII	Checking (File and Chart)
Week XIII	Preparation of any article
Week XIV	Preparation of any article
Week XV	Checking of File and Article

**B.A. (Home Science) IV<sup>th</sup> Semester, II<sup>nd</sup> Year**

**Home Science (HS04) Practical**

<b>Week</b>	<b>Syllabus</b>
<b>Week I</b>	Study of sewing machine with parts
<b>Week II</b>	Making diagram of sewing machine
<b>Week III</b>	Study anthropometric body measurements
<b>Week IV</b>	File checking
<b>Week V</b>	Drafting of child bodice block with collar
<b>Week VI</b>	Drafting of A line frock
<b>Week VII</b>	Cutting and stitching of A line frock
<b>Week VIII</b>	Drafting of Kameej
<b>Week IX</b>	Drafting of Salwar
<b>Week X</b>	Checking of Draftings
<b>Week XI</b>	Kameej and Salwar cutting
<b>Week XII</b>	Stitching of garments ( Kameej and Salwar)
<b>Week XIII</b>	Drafting of petticoat
<b>Week XIV</b>	Checking of petticoat drafting
<b>Week XV</b>	Cutting and stitching of petticoat

**B.A. Home Science III Year VI Semester**  
**Home Science (HS06)**

<b>Weeks</b>	<b>Topics</b>
Week I	Definition, Aims, Subject Matter, Objective of Child Psychology
Week II	Learning – What is Learning, Importance of Learning
Week III	Methods of Learning, Factors affecting Learning
Week IV	Role of Reward and Punishment in Learning, Test
Week V	Personality Development – Nature of Personality, Definition
Week VI	Play – Definition, Features of Play, Types of Play
Week VII	Stages of Development of Child, Problems of Adolescence
Week VIII	Role of Parents and Teachers, Test
Week IX	The Expectant Mother – Signs of Pregnancy
Week X	Discomforts of Pregnancy
Week XI	Ill effects of an Early Marriage, Test
Week XII	Breast Feeding, Artificial Feeding
Week XIII	Common Ailments in Childhood – Cold, Cough, Fever
Week XIV	Digestive Disturbance – Diarrhea, Constipation, Vomiting
Week XV	Skin Infections – Test

**B.A. Home Science III Year VI Semester**  
**Home Science (Practical) HS06**

<b>Weeks</b>	<b>Topics</b>
Week I	Planning and preparing meal for Preschoolers, Group – I
Week II	Planning and preparing meal for Preschoolers, Group – II
Week III	File Checking
Week IV	Planning and Preparing meal for School Goers, Group I
Week V	Planning and Preparing meal for School Goers, Group – II
Week VI	File Checking
Week VII	Planning and Preparing meal for Adolescents, Group – I
Week VIII	Planning and Preparing meal for Adolescents, Group – II
Week IX	Planning and Preparing meal for Pregnant woman, Group – I
Week X	Planning and Preparing meal for pregnant woman, Group – II
Week XI	File Checking
Week XII	Food Preservation – Pickle, Chutney
Week XIII	Preparation of Jam, Squash
Week XIV	Preparation of Murabba
Week XV	File Checking

Name of College: Govt. PG College for Women, Rohtak		
Academic Session: 2023-24 Semester: Even		
Subject: Taxation Law-II Name of Lecturers: Ms. Jyoti Rani		
Class: B.Com. 6th Sem. Pass course Sec. (A, B, C & D) , B.Com. 6th Sem. Hons.		
Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Introduction to Rebate & Relief of Tax & its numerical	
Week 2	Computation of Total Income & its numerical	
Week 3	Leftover Part of numerical of Computation of Total Income & problem-solving session.	
Week 4	Computation of Tax Liability of Individuals and its numerical	
Week 5	Practice of numerical of Computation of Tax Liability	
Week 6	Problem Solving Session & Introduction to Filling & Filing of Return (ITR-I) & Filling & Filing of Return (ITR-II)	Test of Computation of Tax Liability
Week 7	Introduction of HUF (Schools of HUF) & Assessment of HUF	
Week 8	Meaning of Partnership Firm & Computation of Income of Partnership Firm and its numerical.	
Week 9	Continuation of the practice of its numerical and Computation of income of AOP, BOI & and its tax liability	
Week 10	Income Tax Authorities and Their Powers, Assessment Procedure & Filing of Income Tax Return	
Week 11	Introduction to Permanent Account Number, Types of Assessment	
Week 12	Meaning of Deduction of Tax at Source and Its Rules	Oral Test of Income Tax Authorities and Their Powers

Week 13	Holi Vacations	
Week 14	Computation of Advance Payment of Tax and its numerical	Written Test of Type of Assessment
Week 15	Recovery and Refund of Tax, Appeals & Revision	
Week 16	Penalties, Offences & Prosecution	
Week 17	Revision of the whole syllabus	Viva of Penalties, Offences & Prosecution

Name of College: Govt. College for Women, Rohtak

Academic Session: 2023 - 2024 Semester: EVEN

Subject: Business regulatory framework Name of Extension Lecturer: Dr.Arti

Class: B.Com. 4th Sem ,Sec C

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Indian Partnership Act	
Week 2	Indian Partnership Act	
Week 3	Indian Partnership Act	
Week 4	REVISION, PROBLEM	
Week 5	Negotiable Instruments Act	
Week 6	Negotiable Instruments Act	
Week 7	Negotiable Instruments Act	
Week 8	Sales of Goods Act	
Week 9	Sales of Goods Act	TEST
Week 10	Sales of Goods Act	
Week 11	Sales of Goods Act	
Week 12	VACATION	
Week 13	REVISION, PROBLEM	
Week 14	RTI Act : features, rights and importance	
Week 15	RTI Act : features, rights and importance	
Week 16	RTI Act : features, rights and importance	
Week 17	REVISION, PROBLEM	

Name of College: Govt. College for Women, Rohtak

Academic Session: 2023 - 2024 Semester: EVEN

Subject: Business Law-II Name of Extension Lecturer: Dr.Arti

Class: B.Com. 2nd Sem (H)

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Indian Partnership Act 1932	
Week 2	Indian Partnership Act 1932	
Week 3	Indian Partnership Act 1932	
Week 4	Indian Partnership Act 1932	
Week 5	REVISION, PROBLEM	
Week 6	The Foreign Exchange Management Act	TEST
Week 7	The Foreign Exchange Management Act	
Week 8	The Foreign Exchange Management Act	
Week 9	REVISION, PROBLEM	
Week 10	Industrial Dispute Act, 1947	
Week 11	Industrial Dispute Act, 1947	
Week 12	VACATION	
Week 13	Industrial Dispute Act, 1947	
Week 14	REVISION, PROBLEM	
Week 15	The Factories Act-1948	
Week 16	The Factories Act-1948	
Week 17	REVISION, PROBLEM	

Name of College: Govt. College for Women, Rohtak

Academic Session: 2023 - 2024 Semester: EVEN

Subject: Bus. Env& Int. bus. Name of Extension Lecturer: Dr.Arti

Class: B.Com. 6thSem(H)

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Business Environment	
Week 2	Agriculture in India	
Week 3	balance of payments	
Week 4	Problems of Growth	
Week 5	Role of Govt. in Indian Economy	
Week 6	Industrial Policy	
Week 7	International Business	
Week 8	International Business Environment	TEST
Week 9	foreign exchange	
Week 10	Balance of payments	
Week 11	REVISION, PROBLEM	
Week 12	Theories of International Trade	
Week 13	VACATION	
Week 14	role of WTO,IMF and World Bank in international trade	
Week 15	Assessing International markets;	
Week 16	international logistics and distribution	
Week 17	REVISION, PROBLEM	

Name of College: Govt. College for Women, Rohtak

Academic Session: 2023 - 2024 Semester: EVEN

Subject: Business Mathematics Name of Extension Lecturer: Dr.Arti

Class: B.Com. 2nd Sem (vocational)

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Matrices and Determinants	
Week 2	Matrices and Determinants	
Week 3	Matrices and Determinants	
Week 4	Matrices and Determinants	
Week 5	Matrices and Determinants	
Week 6	Differentiation	TEST
Week 7	Differentiation	
Week 8	Differentiation	
Week 9	Application of differentiation	
Week 10	Compound Interest and Annuities	
Week 11	Compound Interest and Annuities	
Week 12	Compound Interest and Annuities	
Week 13	VACATION	
Week 14	Ratio,	
Week 15	Proportion and Percentage	
Week 16	Profit and Loss	
Week 17	REVISION, PROBLEM	

Name of College: Govt. College for Women, Rohtak

Academic Session: 2023 - 2024 Semester: EVEN

Subject: International Marketing Name of Extension Lecturer: Dr. Arti

Class: B.Com. 6th Sem, sec B (4-6day)

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	International Marketing	
Week 2	International Marketing	
Week 3	International Marketing	
Week 4	International Marketing	
Week 5	Product Planning and Pricing	
Week 6	Product Planning and Pricing	TEST
Week 7	Product Planning and Pricing	
Week 8	Product Planning and Pricing	
Week 9	REVISION, PROBLEM	
Week 10	International Distribution	
Week 11	International Distribution	
Week 12	International Distribution	
Week 13	VACATION	
Week 14	Product Promotion	
Week 15	Product Promotion	
Week 16	Product Promotion	
Week 17	REVISION, PROBLEM	

Name of College: Govt. College for Women, Rohtak

Academic Session: 2023 - 2024 Semester: EVEN

Subject: Financial Accounting Name of Extension Lecturer: Dr.Mukta Soni

Class: B.Com. 2nd Sem ,Sec B

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Hire Purchase System and Installment Payment Systems	
Week 2	Hire Purchase System and Installment Payment Systems	
Week 3	Hire Purchase System and Installment Payment Systems	
Week 4	Hire Purchase System and Installment Payment Systems	
Week 5	Branch Accounts	
Week 6	Branch Accounts	
Week 7	Departmental Accounts	
Week 8	Departmental Accounts	
Week 9	Amalgamation	TEST
Week 10	Amalgamation	
Week 11	Amalgamation	
Week 12	VACATION	
Week 13	Dissolution of Partnership Firm	
Week 14	Dissolution of Partnership Firm	
Week 15	Joint-Venture Account	
Week 16	Royalty Account	
Week 17	REVISION, PROBLEM	

Name of College: Govt. College for Women, Rohtak

Academic Session: 2023 - 2024 Semester: EVEN

Subject: Auditing Name of Extension Lecturer: Dr. Mukta Soni

Class: B.Com. 6th Sem sec B

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Auditing	
Week 2	Auditing	
Week 3	Audit Process	
Week 4	Audit Process	
Week 5	Audit Procedure	
Week 6	Audit Procedure	TEST
Week 7	Audit Procedure	
Week 8	Audit of Public Company	
Week 9	Audit of Public Company	
Week 10	audit programmer	
Week 11	valuation of assets & liabilities	
Week 12	VACATION	
Week 13	Audit of depreciation and reserves	
Week 14	Audit Report and Investigation	
Week 15	Audit Report and Investigation	
Week 16	Audit Report and Investigation	
Week 17	REVISION, PROBLEM	

Name of College: Govt. College for Women, Rohtak

Academic Session: 2023 - 2024 Semester: EVEN

Subject: GST Name of Extension Lecturer: Dr.Mukta Soni

Class: B.Com. 6thSem sec B,D

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Introduction	
Week 2	Introduction	
Week 3	Introduction	
Week 4	Supply under GST	
Week 5	Supply under GST	
Week 6	Place of Supply	
Week 7	Input tax credit	
Week 8	Input tax credit	TEST
Week 9	Input tax credit	
Week 10	Registration; Issue of invoices	
Week 11	Registration; Issue of invoices	
Week 12	Registration; Issue of invoices	
Week 13	VACATION	
Week 14	Registration; Issue of invoices	
Week 15	Customs duty	
Week 16	export procedure	
Week 17	REVISION, PROBLEM	

Name of College: Govt. College for Women, Rohtak

Academic Session: 2023 - 2024 Semester: EVEN

Subject: Business economics Name of Extension Lecturer: Dr.Mukta Soni

Class: B.Com. 2nd Sem (vocational)

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Perfect Competition	
Week 2	Perfect Competition	
Week 3	Perfect Competition	
Week 4	Monopoly	
Week 5	Monopoly	
Week 6	Monopolistic Competition	TEST
Week 7	Monopolistic Competition	
Week 8	Oligopoly :	
Week 9	Oligopoly :	
Week 10	REVISION, PROBLEM	
Week 11	Marginal Productivity Theory and demand	
Week 12	Marginal Productivity Theory and demand	
Week 13	VACATION	
Week 14	Exploitation of labour; Rent- Concept	
Week 15	Interest	
Week 16	break-even point analysis.	
Week 17	REVISION, PROBLEM	

### Lesson Plan Name

of College: Govt. PG College for Women, Rohtak

Academic Session: 2023-2024 Semester: EVEN

Subject: Foundation of International Business Name of Extension Lecturer: Sunisha Sehgal

Class: BBA 6th SEM.

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Introduction, Characteristics, Types, advantages, disadvantages Process of International Business, strategies, factor for the Growth of IB	
Week 2	Introduction, Structure, need for study Of International Business Environment, types of business risk & risk in IB, Risk management process, methods of handling risk in IB	
Week 3	Motives & Harmful Effects of Internationalisation of Business, factor affecting gains from International trade, concept, arguments for favouring & against free trade & protection	Test of Introduction of IBE
Week 4	Features, Objectives, Structure, Advantages & Disadvantages of WTO, role, challenges, global financial system	
Week 5	Factor affecting selection of entry mode, Strategies of Globalisation, Essentials For entry into Foreign Market, modes of IB, Strategies of Globalisation, essentials for entry into foreign market	
Week 6	Steps in Country Evaluation & Selection, factors used in country evaluation & selection, evaluation matrix	
Week 7	Introduction, classification, need of foreign capital, factor affecting, advantages, disadvantages of FDI, New foreign investment policy	Assignment on WTO
Week 8	Need for Harmonising Accounting Differences Across Nations, Causes for differences	
Week 9	Internal & External Control Mechanism in IB, difficulties in control over IB, Objectives of Global Manufacturing Strategies, Factor affecting location global manufacturing & logistic decision	

Week 10	Concentrated vs. Dispersed Location, Make or Buy Decision, Supply Chain management, Material Management	
Week 11	Nature, Need & Difficulties in International Marketing, International product strategies	Written Test of FDI
Week 12	Factors in International Pricing, Distribution Network	
Week 13	Holi Vacations	Assignment on International Marketing
Week 14	Lessard Lorange Model, Cross Cultural Challenges in IB	
Week 15	International Staffing & Compensation Decisions & Revision	
Week 16	Revision of Whole syllabus	
Week 17	Test of whole syllabus	

### Lesson Plan Name

of College: Govt. PG College for Women, Rohtak

Academic Session: 2023-2024 Semester: EVEN

Subject: Financial Management Name of Extension Lecturer: Sunisha Sehgal

Class: BBA 4th SEM.

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Nature & Scope, Objectives, functions Of Financial Management, Evolution of Business Finance, Organization of Finance Function	
Week 2	Introduction of Time value of Money, methods, practical problems on time value of money	
Week 3	Introduction of Cost of capital, Significance & Factor Affecting, problems in determination of cost of capital, computation of cost of capital	Test of Introduction of Financial Management

Week 4	Problem Solving Session & practical questions of cost of debt, equity share capital, retained earnings, miscellaneous illustrations	
Week 5	Introduction, Features, Importance & kinds, techniques of Capital Budgeting	
Week 6	Practical questions of ARR, NPV, IRR	
Week 7	Practice of methods of Capital Budgeting, problem solving session	Assignment on Cost of Capital
Week 8	EPS-EBIT Analysis, Practical questions on Indifference point level	
Week 9	Introduction, types, significance, limitation of Leverages, Practical question on operating leverage	Written Test of Capital Budgeting
Week 10	Features & Factors Affecting Capital Structure, Theories of Capital Structure	
Week 11	Practical Questions of Capital Structure	Written Test of Leverage
Week 12	Dividend policy-Theories, factor affecting	
Week 13	Holi Vacations	
Week 14	Nature, Factors Affecting, techniques & Management of Working Capital	Assignment on Capital Structure
Week 15	Objectives Of Cash Management& Factor Determining Cash Needs	
Week 16	Objectives & Techniques of Inventory Management, Receivables	
Week 17	Revision & Problem-solving session	

### Lesson Plan

Name of College: Govt. PG College for Women, Rohtak

Academic Session: 2023-2024 Semester: EVEN

Subject: Business Statistics Name of Extension Lecturer: Sunisha Sehgal

Class: BBA 2nd SEM.

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Introduction to Statistics, Scope, Collection & Classification of data & its types, Objectives	
Week 2	Rules& Examples of Construction of Frequency Distribution	
Week 3	Presentation of data, methods, objectives, types& rules for construction of tables, diagrams, graphs	Test of Introduction to Statistics
Week 4	Problem Solving Session & Introduction to Central Tendency, meaning, objectives, types of Averages, Practice of Arithmetic Mean	
Week 5	Combined Mean, Median, Mathematical Properties Merits &Demerits of Mean	
Week 6	Partition Values-Quartiles, Deciles, & Percentiles, Mode, Geometric &Harmonic Mean & its relation	
Week 7	Practice of Mean, Median, Mode & its relation, Introduction, objectives, Properties, methods of measuring Dispersion, practice of Dispersion & its types.	Assignment on Construction of Tables
Week 8	Practice of Regression, Standard Error	
Week 9	Introduction of Skewness, test & measure of Skewness Karl Pearson, Bowley's, Kelly's Method, Practice of methods of Dispersion.	Written Test of Central tendency
Week 10	Correlation-types, degrees, methods	
Week 11	Properties of coefficient of correlation, problems of correlation, coefficient of determination	

Week 12	Regression types, coefficient of Regression	
Week 13	Holi Vacations	
Week 14	Index Number, weighted index number	Written Test of Regression
Week 15	Time Series I-utility, components, analysis of time series, methods of measuring trend	Assignment on Index Number
Week 16	Time Series II, Calculation of growth rate	
Week 17	Revision & Problem-solving session	

### Lesson Plan

Name of College: Govt. PG College for Women, Rohtak

Academic Session: 2023-2024 Semester: EVEN

Subject: HRM Name of Extension Lecturer: Sunisha Sehgal

Class: BBA 4th SEM.

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Nature, Scope, need, perquisites of HRM, Qualities of HR Manager, Difference between of HRM & Personnel Management	
Week 2	Roles, Functions, Evolution of HRM, Horizons of HRM in India	
Week 3	HR Policies & Procedures, features, essentials of personnel policy, factor affecting, process of formulation of personnel policy, HRM IN Globally Competitive Environment, HR challenges& emergence	Test of Introduction of HRM
Week 4	Introduction, process, challenges of strategic HRM, HR Scorecard Approach, HR Outsourcing BPO KPO	
Week 5	Introduction, Need, Objectives, Process, advantages, disadvantages Of HR Planning, factor affecting for effective HR	

	Planning	
Week 6	Introduction, Objectives, Uses, Process, techniques, problems of Job Analysis, job description & specification	
Week 7	Advantages, Disadvantages, Objectives & Methods of Job Design, Introduction of Recruitment, factor affecting, policy of recruitment, sources of recruitment	Assignment on Recruitment
Week 8	Performance Appraisal, Developing an Effective Performance Appraisal	
Week 9	Introduction, Benefits, Criteria, process of Selection, Placement, Induction, Rightsizing, Need, problems, Techniques, Challenges, Suggestions In Rightsizing	Written Test of Job analysis & design
Week 10	Flexible work schedule, employee training- Characteristics, Objectives, Need, methods of Training & Development, cross cultural training,	Oral Test of Induction & Placement
Week 11	Carrer planning & Development - Nature, Objectives, Advantages, Process of Career Planning & Development, Employee Retention, Succession Planning	Written Test of Recruitment & Selection
Week 12	Advantages, Disadvantages & Suggestions of Succession Planning, Performance Appraisal	
Week 13	Holi Vacations	
Week 14	Compensation Management, Essentials, Characteristics of Good Reward System	Assignment on Carrer Planning
Week 15	Compensation Management II-Nature, Need, Objectives of Fringe Benefits	
Week 16	Accident Safety Consciousness, Obj Statutory Provisions regarding Health	
Week 17	Types, Scope, Process & Principles of Competency Based HRM, Balance Scorecard Approach	Viva of Compensation Management

Name of College: Govt. College for Women, Rohtak Academic  
 Session: 2023 - 2024 Semester: EVEN  
 Subject: Corporate Accounting-II      Class: B.Com.4th Sem, Sec A&C  
 Name of Extension Lecturer: MS. Priyanka

<b>Week of Month</b>	<b>Topics/Chapters to be covered</b>
Week 1	Internal Reconstruction
Week 2	Internal Reconstruction
Week 3	External Reconstruction in the nature of merger and purchase
Week 4	External Reconstruction in the nature of merger and purchase
Week 5	Continue
Week 6	Liquidaton of a company
Week 7	Liquidaton of a company
Week 8	Liquidaton of a company
Week 9	Financial reporting for financial institutions
Week 10	Financial reporting for financial institutions
Week 11	Final Accounts of Banking company
Week 12	Final Accounts of Banking company
Week 13	Holi vacations
Week 14	Accounts of Holding Companies
Week 15	Continue
Week 16	Continue
Week 17	Revision

Name of College: Govt. College for Women, Rohtak Academic  
Session: 2023 - 2024 Semester: EVEN  
Subject: Financial Accounting-II      Class: B.Com. Hons.2nd Sem  
Name of Extension Lecturer: MS. Priyanka

<b>Week of Month</b>	<b>Topics/Chapters to be covered</b>
Week 1	Dissolution of Partnership Firm-Insolvency of Partners
Week 2	Continue
Week 3	Amalgamation and Sale of Partnership Firm
Week 4	Hire Purchase Systems & Installment Payment System
Week 5	Continue
Week 6	Continue
Week 7	Lease Accounting
Week 8	Branch Account
Week 9	Continue
Week 10	Continue
Week 11	Departmental Accounts
Week 12	Continue
Week 13	Holi vacations
Week 14	Royalty Accounts
Week 15	An Introduction to Tally
Week 16	Continue
Week 17	Revision

Name of College: Govt. College for Women, Rohtak Academic  
Session: 2023 - 2024 Semester: EVEN  
Subject: Cost Accounting-II                      Class: B.Com.4th Sem, Sec D  
Name of Extension Lecturer: MS. Priyanka

<b>Week of Month</b>	<b>Topics/Chapters to be covered</b>
Week 1	Marginal Costing & profit planning
Week 2	Continue
Week 3	Break even and Profit analysis
Week 4	Process costing
Week 5	Continue
Week 6	Joint Product & By product
Week 7	Contract Costing
Week 8	Continue
Week 9	Continue
Week 10	Job Costing and Batch Costing
Week 11	Budgetary Control
Week 12	Continue
Week 13	Holi Vacations
Week 14	Responsibilityaccounting
Week 15	Standard Costing
Week 16	Continue
Week 17	Revision

Government PG College for Women, Rohtak			
Lesson Plan: 2023-24			
Teacher's Name: Dr. Mamta Ranga		Subject: Business Management	
Class: B.Com. 2nd Semester Pass Course (Sec. B & C)			
Sr. No.	Time Period	Topics to be Covered	Assignments, Presentation and Test etc.
1	Week 1	Staffing: Introduction, meaning, Scope or Process of Staffing, Job Analysis, Importance of Job Analysis	
2	Week 2	Recruitment : meaning and sources, Evaluation of recruitment sources	
3	Week 3	Selection : meaning and concept, Selection tests, Selection process	
4	Week 4	Training: meaning and nature, Advantages of Training, Difference between Training and Development, Training methods: On-the-Job training and Off-the-Job training	
5	Week 5	Motivation: meaning, nature, Importance of Motivation, Motivation process, Theories of Motivation: Maslow's Need Hierarchy Theory, Herzberg's Motivation- Hygiene Theory	Class Test
6	Week 6	Theories of Motivation: McGregor's X and Y Theory, Ouchi's Z Theory, Motivational Techniques: Positive and Negative Motivation	Presentations
7	Week 7	Leadership: meaning, nature, Qualities of a good Leader, Theories of Leadership: The Trait Theory, The Situation Theory, The Follower's Theory	Presentations
8	Week 8	Theories of Leadership: The Follower's Theory, Behavioural Theory and Other Theories, Leadership Styles: Motivational, Power Based	Class Test
9	Week 9	Leadership Styles: Result Based Leadership Style Communication: meaning, Process, Communication Network	Presentations
10	Week 10	Communication media, Barriers to Effective Communication, Importance of effective communication	Presentations
11	Week 11	Controlling: meaning and nature, Objectives and Importance of Controlling, Controlling Process, Relationship between Planning and Controlling	Class Test
12	Week 12	Control Techniques: traditional and modern	Presentations
13	Week 13	Holi Vacations	
14	Week 14	Programme Evaluation and Review Technique and Critical Path Method	
15	Week 15	Management of Change: meaning and nature, Causes of change, Types of Changes	Discussion on assignment
16	Week 16	Management of Change: Process of Planned Change, Revision and discussion on problems	Presentations

17	Week 17	Revision	Viva-Voce
<b>Government PG College for Women, Rohtak</b>			
<b>Lesson Plan: 2022-24</b>			
<b>Teacher's Name: Dr. Mamta Ranga</b>			
<b>Subject: Production Management</b>			
<b>Class: M.Com. 4th Sem</b>			
<b>Sr. No.</b>	<b>Time Period</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
1	Week 1	Concept of Production Management, Background of Production Management, Different Aspects of Production Management, Production Management - Five P's	
2	Week 2	Production Management - Objectives, Scope, Functions and Organisation, Problems	
3	Week 3	Benefits of Production Management, Relationship with Other Areas, Present & Future Scenario of Production Management	
4	Week 4	Types of Production System - Intermittent Production, Flow Production, Process Planning	
5	Week 5	Process Analysis - Stages, Process Analysis - Techniques, Process of Plant Location	Class Test
6	Week 6	Theories of Plant Location, Influencing Factors, Facilities Location Planning, Important Techniques For Location Decisions	Presentations
7	Week 7	Importance of Plant Location, Quantitative Models of Location, Consequences of Improper Location	Presentations
8	Week 8	Recent Developments, Plant Layout -Meaning, Objectives, Principles, Plant Layout - Cost & Importance	
9	Week 9	Advantage and Factor Influencing, Procedure For New Plant, Types of Plant Layouts	Class Test
10	Week 10	Techniques of Plant Layout, Production Planning - Concept, Need and Types	Presentations
11	Week 11	Production Planning - Concept, Need and Types, Techniques	Presentations
12	Week 12	Factors Influencing Production Planning, Production Control - Meaning, Objectives and Elements	Class Test
13	Week 13	Holi Vacations	Presentations
14	Week 14	Control Techniques, Production Control in Different Production Systems, Benefits and Limitations	Discussion on topics of assignment
15	Week 15	Quality Control - Meaning and Scope, Principles of Quality Control, Quality Control - Objectives and Organisation	Presentations
16	Week 16	Quality Control - Tools and Techniques, Maintenance Programme Techniques and Organisation	

17	Week 17	Revision	Viva-Voce
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<b>Government PG College for Women, Rohtak</b>			
<b>Lesson Plan: 2023-24</b>			
<b>Teacher's Name: Dr. Mamta Ranga</b>			
<b>Subject: Goods and Service Tax (GST) &amp; Customs Law</b>			
<b>Class: B.Com. 6th Semester Pass Course (Sec. – A &amp; C)</b>			
<b>Sr. No.</b>	<b>Time Period</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
1	Week 1	Introduction, Overview of GST	
2	Week 2	Salient feature of GST, Benefit of GST, Concept of GST, Important Definition	
3	Week 3	Constitutional Framework of Goods and Service Tax, Supply under GST	Group Discussion
4	Week 4	Meaning and Scope of Supply including Composite and Mixed Supply	
5	Week 5	Levy and Collection including Reverse Charge Mechanism	Group Discussion
6	Week 6	Tax on Electronic Commerce Operator (ECO); Exemption from GST; Composition Levy	
7	Week 7	Place of Supply:- Within State/Union Territory, Interstate, Import and Export	Written Test
8	Week 8	Time of Supply of Goods and Services; Value of Supply including Valuation Rules; Input Tax Credit: -Eligibility and Conditions for taking Input Tax Credit	
9	Week 9	Apportionment of Credit and Blocked Credit, ITC in case of Banking Company and Financial Institutions	Viva-Voce
10	Week 10	, ITC availability in Special Circumstances, Reversal of ITC on Switching to Composition Levy or Exit from tax- paying Status	
11	Week 11	, Transfer of ITC on account of change in Constitution of Registered Person, Input Service Distributors	Written Test
12	Week 12	Registration; Issue of invoices:- Tax Invoice, Revised Tax Invoice, Credit Note, Debit Note, Bill of Supply, Receipt Voucher	
13	Week 13	Holi Vacations	
14	Week 14	Refund Voucher, Payment Voucher, Invoices in special cases. ; E-way Bill; Payment of Taxes;	Assignments
15	Week 15	Custom Duty : Important Definitions, Types, Importance, Document required for Import	Written Test
16	Week 16	Document required for Import and Export Procedure: Export Promotion Scheme	
17	Week 17	Revision	Viva-Voce

<b>Lesson Plan</b>		
<b>Name of College: Govt. P.G. College for Women, Rohtak</b>		
<b>Academic Session:2023-24 Semester: Even</b>		
<b>Name of the Lecturer: Ms. Savita</b>		
<b>Subject: Cost Accounting Standards and Financial Reporting</b>		
<b>Class: M.Com 4th Semester</b>		
<b>Week of the Month</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
Week 1	Institute of Cost Accounts of India: Introduction, Meaning, Concept and history	
Week 2	Cost Accounting Standard Board: Introduction and origin ,objectives and functions.	
Week 3	Generally Accepted Cost Accounting Principles: introduction, objectives, scope, nature of content and format	.
Week 4	Conceptual framework of GACAP and its applicability, Cost Accounting Standards(CAS): need and statutory recognition of CAS. Overall recommendations of B. B. Goyal expert committee.	.
Week 5	Outlines of CAS: Classification of cost (CAS-1),Overheads (CAS- 3), Material cost (CAS-6),Employee cost (CAS-7),	Class Test
Week 6	Direct expenses (CAS -10),Administrative Overheads (CAS-11),Repairs and Maintenance Cost (CAS-12),Cost of Service Cost Center (CAS - 13)	Presentations
Week 7	Selling and Distribution Overheads (CAS-15) Depreciation and Amortization ( CAS - 16) ,Research and Development Costs ( CAS-18) , Joint Costs(CAS-19)	Class Test
Week 8	Capacity Determination (CAS-2), Cost of Production for Captive Consumption(CAS- 4),Determination of Average Cost of Transportation (CAS-5), cost of utilities ( CAS-8)	
Week 9	Packing Material Cost (CAS-9), Pollution Control Cost (CAS-14): Introduction, objectives, assignment of cost, presentation and disclosure of CAS-14	Presentations

Week 10	Interest and Financing Charges (CAS-17):Introduction, objectives, scope, definition and explanation of terms used, principles of measurement, assignment of cost, presentation and disclosure of CAS-17, Royalty and Technical Know – How (CAS-20)	Class Test
Week 11	Quality control ( CAS-21), Manufacturing cost (CAS-22),Latest amendments and development in CAS	Presentations
Week 12	Cost auditor –(Appointment, Eligibility, Remuneration, Rights and Responsibilities, Functions, Appointing Authorities)	Presentations
Week 13	Holi Vacations	
Week 14	Cost Audit: meaning, concept, objectives, nature, scope, advantages of Cost Audit, Genesis of Cost Audit in India, types of Cost Audit, relevance of Cost Audit, usefulness of Cost Audit, Difference between Cost Audit and Cost Investigation.	Class Test
Week 15	(Cost Auditing Standard -101) : Planning on Audit of Cost Statements, (CAS -102): Cost Audit Documentation ,(CAS 103) : Overall Objectives of Independent Cost Auditor	Presentations
Week 16	Companies ( Cost Records and Audit ) Rules 2014	
Week 17	Revision	

Lesson Plan		
Name of College: Govt. P.G. College for Women, Rohtak		
Academic Session:2023-24 Semester: Even		
Name of the Lecturer: Ms Savita		
Subject: Financial Management		
Class: B.Com 6th Semester ( Sec A and D)		
Week of the Month	Topics to be Covered	Assignments, Presentation and Test etc.

Week 1	Introduction of Financial Management	
Week 2	Meaning, Nature and Objectives	
Week 3	Importance, function and Difference between FM and FA	
Week 4	Revision and test	Class Test
Week 5	Meaning, Nature of working capital, Types of working capital	
Week 6	Analysis of working capital, Working capital forecasting techniques	Class Test
Week 7	Meaning, nature of capital structure	
Week 8	Theories of capital structure and practical questions	
Week 9	Management of cash and marketable securities, Mgt of receivables	
Week 10	Cost of capital	
Week 11	Capitalisation and leverage	
Week 12	EBIT-EPS Analysis	Class Test
Week 13	Holi Vacations	
Week 14	Issues in Dividend Policies	Assignments
Week 15	Considerations in dividend policy	
Week 16	Stability of dividends, Forms of dividend	
Week 17	Revision	

<b>Government PG College for Women, Rohtak</b>			
<b>Lesson Plan for Even Semester 2022-23</b>			
<b>Teacher's Name: Parmod Kumar</b>			
<b>Subject: Corporate Law-II</b>			
<b>Class: B.Com (Pass) 4th Semester (Sec- A)</b>			
<b>Sr. No.</b>	<b>Week</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
1	1st	Shares: -; Types of shares; Allotment of Shares; Transfer and Transmission of shares	
2	2nd	Share capital: - Meaning and forms of capital; Alteration of share capital; Reduction of share capital	
3	3rd	Further issue of share capital; Rights of pre-emption of shares. Shareholders and Members: - Difference between Shareholders and members	
4	4th	Modes of acquiring membership; termination of membership; who may be members? Rights and Liabilities of members	
5	5th	Meeting of Company: - Essentials of valid meeting	
6	6th	meetings of Shareholders: - Annual general meeting; Extra-ordinary general meeting; meetings of board of directors	
7	7th	Proxy; Voting, Notice, Agenda and Minutes of meetings	
8	8th	Directors: - Duties, Powers	
9	9th	Directors: - Liabilities, Appointment and removal of directors	
10	10th	Winding Up: - Meaning; Winding up by the Tribunal-Petition for winding up	Assignment/Presentation
11	11th	Voluntary winding up; Powers and Duties of company Liquidator	
12	12th	Consequences of winding up	Class test-1
13	13th	Depository System –meaning and importance	
14	14th	Paperless Trading – Benefits and Procedure; Need for educating investors	Class Test-2
15	15th	Revision and Removal of Doubts	
16	16th	Revision and Removal of Doubts	

<b>Government PG College for Women, Rohtak</b>			
<b>Lesson Plan for Even Semester 2022-23</b>			
<b>Teacher's Name: Parmod Kumar</b>			
<b>Subject: Financial Management</b>			
<b>Class: M.Com 2nd Semester</b>			
<b>Sr. No.</b>	<b>Week</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
1	1st	Financial Management: Introduction, Meanings and Definitions, Goals of Financial Management, Finance Functions, Interface between Finance and Other Business Functions,	
2	2nd	Financial Planning: Introduction, Objectives, Benefits, Guidelines, Steps in Financial Planning, Factors Affecting Financial Planning, Estimation of Financial Requirements of a Firm, Capitalization.	
3	3rd	Time Value of Money: Introduction, Rationale, Future Value, Present Value, Construction of Present Value Tables and Annuity Tables. Cost of Capital: Introduction, Meaning of Cost of Capital, Cost of Different Sources of Finance, Weighted Average Cost of Capital.	
4	4th	Leverage: Introduction, Operating Leverage, Application of operating leverage, Financial Leverage, Combined Leverage. Capital Structure: Introduction, Features of an Ideal Capital Structure, Factors Affecting Capital Structure, Theories of Capital Structure.	
5	5th	Dividend Decisions: Introduction, Traditional Approach, Dividend Relevance Model, Miller and Modigliani Model, Stability of Dividends, Forms of Dividends.	
6	6th	Capital Budgeting: Introduction, Importance of Capital Budgeting, Complexities Involved in Capital Budgeting Decisions, Phases of Capital Expenditure Decisions,	
7	7th	Identification of Investment Opportunities, Rationale of Capital Budgeting Proposals, Capital Budgeting Process, Investment Evaluation,	
8	8th	Appraisal Criteria for Capital Budgeting Decision	
9	9th	Risk Analysis in Capital Budgeting : Introduction, Types and Sources of Risk in Capital Budgeting, Risk Adjusted Discount Rate, Certainty Equivalent Approach, ,	

10	10th	Probability Distribution Approach, Sensitivity Analysis, Simulation Analysis, Decision Tree Approach. Capital Rationing: Introduction, Types, Steps Involved in Capital Rationing	
11	11th	Various Approaches to Capital Rationing.	Class test-1
12	12th	Corporate Restructuring: Mergers and Acquisitions, Take Overs, Amalgamation	Assignment/Presentation
13	13th	Leverage Buy-outs, Management Buy Out Financial Restructuring: and Share Split	
14	14th	Consolidation, Cancellation of Paid Up Capital, Corporate Failures and Liquidations	
15	15th	Numerical Problems solving	Class Test-2
16	16th	Revision and Clearance of Doubts	

**Government PG College for Women, Rohtak**

**Lesson Plan for Even Semester 2022-23**

**Teacher's Name: Parmod Kumar**

**Subject: Company Law-II**

**Class: B.Com (Hons) 4th Semester**

<b>Sr. No.</b>	<b>Week</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
1	1st	Shares: -; Types of shares; Allotment of Shares; Transfer and Transmission of shares	
2	2nd	Share capital: - Meaning and forms of capital; Alteration of share capital; Reduction of share capital	
3	3rd	Further issue of share capital; Rights of pre-emption of shares. Shareholders and Members: - Difference between Shareholders and members	
4	4th	Modes of acquiring membership; termination of membership; who may be members? Rights and Liabilities of members	
5	5th	Meeting of Company: - Essentials of valid meeting	
6	6th	meetings of Shareholders: - Annual general meeting; Extra-ordinary general meeting; meetings of board of directors	
7	7th	Proxy; Voting, Notice, Agenda and Minutes of meetings	
8	8th	Directors: - Duties, Powers	
9	9th	Directors: - Liabilities, Appointment and removal of directors	
10	10th	Winding Up: - Meaning; Winding up by the Tribunal-Petition for winding up	Assignment/Presentation
11	11th	Voluntary winding up; Powers and Duties of company Liquidator	

12	12th	Consequences of winding up	Class test-1
13	13th	Depository System –meaning and importance	
14	14th	Paperless Trading – Benefits and Procedure; Need for educating investors	Class Test-2
15	15th	Revision and Removal of Doubts	
16	16th	Revision and Removal of Doubts	

<b>Lesson Plan</b>		
<b>Name of College: Govt. P.G. College for Women, Rohtak</b>		
<b>Academic Session:2023-24 Semester: Even</b>		
<b>Name of the Lecturer: Dr. Renu</b>		
<b>Subject: Financial Management</b>		
<b>Class: B.Com 6th Semester ( Sec B)</b>		
<b>Week of the Month</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
Week 1	Introduction of Financial Management	
Week 2	Meaning, Nature and Objectives	
Week 3	Importance, function and Difference between FM and FA	
Week 4	Revision and test	Class Test
Week 5	Meaning, Nature of working capital, Types of working capital	
Week 6	Analysis of working capital, Working capital forecasting techniques	Class Test
Week 7	Meaning, nature of capital structure	
Week 8	Theories of capital structure and practical questions	
Week 9	Management of cash and marketable securities, Mgt of receivables	
Week 10	Cost of capital	
Week 11	Capitalisation and leverage	
Week 12	EBIT-EPS Analysis	Class Test
Week 13	Holi Vacations	
Week 14	Issues in Dividend Policies	Assignments
Week 15	Considerations in dividend policy	
Week 16	Stability of dividends, Forms of dividend	
Week 17	Revision	

<b>Lesson Plan</b>		
<b>Name of College: Govt. P.G. College for Women, Rohtak</b>		
<b>Academic Session:2022-23 Semester: Even</b>		
<b>Name of the Lecturer: Ms Renu</b>		
<b>Subject: Human Resources Management</b>		
<b>Class: M.Com 4th Semester</b>		
<b>Week of the Month</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
Week 1	Human Resource Management- An Introduction, Nature, Features, Scope, Objectives and importance of Human Resource Management	
Week 2	Functions of Human Resource Management- Managerial and Operative, Functions; Qualification and Qualities of Human Resource Manager in an Organisation	
Week 3	Evolution and growth of Human Resource Management in India, Recent Techniques in Human Resource	Presentations
Week 4	Workers Participation in management (W.P.M): Concept, Need, Objectives and Forms of W.P.M	
Week 5	Prerequisites of effective participation , Evaluation of the scheme of W.P.M	
Week 6	Essential features, Functions and progress of Joint Management Councils in India	Presentations
Week 7	Causes of failure of Joint Management Councils,Trade Unions: Concept, Need, Functions and Objectives of Trade Unions	Class Test
Week 8	Origin, Growth and development of Trade Unions in India, Channel structure and selection decisions	
Week 9	Difficulties and Principal drawbacks of Trade Unions movement in India.	Class test
Week 10	Collective Bargaining: Concept, nature, Scope and functions of Collective Bargaining in India,	
Week 11	Essentials for the success of collective Bargaining in India. foreign sales agents, Basic export procedure and documentation	
Week 12	Employee Morale: Concept, Nature and significance of morale	

Week 13	Holi Vacations	Presentations
Week 14	Determinants of morale and measurement of morale.	
Week 15	Productivity: Concept and significance of productivity, Measurement of Productivity, Factors influencing Industrial productivity	
Week 16	Measures to Improve productivity and relationship between Morale and Strategy	
Week 17	Revision	

Lesson Plan		
<b>Name of College: Govt. P.G. College for Women, Rohtak</b>		
<b>Academic Session:2022-23 Semester: Even</b>		
<b>Name of the Lecturer: Dr Renu and Ms Pooja Rani</b>		
<b>Subject: Statistical analysis with MS Excel (Sharing)</b>		
<b>Class: B.Com(Hons) 4th Semester</b>		
<b>Week of the Month</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
Week 1	Data collection- Meaning, Experiments and Surveys, Collection of Primary data,	
Week 2	Questionnaires, schedules, collection of secondary data, selection of appropriate methods of data collection.	
Week 3	Data preparation process, missing values and outliers	Presentations
Week 4	Descriptive statistics and steps involved in calculation of descriptive statistics in MS Excel.	
Week 5	Mean, Median, mode, range, Standard deviation, skewness, kurtosis	
Week 6	Sampling and statistical inference – parameter and statistic, sampling and non-sampling errors,	Presentations
Week 7	Sampling distribution of mean and proportion, degree of freedom, standard error, central limit theorem.	Class Test

Week 8	Testing of Hypothesis with the help of MS Excel; hypothesis testing – meaning, types, type 1 and type 2 errors,	
Week 9	Level of significance, two tailed and one tailed tests	Class test
Week 10	Procedure for hypothesis testing for mean, proportion and variance,	
Week 11	Limitations of the test of hypothesis.	
Week 12	Chi-square test and analysis of variance with the help of MS Excel;	
Week 13	Holi Vacations	Presentations
Week 14	An introduction to SPSS- coding,	
Week 15	An introduction to SPSS - graphs, pivot tables,	
Week 16	An introduction to SPSS - assign weight, missing values	
Week 17	Revision	

Lesson Plan		
Name of College: Govt. P.G. College for Women, Rohtak		
Academic Session:2022-23 Semester: Even		
Name of the Lecturer: Ms Renu		
Subject: Fundamental of Management		
Class: M.Com 2nd Semester		
Week of the Month	Topics to be Covered	Assignments, Presentation and Test etc.
Week 1	Introduction: concept and nature of management;	
Week 2	Evolution of management thoughts – traditional,	

Week 3	Behavioural, system and contingency viewpoints	Presentations
Week 4	Planning, decision making and organizing: nature and elements of planning,	
Week 5	Planning types and models;	
Week 6	Strategic planning – an overview; basic issues in organizing – work specialization,	Presentations
Week 7	Chain of command delegation, decentralization, span of management, bases for departmentation	Class Test
Week 8	Leading: recognition of human factor,	
Week 9	Motivation models/approaches	Class test
Week 10	leadership styles/behaviours	
Week 11	Personal characteristics of effective leaders, leadership development	
Week 12	Management control– concept and process,	
Week 13	Holi Vacations	Presentations
Week 14	Overview of control techniques,	
Week 15	Effective control system; evaluating corporate social performance	
Week 16	Managing company ethics and social responsibility	
Week 17	Revision	

<b>Lesson Plan</b>		
<b>Name of College: Govt. P.G. College for Women, Rohtak</b>		
<b>Academic Session:2023-24 Semester: Even</b>		
<b>Name of the Lecturer: Dr. Parmod Kumar</b>		
<b>Subject: Financial Management</b>		
<b>Class: B.Com 6th Semester ( Sec C)</b>		
<b>Week of the Month</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
Week 1	Introduction of Financial Management	
Week 2	Meaning, Nature and Objectives	
Week 3	Importance, function and Difference between FM and FA	
Week 4	Revision and test	Class Test
Week 5	Meaning, Nature of working capital, Types of working capital	
Week 6	Analysis of working capital, Working capital forecasting techniques	Class Test
Week 7	Meaning, nature of capital structure	
Week 8	Theories of capital structure and practical questions	
Week 9	Management of cash and marketable securities, Mgt of receivables	
Week 10	Cost of capital	
Week 11	Capitalization and leverage	
Week 12	EBIT-EPS Analysis	Class Test
Week 13	Holi Vacations	
Week 14	Issues in Dividend Policies	Assignments
Week 15	Considerations in dividend policy	
Week 16	Stability of dividends, Forms of dividend	
Week 17	Revision	

<b>Lesson Plan</b>		
<b>Name of College: Govt. P.G. College for Women, Rohtak</b>		
<b>Academic Session:2023-24 Semester: Even</b>		
<b>Name of the Lecturer: Dr. Parmod Kumar</b>		
<b>Subject: Company Law</b>		
<b>Class: B.Com (Hons) 4th Semester</b>		
<b>Week of the Month</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
Week 1	Shares: - Types of shares; Allotment of Shares; Transfer and Transmission of shares	
Week 2	Share capital: - Meaning and forms of capital; Alteration of share capital; Reduction of share capital	
Week 3	Further issue of share capital; Rights of pre-emption of shares. Shareholders and Members: - Difference between Shareholders and members	
Week 4	Modes of acquiring membership; termination of membership; who may be members? Rights and Liabilities of members	Class Test
Week 5	Meeting of Company: - Essentials of valid meeting	
Week 6	meetings of Shareholders: - Annual general meeting; Extra-ordinary general meeting; meetings of board of directors	Class Test
Week 7	Proxy; Voting, Notice, Agenda and Minutes of meetings	
Week 8	Directors: - Duties, Powers	
Week 9	Directors: - Liabilities, Appointment and removal of directors	
Week 10	Winding Up: - Meaning; Winding up by the Tribunal- Petition for winding up	

Week 11	Voluntary winding up; Powers and Duties of company Liquidator	
Week 12	Consequences of winding up	Class Test
Week 13	Holi Vacations	
Week 14	Depository System –meaning and importance	Assignments
Week 15	Paperless Trading – Benefits and Procedure; Need for educating investors	
Week 16	Revision and Removal of Doubts	
Week 17	Revision and Removal of Doubts	

Lesson Plan		
<b>Name of College: Govt. P.G. College for Women, Rohtak</b>		
<b>Academic Session:2023-24 Semester: Even</b>		
<b>Name of the Lecturer: Dr. Parmod Kumar</b>		
<b>Subject: Financial Management</b>		
<b>Class: M.Com 2nd Semester</b>		
<b>Week of the Month</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
Week 1	Financial Management: Introduction, Meanings and Definitions, Goals of Financial Management, Finance Functions, Interface between Finance and Other Business Functions,	
Week 2	Financial Planning: Introduction, Objectives, Benefits, Guidelines, Steps in Financial Planning, Factors Affecting Financial Planning, Estimation of Financial Requirements of a Firm, Capitalization.	

Week 3	Time Value of Money: Introduction, Rationale, Future Value, Present Value, Construction of Present Value Tables and Annuity Tables. Cost of Capital: Introduction, Meaning of Cost of Capital, Cost of Different Sources of Finance, Weighted Average Cost of Capital.	
Week 4	Leverage: Introduction, Operating Leverage, Application of operating leverage, Financial Leverage, Combined Leverage. Capital Structure: Introduction, Features of an Ideal Capital Structure, Factors Affecting Capital Structure, Theories of Capital Structure.	Class Test
Week 5	Dividend Decisions: Introduction, Traditional Approach, Dividend Relevance Model, Miller and Modigliani Model, Stability of Dividends, Forms of	
	Dividends.	
Week 6	Capital Budgeting: Introduction, Importance of Capital Budgeting, Complexities Involved in Capital Budgeting Decisions, Phases of Capital Expenditure Decisions,	Class Test
Week 7	Identification of Investment Opportunities, Rationale of Capital Budgeting Proposals, Capital Budgeting Process, Investment Evaluation,	
Week 8	Appraisal Criteria for Capital Budgeting Decision	
Week 9	Risk Analysis in Capital Budgeting : Introduction, Types and Sources of Risk in Capital Budgeting, Risk Adjusted Discount Rate, Certainty Equivalent Approach, ,	
Week 10	Probability Distribution Approach, Sensitivity Analysis, Simulation Analysis, Decision Tree Approach. Capital Rationing: Introduction, Types, Steps Involved in Capital Rationing	
Week 11	Various Approaches to Capital Rationing.	
Week 12	Corporate Restructuring: Mergers and Acquisitions, Take Overs, Amalgamation	Class Test
Week 13	Holi Vacations	

Week 14	Leverage Buy-outs, Management Buy Out Financial Restructuring: and Share Split	Assignments
Week 15	Consolidation, Cancellation of Paid Up Capital, Corporate Failures and Liquidations	
Week 16	Numerical Problems solving	
Week 17	Revision and Removal of Doubts	

Name of College: Govt. PG College for Women, Rohtak		
Academic Session: 2023-24 Semester: Even		
Subject: Principles of Management, Name of Guest Lecturer: Dr Kavita Batra		
Class: BBA 2nd Sem.		
Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Introduction - nature and process of management, Managerial roles and skills	
Week 2	Nature of managerial work-Management is an Art,Science and Profession	
Week 3	Approaches to management.	
Week 4	Contemporary issues to management	Assignment
Week 5	Planning and decision making	
Week 6	Kinds of plans,strategic planning,tactical and operational planning	
Week 7	Managerial decision making process	
Week 8	Social Audit	Test
Week 9	Goal settings,Management by Objectives	
Week 10	forms of group decision making in organizations	
Week 11	Organizing and leading elements of organization, Coordination and Leadership	Test
Week 12	Management control and system, Controlling Techniques	

Week 13	Holi Vacations	
Week 14	Controlling Techniques	Test, Viva
Week 15	Coordination	
Week 16	Leadership	
Week 17	Revision of the whole syllabus	

Name of College: Govt. PG College for Women, Rohtak		
Academic Session: 2023-24 Semester: Even		
Subject: Business Laws Name of Guest Lecturer: : Dr Kavita Batra		
Class: BBA 4TH Sem.		
Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Indian contract act, Law of contract	
Week 2	Capacity to contract, consent and free consent	
Week 3	Consideration, void agreements	
Week 4	Quasi contract and discharge of contract	
Week 5	Remedies for breach of contract	
Week 6	Contract of guarantee,	Assignment
Week 7	, Contract of indemnity	
Week 8	Contract of Bailment	
Week 9	Contract of Pledge	
Week 10	Contract of agency	
Week 11	Contract of agency, unpaid Seller	Test
Week 12	Performance of contract, Negotiable Contract	Assignment
Week 13	Holi Vacations	

Week 14	Negotiable Instrument, Information technology act	
Week 15	RTI Act-2005	Viva-Voce
Week 16	Continue RTI Act-2005	Test
Week 17	Revision of the whole syllabus	

Name of College: Govt. PG College for Women, Rohtak		
Academic Session: 2023-24. Semester: Even		
Subject: Human Rights and Values Name of Guest Lecturer: : Dr Kavita Batra		
Class: BBA 4TH Sem.		
Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Introduction to Human Rights - Basic Concept, Features,	
Week 2	Discussion about the International Perspective of Human Rights	
Week 3	Discussion about the Indian Perspective of Human Rights	
Week 4	Evolution of Human Rights - History of Human Rights Movements in the World	
Week 5	History of Human Rights Movements in India	
Week 6	Classification of Human Rights and Relevant Constitutional Provisions to Right to Life, Liberty and Dignity,	Test
Week 7	Right to Equality, Right against Exploitation, Cultural and Educational Rights, Economic Rights,	
Week 8	Character Formation towards Positive Personality- Truthfulness, Sacrifice	
Week 9	Political Rights and Social rights, Deprivation of Human Rights – Core Issues: Poverty, overpopulation, illiteracy, Problems Unsustainable Development	
Week 10	Government systems for Redressal, Judiciary, National Human Rights Commission and other Statutory Commissions, Media Advocacy, Creation of	Assignment

	Human Rights Literacy and Awareness	
Week 11	Concept of Human Values: Aim of education and value education; Evolution of value education oriented education;	
Week 12	Concept of Human values; types of values; Components of value	Test
Week 13	Holi Vacations	
Week 14	Sincerity, Self-Control, Altruism, Tolerance, Scientific Vision;	Assignment
Week 15	Value Education towards National and Global Development, National Integration and international understanding.	<b>Viva-voce</b>
Week 16	Revision of the whole syllabus	
Week 17	Revision of the whole syllabus	

Name of College: Govt. PG College for Women, Rohtak		
Academic Session: 2023-24 Semester: Even		
Subject: Company Accounts Name of Guest Lecturer: Dr Kavita Batra		
Class: BBA 2nd Sem.		
Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Issue of shares (alteration of share capital )	
Week 2	Buy back of shares, Acquisition of shares	
Week 3	Profit or loss prior to Incorporation and subsequent to Incorporation	
Week 4	Test of Profit or loss prior to Incorporation and subsequent to Incorporation	
Week 5	Issue of Debenture	
Week 6	Redemption of Debenture	Assignment
Week 7	Continue Redemption of Debenture, Underwriting	
Week 8	Final Accounts of Companies	
Week 9	Continue Final Accounts, problems	Test

Week 10	Basic Features of Accounting Standards	Assignment
Week 11	Liquidation Accounts of Companies	
Week 12	Valuation of Goodwill	
Week 13	Diwali Vacations	
Week 14	Valuation of Shares,	Test
Week 15	Valuation of Shares, Accounts of Banking Compnies	Viva-voce
Week 16	Revision of the whole syllabus	
Week 17	Revision of the whole syllabus	

### Lesson Plan

**Name of Assistant/Associate Professor : Dr Ruchi(Lecturer on Extension Basis)**

**Academic Session: 2023-24 Semester: Even Semester**

**Class and Section : B.Com (H) -4th Semester**

**Subject : Corporate Accounting**

Week	Topics	Topics of Assignment/ Tests given/ to be given to the students
1	Liquidator's Final Statement of Accounts	
	Numerical Problems:Liquidator's Remuneration on amount distributed to Equity shareholders	
2	Numerical Problems : Distribution of Surplus	
	Numerical Problems : Calls in Arrear	
3	Numerical Problems : Removing of Disparity among different types of equity shareholders	
4	Explanation of Schedules given in P&L A/C	
	Numerical Problems : List of Contributories	
5	Explanation of Schedules given in P&L A/C	
	Numerical Problems : Rebate on Bill Discounted	
6	Numerical Problems : Non Performing Assets	Test
7	Final Account of Banking Companies : Performa of Balance Sheet	
	Explanation of Schedules given in Balance Sheet	
8	Electricity Companies: Introduction	
	Preparation of Final Accounts under Electricity Supply Act, 1948	
	Numerical Problems : Preparation of Final Accounts of Electricity Companies	Test
9	Double Account System; An Overview	
	Meaning of Double Account System	
	The Differences between single account system and double account system	
10	Advantages and limitations of double account system	
	Usage of double account system in public utility concerns such as water, gas, electricity	
11	Underwriting of Shares and Debentures:Overview	
	Underwriting of Shares and Debentures:Numerical Problems	Test
12	Amalgamation:Introduction	
	Important Terms	

<b>13</b>	Methods of Purchase Consideration	
	Accounting treatment in the books of Transferor	
<b>14</b>	Accounting treatment in the books of Transferee	
	Accounting treatment in the books of Transferee : The Pooling of Interest Method	
<b>15</b>	Accounting treatment in the books of Transferee : The Purchasing Method	
	Numerical Problems : Effect of Market value on Purchase Consideration	
	Numerical Problems : Fraction Shares	
<b>16</b>	Introduction & Ways of Internal Reconstruction	
	Numerical Problems	Viva of Whole Syllabus

### Lesson Plan

**Name of Assistant/Associate Professor : Dr Ruchi(Lecturer on Extension Basis)**

**Academic Session: 2023-24 Semester: Even Semester**

**Class and Section : B.Com (P) -6th Semester Section A,C**

**Subject : Cost Accounting**

<b>Week</b>	<b>Topics</b>	<b>Topics of Assignment/ Tests given/ to be given to the students</b>
<b>1</b>	Meaning of Budget & Budgetary Control	
	Zero Base Budgeting	
<b>2</b>	Performance Budgeting	
	Responsibility Accounting	Test
<b>3</b>	Concept of Marginal Costing	
	Calculation of Marginal Cost	
	Marginal Costing as a tool for Decision Making	
<b>4</b>	Concept of Cost Volume Profit Analysis	
	Break Even Analysis	
<b>5</b>	Margin of Safety and Practice	Test
<b>6</b>	Standard Costing	
	Material Variance Analysis	
<b>7</b>	Labour Variance Analysis	
<b>8</b>	Concept of process costing	
	Preparation of process cost accounts	
<b>9</b>	Treatment of normal wastage	
	Treatment of Abnormal Wastage	
<b>10</b>	Treatment of Abnormal Effectiveness	
	Process having opening and closing stock	
<b>11</b>	Concept of Joint Product & By Product	
	Method of Apportionment of Joint cost	
<b>12</b>	Numerical Problems	Test
<b>13</b>	Contract Costing: Concept, Specimen of Contract Account	
	Determination of P/L on Contract	
<b>14</b>	Concept of Incomplete Contracts	
<b>15</b>	Escalation Clause & Practice	
	Cost Plus Contract	
<b>16</b>	Job Costing & Practice	

	Batch Costing & Practice	Viva of Whole Syllabus
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### Lesson Plan

**Name of Assistant/Associate Professor : Dr Ruchi(Lecturer on Extension Basis)**

**Academic Session: 2023-24 Semester: Even Semester**

**Class and Section : B.Com (H) -6th Semester**

**Subject : Project Planning and Management**

<b>Week</b>	<b>Topics</b>	<b>Topics of Assignment/ Tests given/ to be given to the students</b>
<b>1</b>	Project Planning: Planning, strategy and Capital Allocation	
	Generation and Screening of Project Ideas	
<b>2</b>	Market analysis	
<b>3</b>	Demand analysis	
<b>4</b>	Technical Analysis, financial Estimates	
<b>5</b>	Projections, Time Value Money,	
<b>6</b>	Investment Criteria	Test
<b>7</b>	Project Cash Flows, The Cost of Capital, Stand Alone Risk analysis,	
<b>8</b>	Risk analysis- Market and Firm Risk, Special Decision Situations,	
<b>9</b>	Social Cost Benefit analysis, Multiple Projects and Constraints	Test
<b>10</b>	Valuation of Real Options, Judgemental, Behavioural considerations.	
<b>11</b>	Strategic and Organisational considerations.	
<b>12</b>	Financing: Financing of Projects, financing Infrastructure Projects,	
<b>13</b>	Venture capital and Private Equity	Test
<b>14</b>	Implementation: Project Management,	
<b>15</b>	Network Techniques for Project Management	
<b>16</b>	Project Review and Administrative Aspects	Viva of Whole Syllabus

Government PG College for Women, Rohtak		
Lesson Plan Session 2023-2024 Even Sem		
Teacher's Name: Ms. Manju		
Subject: International Marketing		
Class: M.Com 4th Semester		
Week of the Month	Topics to be Covered	Assignments, Presentation and Test etc.
1	Introduction to International Marketing: Nature and significance; Complexities in international marketing	
2	Transition from domestic to transnational marketing, International market orientation – EPRG framework,	
3	International market entry strategies, External environment -geographical	
4	International Marketing Environment: Internal environment, political and legal environment, demographic, economic, socio-cultural	Presentations
5	Foreign Market Selection: Global market segmentation, Impact of environment on international marketing decisions	Presentations
6	International Marketing Planning, Organising and Control, Selection of foreign markets; international positioning	Class Test of Unit 1
7	Issues in international marketing planning; International marketing information system, Information technology and international marketing;	Presentations

8	Organising and controlling International marketing operations, Emerging Issues and developments in international marketing, Ethical and social issues	Presentations
9	International marketing of services, Impact of globalisation,	Presentations
10	Product Decisions: Product planning for global markets; Standardization vs. product adaptation	Presentations
11	New product development; Management of international brands	Presentations
12	Packaging and labeling; Provision of sales related services	Presentations
13	Holi Vacations	
14	Pricing Decisions: Environmental influences on pricing decisions, international pricing policies and strategies	Class test of Unit 2
15	Promotion Decisions: Complexities and issues	Discussion on topics of assignment
16	International advertising, personal selling	
17	Sales Promotion and public relations	

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Government PG College for Women, Rohtak

Lesson Plan Session 2023-2024 Even Sem

Teacher's Name: Ms. Manju

Subject: Human Resource Management

Class: B.Com(H) 6<sup>th</sup> Sem.

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Human resource management: Meaning, definition, importance, objectives and scope	
Week 2	Functions of HRM , Human resource planning	
Week 3	Recruitment- Meaning, steps in recruitment techniques, recruitment policy, sources and methods.	
Week 4	Selection- meaning, essentials of selection procedure, stages in selection procedure.	
Week 5	Training: Concept, need and importance of training, methods of training	Oral test
Week 6	Management development- Meaning and nature of M.D, Methods of management development and evaluation of management development.	
Week 7	Wage/salary- Meaning, objectives and theories of wage, methods of wage payment	
Week 8	Wages and salary determination	
Week 9	Special incentive profit sharing and workers co-partnership. Wage incentives: Concept, need and importance of incentives, types of incentives, plans essentials of ideal incentive system.	
Week 10	Human Resource Development: Concept, significance, features needs and scope of HRD	

Week 11	Techniques of HRD, functions of HRD manager and attributes of our HRD manager	class Test
Week 12	Industrial Relationship: Concept, importance and objectives of industrial relations	
Week 13	Holi Vacations	
Week 14	Participants of industrial relationship, requirements of good industrial relations programme	
Week 15	Industrial unrest- Meaning, forms and causes of industrial unrest, impact of industrial unrest on economy	
Week 16	Machinery for prevention and settlement of industrial unrest in India and agencies for reconciliation of industrial unrest.	
Week 17	Revision	

Name of College: Govt. P.G. College for Women, Rohtak		
Academic Session:2023-24      Semester: Even		
Name of the Lecturer: Ms Manju		
Subject: Marketing Management		
Class: B.Com(Pass) Sec.(B) 4th Semester		
Week of the Month	Topics to be Covered	Assignments, Presentation and Test etc.
Week 1	Introduction of Market, Marketing and Marketing Management, Different Marketing Approach , Marketing Functions	
Week 2	Importance of Marketing, Role of Marketing in the Economic Development, Difference between Marketing and Selling	

Week 3	Major problems of Marketing in India, Objectives of Marketing, Marketing Concepts: Traditional and Modern, Difference between Old and New Concept	
Week 4	Market Segmentation: concept, importance, objectives, Methods of Market Segmentation, Market Segmentation Strategies, Product Differentiation and Market Segmentation	
Week 5	Consumer Behaviour: meaning, nature, significance, Difficulties in understanding Consumer Behaviour	Class Test
Week 6	Scope of Consumer Behaviour, Product Planning: meaning, features, objectives and elements, Product Development: meaning, nature, elements, Scope of Product Planning and Development	Presentations
Week 7	Development of New Product: meaning, Stages of New Product Development, Failure of New Product	Presentations
Week 8	New product development process	
Week 9	Product Life Cycle: meaning, features, Stages of Product Life Cycle, Different Shapes of Product Life Cycle Marketing Strategies during the Product Life Cycle	Presentations
Week 10	Branding: meaning, importance, limitations, Difference between Brand and Trademark, Brand Policies and Strategies, Brand Testing	Class Test
Week 11	Product Pricing: meaning, importance, Pricing objectives, Pricing Policies, Factors affecting Pricing Policies	Discussion on topics of assignment
Week 12	Procedure of Price Determination, Pricing Methods, Discount Policies, Non- price Competition	Presentations
Week 13	Holi Vacations	

Week 14	Advertising: meaning, objectives, Functions of Advertising, Advantages and Disadvantages of Advertising, Principles of an effective Advertising	Presentations
Week 15	Advertising Media: Press Advertising, Outdoor Advertising, Mail Advertising, Entertainment Advertising and Promotional Advertising, Factors affecting the selection of Advertising Media	
Week 16	Evaluation of Advertising Effectiveness: objectives, Methods of Evaluating Advertising Effectiveness, Difficulties in Evaluating Advertising Effectiveness	Presentation
Week 17	Sales Promotion: meaning, objectives, Tools of Sales promotion, Functions of Sales Promotion, Publicity and Public Relations	

Name of College: Govt. P.G. College for Women, Rohtak		
Academic Session:2023-24 Semester: Even		
Name of the Lecturer: Ms. Manju		
Subject: Business Management		
Class: B.Com(H) 2 <sup>nd</sup> Sem.		
Week of the Month	Topics to be Covered	Assignments, Presentation and Test etc.
Week 1	Development of management thought: Classical, neo-classical	
Week 2	Development of management thought: System, contingency and contemporary approach	
Week 3	Process of managing: Planning: corporate strategy environmental analysis and diagnosis	
Week 4	Formulation of strategic plan, growth strategy- internal and external	Presentations
Week 5	Decision Making: Concept, Process, Rationality	

	and techniques	
Week 6	Information technology and decision making, Decision support system	Class Test
Week 7	Organising and Staffing: Contemporary organizational formats- Project matrix and Networking	Presentations
Week 8	Management in Action: Motivation concept and theories	
Week 9	Maslow, Herzberg, McGregor and Ouchi	
Week 10	Communication- Formal and informal networks	
Week 11	Barriers and principles, Control: Concept and process	
Week 12	Effective control system, Modern control techniques	
Week 13	Holi Vacations	
Week 14	Stakeholder approaches, accounting measures, economic and financial measures	
Week 15	Behavioral Aspect of Management Control	Presentations
Week 16	Revision	
Week 17	Viva-Voce	

### Lesson Plan

Name of College: **Govt. PG College for Women, Rohtak**

Academic Session: **2023-2024**

Semester: **EVEN**

Subject: **Marketing Management**

Name of Lecturer: **Sachin Sapra**

Class: **B.Com. (P) 4<sup>th</sup> Sem.** Code: 4.05

Sec.: -**A,C**

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Introduction: - Nature, Scope, Importance of marketing	
Week 2	Marketing concepts- Traditional and Modern	
Week 3	Market Segmentation: - Concept, Importance and basis of market segmentation	
Week 4	Continue	
Week 5	Consumer Behavior: - Nature, Scope, Importance,	
Week 6	Factors affecting buyer behavior	
Week 7	Product Planning and Development: - Importance and scope of product Planning in marketing; Stages of New product development	
Week 8	Product Lifecycle: - Stages of Product life cycle; factors affecting product life cycle	
Week 9	Branding and Trademark: - Difference between brand and trademark; advantages and criticism of branding; types of branding	
Week 10	Brand Policies and Strategies.	
Week 11	Pricing: - Meaning; Importance, Factors affecting pricing	
Week 12	Vacations	
Week 13	Pricing objectives, Types of price policy and pricing strategies.	
Week 14	Advertising: - Concept; Importance and criticism of advertising; Media of advertising; Evaluating advertising effectiveness	
Week 15	Continue	
Week 16	Sales Promotion: - Importance, Methods, Functions and Publicity.	
Week 17	Revision	

### Lesson Plan

Name of College: **Govt. PG College for Women, Rohtak**

Academic Session: **2023-2024**

Semester: **EVEN**

Subject: **Corporate Law**

Name of Lecturer: **Sachin Sapra**

Class: **B.Com. (P) 4<sup>th</sup> Sem.** Code: 4.04

Sec.: **-A,C**

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Depository System- Meaning and importance, Paperless Trading.	
Week 2	Shares: - share and stock; Allotment of Shares Share certificate and share warrant;	
Week 3	Transfer and Transmission of shares; Calls and Forfeiture of shares. Surrender of shares.	
Week 4	Share capital: - Meaning and forms of capital; Alteration of share capital; Reduction of share capital; Further issue of share capital; Rights of pre-emption of shares.	
Week 5	Continue	
Week 6	Shareholders and Members: - Difference between Shareholders and members; Modes of acquiring membership;	
Week 7	Termination of membership; who may be members? Rights and Liabilities of members.	
Week 8	Meeting of Company: - Essentials of valid meeting; meetings of Shareholders: - Statutory meeting.	
Week 9	Annual general; meeting; Extra-ordinary general meeting; meetings of board of directors; Proxy; Voting, Notice, Agenda and Minutes of meetings	
Week 10	Continue	
Week 11	Directors: - Duties, Powers, Liabilities,	
Week 12	Vacations	
Week 13	Appointment and removal of directors	
Week 14	Winding Up: - Meaning; Compulsory winding up; Voluntary winding up; Winding up	
Week 15	Revision	
Week 16	Revision	
Week 17	Continue	

**LESSON PLAN**

Name of College: Govt. P.G. College for Women, Rohtak

Academic Session: 2023-24 Semester: Even

Name of Lecturer: Dr. Preeti

Subject: Business Regulatory Framework– II

Class: B.Com 4th Sem. (Pass Course) Sec. B

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Indian Partnership Act	
Week 2	Indian Partnership Act Continue	
Week 3	Indian Partnership Act Continue	Oral Test
Week 4	Negotiable Instruments Act	Revision of Unit-I
Week 5	Negotiable Instruments Act Continue	
Week 6	Negotiable Instruments Act Continue	
Week 7	Negotiable Instruments Act Continue	
Week 8	Sales of Goods Act	Assignment of Unit-I & II
Week 9	Sales of Goods Act Continue	Written Test of Unit- II
Week 10	Sales of Goods Act Continue	
Week 11	Sales of Goods Act Revision	
Week 12	RTI Act : Features, Rights and Importance	
Week 13	Holi Vacations	Assignment of Unit- III
Week 14	RTI Act Continue	
Week 15	RTI Act Continue	

Week 16	Revision of the whole syllabus	Viva Voce
Week 17	Revision of the whole syllabus	Viva Voce

LESSON PLAN		
Name of College: Govt. P.G. College for Women, Rohtak		
Academic Session: 2023-24      Semester: Even		
Name of Lecturer: Dr. Preeti		
Subject: Cost Accounting– II		
Class: B.Com 6th Sem. (Pass Course) Sec. B		
Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Marginal Costing & Profit Planning	
Week 2	Marginal Costing & Profit Planning Continue	
Week 3	Break even and Profit analysis	
Week 4	Process costing	Revision of Unit-IV
Week 5	Process costing Continue	

Week 6	Joint Product & By product	
Week 7	Contract Costing	
Week 8	Contract Costing Continue	Assignment
Week 9	Contract Costing Continue	Written Test of Unit- I
Week 10	Job Costing and Batch Costing	
Week 11	Budgetary Control	
Week 12	Budgetary Control	
Week 13	Holi Vacations	Assignment of Unit- II
Week 14	Responsibility accounting	Written Test of Unit- I
Week 15	Standard Costing	
Week 16	Standard Costing Continue	
Week 17	Revision of the whole syllabus	Viva Voce

<b>LESSON PLAN</b>	
Name of College: Govt. P.G. College for Women, Rohtak	
Academic Session: 2023-24	Semester: Even
Name of Lecturer: Dr. Preeti	

Subject: Business Environment		
Class: B.Com 2nd Sem. (Pass Course) Sec. A		
Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Business Environment: Concept, Component and Importance	
Week 2	Business Environment: Concept, Component and Importance Continue	
Week 3	SWOT Analysis	Oral Test
Week 4	Economic trends: Income, Savings and Investment	Revision of Unit-I
Week 5	Economic trends: Income, Savings and Investment Continue	
Week 6	Economic trends: Income, Savings and Investment Continue	
Week 7	Trade and Balance of Payment	
Week 8	Unemployment, Regional Imbalances	Assignment of Unit-I & II
Week 9	Inflation	Written Test of Unit- II
Week 10	Parallel Economy	
Week 11	Industrial Sickness	

Week 12	Monetary and Fiscal Policy	
Week 13	Holi Vacations	Assignment of Unit- III
Week 14	Industrial Policy	Written Test of Unit- II & III
Week 15	Privatization	
Week 16	Revision of the whole syllabus	Viva Voce
Week 17	Revision of the whole syllabus	Viva Voce

## LESSON PLAN

Name of College: Govt. P.G. College for Women, Rohtak

Academic Session: 2023-24 Semester: Even

Name of Lecturer: Dr. Preeti

Subject: Personal Selling & Market Research

Class: B.Com 2nd Sem. (Vocational)

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Nature and Importance of Personal Selling	

Week 2	Door to door selling situations where personal selling is more effective than advertising vs. cost of personal selling	
Week 3	AIDA model of selling, types of selling situations, types of sales persons	Oral Test
Week 4	Discussion of Case Studies	Revision of Unit-I
Week 5	Buying motives, Types of market consumer and Industrial markets	
Week 6	Process of effective selling	
Week 7	Discussion of Case Studies	
Week 8	Guidelines for Project Report	
Week 9	Market Research	Written Test of Unit- II
Week 10	Market Research Continue	
Week 11	Market Research in Internet Age	
Week 12	Emerging Applications of Market Research, New trends in Market research in India	
Week 13	Holi Vacations	Assignment of Unit- III
Week 14	Discussion of case studies	
Week 15	Revision of the whole syllabus	Presentations

Week 16	Revision of the whole syllabus	Viva Voce
Week 17	Revision of the whole syllabus	Viva Voce

## LESSON PLAN

Name of College: <b>Govt. PG College for Women, Rohtak</b>		
Academic Session: <b>2023-24</b> Semester: <b>Even</b>		
Subject: <b>Business Regulatory Framework</b> Name of Lecturers: <b>PAYAL SAINI</b>		
Class: B.Com <b>4th Sem. Pass course</b> Sec.A		
Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Indian Partnership Act	
Week 2	Indian Partnership Act	
Week 3	Indian Partnership Act	Test
Week 4	Indian Partnership Act Negotiable Instruments Act	
Week 5	Negotiable Instruments Act	
Week 6	Negotiable Instruments Act	
Week 7	Negotiable Instruments Act	
Week 8	Negotiable Instruments Act	
Week 9	Sales of Goods Act:	Test
Week 10	Sales of Goods Act:	
Week 11	Sales of Goods Act:	Assignment
Week 12	Sales of Goods Act: RTI Act	
Week 13	HOLI VACATIONS	

Week 14	RTI Act : features, rights and importance	
Week 15	RTI Act : features, rights and importance	
Week 16	Revision of the whole syllabus	
Week 17	Revision of the whole syllabus	

## LESSON PLAN

Name of College: <b>Govt. PG College for Women, Rohtak</b>		
Academic Session: <b>2023-24</b> Semester: <b>Even</b>		
Subject: <b>Financial Accounting</b> Name of Lecturers: <b>PAYAL SAINI</b>		
Class: <b>B.Com 2nd Sem. Pass course Sec. C</b>		
Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Hire Purchase System	
Week 2	Hire Purchase System Installment Payment Systems	
Week 3	Installment Payment Systems	Test
Week 4	Branch Accounts (including foreign branch)	
Week 5	Branch Accounts (including foreign branch) Departmental Accounts.	
Week 6	Departmental Accounts Amalgamation and sale of partnership firms	
Week 7	Amalgamation and sale of partnership firms	
Week 8	Amalgamation and sale of partnership firms	
Week 9	Dissolution of Partnership Firm	Test
Week 10	Dissolution of Partnership Firm	
Week 11	Gradual Realisation and Piecemeal Distribution. Joint-Venture Account	Assignment
Week 12	Joint-Venture Account .	

Week 13	HOLI VACATIONS	
Week 14	Royalty Account.	
Week 15	Royalty Account.	
Week 16	Revision of the whole syllabus	
Week 17	Revision of the whole syllabus	

## LESSON PLAN

Name of College: <b>Govt. PG College for Women, Rohtak</b>	
Academic Session: <b>2023-24</b> Semester: <b>Even</b>	
Subject: <b>CORPORATE ACCOUNTING</b> Name of Lecturers: <b>PAYAL SAINI</b>	
Class: B.Com 4 <sup>TH</sup> Sem secB	
<b>Week of Month</b>	<b>Topics/Chapterstobecovered</b>
Week1	InternalReconstruction
Week2	InternalReconstruction
Week3	ExternalReconstructioninthenatureofmergerandpurchase
Week4	ExternalReconstructioninthenatureofmergerandpurchase
Week5	Continue
Week6	Liquidatonofacompany
Week7	Liquidatonofacompany
Week8	Liquidatonofacompany
Week9	Financialreportingforfinancialinstitutions
Week10	Financialreportingforfinancialinstitutions
Week11	FinalAccountsofBankingcompany
Week12	FinalAccountsofBankingcompany
Week13	Holivacations
Week14	AccountsofHoldingCompanies
Week15	Continue
Week16	Continue
Week17	Revision

## LESSON PLAN

Name of College: <b>Govt. PG College for Women, Rohtak</b>
Academic Session: <b>2023-24</b> Semester: <b>Even</b>
Subject: <b>Business ethics</b> Name of Lecturers: <b>PAYAL SAINI</b>
Class: B.Com(hons) 4 <sup>th</sup> sem

<b>Weeko f Month</b>	<b>Topics/Chapterstobecovered</b>
Week1	Discrimination
Week2	Corruption
Week3	Corporate scandals
Week4	Insider trading
Week5	Whistle blowing
Week6	CSR
Week7	Corporate philanthropy
Week8	Corporate code of ethics
Week9	Corporate code of ethics
Week10	Democracy
Week11	Globalization
Week12	Approaches to moral reasoning
Week13	Holivacations
Week14	Liberty,equality,justice
Week15	Business ethics
Week16	Idea of good society,rights and recognition
Week17	Revision

<b>Government PG College for Women, Rohtak</b>			
<b>Lesson Plan: 2023-24</b>			
<b>Teacher's Name: Ms. Sushila Subject: Business Management</b>			
<b>Class: B.Com. 2nd Semester (A) &amp; B.Com (Voc)</b>			
<b>Sr. No.</b>	<b>Time Period</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
1	Week 1	Staffing: Introduction, meaning, Scope or Process of Staffing, Job Analysis, Importance of Job Analysis	
2	Week 2	Recruitment : meaning and sources, Evaluation of recruitment sources	
3	Week 3	Selection : meaning and concept, Selection tests, Selection process	
4	Week 4	Training: meaning and nature, Advantages of Training, Difference between Training and Development, Training methods: On-the-Job training and Off-the-Job training	
5	Week 5	Motivation: meaning, nature, Importance of Motivation, Motivation process, Theories of Motivation: Maslow's Need Hierarchy Theory, Herzberg's Motivation- Hygiene Theory	Class Test
6	Week 6	Theories of Motivation: McGregor's X and Y Theory, Ouchi's Z Theory, Motivational Techniques: Positive and Negative Motivation	Presentations
7	Week 7	Leadership: meaning, nature, Qualities of a good Leader, Theories of Leadership: The Trait Theory, The Situation Theory, The Follower's Theory	Presentations
8	Week 8	Theories of Leadership: The Follower's Theory, Behavioural Theory and Other Theories, Leadership Styles: Motivational, Power Based	Class Test
9	Week 9	Leadership Styles: Result Based Leadership Style Communication: meaning, Process, Communication Network	Presentations
10	Week 10	Communication media, Barriers to Effective Communication, Importance of effective communication	Presentations
11	Week 11	Controlling: meaning and nature, Objectives and Importance of Controlling, Controlling Process, Relationship between Planning and Controlling	Class Test
12	Week 12	Control Techniques: traditional and modern	Presentations
13	Week 13	Holi Vacations	
14	Week 14	Programme Evaluation and Review Technique and Critical Path Method	
15	Week 15	Management of Change: meaning and nature, Causes of change, Types of Changes	Discussion on assignment
16	Week 16	Management of Change: Process of Planned Change, Revision and discussion on problems	Presentations

17	Week 17	Revision	Viva-Voce
<b>Government PG College for Women, Rohtak</b>			
<b>Lesson Plan: 2022-24</b>			
<b>Teacher's Name: Ms. Sushila</b>			
<b>Subject: Organisation Behaviour</b>			
<b>Class: M.Com. 2nd Sem</b>			
<b>Sr. No.</b>	<b>Time Period</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
1	Week 1	Organization Behaviour- Introduction	
2	Week 2	Learning- Introduction and Concept	
3	Week 3	Learning- Principles and Theories	
4	Week 4	Meaning and definition of Attitude	
5	Week 5	Attitude- Source and formation	Class Test
6	Week 6	Personality- Meaning and determinants	Presentations
7	Week 7	Types and theories of Personality	Presentations
8	Week 8	Perception- Meaning and definition	
9	Week 9	Nature and process of Perception	Class Test
10	Week 10	Group and Group dynamics	Presentations
11	Week 11	Group discussion on perception	
12	Week 12	Team building and development	Class Test
13	Week 13	Holi Vacations	Presentations
14	Week 14	Organizational conflicts: meaning, sources and types	Discussion on topics of assignment
15	Week 15	Organizational change	Presentations
16	Week 16	Organizational Development: Process and Interventions	
17	Week 17	Revision	Viva-Voce

<b>Government PG College for Women, Rohtak</b>			
<b>Lesson Plan: 2023-24</b>			
<b>Teacher's Name: Ms. Sushila</b>			
<b>Subject: Auditing</b>			
<b>Class: B.Com (Hons) 4<sup>th</sup> Sem</b>			
<b>Sr. No.</b>	<b>Time Period</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
1	Week 1	Introduction of Auditing	
2	Week 2	Objects, importance and limitations of Auditing	

3	Week 3	Classification of Audit	Group Discussion
4	Week 4	Audit Planning	
5	Week 5	Internal control, Internal Check and Internal Audit	Group Discussion
6	Week 6	Routine checking and Vouching	
7	Week 7	Verification of Assets and Liabilities	Written Test
8	Week 8	Valuation of Assets	
9	Week 9	Appointment, power, duties and liabilities of an Auditor	Viva-Voce
10	Week 10	Audit Committee	
11	Week 11	Depreciation, Provisions and Reserves	Written Test
12	Week 12	Audit Report	
13	Week 13	Holi Vacations	
14	Week 14	Investigation	Assignments
15	Week 15	Cost Audit and Tax Audit	Written Test
16	Week 16	Management Audit	
17	Week 17	Revision	Viva-Voce

## Lesson Plan

Name of College: Govt. PG College for Women, Rohtak

Academic Session: 2023-24 Semester: EVEN

Name of Teacher: Harsh

Subject: Business Environment- (2.05)

Class: B.Com. 2nd Sem. Pass Sec. B & C

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Introduction to syllabus, Meaning and Characteristics of Business Environment	
Week 2	Components of Business Environment	Oral test
Week 3	Current Indian Business Environment	
Week 4	Analysis and importance of Business Environment	
Week 5	SWOT Analysis, ETOP Analysis	
Week 6	Trends in National Income, Trends in Saving and Investment	Test of Ist Unit
Week 7	trends in saving and investment, trends in Industrial Development	
Week 8	Balance of Trade and BOP, unemployment Problem in India.	
Week 9	Regional Imbalances, Parallel Economy	
Week 10	Inflation	
Week 11	Industrial Sickness	Test of 2nd Unit
Week 12	Monetary Policy,	Assignment given
Week 13	Holi – Break	
Week 14	Fiscal Policy	Oral test of 3rd unit
Week 15	Industrial Policy	
Week 16	Privatisation in India	
Week 17	Revision	Viva-Voce

**Government PG College for Women, Rohtak**

**Lesson Plan for 23-24 Even Sem**

**Teacher's Name: Ms. Harsh & Preeti Bansal (Sharing)**

**Subject: Elements of Banking 16COMF3 (Foundation elective)**

**Class: M.A. Economics 2nd Sem**

<b>Week</b>	<b>Topics to be Covered</b>	<b>Assignments, Presentation and Test etc.</b>
1	Introduction to Banking: Meaning, Concept, History of Banking, Business of Banking,	
2	Functions of Banking, Recent Developments in Banking Industry: Corporate Banking,	Oral Test
3	Banker Customer Relationship,	
4	Retail Banking, International Banking, Rural Banking. Non-Banking Financial Intermediaries	
5.	Structure of Commercial Banking in India, Structure of Indian Banking,	Presentations
6.	Commercial Banks	
7	Reserve Bank of India	
8.	Public Sector Banks, Private Sector Banks,	Test
9.	Foreign Banks, Indian Banks vs. Foreign Banks.	
10	Structure of Co-operative Banks in India: Co-operative Banks: Meaning, Definitions,	Presentations
11	Commercial vs. Co-operative Banks, Regional Rural Banks	
12	Structure of Apex Banking Institution in India: Meaning. Definitions,	Oral Test
13.	Holi Break	
14	National Bank for Agriculture and Rural Development (NABARD),	Assignment given
15	Small Industries Development Bank of India (SIDBI),	
16	National Housing Bank (NHB), Export Import Bank of India (EXIM Bank)	

17	Revision	
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### Lesson Plan

Name of College: Govt. PG College for Women, Rohtak

Academic Session: 2023-24 Semester Even

Name of Teacher: Harsh

Subject: Management Accounting (16MCO22C1)

Class M.com 2<sup>nd</sup> sem.

Week	Topics to be Covered	Assignments, Presentation and Test etc.
1.	Introduction to syllabus, Concept and introduction, nature and scope	Oral test
2.	Financial accounting, Cost A/Cing, Management A/Cing	
3.	Techniques, scope, Utility, Essentials and limitation of Management A/Cing	Presentation
4.	Management accountant: Position, role & responsibility, Budgetary Control	
5.	Classification of Budget, Different types of Budget	Test Unit – 1
6.	Performance budget, Zero Base budgeting	
7.	Lease Financing	
8.	Lease financing continue	Problem Discussion
9.	Value Chain Analysis	Test unit-2
10.	ABC Costing	
11.	Quality Costing,	

12.	Target and life cycle Costing	Oral test
13.	Holi- Break	
14.	Decision involving alternate choices	Practical problems
15.	Continue Decision involving alternate choices	
16.	Responsibility Accounting, Reporting to management	
17.	Revision and Problem Discussion	Viva –voce

Name of College: Govt. College for Women, Rohtak

Academic Session: 2023 - 2024 Semester: EVEN

Subject: FINANCIAL ACCOUNTING      Name of Extension Lecturer: DEEPAK KUMAR CHACHDA

Class: B.Com. 2<sup>nd</sup> Sem ,Sec A and B.Com 2<sup>nd</sup> Sem Vocational

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Departmental Accounts.	
Week 2	Departmental Accounts.	
Week 3	REVISION, PROBLEM	
Week 4	Amalgamation and sale of partnership firms	
Week 5	Branch Accounts (including foreign branch)	
Week 6	Branch Accounts (including foreign branch)	TEST
Week 7	Joint-Venture Account	
Week 8	Joint-Venture Account	
Week 9	Royalty Account.	
Week 10	Royalty Account AND Hire Purchase System and Installment Payment Systems	
Week 11	Hire Purchase System and Installment Payment Systems	TEST
Week 12	Hire Purchase System and Installment Payment Systems	
Week 13	VACATION	
Week 14	Dissolution of Partnership Firm	Assignment
Week 15	Dissolution of Partnership Firm	
Week 16	Dissolution of Partnership Firm	Assignment
Week 17	REVISION, PROBLEM	

Name of College: Govt. College for Women, Rohtak

Academic Session: 2023 - 2024 Semester: EVEN

Subject: Financial Institutions & Markets Name of Extension Lecturer: DEEPAK KUMAR CHACHDA

Class: B.Com. 4th Sem (H)

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	An Overview of Indian Financial Institutions	
Week 2	Credit	
Week 3	REVISION, PROBLEM	
Week 4	NABARD	
Week 5	NABARD	
Week 6	REVISION, PROBLEM	TEST
Week 7	EXIM	
Week 8	EXIM	
Week 9	REVISION, PROBLEM	
Week 10	Venture capital	
Week 11	Venture capital AND Primary Market	
Week 12	Primary Market and Secondary Market	
Week 13	VACATION	
Week 14	Merchant Banking And Lease financing	
Week 15	Lease financing and Money Market	
Week 16	RBI	
Week 17	REVISION, PROBLEM	

Name of College: Govt. College for Women, Rohtak

Academic Session: 2023 - 2024 Semester: EVEN

Subject: Accounting for Managers Name of Extension Lecturer: DEEPAK KUMAR CHACHDA

Class: B.Com 6thSem (H)

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Management Accounting	
Week 2	Management Accounting	
Week 3	Financial Statements	
Week 4	Analysis of Financial Statements	
Week 5	Ratio analysis	
Week 6	Ratio analysis	TEST
Week 7	Fund Flow Statement	
Week 8	Cash Flow Statement	
Week 9	Accounting for Price level Changes	
Week 10	Marginal Costing and Break Even Analysis	
Week 11	Marginal Costing and Break Even Analysis	
Week 12	Cost-Profit-Volume Analysis	
Week 13	VACATION	
Week 14	Capital Budgeting	
Week 15	Capital Budgeting	
Week 16	Standard Costing	
Week 17	Standard Costing	

Name of College: Govt. College for Women, Rohtak

Academic Session: 2023 - 2024 Semester: EVEN

Subject: Auditing

Name of Extension Lecturer: DEEPAK KUMAR CHACHDA

Class: B.Com. 6th Sem Sec C

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Auditing	
Week 2	Auditing	
Week 3	Audit Process	
Week 4	Audit Process	
Week 5	Audit Procedure	
Week 6	Audit Procedure	TEST
Week 7	Audit Procedure	
Week 8	Audit of Public Company	
Week 9	Audit of Public Company	
Week 10	audit programmer	
Week 11	valuation of assets & liabilities	
Week 12	VACATION	
Week 13	Audit of depreciation and reserves	
Week 14	Audit Report and Investigation	
Week 15	Audit Report and Investigation	
Week 16	Audit Report and Investigation	
Week 17	REVISION, PROBLEM	

Name of College: Govt. P.G. College for Women, Rohtak		
Academic Session: 2023 - 2024 Semester: EVEN		
Teacher Name: Preeti Bansal		
Subject: Corporate Tax planning and Management		
Class: M.Com. 4th sem		
Week of Month	Topics/Chapters to be covered	Assignment/ Tests to be given to the students
Week 1	Meaning of Corporate tax, Tax evasion, Tax avoidance, Tax planning,	
Week 2	Tax mgt.,Need for tax planning, Precautions ,Limitation	
Week 3	Tax planning with reference to location, nature	Written test of unit 1
Week 4	Different forms of organization of new business.. Tax Planning	
Week 5	Tax provisions relating to free trade zones, infrastructure sector, backward areas,	
Week 6	Tax issues relating to amalgamations	assignment from 2nd Unit
Week 7	Tax Planning relating to capital structure decisions	
Week 8	Holi Vacations	
Week 9	Dividend policy, Inter corporate Dividends, Bonus share & debentures	
Week 10	Tax planning in respect of own or lease.	Written Test of unit 3
Week 11	Tax planning in respect of sale of assets used for scientific research, Make or buy decisions, Repair replace	
Week 12	Repair replace, Renewal or renovation of an asset, Shut down/continue	
Week 13	Holi Vacations	Assignment from 3rd Unit
Week 14	Tax planning regarding Managerial Remuneration.	
Week 15	Renewal or renovation of an asset, Shut down/continue	
	Presentation and Discussion	
Week 16		
Week 17	Tax planning in respect of selling in domestic or foreign market Tax planning in respect of Tax Incentives to Exporter	Viva
Week 18	Revision	

Subject: Auditing

Class & Session: B.Com. (P) 6th Sem. (A & D) 2023-24

(Even) Teacher: Preeti Bansal

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Introduction to the subject, meaning and objectives of auditing	
Week 2	Importance, limitations and Types of audit	
Week 3	Types of Audit, Audit Process and Program	
Week 4	Internal Control and Internal Check	
Week 5	Internal Control and Internal Check, Internal Audit	Class Test
Week 6	Routine Checking	
Week 7	Verification of Assets and Liabilities	
Week 8	Valuation of Assets	
Week 9	Appointment of Auditor Power, Duties and Liabilities of Auditor	Class Test
Week 10	Depreciation, Provisions and Reserves	
Week 11	Vouching	
Week 12	Depreciation, Provisions and Reserves	Class Test
Week 13	Holi Vacations	
Week 14	Investigation	
Week 15	Audit Report	
Week 16	Revision and Presentations	
Week 17	Revision and Presentations	
Week 18	Viva	

**Teacher Name: Dr Pushp Deep Dagar**

**Paper: Business Management**

**Paper Code: BCH-2.04**

**Class: B. Com (Hons.)-IIInd Sem**

**Month – Jan 2024**

Week-1

Development of Management Thought: Classical, Neo-classical.

Week-2

Development of Management Thought: Systems, contingency.

Week -3

Contemporary Approach to Management – Drucker.

Week -4

Contemporary Approach to Management – Porter, Senge.

**Month – Feb 2024**

Week-1

Contemporary Approach to Management – Prahalad, test.

Week-2

Process of Managing: Planning: Corporate.

Week-3

Strategy – Environmental analysis and Diagnosis.

Week-4

Formulation of Strategic Plan.

**Month – March 2024**

Week-1

Growth strategies – internal and external.

Week-2

Decision-making – Concept, Process, Rationality and Techniques, Test.

Week – 3

Information Technology and Decision-Making, Decision support system.

Week – 4

Organizing and Staffing: Contemporary Organizational Formats – Project, Matrix and Networking

**Month – April 2024**

Week-1

Management in Action: Motivation – Concept and Theories: Maslow, Herzberg, McGregor, and Ouchi

Week-2

Communication – formal and Informal Networks, Barriers and Principles

Week-3

Control: Concept and Process, Effective Control System, Modern Control Techniques – Stakeholder Approaches (Balanced Score Card)

Week-4

Accounting Measures (Integrated Ratio Analysis), and Economic and financial Measures (Economic Value added and Market Value added), Behavioral Aspect of Management Control

**Teacher Name: Dr Pushp Deep Dagar**

**Paper: Retail Management and Sales Procedures**

**Paper Code: BCH-6.06**

**Class: B.Com (Honrs)-VIth Sem**

**Month – Jan 2024**

Week – 1

Introduction: Meaning, nature, scope, importance, growth and present size

Week – 2

Career option in retailing; Technology induction in retailing

Week – 3

Future of retailing in India, Test and Revision

Week – 4

Types of Retailing: Stores classified by owners

**Month – Feb 2024**

Week – 1

Stores classified by merchandising categories; Wheel of retailing

Week – 2

Traditional retail formats vs. modern retail formats in India; Store and non-store-based formats

Week – 3

Cash and carry business - Meaning, nature and scope

Week – 4

Retailing models – Franchiser franchisee, directly owned; Wheel of retailing and retailing life cycle

**Month – March 2024**

Week – 1

Co-operation and conflict with other retailers, Test and Revision

Week – 2

Management of Retailing Operations: Retailing management

Week – 3

The total performance model; Functions of retail management

Week – 4

Strategic retail management process, Test and Revision

**Month – April 2024**

Week – 1

Retail planning - importance and process, Test

Week – 2

Developing retailing strategies, objectives, action plans

Week – 3

Pricing strategies and location strategies

Week – 4

Revision and Test

**Teacher Name: Dr Pushp Deep Dagar**

**Paper: Business Research Methods**

**Paper Code: 17MCO24C3**

**Class: M.Com -IVth Sem**

**Month – Jan 2024**

Week – 1

Introduction to Business Research: Defining Research; Types of Research-Basic and Applied Research

Week – 2

Process of Research; Features of a Good Research Study

Week - 3

Research Applications in Business Decisions, Formulation of the Research Problem

Week – 4

Development of the Research Hypotheses: Problem Identification

**Month – Feb 2024**

Week - 1

Definition; Process of Problem Identification; developing a research proposal;

Week – 2

Formulation of the Research Hypotheses, Test and Revision

Week – 3

Research Design: The Nature of Research Designs; Process of Formulation of Research Design,

Week – 4

Classification of Research Designs: Exploratory, Two-tiered, Experimental and Descriptive Research Design for Hypothesis Testing

**Month – March 2024**

Week - 1

Experimental Research Studies: Concept and Classification of Experimental Designs; Validity in Experimentation.

Week – 2

Factors affecting Internal Validity of Experiment; Factors affecting External Validity of Experiment; Methods to Control Extraneous Variables and Environments of Conducting Experiments.

Week – 3

Data Collection Methods: Classification of Data; Research Applications of Secondary and Primary Data; Secondary data sources and usage; Online data sources; Qualitative Method of Data Collection: observation method,

Week – 4

Content Analysis, Focus Group Method, Personal Interview Method and Projective Techniques; Primary data collection methods- questioning techniques, online surveys; Questionnaire Design Procedure. Sampling Plan: Universe, Sample vs Census

**Month – April 2024**

Week – 1

Sample Frame and Sampling Unit; Sampling Design; Sampling Techniques; Sample size Determination; Sampling and Non- Sampling Errors, Test and Revision.

Week – 2

Report Writing: Meaning, Functions and Types of Research Report, Steps of Planning Report Writing

Week – 3

Research Report Structure, Principles of Writing, Guidelines for Effective Documentation, Writing and Typing the Report.

Week – 4

Research Briefings: Oral Presentation. Presentation of Results: Descriptive Presentation, Graphic Presentation, Diagrams, Pictures and Maps, Tabular Presentation, Difficulties in Presentation.

**Teacher Name: Dr Pushp Deep Dagar**

**Paper: Advertising**

**Paper Code: 2.05**

**Class: B. Com -II Sem. (Vocational)**

**Month – Jan 2024**

Week – 1

Fundamentals of Advertising: Origin and Development.

Week – 2

Definition, Importance, Role of Advertising.

Week – 3

Nature, Objectives, Scope of Advertising.

Week – 4

Activities included and activities not included in advertising.

**Month – Feb 2024**

Week – 1

Types of Advertising: Commercial and Non-commercial advertising.

Week – 2

Primary demand and selective demand advertising.

Week – 3

Classified and display advertising.

Week – 4

Comparative advertising, co-operative advertising.

**Month – March 2024**

Week - 1

Social, Economic and Legal aspects: Social aspects – criticism of advertising.

Week – 2

Responsibility of advertiser, social responsibility and advertising.

Week – 3

Economic aspects – Advertising and allocation of resources.

Week – 4

Advertising and prices.

**Month – April 2024**

Week – 1

Advertising message, Preparing an effective advertising copy.

Week – 2

Elements of print copy – Headlines, Illustration.

Week – 3

Body copy, slogan, Logo, Seal of approval, Role of colon.

Week – 4

Elements of broadcast copy, Copy for direct mail.

Name of College: Govt. PG College for Women, Rohtak		
Academic Session: 2023-24 Semester: Even		
Subject: E-commerce Theory (BBAN-605) Name of Extension Lecturer: Dr. Mukesh		
Class: BBA 6th Sem.		
Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Introduction – E-commerce meaning, nature, concepts. Reasons for transacting online (drivers of e-commerce) Advantages for transacting online.	
Week 2	Categories of E-commerce, Planning online business: nature, objectives and benefits. Knowledge Society- origin, features, vision and indicators of knowledge society, Digital Economy- features, components and threats to digital economy.	
Week 3	Planning online business: how it work. Myths about e-commerce. Way to overcome online business problems. Planning online business: dynamics of the internet.	Test
Week 4	Pure online vs. brick and click business. Assessing technological requirement for an online business.	Assignment
Week 5	Designing, developing and deploying the system. One to one enterprise	
Week 6	Technology for online business – internet, IT infrastructure; middleware contents	Test
Week 7	Text and integrating e-business applications; mechanism of making payment through internet: online payment	

	mechanism, electronic payment systems	
Week 8	Applications in retail and service sector. Virtual existence – concepts, working of virtual org.	
Week 9	Features, Benefits and Limitations of computer. Basic computers anatomy.	
Week 10	Payment gateways, visitors to website, tools for promoting website;	Assignment
Week 11	Plastic money concept, benefits, pitfall and its types: debit card, credit card Difference between credit and debit card. Various laws relating to online transactions	
Week 12	Applications in e-commerce – e-commerce applications in manufacturing, wholesale	
Week 13	Vacation	
Week 14	Virtual existence advantages and pitfalls of virtual organizations, workface, work zone and workspace and staff less organization	Test
Week 15	Designing on E-commerce model for a middle level organization: the conceptual design, giving description of its transaction handling	
Week 16	Infrastructure and resources required and system flow chart; security in e-commerce, Digital signatures; concept, objectives, benefits.	
Week 17	Data encryption, features types and various secret keys for data encryption, Concept of network security: objective, nature, Scope.	Test

Name of College: Govt. PG College for Women, Rohtak		
Academic Session: 2023-24 Semester: Even		
Subject: Consumer Protection Name of Extension Lecturer: Dr. Mukesh		
Class: BBA 6th Sem)		
Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Consumer protection Act: objectives, scope, features, importance, Consumer rights, approaches of Consumer protection, amendments in consumer protection act	
Week 2	Consumer Exploitation & reason, Consumer Protection & Challenges to the Consumers	
Week 3	Meaning & Types of Buying Motives, Doctrine of Caveat Emptor	Test
Week 4	Concept of Caveat Venditor & Consumer Sovereignty	Assignment
Week 5	Measures for Consumer Protection In India, The MRTP Act, The Sale of Goods Act, The Competition Act	
Week 6	Quasi Judicial Mechanism, District forum, Jurisdiction for State Commission, National Commission	Test
Week 7	Procedure for Grievance Redressal, Reliefs granted by Quasi judicial bodies, Procedure for Filing Complaints	
Week 8	Consumer protection Act appraisal and exercise, benefits and shortcomings	

Week 9	Features, Benefits and Limitations of computer. Basic computers anatomy.	
Week 10	Measures for consumer protection in India. The agriculture produce Act, The Environment Act, Drugs and cosmetics Act	Assignment
Week 11	Essential commodities Act, Prevention of food adulteration Act, Standards of weight and measurement Act	
Week 12	Consumer protection councils: district, state, national level,	
Week 13	Vacation	
Week 14	Measures for consumer protection in India: administrative mechanism, Basic provisions of the Consumer Protection Act.(CPA)1986	Test
Week 15	Organizational set up for consumer protection under Consumer protection Act	
Week 16	Jurisdiction of district forum, state commission and national commission Power of redressal agencies and relief granted by quasi judicial bodies Need, Purpose,	Test
Week 17	Power and rights of district forum, state commission and national commission Approaches of Consumer Information & Knowledge	

Name of College: Govt. PG College for Women, Rohtak
Academic Session: 2023-24 Semester: Even
Subject: Business Research Methods (BBAN-404) Name of Extension Lecturer: Dr. Mukesh
Class: BBA 4th Sem.

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Business Research – Meaning, Features, Objectives of research, Scope, Importance of research.	
Week 2	Types of Business Research. Managerial value of Business Research. Theories of research : Inductive Theory	
Week 3	Deductive Theory. Research problem. Research – components, research constructs. Proposition and Hypothesis.	Test
Week 4	Features, Significance, Objective to construct Hypothesis, Formulations of Hypothesis, Types of Hypothesis, Testing of Hypothesis.	Assignment
Week 5	Purpose and Benefits of Research Proposal, Types of Research proposal, Ingredients of research proposal	
Week 6	Research Design – Meaning, classification and elements of research design,	Test
Week 7	Methods and categories of exploratory research, Scope, Importance, Contents of Research Design Factor Influencing Research Design	

Week 8	Determinant of Sample Size Sampling ErrorNon-Sampling Error Way to Reduce Sampling Error	
Week 9	Features, Benefits and Limitations of computer. Basic computers anatomy.	
	.	
Week 10	Descriptive Research DesignCausal Research Design Evaluation Of Research design	Assignment
Week 11	Basic issues in Experimental design Classification of experimental design, Internal Validity External Validity Measurement of Scales-concept, Nature, ImportanceTypes of scales,Scale construction techniques	
Week 12	Sampling Concept, Features , Benefits of Sampling Types of sampling: Probability and Non- Probability Sampling	
Week 13	Vacation	
Week 14	Research methods of collecting primary data and secondary data Benefits and sources of collecting data	Test
Week 15	Issues in construction of questionnaire,Process Forms Guidelines in construction of questionnaire,Statiscal Techniques of data Analysis	
Week 16	Data Analysis Purpose and Steps in Data Analysis ,Nature and types of descriptive analysis, Casual Analysis,Correlative Analysis,Univeriate and Biaveriate Test of Stistical Significance	Test
Week 17	Research report: Concept, Features, Benefits Types of Report Phycial Layout of Report , Evaluation of research report Ingredients of research report	

Name of College: Govt. PG College for Women, Rohtak		
Academic Session: 2023-24 Semester: Even		
Subject: E-commerce Practical (BBAN-605) Name of Extension Lecturer: Dr. Mukesh		
Group B and C		
Class: BBA 6th Sem.		
Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Basic Introduction about e-commerce, Various hardware and software required to ecommerce Practice group B and C	
Week 2	Categories of E-commerce, Planning online business Digital Economy- threats to digital economy. Practice group B and C	
Week 3	Planning online business: how it work. Way to overcome online business problems. Planning online business: dynamics of the internet. Practice group B and C	Test
Week 4	Assessing technological requirement for an online business. Practice group B and C	Assignment
Week 5	Designing, developing and deploying the system. One to one enterprise Practice group B and C	
Week 6	Technology for online business – internet, IT infrastructure; middleware contents Practice group B and C	Test

Week 7	Text and integrating e-business applications; mechanism of making payment through internet: online payment mechanism, electronic payment systems Practice group B and C	
Week 8	Applications in retail and service sector. Virtual existence – concepts, working of virtual org. Practice group B and C	
Week 9	How to select product or service to buy online how to add to cart product or service How to place an order online. Practice group B and C	
Week 10	Payment gateways, visitors to website, tools for promoting website; Practice group B and C	Assignment
Week 11	Various option for online payment How to use debit card, credit card mobile Payment Various laws relating to online transactions E check e cash e-wallet e-token Practice group B and C	
Week 12	How eCommerce is used in various sectors Use of e-commerce in manufacturing sectors Use of e-commerce in retailing sectors to buy or sell product or service Ecommerce in service: education sector, banking sector, hospital, online trading etc. Practice group B and C	
Week 13	Vacation	

Week 14	<p>Basic introduction about virtual organisation</p> <p>Various virtual organisation.</p> <p>And communication mode for virtual team. Such as email, teleconference etc.virtual organizations, workface, work zone and workspace and staff less organization</p> <p>Practice group B and C</p>	Test
Week 15	<p>Designing on E-commerce model for a middle level organization: the conceptual design, giving description of its transaction handling</p> <p>Practice group B and C</p>	
Week 16	<p>Infrastructure and resources required and system flow chart; security in e-commerce ,Digital signatures;</p> <p>Practice group B and C</p>	
Week 17	<p>Data encryption, various secret keys for dataencryption,</p> <p>Concept of network security: How to protect ecommerce transactions: password, antivirus etc. Practice group B and C</p>	Test

Government PG College for Women, Rohtak

Lesson Plan: 2023-24

Teacher's Name: Bhumika Gupta

Subject: Business Statistics

Class: B.Com. 2nd Semester Hons.

Sr. No.	Time Period	Topics to be Covered	Assignments, Presentation and Test etc.
1	Week 1	Theory of Probability: - Probability as a Concept; Approaches to defining probability,	
2	Week 2	Addition and Multiplication laws of probability; Conditional probability, Bayes' Theorem, Revision	
3	Week 3	Probability Distribution : - Probability distribution as a concept; Binomial,	
4	Week 4	Poisson and Normal Distribution, Their Properties and Parameters.	Class Test
5	Week 5	Correlation Analysis	Assignments
6	Week 6	Regression Analysis	
7	Week 7	Difference between Correlation Analysis and Regression Analysis	Presentations
8	Week 8	Test of Correlation and Regression Analysis	
9	Week 9	Analysis of Time Series: - Causes of Variations in time series data; Components of a time series.	Class Test
10	Week 10	Decomposition- Additive and Multiplicative models; determination of trend.	Presentations
11	Week 11	Moving averages method and method of least squares (Including linear second degree, Parabolic and Exponential trend);	Presentations
12	Week 12	Computation of seasonal indices by simple averages, Ratio to Trend,	Class Test
13	Week 13	Holi Vacations	Presentations
14	Week 14	Statistical Decision theory	
15	Week 15	Bayes Principle	Discussion on topics of assignment
16	Week 16	Statistical Quality Control	Presentations
	Week 17	REVISION, PROBLEM	

Name of Assistant/Associate Professor : Bhumika Gupta(Lecturer on Extension Basis)  
 Class and Section : B.Com (P) -4th Semester Sec A, B, C  
 SUBJECT : Business Statistics

Time Period	Topics to be Covered	Assignments, Presentation and Test etc.
Week 1	Index Numbers:- Meaning, Types and Uses; Methods of Constructing price and Quantity indices (Simple and Aggregate)	
Week 2	Tests of adequacy; Chain-base Index numbers, Base shifting	
Week 3	Splicing and Deflating; Problems in constructing index numbers;	
Week 4	Consumer price index, Revision	
Week 5	Analysis of Time Series: - Causes of Variations in time series data; Components of a time series.	Class Test
Week 6	Decomposition- Additive and Multiplicative models; determination of trend.	Presentations
Week 7	Moving averages method and method of least squares (Including linear second degree, Parabolic and Exponential trend);	Presentations
Week 8	Computation of seasonal indices by simple averages, Ratio to Trend,	
Week 9	Ratio to moving average and link relative methods.	Class Test
Week 10	Theory of Probability: - Probability as a Concept; Approaches to defining probability	Presentations
Week 11	Addition and Multiplication laws of probability; Conditional probability,	Presentations
Week 12	Bayes Theorem, Revision	Class Test
Week 13	Holi Vacations	Presentations
Week 14	Probability Distribution : - Probability distribution as a concept; Binomial,	
Week 15	Poisson and Normal Distribution	Discussion on topics of assignment
Week 16	Their Properties and Parameters.	Presentations
Week 17	Revision	Viva-Voce

# Lesson Plan

Name of Assistant/Associate Professor : Sakshi Bansal

Class and Section : B.B.A. Final Year 6th Semester. Session 2023-24

Subject : Income Tax (BBAN 601)

Week	Topics
Week 1	Introduction to taxation laws
	Terms regarding income tax
	Agriculture Income
	Practical Questions
	Problems
	Residential Status of the assessee
	Sunday
Week 2	Ordinary and Not Ordinary Resident status of the assessee
	Non-Residential Status of the assessee
	Practical Questions
	Practical Questions
	Problems
	Exempted Income from tax
	Sunday
Week 3	Remaining Exempted Income from tax
	Remaining Exempted Income from tax
	Basic concepts regarding Salary Head - An Introduction
	Introduction to Allowances
	Treatment of different taxable Allowances while calculating total income
	Continue
	Sunday
Week 4	Continue
	Continue
	Continue
	Non taxable allowances
	Continue
	Calculation of various Perquisites
	Sunday
Week 5	Continue
	Continue
	Continue
	Problems
	Test of complete Unit 1
	Test of Salary Head Part 1
	Sunday
Week 6	Introduction to Provident fund income its practical treatment
	Introduction to Earned Leave income and its practical treatment
	Introduction to Death cum Gratuity income and its practical treatment
	Introduction to Voluntary Retirement income and its practical treatment
	Introduction to Retrenchment Fund and its practical treatment
	Continue

	Sunday
	Problems
	Continue
	Test of Salary Head Part 2
	Introduction to Income from House Property
	Valuation of Standard Rent
	Practice
	Sunday
Week 7	
	Computation of Loan during Construction of House
	Practice
	Computation of sub let house
	Practice
Week 8	Introduction to Profit and Gains of Business and Profession
	Taxable income under the business head
	Sunday
	Continue
	Practical Questions
	Continue
	Continue
Week 9	Continue
	Continue
	Continue
	Non taxable income or Partially taxable income under business head
	Continue
	Practical Questions
Week 10	Taxable income under the Profession head Non Taxable income under the Profession head
	Problems
	Sunday
	Test of Business and Profession head
	Introduction to Capital Gain
	Basic concepts regarding Capital Gain Head
	Various Short term capital gains
Week 11	Practical Questions regarding Short term capital gains
	Continue
	Sunday
	Various Long term capital gains
	Practical Questions regarding Long term capital gains
	Continue
	Continue
Week 12	Problems
	Test of Capital Gains
	Sunday
	Income from other Sources- An Introduction
	Concepts regarding income from various sources
	Continue
	Practical Questions
Week 13	Problems
	Concepts regarding Set off and Carry forward of Losses
	Sunday
	Practical Questions
	Problems
	Continue
	Introduction to Clubbing of Income
Week 14	Practical Questions
	Continue
	Sunday
	Practical Questions
	Introduction to the Deductions
	Treatment of deduction 80C, 80CCC, 80 D, 80DD, 80 E
	Treatment of deduction 80G, 80I, 80 IA, 80IB, 80 U
Week 15	Assessment of Individuals
	Practical Questions
	Sunday
	Practical Questions
	Problems
	Tax deduction at source
	Practical Questions
Week 16	Concept behind Tax Deducted at Source
	Practical Questions
	Sunday

Name of Extension Lecturer: Dr. Sakshi Bansal

Academic Session: 2023-24 Semester: Even

Subject: Organizational Behavior (BBAN- 205)

Class: BBA 2nd Sem.

Week of Month	Topics/Chapters to be covered	Topics of Assignment/ Tests given/ to be given to the students
Week 1	Concept, features and scope of organizational behavior, Conceptual framework to organizational behavior	
Week 2	Contributing disciplines to organizational behavior, Role of organizational behavior, Determinants to organizational behavior	
Week 3	Historical Development of Organizational Behavior: Classical Era- Scientific Management, Administrative Management, Bureaucracy, The behavioural Era	Test
Week 4	Human Relation Era, Foundations of organizational behavior and Processes	Assignment
Week 5	Models to organizational behavior, Emerging trends and changing profiles of workforce	
Week 6	Role of organizational behavior, Challenges of organizational behavior	Test
Week 7	Individual behavior, causes of human behavior, Determinants of individual behavior, Personality concept and its determinants	

Week 8	Features, Benefits and Limitations of computer. Basic computers anatomy.	
Week 9	Approaches to Personality Personality traits influencing organizational behavior,Values concept, types and sources	Assignment
Week 10	Value and organizational behavior, Attitudes concept, nature, components,Function and sources of attitudes Theories and types of attitude continue	
Week 11	Perception concept and perceptual process Factors influencing perceptionApplication of perception in organizational behavior	
Week 12	Learning concept, nature, factors affecting learning,Theories of learning	
Week 13	Motivation,Emotional intelligence, its importance and application,Foundations of group behavior Team Processes	Test
Week 14	Interpersonal Communication, Group DynamicTeam and Team Work,Conflict and negotiation in Workplace,Power and Politics in Organisation	
Week 15	Organizational Processes,Organisational Culture,Organizational development Elements and Process in Designing Organisational StructureNeed of Organisational Structure	Test
Week 16	Organisational ChangeTypes of change Forces for Change : External Forces Resistance to Change Stress management Sources, Effects, Strategy to Overcome stress types of stress research report Ingredients of research report	

# Lesson Plan

Name of Assistant/Associate Professor : Sakshi Bansal. Session 2023-24	
Class and Section : B.B.A. Final Year 6th Semester	
Subject : E commerce (LAB) Group A and Group B (BBAN 605)	
Week	Topics
Week 1	Introduction to E- commerce Group A
	E- Payment : Methods of doing payment Group A
	Practice Group A
	Introduction to E- commerce Group B
	E- Payment : Methods of doing payment Group B
	Practice Group B
	Sunday
Week 2	How to use a Debit Card Group A
	Practice Group A
	How to use a Credit Card Group A
	How to use a Debit Card Group B
	Practice Group B
	How to use a Credit Card Group B
	Sunday
Week 3	Practice Group A
	Use of Paytm and other electronic means of payment Group A
	Practice Group A
	Practice Group B
	Use of Paytm and other electronic means of payment Group B
	Practice Group B
	Sunday
Week 4	Practice Group A
	Online Retailing
	Practice Group A
	Practice Group B
	Online Retailing
	Practice Group B
	Sunday
Week 5	How to buy products and services online
	Practice Group A
	Practice Group A
	How to buy products and services online
	Practice Group B
	Practice Group B
	Sunday
Week 6	How to sell products and services online
	Practice Group A
	Practice Group A
	How to sell products and services online
	Practice Group B
	Practice Group B
	Sunday

	Sunday
Week 7	Virtual Organisations and their working style
	Practice Group A
	Practice Group A
	Virtual Organisations and their working style
	Practice Group B
	Practice Group B
	Sunday
Week 8	Digital Signature
	Practice Group A
	How to create digital signatures
	Digital Signature
	Practice Group B
	How to create digital signatures
	Sunday
Week 9	Practice Group A
	How to use digital signatures
	Practice Group A
	Practice Group B
	How to use digital signatures
	Practice Group B
	Sunday
Week 10	Network security system of transactions
	Practice Group A
	Practice Group A
	Network security system of transactions
	Practice Group B
	Practice Group B
	Sunday

<b>Week 11</b>	How to secure e-commerce transactions
	Practice Group A
	Practice Group A
	How to secure e-commerce transactions
	Practice Group B
	Practice Group B
	<b>Sunday</b>
<b>Week 12</b>	How to create Passwords, biometrics and other securities in
	Practice Group A
	Practice Group A
	How to create Passwords, biometrics and other securities in
	Practice Group B
	Practice Group B
	<b>Sunday</b>
<b>Week 13</b>	Essential requirements of IT Infrastructures to conduct online business
	Practice Group A
	Practice Group A
	Essential requirements of IT Infrastructures to conduct online business
	Practice Group B

	Practice Group B
	<b>Sunday</b>
<b>Week 14</b>	Knowledge regarding use of Mobile Banking
	Practice Group A
	Practice Group A
	Knowledge regarding use of Mobile Banking
	Practice Group B
	Practice Group B
	<b>Sunday</b>
<b>Week 15</b>	How to make safe transactions with the help of mobiles
	Practice Group A
	Practice Group A
	How to make safe transactions with the help of mobiles
	Practice Group B
	Practice Group B
	<b>Sunday</b>
<b>Week 16</b>	Mobile banking continue
	Practice Group A
	Practice Group A
	Mobile banking continue
	Practice Group B
	Practice Group B
	<b>Sunday</b>

## **LESSON PLAN SESSION 2023-2024**

**Assistant Professor: Dr. Naveen Kumari**

**Class: BA 3<sup>rd</sup>, 6<sup>th</sup> Semester**

**Subject: Sociology**

**Paper: Rural Society-Structure and Change**

<b>Sr No.</b>	<b>Week No.</b>	<b>SYLLABUS</b>
1	Week 1	Meaning, definition, origin and development of rural Sociology
2	Week 2	Nature and subject matter of rural of sociology
3	Week 3	Scope and characteristics of rural sociology
4	Week 4	Emergence, development and importance of study of rural sociology in India
5	Week 5	Introduction to Rural Social Structure, Caste System: Characteristics, Merits, Demerits
6	Week 6	Class System: meaning definition and characteristics of social class, Class Structure
7	Week 7	Rural Social Structure: Inter caste relations and jagmani system
8	Week 8	Rural Social Structure: Rural family and its changing pattern
9	Week 9	Rural Economic: land tenure and land reform
10	Week 10	Rural Economy: Green Revolution and its impact
11	Week 11	Rural Economy: Bonded and Migrant labourers, Trends of change in rural society
12	Week 12	Rural Political Structure: Traditional caste Panchayat Panchayat before and after 73rd amendment
13	Week 13	Rural Political Structure: New Panchayati Raj and Empowerment of Women
14	Week 14	Revision

## Lesson Plan

### Academic Session 2023-24

**Subject-Mathematics**

**Class: B.Sc(mathHons)VI Sem**

**Paper:-Operation Research II**

**Name: Sandeep Kumar**

	<b>January</b>
Week 1	Inventory Control, Introduction of Inventory Control, Factors affecting inventory, Revision, Discussion of Problem , Inventory models
Week 2	Deterministic models, Economic order quantity when storage are allowed, Revision, Test, Economic order quantity model when shortage are not allowed Price discount model
Week 3	Examples, Multi- item inventory model, Examples, Revision, Test Problems
Week 4	<b>Queuing theory, Basic characteristics of queuing system, Birth-death equations</b> <b>Steady state solution, Examples</b>
	February
Week 1	Markovian queuing models with single server, Examples, Revision, Test, Markovian queuing models with multiple server
Week 2	Markovian queuing models with limited capacity, Examples, Revision, Test
Week 3	Sequencing problems, Processing of n jobs through 2 machines, Examples, n jobs through 3 machines
Week 4	<b>n jobs through m machines, , Examples, Discussion, Test</b>
	March
Week 1	Replacement policies for the item that fail completely, Examples, Revision Discussion
Week 2	Individual replacement, Examples, Revision, Group replacement polices

Week 3	Pert, examples
Week 4	<b>Holi break</b>
	April
Week 1	CPM earliest and latest time, examples
Week 2	Determination of critical path
Week 3	Various type of floats
Week 4	Probabilistic and cost consideration in project scheduling

### Lesson Plan

Academic Session 2023-24

Subject-Statistics

Class : B.sc 2nd sem

Paper : Statistical Methods-II, Probability Distribution

Name : Sandeep Kumar

	January
Week 1	<b>Correlation for Bivariate Data</b> : Concept and types of correlation, Scatter diagram; Karl Pearson Coefficient ( $r$ ) of correlation for non-frequency and frequency distributions, assumptions and properties for $r$ , derivation of limits of $r$ ;
Week2	Rank correlation coefficient with derivation of its formula, its merit and demerits. Derivation of limits of rank correlation coefficient. Tied or repeated ranks, coefficient of determination.
Week3	<b>Linear Regression</b> : Concept of regression; principle of least squares and fitting of straight line, derivation of two lines of regression, properties of regression coefficients, standard error of estimate obtained from regression line,

Week 4	<b>correlation coefficient between observed and estimated values, distinction between correlation and regression. Angle between two lines of regression. Curvilinear Regression : Fitting of second degree parabola, power curve of the type , exponential curves of the type</b>
	February
Week1	<b>Correlation and Regression for Trivariate data :</b> Concept of multiple and partial correlation and regression, derivation of plane of regression, properties of residuals, derivation of the formula for variance of the residual,
Week2	coefficient of multiple correlation and its properties, coefficient of partial correlation and its properties, multiple correlation in terms of total and partial correlations.
Week3	<b>Bernoulli distribution and its moments, Binominal distribution :</b> Moments, recurrence relation for the moments, mean deviation about mean, mode, moment generating function (m.g.f.), additive property, characteristic function (c.f.), cumulants,
Week 4	<b>recurrence relation for cumulants, probability generating function (p.g.f.) and recurrence relation for the probabilities of Binominal distribution. Poisson Distribution : Moments, mode, recurrence relation for moments, m.g.f., c.f. cumulants and p.g.f. of Poisson distribution,</b>
	March
Week 1	<b>Gamma distribution : m.g.f. properties of Gamma distribution Beta distribution of first and second kind, Exponential Distribution.</b>
Week2	additive property of independent Poisson variates, Negative Binomial distribution : m.g.f. cumulants and p.g.f. of negative binomial distribution, deduction of moments of negative binomial distribution from those of binomial distribution. Numerical problems based on Binomial and Poisson distributions.
Week 3	Discrete uniform distributions, Geometric distribution : Lack of memory, moment moments and m.g.f. of Geometric distribution. Mean and variance of the Hypergeometric distribution.
Week 4	<b>Holi break</b>

	April
Week1	Continuous Uniform distribution. Moments, m.g.f., characteristic function and mean deviation of uniform distribution. Normal distribution as a limiting form of binominal distribution, chief characteristic of Normal distribution; mode, median, m.g.f., c.g.f. and moments of Normal Distribution,
Week2	A linear combination of independent normal variates, points of inflexion, mean deviation about mean,
Week3	<b>area property of Normal distribution and related numerical problems, importance and fitting or normal distribution.</b>
Week 4	<b>Tests and Assignments</b>

## LESSON PLAN 2023-24

<b>Name of the Assistant/Associate Professor: Dr. SUDESH</b>
<b>Class and Section: B.Sc. mathhons (4th Semester)</b>
<b>Subject: STATISTICS</b>
<b>Paper: ELEMENTARY INFERENCE</b>
<b>JANUARY 24</b>
<b>Week 1: Definition of Parameter and Statistic</b>
<b>Week 2: Standard error of estimate, Point and interval estimation</b>
<b>Week 3: Unbiasednes, Efficiency</b>
<b>Week 4: Consistency and Sufficiency</b>
<b>FEBUARY 24</b>
<b>Week 1: Method of maximum likelihood estimation, Null and alternative hypothesis</b>
<b>Week 2: Simple and alternative hypothesis, critical region , level of significance</b>

<b>Week3: one tailed test and two tailed test, Types of error, Neyman - Pearson Lemma</b>
<b>Week4: Testing interval estimation of a single mean</b>
<b>Week5: Difference between two means</b>
<b>MARCH 24</b>

<b>Week</b>	<b>Month</b>
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<b>Week1: Fisher Z transformation</b>
<b>Week 2: Testing of difference between two proportions and two means with examples</b>
<b>Week3: Definition of student t and Snedcor F- Statistics</b>
<b>Week4: Holi Break</b>
<b>APRIL 24</b>
<b>Weak1: Testing for and variance of univariate normal mean distribution with examples</b>
<b>Weak2: Analysis of variance for one-way and Examples of ANOVA</b>
<b>Week 3: Two-way Classification</b>
<b>Week 4: Take Problems and test</b>

### **Lesson Plan**

**Academic Session 2023-24**

**Subject: Statistics**

**Class: B.A/Bsc 4 sem**

**Paper: Parametric and Non-Parametric Tests, Design of Experiment.**

**Name: Dr.**

**Jyoti**

	<b>January 2023</b>
Week 1	Introduction
Week 2	Chi-square distribution: definition, Derivation of $\chi^2$ distribution
Week 3	Moment Generating Function, Cumulant Generating Function. Mean, Mode, Skewness
Week 4	Additive Property, Conditions For the validity of chi- square. Assignment
Week 5	Pearson's Chi-square test of goodness of fit, Contingency table , Coefficient of contingency, test of independence of attributes in a contingency table.
	<b>February 2023</b>
Week 1	T and f statistics: definition of Student's 't' and Fisher's 't', derivation of student's 't' distribution. distribution of Fisher's 't', constant of t distribution, limiting form and graph of t- distribution.
Week 2	Definition and derivation of Snedcor's f- distribution, constants of F distribution, mode of F distribution. Test.
Week 3	Testing for the mean and variance of univariate normal distributions, Testing of equality of two variances of two univariate normal distributions.
Week 4	Related confidence intervals, Testing for the significance of sample correlation coefficient in sampling from bivariate normal distribution.
Week 5	Nonparametric Tests: Definition of order statistics and their distributions, Nonparametric Tests: sign test for univariate and bivariate distribution, run test, median test. Revision.
	<b>March 2023</b>
Week 1	Analysis of variance (ANOVA) : Definition, assumptions for ANOVA test, one-way and two-way classifications for fixed effect model with one observation per cell.
Week 2	Test. Introduction to design and experiment, terminology, Experiment, Treatment, Experimental unit, blocks, experimental error,
Week 3	replication, precision, efficiency of a design, need for design of experiments, size and shape of plots and blocks. Assignment

Week 4	Fundamental principles of design, randomization, replication and local control. completely randomized design, randomized Block Design, their layout, statistical analysis, applications
Week 5	HOLIDAY
	<b>April 2023</b>
Week 1	advantages, dis-advantages, and efficiency of RBD relative to CRD. Latin square design (LSD) standard Latin square design, layout of LSD, its statistical
Week	analysis, applications, merits and de-merits. <b>Month</b>
	<b>January 2023</b>
Week 2	Factorial designs – $2^2$ and $2^3$ designs, illustrations, main effects and interaction
Week 1	Introduction, effects, Yate's method for computing main and interaction effects.
<del>Week 2</del>	<del>Linear regression: concept of regression. principle of least squares and fitting</del>
<del>Week 3</del>	<del>of straight line, derivation of two lines of regression</del>
<del>Week 4</del>	<del>principle of least squares and fitting of straight line. derivation of two lines of</del>
<del>Week 5</del>	<del>REVISION</del>

### Lesson Plan

Academic Session 2023-24

Subject: Statistics

Class: B.Sc Hons Maths(2<sup>nd</sup> sem)

Paper: Regression analysis and probability

Name: Dr. Jyoti

	regression. TEST
Week 4	properties of regression coefficients, standard error of estimate obtained from regression line. correlation coefficient between observed and estimated values
Week 5	Angle between two lines of regression difference between correlation and regression. Assignment
	<b>February 2023</b>
Week 1	Angle between two lines of regression difference between correlation and regression
Week 2	curvilinear regression: fitting of second degree parabola, power curve of the type $Y = ax^b$ and $Y = ae^{bx}$
Week 3	Concepts in probability: random experiment, trial ,sample point. TEST
Week 4	sample space, operation of events, exhaustive, equally likely and independent events
Week 5	Definition of probability- classical, relative frequency, statistical and axiomatic approach
	<b>March 2023</b>
Week 1	Addition and multiplication laws of probability, Boole's inequality. Assignment
Week 2	Bayes' theorem and its applications. Random variable and probability functions: Definition and properties of random variables
Week 3	discrete and continuous random variable, Probability mass and density functions, distribution function.
Week 4	Concept of bivariate random variable: joint marginal and conditional distributions
Week 5	HOLIDAY
	<b>April 2023</b>
Week 1	Mathematical expectation: Definition and its properties- moments, measures of location
Week 2	dispersion skewness. kurtosis
Week 3	Revision
Week 4	Test

Week 5	Revision
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**Lesson Plan Academic Session 2023-24**

Subject - Statistics

Class: B. Sc. III (VI Sem)

Paper: - Operations Research & Statistical Quality Control

Name: Dr. Permila

<b>Week</b>	<b>Syllabus</b>
Jan 1 <sup>st</sup>	Operations Research: Definitions, Nature Objectives, Scope and Importance.
Jan 2 <sup>nd</sup>	Operation Research Models: Classification, Formulation, Principle of Modeling, Characteristics of a Good Model
Jan 3 <sup>rd</sup>	Advantages & Disadvantages. Applications of Operations Research Models. Linear Programming Problem: Definitions (Including General Form)
Jan 4 <sup>th</sup>	Formulation (with Real Life examples) and Graphical Solution of LPP. Solution of Linear Programming Problems (LPP) by using Simplex Method.
Jan 5 <sup>th</sup> & Feb 1 <sup>st</sup>	Degeneracy problems and their solutions. Transportation Problem (TP): Definition Formulation of a LPP as TP.
Feb 2 <sup>nd</sup>	Initial Basic Feasible Solution of TP by North-West Corner Rules, Row Minima Method
Feb 3 <sup>rd</sup>	Column Minima Method, Matrix Minima Method (Least cost entry method) and Vogel's Approximation Method. Assignment Problem: Definition and its Solution.
Feb 4 <sup>th</sup>	Statistical Quality Control: Meaning and uses of SQC, Causes of Variations in Quality, Product and Process Control,
Feb 5 <sup>th</sup> & Mar 1 <sup>st</sup>	Control Charts, 3- Control Limits, Control Chart for Variables-X and R Chart Criteria for Detection of Lack of Control in X & R Charts, Interpretation of X & R Charts, Control Chart for Standard Deviation ( charts), Control Charts for Attributes- p and c Charts.
Mar 2 <sup>nd</sup>	Acceptance Sampling: Problem of Lot Acceptance. Stipulation of good and bad Lots, Producer's and Consumers Risks, Single and Double Sampling Plans, their OC Functions
Mar 3 <sup>rd</sup>	Concepts of AQL, LTPD, AOQL, Average Amount of Inspection and ASN Function, Rectifying Inspection Plans. Sampling Inspection Plans.
Mar 4 <sup>th</sup>	Demand Analysis: Laws of Supply and Demand, Price Elasticity of Demand, Demand Function with Constant Price Elasticity, Partial Elasticities of Demands (Income Elasticity & Cross Elasticity)
Mar 6 <sup>th</sup> & April 1 <sup>st</sup>	Types of Data required for Estimating Elasticities, Family Budget Data Time Series Data,
April 2 <sup>nd</sup>	Leontief's Pigous's Methods from Time Series Data to Estimate Demand Functions. Engel's Law, Pareto's Law of Income Distribution, Curves of Concentration,
April 3 <sup>rd</sup>	Lorenz Curve and Gini's Coefficient.
April 4 <sup>th</sup>	Revision and doubt session
April 5 <sup>th</sup>	Revision and doubt session

**Name of Guest Lecturer:** Dr. Shalu Rani  
**Class and Section:** BCA 4<sup>th</sup> Sem  
**Subject:** Object Oriented Programming using C++  
**Paper Code:** BCA 208 (Sec-A)  
**Lesson Plan:** Jan 2024 to April 2024

<b>January 2024</b>
<b>Object Oriented Programming Concepts:</b> Procedural Language and Object Oriented Characteristics of OOP, user-defined types ,polymorphism and encapsulation., Getting started with C++: syntax, data types variables, string, function, namespace and exception, operators, flow control, recursion, array and pointer, structure Revision, Assignment and Test related to above topics
<b>Febraury 2024</b>
<b>Abstracting Mechanism:</b> classes, private and public, Constructor and Destructor, member function, static members, references; <b>Memory Management:</b> new, delete, object copying, copy constructor assignment operator, this input/output Revision, Assignment and Test related to above topics
<b>March 2024</b>
<b>Inheritance and Polymorphism:</b> Derived Class and Base Class, Different types of Inheritance, Overriding member function, Abstract Class, Public and Private Inheritance, Ambiguity in Multiple inheritance, Virtual function, Friend function, Static function Revision, Assignment and Test related to above topics

**April 2024**

**Exception Handling:** Exception and derived class, function exception declaration, Unexpected exception, exception when handling exception, resource capture and release.

**Template and Standard Template Library:** Template classes, declaration, template Functions, namespace, string, iterators, hashes, iostreams and other types.

Revision, Assignment and Test related to above topics

Presentation, Sessional and Viva-Voce

**Name of Guest Lecturer:** Dr. Shalu Rani  
**Class and Section:** BCA 4<sup>th</sup> Sem  
**Subject:** Web Designing  
**Paper Code:** BCA 208 (Sec-B)  
**Lesson Plan:** Jan 2024 to April 2024

**January 2024**

Introduction to Internet and World Wide Web; Evolution and History of World Wide Web; Basic features; Web Browsers; Web Servers; Hypertext Transfer Protocol, Overview of TCP/IP and its services; URLs; Searching and Web-Casting Techniques; Search Engines and Search Tools,  
Problem discussion, Assignment and test related to above topics

**February 2024**

Web Publishing: Hosting your Site; Internet Service Provider; Web terminologies, Phases of Planning and designing your Web Site; Steps for developing your Site; Choosing the contents; Home Page; Domain Names, Front page views, Adding pictures, Links, Backgrounds, Relating Front Page to DHTML. Creating a Website and the Markup Languages (HTML, DHTML)  
Problem discussion, Assignment and test related to above topics

**March 2024**

Web Development: Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML command Tags; Creating Links; Headers; Text styles; Text Structuring; Text colors and Background; Formatting text; Page layouts  
Problem discussion, Assignment and test related to above topics

**April 2024**

Images; Ordered and Unordered lists; Inserting Graphics; Table Creation and Layouts; Frame Creation and Layouts; Working with Forms and Menus; Working with Radio Buttons; Check Boxes; Text Boxes; DHTML: Dynamic HTML, Features of DHTML, CSSP(cascading style sheet positioning) and JSSS(JavaScript assisted style sheet), Layers of netscape, The ID attributes, DHTML events.

Problem discussion, Assignment and test related to above topics

Presentation, Sessional and viva-voce

**Name of Guest Lecturer:** Dr. Shalu Rani

**Class and Section:** BCA 4<sup>th</sup> Sem

**Subject:** Software Lab

**Paper Code:** BCA 210

Practical Syllabus will be met as per Schedule of Concerned theory paper i.e. based on Paper 206 and Paper 208.

#### **Lesson Plan**

**Class - BCA 4th Sem Sec A**

**Faculty – Ms Archana**

**Subject - BCA – 207: DATA STRUCTURE – II**

**Lesson Plan Duration - January 2024 to May 2024**

<b>Time Period</b>	<b>Topics</b>
1 Jan 2024 - 31 Jan 2024	Tree: Header nodes, Threads, Binary search trees, Searching, Insertion and deletion in a Binary search tree, AVL search trees, Insertion and deletion in AVL search tree, m-way search tree, Searching, Insertion and deletion in an m-way search tree, B-trees, Searching, Insertion and deletion in a B-tree, B+tree, Huffman's algorithm, General trees.
1 Feb 2024 - 29 Feb 2024	Graphs: Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path, Operations on graphs, Traversal of graph, Topological sorting.
1 March 2024 - 31 March 2024	Sorting: Internal & external sorting, Radix sort, Quick sort, Heap sort, Merge sort, Tournament sort, Searching: Linear search, binary search, merging, Comparison of various sorting and searching algorithms on the basis of their complexity

1 April 2024 - 30 April 2024	Files: Physical storage devices and their characteristics, Attributes of a file viz fields, records, Fixed and variable length records, Primary and secondary keys, Classification of files, File operations, Comparison of various types of files, File organisation: Serial, Sequential, Indexed-sequential, Random-access/Direct, Inverted, Multilist file organisation. Hashing: Introduction, Hashing functions and Collision resolution methods .
1 May 2024 onwards	Revision & Tests

## Lesson Plan

**Class – BCA 6th Sem Sec A**

**Faculty - Archana**

**Subject - INTRODUCTION TO .NET**

**Lesson Plan Duration - January 2024 to May 2024**

Time Period	Topics
1 Jan 2024 - 31 Jan 2024	The Framework of .Net: Building blocks of .Net Platform (the CLR, CTS and CLS), Features of .Net, Deploying the .Net Runtime, Architecture of .Net platform, Introduction to namespaces & type distinction. Types & Object in .Net, the evolution of Web development
1 Feb 2024 - 29 Feb 2024	Class Libraries in .Net, Introduction to Assemblies & Manifest in .Net, Metadata & attributes . Introduction to C#: Characteristics of C#, Data types: Value types, reference types, default value, constants, variables, scope of variables, boxing and unboxing.
1 March 2024 - 31 March 2024	Operators and expressions: Arithmetic, relational, logical, bitwise, special operators, evolution of expressions, operator precedence & associativity, Control constructs in C#: Decision making, loops, Classes & methods: Class, methods, constructors, destructors, overloading of operators & functions.
1 April 2024 - 30 April 2024	Inheritance & polymorphism: visibility control, overriding, abstract class & methods, sealed classes & methods, interfaces. Advanced features of C#: Exception handling & error handling, automatic memory management, Input and output (Directories, Files, and streams).
1 May 2024 onwards	Revision & Tests

## Lesson Plan

**Class - BCA 6<sup>th</sup> Sem Section A**

**Faculty – Dr. Jyoti**

**Subject - BCA – 307 Object Technologies & Programming using Java**

**Lesson Plan Duration - January 2024 to May 2024**

Time Period	Topics
1 Jan 2024 - 31 Jan 2024	Paradigms of Programming Languages, Evolution of OO Methodology. Basic Concepts of OO Approach, Comparison of Object Oriented and Procedure Oriented Approaches. Benefits of OOPs , Applications of OOPs, Classes and Objects , Abstraction and Encapsulation, Inheritance, Method Overriding and Polymorphism, Introduction To Java, Basic Features, Java Virtual Machine Concepts
1 Feb 2024 - 29 Feb 2024	Primitive Data Type And Variables, Statements, Control Structures and Arrays. Class and Objects-- Class Fundamentals, Creating objects, Assigning object reference variables, Introducing Methods, Static methods, Constructors, Overloading constructors, This Keyword, Using Objects as Parameters, Argument passing, Returning objects, Method overloading, Garbage Collection
1 March 2024 - 31 March 2024	Defining Package, CLASSPATH, Package naming, Accessibility of Packages, using Package Members, Implementing Interfaces Interface and Abstract Classes, Extends and Implements together, Exception, Handling of Exception, Using try-catch Catching Multiple Exceptions, Using finally clause, Types of Exceptions, Throwing Exceptions, Writing Exception Subclasses
1 April 2024 - 30 April 2024	Introduction, The Main Thread, Java Thread Model, Thread Priorities, Synchronization in Java, Inter thread Communication, I/O Basics, Streams and Stream Classes, The Predefined Streams, Reading from, and Writing to console, Reading and Writing Files, The Transient and Volatile Modifiers, Using Instance of Native Methods
1 May 2024 onwards	String Handling

## **Lesson Plan**

**Class – BCA 6th Sem Sec B**

**Faculty – Dr. Jyoti**

**Subject - INTRODUCTION TO .NET**

**Lesson Plan Duration - January 2024 to May 2024**

<b>Time Period</b>	<b>Topics</b>
1 Jan 2024 - 31 Jan 2024	Class Libraries in .Net, Introduction to Assemblies & Manifest in .Net, Metadata & attributes. Introduction to C#: Characteristics of C#, Data types: Value types, reference types, default value, constants, variables, scope of variables, boxing and unboxing.
1 Feb 2024 - 29 Feb 2024	Operators and expressions: Arithmetic, relational, logical, bitwise, special operators, evolution of expressions, operator precedence & associativity, Control constructs in C#: Decision making, loops, Classes & methods: Class, methods, constructors, destructors, overloading of operators & functions.
1 March 2024 - 31 March 2024	Inheritance & polymorphism: visibility control, overriding, abstract class & methods, sealed classes & methods, interfaces. Advanced features of C#: Exception handling & error handling, automatic memory management, Input and output (Directories, Files, and streams).
1 April 2024 - 30 April 2024	The Framework of .Net: Building blocks of .Net Platform (the CLR, CTS and CLS), Features of .Net, Deploying the .Net Runtime, Architecture of .Net platform, Introduction to namespaces & type distinction. Types & Object in .Net, the evolution of Web development
1 May 2024 onwards	Revision & Test

## **Lesson Plan**

**Class - BCA 4th Sem Sec B**

**Faculty - Ms Meenakshi Dalal**

**Subject - BCA – 207: DATA STRUCTURE – II**

**Lesson Plan Duration - January 2024 to May 2024**

<b>Time Period</b>	<b>Topics</b>
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1 Jan 2024 - 31 Jan 2024	Tree: Header nodes, Threads, Binary search trees, Searching, Insertion and deletion in a Binary search tree, AVL search trees, Insertion and deletion in AVL search tree, m-way search tree, Searching, Insertion and deletion in an m-way search tree, B-trees, Searching, Insertion and deletion in a B-tree, B+tree, Huffman's algorithm, General trees.
1 Feb 2024 - 29 Feb 2024	Graphs: Warshall's algorithm for shortest path, Dijkstra algorithm for shortest path, Operations on graphs, Traversal of graph, Topological sorting.
1 March 2024 - 31 March 2024	Sorting: Internal & external sorting, Radix sort, Quick sort, Heap sort, Merge sort, Tournament sort, Searching: Linear search, binary search, merging, Comparison of various sorting and searching algorithms on the basis of their complexity
1 April 2024 - 30 April 2024	Files: Physical storage devices and their characteristics, Attributes of a file viz fields, records, Fixed and variable length records, Primary and secondary keys, Classification of files, File operations, Comparison of various types of files, File organisation: Serial, Sequential, Indexed-sequential, Random-access/Direct, Inverted, Multilist file organisation. Hashing: Introduction, Hashing functions and Collision resolution methods .
1 May 2024 onwards	Revision & Tests

## Lesson Plan

**Class - BCom 2nd Sem Sec A**

**Faculty - Ms Meenakshi Dalal**

**Subject - 2.06 : Basics of Computer-II**

**Lesson Plan Duration - January 2024 to May 2024**

Time Period	Topics
1 Jan 2024 - 31 Jan 2024	Fundamental of computers: Model of a digital computer; Functioning of a digital computer; Types of a digital computer; Advantages of computers. Difference between digital computer and analog computer, Applications of computers: Computers in Commerce, Marketing, Education and Management.
1 Feb 2024 - 29 Feb 2024	Software concepts: Types of Software and their role, Different System Software types- Operating systems, Translators, System Utilities; Concept of Application Packages; Types of an Operating system- Multi-user O.S., Multi-tasking O.S., Multi-Processing O.S; Time – sharing O.S., Multiprogramming O.S. Operating System as a resource Manager, concept of GUI and CUI.
1 March 2024 - 31 March 2024	Introduction to Windows: Components of a Application Window; Types of Windows, Windows as an Operating System, Windows explorer, Using Paintbrush, Control Panel, Installing a printer. User interfaces- CUI and GUI; Concept of a Desktop and Taskbar, My Computer, Recycle Bin, My Documents and Internet Explorer icons.
1 April 2024 - 30 April 2024	MS-Excel: Applications of a Spreadsheet; Advantages of an Spreadsheet; Features of Excel; Rows, Columns, Cell, Menus, Creating worksheet, Formatting, Printing, establishing worksheet links, Table creating and printing graphs, Macros, Using Built-in-functions.
1 May 2024 onwards	Revision & Tests

### Lesson Plan

**Class - BBA 2nd Sem**

**Faculty - Ms Meenakshi Dalal**

**Subject - BBAN-204 COMPUTER APPLICATIONS IN MANAGEMENT**

**Lesson Plan Duration - January 2024 to May 2024**

Time Period	Topics
1 Jan 2024 - 31 Jan 2024	Data, information and types; Information systems, types – MIS, TPS, OAS, DSS.
1 Feb 2024 - 29 Feb 2024	Expert systems, executive information systems.
1 March 2024 - 31 March 2024	Multimedia applications in business;
1 April 2024 - 30 April 2024	Multimedia applications in business; marketing and advertising; web applications of multimedia.
1 May 2024 onwards	Revision & Tests

### Lesson Plan

**Class – BSc 6th Sem**

**Faculty – Ms Suman**

**Subject - Visual Basic and Software Engg.**

**Lesson Plan Duration - January 2024 to May 2024**

Time Period	Topics
1 Jan 2024 - 31 Jan 2024	Introduction to VB: Visual & Non-visual programming, Procedural, Object-oriented and event- driven programming languages, The VB environment: Menu bar, Toolbar, Project explorer, Toolbox, Properties window, Form designer, Form layout, Immediate window. Event driven programming. Software and software engineering: Software characteristics, Software Processes, software crisis, Software life cycle models, Waterfall, Prototype, Evolutionary and Spiral Models, software engineering paradigms, goals and principles of software engineering

1 Feb 2024 - 29 Feb 2024	<p>Basics of Programming: Variables: Declaration, Types of variables, Converting variables types, Userdefined data types, Scope &amp; lifetime of variables. Constants: Named &amp; intrinsic. Operators: Arithmetic, Relational &amp; Logical operators. I/O in VB: Various controls for I/O in VB, Message box, Input Box, Print statement.</p> <p>Software requirement analysis – Structured analysis, object-oriented analysis and data modeling, software requirement specification, validation. Software requirements Analysis and Specifications: Requirement engineering, requirements analysis using DFD, Data Dictionaries and E-R Diagram, requirement documentation, nature of SRS, characteristics and organization of SRS.</p>
1 March 2024 - 31 March 2024	<p>Programming with VB: Decisions and conditions: If statement, If-then-else, Select-case. Looping statements: Do-loops, For-next, While-wend, Exit statement. Nested control structures. Arrays: Declaring and using arrays, one-dimensional and multi-dimensional arrays, Static &amp; dynamic arrays, Arrays of array.</p> <p>Software project management: Planning a software project, Software cost estimation, project scheduling, personnel planning, team structure Software configuration management, software quality and quality assurance, project monitoring, risk management.</p>
1 April 2024 - 30 April 2024	<p>Programming with VB: Decisions and conditions: If statement, If-then-else, Select-case. Looping statements: Do-loops, For-next, While-wend, Exit statement. Nested control structures. Arrays: Declaring and using arrays, one-dimensional and multi-dimensional arrays, Static &amp; dynamic arrays, Arrays of array.</p> <p>Design and implementation of software- Software design fundamentals, software design principles, Cohesion and Coupling, Classification of Cohesion and Coupling, Function oriented design, objectoriented Design, design verification, monitoring and control..</p>
1 May 2024 onwards	Revision & Tests

## Lesson Plan

**Class – BCA 6th Sem Sec A**

**Faculty - Suman**

**Subject - BCA-307 : Object Technologies & Programming using Java**

**Lesson Plan Duration - January 2024 to May 2024**

Time Period	Topics
1 Jan 2024 - 31 Jan 2024	Object Oriented Methodology-1: Paradigms of Programming Languages, Evolution of OO Methodology, Basic Concepts of OO Approach, Comparison of Object Oriented and Procedure Oriented Approaches, Benefits of OOPs, Introduction to Common OO Language, Applications of OOPs . Object Oriented Methodology-2: Classes and Objects, Abstraction and Encapsulation, Inheritance, Method Overriding and Polymorphism.
1 Feb 2024 - 29 Feb 2024	Java Language Basics: Introduction To Java, Basic Features, Java Virtual Machine Concepts, Primitive Data Type And Variables, Java Operators, Expressions, Statements and Arrays. Object Oriented Concepts: Class and Objects-- Class Fundamentals, Creating objects , Assigning object reference variables; Introducing Methods, Static methods, Constructors , Overloading constructors; This Keyword; Using Objects as Parameters, Argument passing, Returning objects , Method overloading, Garbage Collection, The Finalize ( ) Method. Inheritance and Polymorphism: Inheritance Basics, Access Control, Multilevel Inheritance, Method Overriding, Abstract Classes, Polymorphism, Final Keyword.
1 March 2024 - 31 March 2024	Packages : Defining Package, CLASSPATH, Package naming, Accessibility of Packages , using Package Members. Interfaces: Implementing Interfaces, Interface and Abstract Classes, Extends and Implements together. Exceptions Handling : Exception , Handling of Exception, Using try-catch , Catching Multiple Exceptions , Using finally clause , Types of Exceptions, Throwing Exceptions, Writing Exception Subclasses.
1 April 2024 - 30 April 2024	Multithreading : Introduction , The Main Thread, Java Thread Model, Thread Priorities, Synchronization in Java, Inter thread Communication. I/O in Java : I/O Basics, Streams and Stream Classes ,The Predefined Streams, Reading from, and Writing to, Console, Reading and Writing Files , The Transient and Volatile Modifiers , Using Instance of Native Methods. Strings and Characters : Fundamentals of Characters and Strings, The String Class , String Operations , Data Conversion using Value Of ( ) Methods , String Buffer Class and Methods.

1 May 2024 onwards	Revision & Tests
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## Lesson Plan

**Class - B Sc Physics Hons 4th Sem**

**Faculty - Ms Tarika Verma**

**Subject - Phy-406 Computer Fundamentals and Programming-II**

**Lesson Plan Duration - January 2024 to May 2024**

Time Period	Topics
1 Jan 2024 - 31 Jan 2024	Errors and Iterative Methods. Truncation and round-off errors, floating point computation, overflow and underflow, single and double precision arithmetic, iterative process, solution of nonlinear equations: bisection, secant and Newton-Raphson methods. Comparison and error estimation. Program for finding zeros of a given function. Solution of simultaneous linear equations : Gauss elimination and iterative (Gauss- Seidel) method.
1 Feb 2024 - 29 Feb 2024	Computation of eigenvalues and eigenvectors of matrices using iterative process. Program for finding solution of a given system of three coupled linear equations. Solution of simultaneous linear equations : Gauss elimination and iterative (Gauss-Seidel) method. Computation of eigenvalues and eigenvectors of matrices using iterative process. Program for finding solution of a given system of three coupled linear equations.
1 March 2024 - 31 March 2024	Numerical Differential and integral Calculus. Interpolation (Newton forward and backward formulas). Program for (a) Interpolating data points and (b) first and second derivative of a given function/data. Integration: General quadrature formula, trapezoidal and Simpson's rule, Gauss quadrature formulas: Gauss-Hermite, Gauss-Legendre

1 April 2024 - 30 April 2024	Program for Integrating a given function using Simpson and Gauss-Legendre methods. Solution of ordinary differential equations : Euler method and Runge-Kutta method of second order with error estimation, idea of predictor-corrector method. Program for solving initial value problem for a first order differential equation using Runge-Kutta method.
1 May 2024 onwards	Revision & Tests

### **Lesson Plan**

**Class - BCA 2nd Sem Sec B**

**Faculty - Ms Tarika Verma**

**Subject - BCA-109 : Structured Systems Analysis and Design**

**Lesson Plan Duration - January 2024 to May 2024**

<b>Time Period</b>	<b>Topics</b>
1 Jan 2024 - 31 Jan 2024	Introduction to system, Definition and characteristics of a system, Elements of system, Types of system, System development life cycle, Role of system analyst, Analyst/user interface, System planning and initial investigation: Introduction, Bases for planning in system analysis, Sources of project requests, Initial investigation, Fact finding, Information gathering, information gathering tools, Fact analysis, Determination of feasibility.
1 Feb 2024 - 29 Feb 2024	Structured analysis, Tools of structured analysis: DFD, Data dictionary, Flow charts, Gantt charts, decision tree, decision table, structured English, Pros and cons of each tool, Feasibility study: Introduction, Objective, Types, Steps in feasibility analysis, Feasibility report, Oral presentation, Cost and benefit analysis: Identification of costs and benefits, classification of costs and benefits, Methods of determining costs and benefits, Interpret results of analysis and take final action.

1 March 2024 - 31 March 2024	System Design: System design objective, Logical and physical design, Design Methodologies, structured design, Form-Driven methodology(IPO charts), structured walkthrough, Input/Output and form design: Input design, Objectives of input design, Output design, Objectives of output design, Form design, Classification of forms, requirements of form design, Types of forms, Layout considerations, Form control.
1 April 2024 - 30 April 2024	System testing: Introduction, Objectives of testing, Test plan, testing techniques/Types of system tests, Quality assurance goals in system life cycle, System implementation, Process of implementation, System evaluation, System maintenance and its types, System documentation, Forms of documentation.
1 May 2024 onwards	Revision & Tests

## Lesson Plan

**Class - BBA 6th Sem**

**Faculty - Ms Tarika Verma**

**Subject - BBAN602 : System Analysis & Design**

**Lesson Plan Duration - January 2024 to May 2024**

Time Period	Topics
1 Jan 2024 - 31 Jan 2024	Introduction to analysis and design: - System and its characteristics, components, environment and classification, SDLC, Case tools for analyst, role of system analyst, ER data models, feasibility study – economic, technical, operational.
1 Feb 2024 - 29 Feb 2024	Design of Application: - DFDs, form design, screen design, report design, structure chart, data base definition, equipment specification and selection, personnel estimates, I-O design.
1 March 2024 - 31 March 2024	Implementation:- data dictionary, decision tables, decision trees, logical design to physical implementation.
1 April 2024 - 30 April 2024	Introduction to distributed data processing and real time system:- evaluating distributing system, designing distributed data base, event based real time analysis tools, state transition diagrams.
1 May 2024 onwards	Revision & Tests

**Name of Associate Professor: Dr. Nisha**

**Class and Section: M.Sc 2<sup>nd</sup> Sem**

**Subject: Software Engineering**

**Paper Code: 16MCS22C3**

**Lesson Plan: Jan 2024 to April 2024**

**January 2024**

**Introduction to Software Engineering:** Software crisis, Software engineering Approach and Challenges, Principles of software engineering, Software development process models with comparison: Waterfall, Prototype, Time boxing and Spiral Models, RAD Model and Automation through software environments, Quality Standards like ISO 9001, SEI-CMM, Revision and assignment related to above topics

**February 2024**

**Software Project Management:** Management activities, Project planning, Project scheduling, Risk management activities. **Software Requirements Engineering:** Requirements Engineering Processes, Feasibility studies, Requirements elicitation and analysis, Requirements validation, Requirements management.

**Software Requirements Analysis & Specifications:** Software requirements, Structured analysis: Data Flow diagram, data dictionary, , Object oriented analysis, Software Requirement Specification (SRS): Need of SRS, Characteristics of SRS, Components of SRS, Structure of SRS

Revision, assignment and Test related to above topics

**March 2024**

**Software Metrics and Measure:** Need and benefits of Software Metrics, Configuration accounting: Reviews, Walkthrough, Inspection, and Configuration Audits. Size Metrics: Line of code, Token metrics, Function point metrics, Control Complexity Metrics, Software Project Estimation Models- COCOMO models.

**Software Design:** Fundamentals, problem partitioning & abstraction, design methodology, Function Oriented Design, Cohesion, Coupling & their classification, User Interface Design and Detailed design

**Coding:** Goals of coding phase, Programming style, Structured programming: objectives of structured programming, Principles of structured programming, advantages and disadvantages of structured programming.

Revision , Test and assignment related to above topics

**April 2024**

**Software Testing:** Impracticality of Testing all Data and Paths, Levels of testing, Functional vs. Structural testing, Static and Dynamic Testing Tools, Regression testing, Mutation Testing, Stress Testing; Validation Vs. Verification

**Software Maintenance:** Need of maintenance, Categories of maintenance, Maintainability, Maintenance tasks, Maintenance side effects

**Software Re-Engineering:** Source Code Translation, Program Restructuring, Data Re-Engineering, Reverse Engineering,

**Configuration Management:** Maintaining Product Integrity, Change Management, Version Control, Configuration accounting: Reviews, Walkthrough, Inspection and Configuration Audits.

Revision of all Syllabus, Presentation, Sessional and Viva-Voce

**Name of Associate Professor: Dr. Nisha**  
**Class and Section: M.Sc. 4<sup>th</sup> Sem**  
**Subject: Software Lab**  
**Paper Code: 17MCS24CL**

Practical Syllabus will be met as per schedule of concerned theory paper i.e. based on 17MCS24C1 and 17MCS24DB1.

**Name of Associate Professor: Dr. Nisha**  
**Class and Section: M.Sc. 2<sup>nd</sup> Sem(Computer Sc)**  
**Subject: Software Lab**  
**Paper Code: 16MCS22CL**

Practical Syllabus will be met as per schedule of concerned theory paper i.e. based on 16MCS22C1 and 16MCS22C2.

**Lesson Plan**

**CLASS: M.Sc. (Sem. 2)**  
**FACULTY: Mr Chain Singh**  
**SUBJECT: Data Structures Using C**  
**PAPER CODE: 16MCS22C1**  
**LESSON PLAN DURATION: From 01 January 2024 to 30th April 2024**

<b>Week 1 (1<sup>st</sup> Jan to 6<sup>th</sup> Jan)</b>
Programming fundamentals: Algorithm development, Techniques of problem solving, flow-chart, decision table Structured programming concepts; top-down design, development of efficient program; program correctness; debugging and testing of programs
<b>Week 2 (8<sup>th</sup> Jan to 13<sup>th</sup> Jan)</b>
Algorithm for searching, sorting (exchange and insertion)
<b>Week 3 (15<sup>th</sup> Jan to 20<sup>th</sup> Jan)</b>
Analysis of Algorithm: Frequency count, Time Space trade-off. Test of Unit 1
<b>Week 4 (22<sup>th</sup> Jan to 27<sup>th</sup> Jan)</b>
Programming in C: Introduction to C, Data type, constants and variable; Structure of a C program, Operators and Expressions, Control statements: Sequencing, Alteration and Iteration
<b>Week 5 (29<sup>th</sup> Jan to 3<sup>rd</sup> Feb)</b>
Arrays: Representation of single and multidimensional arrays
<b>Week 6 (5<sup>th</sup> Feb to 10<sup>th</sup> Feb)</b>
Sparse arrays - lower and upper triangular matrices and Tri-diagonal matrices; String and pointers, Functions, Recursion.
<b>Week 7 (12<sup>th</sup> Feb to 17<sup>th</sup> Feb)</b>
<b>Stacks and Queues:</b> Introduction and Primitive operations on stack; Stack application: Infix, postfix, prefix expressions;
<b>Week 8 (19<sup>th</sup> Feb to 24<sup>th</sup> Feb)</b>
Evaluation of postfix expression; Conversion from infix to Postfix;

<b>Week 9 (26<sup>th</sup> Feb to 2<sup>nd</sup> March)</b>
Introduction and Primitive Operation on queues, D-queues and Priority queues, Circular queue.
<b>Week 10 (3<sup>rd</sup> March to 9<sup>th</sup> March)</b>
<b>Linked Lists:</b> Introduction to Linked lists; Implementation of linked lists,
<b>Week 11 (11<sup>th</sup> March to 16<sup>th</sup> March)</b>
Operations such as traversal, Insert ion, deletion, searching, Two way lists.
<b>Week 12 (18<sup>th</sup> March to 22<sup>th</sup> March)</b>
<b>Trees:</b> Introduction and Terminology; Traversal of binary trees; Recursive algorithms for tree Operations such as traversal, insertion, deletion;
<b>Holi Vacations (23.03.2024-31.03.2024)</b>
<b>Week 13 (1<sup>st</sup> April to 6<sup>th</sup> April)</b>
Threaded Binary trees, binary search trees; AVL trees, B tress.
<b>Week 14 (8<sup>th</sup> April to 13<sup>th</sup> April)</b>
<b>File structure:</b> Physical Storage devices and their characteristics, constituents of a file viz. fields, records, fixed and variable length records, primary and secondary keys; file operations, basic file system operations, file organizations: serial sequential, index sequential, direct, inverted, multilist.
<b>Week 15 (15<sup>th</sup> April to 20<sup>th</sup> April)</b>
<b>Sorting Techniques:</b> Bubble Sort, Insertion sort, Select ion sort, merge sort, Heap sort, Quick sort.
<b>(22<sup>th</sup> April to 30<sup>th</sup> April)</b>
<b>Searching Techniques:</b> Linear search, Binary search, Hashing function and Collision Handling methods.

**Name of Teacher :** Ms. Monika Ahlawat  
**Class and Section:** BCA 2<sup>nd</sup> Sem (Sec-B)  
**Subject:** Logical Organization of computer -II  
**Paper Code:** BCA 107  
**Lesson Plan:** January 2024 to May 2024

<b>Week of Month</b>	<b>Topics to be covered</b>
16 <sup>th</sup> Jan to 31 <sup>st</sup> Jan	Sequential Logic: Characteristics, Flip-Flops, Clocked RS, D type, JK, T type and Master Slave flip-flops. State table, state diagram and state equations. Flip-flop excitation tables

1 <sup>st</sup> Feb to 29 <sup>th</sup> Feb	Sequential Circuits: Designing registers – Serial Input Serial Output (SISO), Serial Input Parallel Output (SIPO), Parallel Input Serial Output (PISO), Parallel Input Parallel Output (PIPO) and shift registers. Designing counters – Asynchronous and Synchronous Binary Counters, Modulo-N Counters and Up-Down Counters
1 <sup>st</sup> March to 31 <sup>st</sup> March	Memory & I/O Devices: Memory Parameters, Semiconductor RAM, ROM, Magnetic and Optical Storage devices, Flash memory, I/O Devices and their controllers.
1 April to 30 April	Instruction Design & I/O Organization: Machine instruction, Instruction set selection, Instruction cycle, Instruction Format and Addressing Modes. I/O Interface, Interrupt structure, Program-controlled, Interrupt-controlled & DMA transfer, I/O Channels, IOP.
1 May onwards	Revision and Test

**Name of Teacher:** Ms. Monika Ahlawat  
**Class and Section:** BBA 2<sup>nd</sup> Sem  
**Subject:** Computer Application in Management  
**Paper Code:** BBAN-204  
**Lesson Plan:** January 2024 to May 2024

Week of Month	Topics to be covered
16 <sup>th</sup> Jan to 31 <sup>st</sup> Jan	Introduction to Computers – History, basic anatomy, operating system, memory, input/output devices; types of computers, classification of computers; hardware and software
1 <sup>st</sup> Feb to 29 <sup>th</sup> Feb	Networking – Advantage, types, devices and network connection, wireless networking; virus and firewalls
1 <sup>st</sup> March to 31 <sup>st</sup> March	Introduction to information technologies; www, search engines, web browsers, IP addressing, web hosting and web publishing,

1 April to 30 April	Internet applications in business, chatting and e-mailing; computer applications, advantages and limitations, use in offices, education, institutions, healthcare
1 May onwards	Revision and Test

**Name of Teacher:** Ms. Monika Ahlawat  
**Class and Section:** BBA 4<sup>th</sup> Sem  
**Subject:** Database Management System  
**Paper Code:** BBAN-405  
**Lesson Plan:** January 2024 to May 2024

Week of Month	Topics to be covered
16 <sup>th</sup> Jan to 31 <sup>st</sup> Jan	Introduction to data base management system – Data versus information, record, file; data dictionary, database administrator, functions and responsibilities; file-oriented system versus database system.
1 <sup>st</sup> Feb to 29 <sup>th</sup> Feb	Database system architecture – Introduction, schemas, sub schemas and instances; data base architecture, data independence, mapping, data models, types of database systems.
1 <sup>st</sup> March to 31 <sup>st</sup> March	Data base security – Threats and security issues, firewalls and database recovery; techniques of data base security; distributed data base.
1 April to 30 April	Data warehousing and data mining – Emerging data base technologies, internet, database, digital libraries, multimedia data base, mobile data base, spatial data base.
1 May onwards	Revision and Test

## Lesson Plan

<b>CLASS:</b>	<b>M.Sc. (Sem. 2)</b>
<b>FACULTY:</b>	<b>Dr. Rohini Sharma</b>
<b>SUBJECT:</b>	<b>JAVA PROGRAMMING(Theory)</b>
<b>PAPER CODE:</b>	<b>17MCS24C1</b>
<b>LESSON PLAN DURATION:</b>	<b>From 01 January 2024 to 30th April 2024</b>

<b>Week 1 (1<sup>st</sup> Jan to 6<sup>th</sup> Jan)</b>
(Unit -1):Java History, Java features Java and Internet, Java and World Wide Web, Java Program Structure, Java Tokens, Java Virtual Machine
<b>Week 2 (8<sup>th</sup> Jan to 13<sup>th</sup> Jan)</b>
Data Types, Operators and Expressions, Decision Making and Branching, looping Classes and Methods.
<b>Week 3 (15<sup>th</sup> Jan to 20<sup>th</sup> Jan)</b>
Inheritance: Using Existing Classes, Class Inheritance, Choosing Base Class, Access Attributes, types of Inheritance
<b>Week 4 (22<sup>th</sup> Jan to 27<sup>th</sup> Jan)</b>
Abstract Classes, Using Final Modifier. Test of Unit 1
<b>Week 5 (29<sup>th</sup> Jan to 3<sup>rd</sup>Feb)</b>
(Unit-2):Polymorphism: Types of polymorphism. Packages & Interfaces: Understanding Packages, Defining a Package.
<b>Week 6 (5<sup>th</sup>Feb to 10<sup>th</sup>Feb)</b>
Packaging up Your Classes, Adding Classes from a Package to Your Program
<b>Week 7 (12<sup>th</sup> Feb to 17<sup>th</sup> Feb)</b>
Understanding CLASSPATH, Access Protection in Packages, Concept of Interface.
<b>Week 8 (19<sup>th</sup> Feb to 24<sup>th</sup> Feb)</b>
Exception Handling: Types of Exceptions, Dealing with Exceptions, Exception Objects. Test of Unit 2
<b>Week 9 (26<sup>th</sup> Feb to 2<sup>nd</sup> March)</b>
(Unit-III): Multithreading Programming: Creating Multiple Threads, communication.
<b>Week 10 (3<sup>rd</sup> March to 9<sup>th</sup>March)</b>
Input/Output in Java: I/O Basic, Byte and Character Structures, I/O Classes, Reading Console. Creating Applets in Java: Applet Basics, Applet Architecture.
<b>Week 11 (11<sup>th</sup>March to 16<sup>th</sup> March)</b>
Applet Life Cycle, Simple Applet Display Methods, Requesting Repainting, Using The Status Window, The HTML APPLET Tag Passing Parameters to Applets. Test of Unit 3.
<b>Week 12 (18<sup>th</sup> March to 22<sup>th</sup> March)</b>
(Unit-IV):AWT: Working with AWT Controls, AWT Classes, Window Fundamentals, Working with Frame, Creating a Frame Window in an Applet.

<b>Holi Vacations (23.03.2024-31.03.2024)</b>
<b>Week 13 (1<sup>st</sup> April to 6<sup>th</sup> April)</b>
Displaying Information Within a Window.Working with Graph: Working with Graphics,
<b>Week 14 (8<sup>th</sup> April to 13<sup>th</sup> April)</b>
Working with Color, Setting the Paint Mode.
<b>Week 15 (15<sup>th</sup> April to 20<sup>th</sup> April)</b>
Working with Fonts, Exploring Text and Graphics, Layout Managers and Menus.Test of unit 4.
<b>(22<sup>th</sup> April to 30<sup>th</sup> April)</b>
<b>Revision of Complete Syllabus</b>

**CLASS :** BCA (Sem. 2)

**FACULTY:** Dr. Rohini Sharma

**SUBJECT :** ‘C’ Programming(Theory)

**PAPER CODE:** BCA-106

**LESSON PLAN DURATION:** From 01 January 2024 to 30th April 2024

<b>Week 1 (1<sup>st</sup> Jan to 6<sup>th</sup> Jan)</b>
<b>(Unit -1):</b> Overview of C: History of C, Importance of C, Elements of C: C character set, identifiersand keywords, Data types. Constants and Variables,
<b>Week 2 (8<sup>th</sup> Jan to 13<sup>th</sup> Jan)</b>
Assignment statement, Symbolicconstant, Structure of a C Program, printf(), scanf() Functions.
<b>Week 3 (15<sup>th</sup> Jan to 20<sup>th</sup> Jan)</b>
Operators & Expression:Arithmetic, relational, logical, bitwise, unary, assignment, shorthand assignment operators,conditional operators and increment and decrement operators, Arithmetic expressions.
<b>Week 4 (22<sup>th</sup> Jan to 27<sup>th</sup> Jan)</b>
Evaluation of arithmetic expression, type casting and conversion, operator hierarchy & associativity.Test of Unit 1
<b>Week 5 (29<sup>th</sup> Jan to 3<sup>rd</sup> Feb)</b>
<b>(Unit-2):</b> Decision making & branching: Decision making with IF statement, IF-ELSE statement,Nested IF statement, ELSE-IF ladder, switch statement, goto statement..
<b>Week 6 (5<sup>th</sup> Feb to 10<sup>th</sup> Feb)</b>
Decision making & looping: For, while, and do-while loop, jumps in loops, break, continue statement, Nested loops.Test of Unit 2
<b>Week 7 (12<sup>th</sup> Feb to 17<sup>th</sup> Feb)</b>

<b>(Unit-III):</b> Functions: Standard Mathematical functions, Input/output: Unformatted & formatted I/O.
<b>Week 8 (19<sup>th</sup> Feb to 24<sup>th</sup> Feb)</b>
function in C, Input functions viz. getch(), getche(), getchar(), gets().
<b>Week 9 (26<sup>th</sup> Feb to 2<sup>nd</sup> March)</b>
output functions viz.,putch(), putchar(), puts(), string manipulation functions.
<b>Week 10 (3<sup>rd</sup> March to 9<sup>th</sup> March)</b>
User defined functions: Introduction/Definition, prototype, Local and global variables, passing parameters, recursion. Test of Unit 3.
<b>Week 11 (11<sup>th</sup> March to 16<sup>th</sup> March)</b>
<b>(Unit-IV):</b> Arrays, strings and pointers: Definition, types, initialization, processing an array, passing arrays to functions, Array of Strings.
<b>Week 12 (18<sup>th</sup> March to 22<sup>th</sup> March)</b>
String constant and variables, Declaration and initialization of string,
<b>Holi Vacations (23.03.2024-31.03.2024)</b>
<b>Week 13 (1<sup>st</sup> April to 6<sup>th</sup> April)</b>
Input/output of string data, Introduction to pointers
<b>Week 14 (8<sup>th</sup> April to 13<sup>th</sup> April)</b>
Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime.
<b>Week 15 (15<sup>th</sup> April to 20<sup>th</sup> April)</b>
Algorithm development, Flowcharting and Development of efficient program in C. Test of unit 4.
<b>(22<sup>th</sup> April to 30<sup>th</sup> April)</b>
<b>Revision of Complete Syllabus</b>

## Lesson Plan

**Class - BCA (Sem. 6)**

**Faculty - Ms. Pooja Anand**

**Subject – E Commerce(BCA-306)**

**Lesson Plan Duration - From January 2024 to April 2024**

Time Period	Topics
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<b>1Jan-31Jan</b>	<p>Electronic Commerce: Overview of Electronic Commerce, Scope of Electronic Commerce, Traditional Commerce vs. Electronic Commerce, Impact of E-Commerce, Electronic Markets, Internet Commerce, e-commerce in perspective, Application of E Commerce in Direct Marketing and Selling, Obstacles in adopting E-Commerce Applications; Future of ECommerce.</p> <p><b>Revision and taking queries of student, Test and Assignment</b></p>
<b>1Feb-29Feb</b>	<p>Value Chains in electronic Commerce, Supply chain, Porter's value chain Model, Inter Organizational value chains, Strategic Business unit chains, Industry value chains. Security Threats to E-commerce: Security Overview, Computer Security Classification, Copyright and Intellectual Property, security Policy and Integrated Security, Intellectual Property Threats, electronic Commerce Threats, Clients Threats, Communication Channel Threats, server Threats.</p> <p><b>Revision and taking queries of student, Test, Assignment</b></p>
<b>1Mar-31Mar</b>	<p>Implementing security for E-Commerce: Protecting E-Commerce Assets, Protecting Intellectual Property, Protecting Client Computers, Protecting E-commerce Channels, Insuring Transaction Integrity, Protecting the Commerce Server. Electronic Payment System: Electronic Cash, Electronic Wallets, Smart Card, Credit and Change Card.</p> <p><b>Revision and taking queries of student, Test and Assignment</b></p>
<b>1Apr-31Apr</b>	<p>Business to Business E-Commerce: Inter-organizational Transitions, Credit Transaction Trade Cycle, a variety of transactions. Electronic Data Interchange (EDI): Introduction to EDI, Benefits of EDI, EDI Technology, EDI standards, EDI Communication, EDI Implementation, EDI agreement, EDI security.</p> <p><b>Revision and taking queries of students, Test, and Assignment</b></p>

## Lesson Plan

**Class –B.Sc Computer Science(Sem 4)**

**Faculty - Ms. Pooja Anand**

**Subject – Data Structure (Paper 4.1)**

**Lesson Plan Duration - From January 2024 to May2024**

Time Period	Topics
<b>1Jan-31Jan</b>	Data-Structure: Data-Structure operations, Algorithm, Complexity, Data structure and its essence, Introduction to Arrays, Array operations, Multi- dimensional arrays, sequential allocation, address calculations, sparse arrays, Stacks-Introduction to Stacks, primitive operations on stacks, representation of stacks as an array and stack-applications. <b>Revision and taking queries of student, Test and Assignment</b>
<b>1Feb-29Feb</b>	Queues:-Introduction to queues, operations on queue, circular queue, priority queue, Applications of queue. Linked List-introduction and basic operations, Header nodes, doubly linked list, circular linked list, Applications of linked list, Representation of linked list as an array, stacks and queues. <b>Revision and taking queries of student, Test and Assignment</b>
<b>1Mar-31Mar</b>	Tree structures: Basic terminology, binary trees and binary search trees, implementing binary trees, Tree traversal algorithms, threaded trees, trees in search algorithms, AVL Trees, Polish notation and expression trees, applications of binary trees. <b>Revision and taking queries of student, Test and Assignment</b>
<b>1Apr-31Apr</b>	Graph data structure and their applications. Graph traversals, shortest paths, spanning trees and related algorithms. Sorting: Internal and external sorting. Various sorting algorithms, Time and Space complexity of algorithms. Searching techniques. Applications of S orting and S earching in computer science. <b>Revision and taking queries of student, Test and Assignment</b>

**Lesson Plan**

**Class - BCA (Sem. 4)**

**Faculty - Ms.**

**Vandna**

**Subject - Object Oriented Programming C++ language(BCA-208)**

**Lesson Plan Duration - From January 2024 to April 2024**

<b>Time Period</b>	<b>Topics</b>
<b>1Jan-31Jan</b>	<b>Object Oriented Programming Concepts:</b> Procedural Language and Object Oriented Characteristics of OOP, user-defined types ,polymorphism and encapsulation., Getting started with C++: syntax, data types variables, string, function, namespace and exception, operators, flow control, recursion, array and pointer, structure  <b>Revision and taking queries of student, Test and Assignment</b>
<b>1Feb-29Feb</b>	<b>Abstracting Mechanism:</b> classes, private and public, Constructor and Destructor, member function, static members, references; <b>Memory Management:</b> new, delete, object copying, copy constructor assignment operator, this input/output  <b>Revision and taking queries of student, Test, Assignment</b>
<b>1Mar-31Mar</b>	<b>Inheritance and Polymorphism:</b> Derived Class and Base Class, Different types of Inheritance, Overriding member function, Abstract Class, Public and Private Inheritance, Ambiguity in Multiple inheritance, Virtual function, Friend function, Static function  <b>Revision and taking queries of student, Test and Assignment</b>
<b>1Apr-31Apr</b>	<b>Exception Handling:</b> Exception and derived class, function exception declaration, Unexpected exception, exception when handling exception, resource capture and release. <b>Template and Standard Template Library:</b> Template classes, declaration, template Functions, namespace, string, iterators, hashes, iostreams and other types.  <b>Revision and taking queries of students, Test, and Assignment</b>

## Lesson Plan

**Class – APGDCA**

**(Sem 2)Faculty - Ms.**

**Vandna**

**Subject – System Analysis and Design(APGDCA-**

**203) Lesson Plan Duration - From January 2024 to**

**May2024**

<b>Time Period</b>	<b>Topics</b>
<b>1Feb-29Feb</b>	Overview of system analysis and design. Definition and characteristics of a system, Elements of system, Types of system, system development life cycle, project selection, feasibility, analysis, design, implementation, testing and evaluation. <b>Revision and taking queries of student, Test and Assignment</b>
<b>1Mar-31Mar</b>	Project Selection : Source of Project requests, managing project review and selection, preliminary investigation. Feasibility Study : Technical and economical feasibility, cost and benefit analysis System requirement specification and Analysis : Fact finding techniques, Data flow diagrams, data dictionaries, process organization and interactions, Decision analysis, decision trees and table <b>Revision and taking queries of student, Test and Assignment</b>
<b>1Apr-31Apr</b>	System Design: System design objective, Logical and physical design, Design Methodologies, structured design, Form-Driven methodology(IPO charts), structured walkthrough, Input/Output and form design: Input design, Objectives of input design, Output design, Objectives of output design, Form design, Classification of forms, requirements of form design, Types of forms, Layout considerations, Form control. <b>Revision and taking queries of student, Test and Assignment</b>
<b>1May-31May</b>	System testing: Introduction, Objectives of testing, Test plan, testing techniques/Types of system tests, Quality assurance goals in system life cycle, System implementation, Process of implementation, System evaluation, System maintenance and its types, System documentation, Forms of documentation. <b>Revision and taking queries of student, Test and Assignment</b>

## Lesson Plan

**Class –Msc 4<sup>th</sup> Sem**

**Faculty - Ms. Monica Rathee**

**Subject -MULTIMEDIA and Its Applications 17MCS24DA3**

**Lesson Plan Duration - From February 2024to May 2024**

Time Period	Topics
<b>1 February-29 February</b>	<p>Definition of multimedia, Multimedia Basics, Where to use Multimedia, Multimedia Elements, Multimedia Application, Evolving Technologies For Multimedia Systems: Hypermedia Documents; Hypertext - Hyper Speech - HDTV and UDTV, 3D Technology, Multimedia Software: Overview of Multimedia Software Tools - Open Source Replacements - <b>Assignment1</b>- Multimedia Authoring - Some Useful Editing and Authoring Tools - VRML.</p> <p><b>Revision and taking queries of student, Test and Assignment</b></p>
<b>1 March-31 March</b>	<p>Text, Image and Sound Fundamentals: About Fonts and Face, Hypermedia and Hypertext. Images: Making Still Images, Bitmaps - 1 bit images - 8-bit gray level images - 8-bit color images- Dithering24 bit color images- Vector Drawing - Vector-Drawn Objects vs. Bitmaps. Sound: MIDI Audio - MIDI vs. Digital Audi; Multimedia System Sounds; Adding Sound to Your Multimedia Project, Audio Recording, Animation: The Power of Motion- Principles of Animation - Animation by Computer - Animation Techniques, Types of Animation.</p>
<b>1 April-30April</b>	<p>- Assignment2-Data Compression: Need for Data compression - General Data compression Scheme - Compression standards - Non-lossy compression for images - Lossy compression for Photographs and video, Hardware Vs Software Compression, : Basics of Binary image compression Data and File Format Standards: Popular File Formats - RTF, RIFF, GIF, PNG, TIFF, MIDI, JPEG, JFIF, Assignment3-AVI,WAV, BMP,WMF, MIX, MPEG standards - TWAIN.</p> <p><b>Revision and taking queries of student, Test and Assignment</b></p>
<b>1May-30 May</b>	<p>Multimedia input/output Technologies: Limitations of Traditional input devices test unit-3 Multimedia input output devices - PEN input - Working of Electronic Pen - Video and image display systems - Video display technology standards; CRT - display terminology, Flat panel display system. Making Multimedia: The Stages of a Multimedia Project, Creativity, Organization, Communication - Hardware - Software - Text Editing and Word Processing Tools - OCR Software - Painting and Drawing Tools, 3-D Modeling and Animation, Authoring Systems - Making Instant Multimedia - Types of</p>

## Lesson Plan

**Class -B Sc. Part-I/II/III with Computer Science as a Subject.**

**Faculty - Ms. Monica Rathee**

**Subject -**Programming in C and Structured Systems Analysis and Design

**Lesson Plan Duration - From January 2024 to April 2024**

Time Period	Topics
<b>1January-31January</b>	<p>Basic concepts of programming, techniques of problem solving, algorithm designing and flowcharting, concept of structured programming-Top-Down design, Development of efficient program;</p> <p>Introduction to system, Definition and characteristics of a system, Elements of system, Types of system,</p> <p>System development life cycle, Role of system analyst, Analyst/user interface, System planning and initial investigation:</p> <p>Program correctness; Debugging and testing of programs, Algorithm for searching, sorting(Insertion, Exchange), Merging of Order-List, Introduction, Bases for planning in system analysis, Sources of project requests, Initial investigation, Fact finding, Information gathering, information gathering tools. Test1.</p> <p>. Overview of C</p> <p>Assignment1</p> <p><b>Revision and taking queries of student, Test and Assignment</b></p>
<b>1February-29February</b>	<p>: History of C, Importance of C, Structure of a C Program Elements of C: Ccharacter set, identifiers and keywords, Data types: declaration and definition.</p> <p>- Structured analysis, Tools of structured analysis: DFD, Data dictionary, Flow charts, Gantt charts, decision tree, decision table, structured English, Pros and cons of each tool, Feasibility study: Introduction, Objective, Operators:</p>

	<p>Arithmetic, relational, logical, bitwise, unary, assignment and conditional operators and their hierarchy &amp; associativity, input/output statements, Arithmetic Expression, Evaluation of Arithmetic Expression, Type-casting and Conversion, Types,</p> <p><b>Revision and taking queries of student, Test and Assignment</b></p>
<b>1March-31March</b>	<p>Steps in feasibility analysis, Feasibility report, Oral presentation, Cost and benefit analysis:</p> <p>Identification of costs and benefits, classification of costs and benefits, Methods of determining costs and benefits, Interpret results of analysis and take final action. Test2</p> <p>System Design: System design objective, Logical and physical design, Design Methodologies, structured design, Form-Driven methodology(IPO charts), structured walkthrough, Input/Output and form design:</p> <p>Decision making &amp; branching: Decision making with if statement, if-else statement, nested if, else-if ladder, switch statement, goto statement. Assignment2</p> <p>Input design, Objectives of input design, Output design, Objectives of output design, Form design,</p> <p>Classification of forms, requirements of form design, Types of forms, Layout considerations, Form control. Assignment3</p>
<b>1April-30 April</b>	<p>Decision making &amp; looping: for, while, and do-while loop; Jumps in loop, break, continue. Functions: Definition, prototype, passing parameters, Recursion.</p> <p>System testing: Introduction, Objectives of testing, Test plan, testing techniques/Types of system tests,</p> <p>Quality assurance goals in system life cycle, System implementation, Process of implementation, System evaluation, System maintenance and its types, System documentation, Forms of documentation.</p> <p>Pointers: Declaration, operations on pointers, array of pointers, pointers to arrays.</p> <p>Data Structures:</p> <p>Arrays: One Dimensional, Multidimensional, Pointers and arrays. Test3</p> <p>.</p> <p>Strings: String Constants, Input &amp; Output, String Functions. Structure &amp; Unions. File Handling: Standard I/O text File, Writing to File,</p> <p><b>Revision and taking queries of student, Test and Assignment</b></p>

## Lesson Plan

**Class - APGDCA (Sem. 2)**

**Faculty - Ms. Navita**

**Subject - Visual C++**

**Lesson Plan Duration - From February 2024 to May 2024**

<b>Time Period</b>	<b>Topics</b>
<b>1 February-29 February</b>	Visual C++ Basic: Introduction, Building a Basic Application, SDI and MDI. Writing text and drawing graphics, Message boxes, Keyboard and its messages, mouse and its messages, Visual C++ Resources Creating Icons, Cursor and Bitmaps, Menu and Accelerators, Toolbar, Status bar. Revision and taking queries of student, Test Menu and Accelerators, Toolbar, Status bar. <b>Revision and taking queries of student, Test and Assignment</b>
<b>1 March-31 March</b>	Programs in Visual C++, Introduction to Child Window Controls. Check boxes, buttons, list box Programs on button and list box, Static Control, Combo box, Edit box, Scroll bars. Dialog Box: model and modeless dialog box, mechanism of dialog box, Property page and property sheet, <b>Revision and taking queries of student, Test, Assignment</b>
<b>1 April-30 April</b>	Advance Window Controls: Toolbars up down controls, Spin control, Progress bar, Tree view, Tab controls, Tool tip, Slider control, image list control. Revision and taking queries of student, Assignment, Test, Clipboard Drag and Drops, <b>Revision and taking queries of student, Test and Assignment</b>
<b>1 May-30 May</b>	Advance features of Windows Programming GDI Metafiles Sound API, DLL, Revision and taking queries of student, Test, Assignment <b>Revision and taking queries of student, Test and Assignment</b>

## Lesson Plan

**Class - BCA (Sem. 2) 106**

**Faculty - Ms. NAVITA**

**Subject – C Programming**

**Lesson Plan Duration - From January 2024 to April 2024**

Time Period	Topics
<b>1January-31January</b>	Overview of C: History of C, Importance of C, Elements of C: C character set, identifiers and keywords, Data types, Constants and Variables, Assignment statement, Symbolic constant, Structure of a C Program, printf(), scanf() Functions, Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment, shorthand assignment operators, conditional operators and increment and decrement operators, Arithmetic expressions, evaluation of arithmetic expression, type casting and conversion, operator hierarchy & associativity, <b>Revision and taking queries of student, Test and Assignment</b>
<b>1February-29February</b>	Decision making & branching: Decision making with IF statement, IF-ELSE statement, Nested IF statement, ELSE-IF ladder, Switch statement, GoTo statement. Decision making & looping: For, while, and do-while loop, Jumps in loops, break, continue statement, Nested loops, Functions: Standard Mathematical functions, Input/output: Unformatted & formatted I/O function in C, Input functions viz. getch(),getche(), getchar(), gets() ,output functions viz., putchar(), puts(),string manipulation functions, User defined functions: Introduction/Definition <b>Revision and taking queries of student, Test and Assignment</b>
<b>1March-31March</b>	String manipulation functions, User defined functions: Introduction/Definition, Function prototype, Local and global variables, passing parameters, recursion, Arrays, strings and pointers: Definition, types, initialization, processing an array Passing arrays to functions, Array of Strings. String constant and variables, Declaration and initialization of string, Input/output of string data, Introduction to pointers, Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime <b>Revision and taking queries of student, Test and Assignment</b>
<b>1April-30 April</b>	Algorithm development, Flowcharting and Development of efficient program in C, <b>Revision and taking queries of student, Test and Assignment</b>

## Lesson Plan

**Class – BCA-107**

**Faculty - neha**

**Subject - Logical Organization of Computer-II**

**Lesson Plan Duration - From February 2024 to May 2024**

<b>Time Period</b>	<b>Topics</b>
<b>1<sup>st</sup> January – 31<sup>st</sup> January</b>	Sequential Logic: Characteristics, Flip-Flops, Clocked RS, D type, JK, T type and Master- Slave flip-flops. State table, state diagram and state equations. Flip-flop excitation tables
<b>1<sup>st</sup> Feb – 29<sup>th</sup> Feb</b>	Sequential Circuits: Designing registers – Serial Input Serial Output (SISO), Serial Input Parallel Output (SIPO), Parallel Input Serial Output (PISO), Parallel Input Parallel Output (PIPO) and shift registers. Designing counters – Asynchronous and Synchronous Binary Counters, Modulo-N Counters and Up-Down Counters
<b>1<sup>st</sup> March – 31<sup>st</sup> March</b>	Memory & I/O Devices: Memory Parameters, Semiconductor RAM, ROM, Magnetic and Optical Storage devices, Flash memory, I/O Devices and their controllers.
<b>1<sup>st</sup> April to 30<sup>th</sup> April</b>	Instruction Design & I/O Organization: Machine instruction, Instruction set selection, Instruction cycle, Instruction Format and Addressing Modes. I/O Interface, Interrupt structure, Program-controlled, Interrupt-controlled & DMA transfer, I/O Channels, IOP. <b>Revision, Presentations</b>

## Lesson Plan

**Class – B.sc Math Hons(Sem. 4)**

**Faculty - neha**

**Subject – data structure**

**Lesson Plan Duration - From January 2024 to April 2024**

Time Period	Topics
<b>1<sup>st</sup> January – 31<sup>st</sup> January</b>	Data structure and its essence, Data structure types. Linear and list structures: Arrays, stacks, queues and lists; Sequential and linked structures; Simple lists, circular lists, doubly linked lists. Inverted lists, threaded lists, Operations on all these structures and applications.
<b>1<sup>st</sup> Feb – 29<sup>th</sup> Feb</b>	Arrays, Multidimensional arrays, sequential allocation, address calculations, sparse arrays. Tree structures: Trees, binary trees and binary search trees. Implementing binary trees, Tree traversal algorithms, threaded trees, trees in search algorithms, AVL Trees
<b>1<sup>st</sup> March – 31<sup>st</sup> March</b>	Graph data structure and their applications. Graph traversals, shortest paths, spanning trees and related algorithms. Family of B-Trees: B-tree, B*-Trees, B+ Trees
<b>1<sup>st</sup> April to 30<sup>th</sup> April</b>	Sorting: Internal and External sorting. Various sorting algorithms, Time and Space complexity of algorithms. Searching techniques and Merging algorithms. Applications of sorting and searching in computer science. <b>Revision, Presentations</b>

**Name of Assistant Professor: Dr. Subita Kumari**

**Class and Section: M.Sc 2<sup>nd</sup> Sem**

**Subject: Object Oriented Programming Using C++**

**Paper Code:**

**16MCS22C2**

**Lesson Plan:** 15 Weeks (1<sup>st</sup> Jan. 2024 to 30<sup>th</sup> April 2024)

<b>Week1</b>
Object Oriented Programming Concepts: Procedural Language and Object, Oriented Approach. Characteristics of OOP: Objects, classes, Encapsulation, Data Abstraction, Inheritance, Polymorphism, Dynamic Binding, Message Passing , Revision and assignment related to above topics
<b>Week2</b>
Presentation of students, Structure of C++ program: Data-types, Variables, Static Variables, Operators in C++,Arrays, Strings , Test of Unit 1
<b>Week3</b>
Structure,Functions,Recursion,ControlStatements,Classes:Class,object, Memory Allocation for objects, Memory layout of objects, Revision and assignment related to above topics
<b>Week4</b>
Private, public, protected member functions, static members. Presentation, Revision and assignment related to above topics
<b>Week5</b>
Constructors: Features, types, dynamic constructor, Parameterized constructors; destructors.,Test 2
<b>Week6</b>
Memory management:Dynamic Memory allocation: new, delete, Object Creation at RunTime; This Pointer.
<b>Week7</b>

Inheritance: Derived Class and Base Class, Different types of Inheritance, Problem Discussion
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<b>Week8</b>
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Overriding member function, Public and Private Inheritance, Ambiguity in Multiple inheritance, Virtual Inheritance, Abstract Class. Problem Discussion
<b>Week9</b>
Polymorphism: Definition, operator overloading, Overloading Unary and Binary Operators, Test
<b>Week10</b>
Functionoverloading,Virtuallfunction,Friendfunction,Staticfunction, Exceptionhandling:Throwing,Catching,Re-throwinganexception,specifying exceptions; processing unexpected exceptions;
<b>Week11</b>
Exceptions when handling exceptions,resourcecaptureandrelease, Templates:Introduction;Classtemplates;Functiontemplates;Overloadingoftemplate function,namespaces.
<b>Week12</b>
Introduction to STL: Standard Template Library: benefits of STL; containers, adapters, iterators, vector, lists., Problem discussion, Sessional
<b>Week13</b>
Revision of unit 1, 2 and test of unit 1,2
<b>Week14</b>
Revision of unit 3,4and test of unit 3,4
<b>Week15</b>
Sessional exam

## Lesson Plan

**Class - BCA 6<sup>TH</sup> SEM**

**Faculty - Ms. Ritika**

**Subject – Artificial Intelligence BCA(308)**

**Lesson Plan Duration - From January 2024 to April 2024**

<b>Time Period</b>	<b>Topics</b>
<b>1January-31January</b>	<b>Overview of A.I:</b> Introduction to AI, Importance of AI, AI and its related field, AI techniques, Criteria for success. <b>Problems,problem space and search:</b> Defining the problem as a state space search, Production system and its characteristics, Issues in the design of the search problem <b>Heuristic search techniques:</b> Generate and test, hill climbing, best first search technique ,problem reduction, constraint satisfaction <b>Revision and taking queries of student, Test and Assignment</b>
<b>1February - 29February</b>	<b>Knowledge Representation:</b> Definition and importance of knowledge, Knowledge representation, Various approaches used in knowledge representation, Issues in knowledge representation. <b>Using Predicate Logic:</b> Representing Simple Facts in logic, Representing instances and is relationship, Computable function and predicate.  <b>Revision and taking queries of student, Test and Assignment</b>
<b>1March-31March</b>	<b>Natural language processing:</b> Introduction syntactic processing, Semantic processing, Discourse and pragmatic processing. <b>Learning:</b> Introduction learning, Rote learning, Learning by taking advice, Learning in problem solving, Learning from example-induction, Explanation based learning. <b>Revision and taking queries of student, Test and Assignment</b>
<b>1April-30 April</b>	<b>Expert System:</b> Introduction,Representing using domain specific knowledge,Expert system shells <b>Revision and taking queries of student, Test and Assignment</b>

**Lesson Plan**

**Class - BCA 4<sup>TH</sup> SEM**

**Faculty - Ms. Ritika**

**Subject – Web Designing BCA(206)**

**Lesson Plan Duration - From January 2024 to April 2024**

<b>Time Period</b>	<b>Topics</b>
<b>1January-31January</b>	Introduction to Internet and World Wide Web; Evolution and History of World Wide Web; Basic features; Web Browsers; Web Servers; Hypertext Transfer Protocol, Overview of TCP/IP and its services; URLs; Searching and Web-Casting Techniques; Search Engines and Search Tools <b>Revision and taking queries of student, Test and Assignment</b>
<b>1February-29February</b>	Web Publishing: Hosting your Site; Internet Service Provider; Web terminologies, Phases of Planning and designing your Web Site; Steps for developing your Site; Choosing the contents; Home Page; Domain Names, Front page views, Adding pictures, Links, Backgrounds, Relating Front Page to DHTML. Creating a Website and the Markup Languages (HTML, DHTML) <b>Revision and taking queries of student, Test and Assignment</b>
<b>1March-31March</b>	Web Development: Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML command Tags; Creating Links; Headers; Text styles; Text Structuring; Text colors and Background; Formatting text; Page layouts <b>Revision and taking queries of student, Test and Assignment</b>
<b>1April-30 April</b>	Images; Ordered and Unordered lists; Inserting Graphics; Table Creation and Layouts; Frame Creation and Layouts; Working with Forms and Menus; Working with Radio Buttons; Check Boxes; Text Boxes; DHTML: Dynamic HTML, Features of DHTML, CSSP(cascading style sheet positioning) and JSSS(JavaScript assisted style sheet), Layers of netscape, The ID attributes, DHTML events. <b>Revision and taking queries of student, Test and Assignment</b>

### **Lesson Plan**

**Class – M.sc CS(Sem. 4)**

**Faculty - Sonia**

**Subject - Internet and Web Designing**

### Lesson Plan Duration - From February 2024 to May 2024

Time Period	Topics
<b>1<sup>st</sup> January – 31<sup>st</sup> January</b>	Introduction: Internet, Evolution of Internet, Types of Computer Network: LAN, WAN, MAN Internet Protocol, Internet Services, WWW, Working of Internet, Introduction to Intranet, DNS working, Configuring Internet Connection, Internet Connection Concepts, Connecting LAN to Internet; Client-Server environment: Single User, Multi User, Server, Workstation, Computer Network; Network Topologies; Network Protocols, E-Mail Concepts – Configuring E-Mail Program, Sending and Receiving Files through E-Mail, Fighting Spam, Sorting Mail, E-Mail mailing lists and avoiding E-Mail viruses.. Test and Assignment
<b>1<sup>st</sup> Feb – 29<sup>th</sup> Feb</b>	Searching and Web Casting Technique: Popular web servers, Web Browsers; basic features of browsers: bookmarks, cookies, progress indicators, customization of browsers, browsing tricks, next generation web browsing, search engines; Hypertext Transfer Protocol (HTTP), URL. Internet Tools: Online Chatting, Messaging, and Conferencing Concepts, Usenet newsgroup concepts: Reading usenet newsgroups, Instant messaging, Web-Based chat rooms and discussion boards, Voice and Video conferencing. Streamlining Browsing, Keeping track of Favorite Web Sites, Web Security, Privacy, and Site-Blocking.. Test of Unit 2
<b>1<sup>st</sup> March – 31<sup>st</sup> March</b>	Web Designing using HTML: Understanding HTML, XHTML Syntax and Semantics, HTML Elements: Paragraph, Lists, Tables, Images, Frames, Forms, Linking to other Web Pages: External and Internal linking, E-mail Links; Working with Background colors and Images; Marquee; Text Alignment and Text Formatting, Advanced Layout with Tables; Publishing HTML Pages.. Test of Unit 3
<b>1<sup>st</sup> April to 30<sup>th</sup> April</b>	Cascading Style Sheets: Introduction, Inline, Internal, External CSS, Linking CSS to Web Page. Client–Side Programming: Introduction to JavaScript, Basic Syntax, Variables and Data types, Statements, Operators, Literals, Functions, Objects, Arrays. XML: Relation

	between XML and HTML, Goals of XML, Structure and Syntax of XML, Well Formed XML, DTD and its Structure, tree structures in data organization, Searching with XPath. <b>Revision, Presentations</b>
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## Lesson Plan

**Class – B.sc Math Hons(Sem. 2)**

**Faculty - Sonia**

**Subject – Visual Basic**

**Lesson Plan Duration - From January 2024 to April 2024**

<b>Time Period</b>	<b>Topics</b>
<b>1<sup>st</sup> January – 31<sup>st</sup> January</b>	Visual Basic: Introduction, Analyzing, Data types, Variables, Constants, Controls and Properties. Control Structures: Conditional Statements, Loop Statements, Exit statement, Stop statement Arrays
<b>1<sup>st</sup> Feb – 29<sup>th</sup> Feb</b>	Text Boxes, Command Buttons, Labels, Additional Controls – List Box, ComboBox, Difference between ListBox and Combo Box, Option Buttons, Check Boxes, Frames, Scroll Bars, Timer Control Control Arrays, Procedures and Functions, SDI and MDI ApplicationsTest of Unit 2
<b>1<sup>st</sup> March – 31<sup>st</sup> March</b>	Menus: Menu Editor, Menu controls, Submenus, Popup Menus Common Dialog Controls: Color Dialog Box, Font Dialog Box, Open and Save as Dialog Box, Print Dialog Box, Help Dialog Box. Database Programming: Data Access Object, Data Binding, Data Control and Data Bound Controls, Database Object, Recordset Object, Field Object.. Test of Unit 3
<b>1<sup>st</sup> April to 30<sup>th</sup> April</b>	Crystal Reports:Introduction to Reports, Crystal Reports, Creating and Using a Report in VB Library Functions: Conversion functions, String functions, Numeric functions, Date and Time Functions. <b>Revision, Presentations</b>

## Lesson Plan

**Class – BCA 4<sup>TH</sup> SEM**

**Faculty - Ms. Teena**

**Subject – SoftwareEngineering BCA(209)**

## Lesson Plan Duration - From February 2024 to May 2024

Time Period	Topics
<b>1 February-29 February</b>	<p><b>Introduction:</b> Software Crisis ,Software Processes &amp; Characteristics, Software lifecycle models, Waterfall, Prototype, Evolutionary and Spiral Models.</p> <p><b>Software Requirements Analysis &amp; Specifications:</b> Requirement engineering, requirement elicitation techniques like FAST, QFD, requirements analysis using DFD, Data dictionaries&amp;ERDiagrams,Requirementsdocumentation,NatureofSRS,Characteristics&amp; organization of SRS .</p> <p><b>Revision and taking queries of student, Test and Assignment</b></p>
<b>1 March-31 March</b>	<p><b>Software Project Management Concepts:</b> The Management spectrum, The People The Problem, The Process, The Project.</p> <p><b>Software Project Planning:</b> Size Estimation like lines of Code &amp; Function Count, Cost Estimation Models, COCOMO, Risk Management</p> <p><b>Revision and taking queries of student, Test and Assignment</b></p>
<b>1 April-30April</b>	<p><b>Software Design:</b> Cohesion &amp; Coupling, Classification of Cohesiveness &amp; Coupling, Function Oriented Design, Object Oriented Design, Software Metrics: Software measurements: What &amp; Why, Token Count, Halstead Software Science Measures, Design Metrics, Data Structure Metrics</p> <p><b>Software Implementation:</b> Relationship between design and implementation, Implementation issues and programming support environment, Coding the procedural design, Good coding style.</p> <p><b>Revision and taking queries of student, Test and Assignment</b></p>
<b>1May-30 May</b>	<p><b>Software Testing:</b> Testing Process, Design of Test Cases, Types of Testing, Functional Testing, Structural Testing, Test Activities, Unit Testing, Integration Testing and System Testing, Debugging Activities.</p> <p><b>Software Maintenance:</b> Management of Maintenance, Maintenance Process, Reverse Engineering, Software Re-engineering, Configuration Management, Documentation.</p> <p><b>Revision and taking queries of student, Test and Assignment</b></p>

# Lesson Plan

Class - BCA 6<sup>TH</sup> SEM

Faculty - Ms. Teena

Subject – Artificial Intelligence BCA(308)

Lesson Plan Duration - From January 2024 to April 2024

Time Period	Topics
1January-31January	<b>Overview of A.I:</b> Introduction to AI, Importance of AI, AI and its related field, AI techniques, Criteria for success. <b>Problems,problem space and search:</b> Defining the problem as a state space search, Production system and its characteristics, Issues in the design of the search problem <b>Heuristic search techniques:</b> Generate and test, hill climbing, best first search technique ,problem reduction, constraint satisfaction <b>Revision and taking queries of student, Test and Assignment</b>
1February - 29February	<b>Knowledge Representation:</b> Definition and importance of knowledge, Knowledge representation, Various approaches used in knowledge representation, Issues in knowledge representation. <b>Using Predicate Logic:</b> Representing Simple Facts in logic, Representing instances and is relationship, Computable function and predicate. <b>Revision and taking queries of student, Test and Assignment</b>
1March-31March	<b>Natural language processing:</b> Introduction syntactic processing, Semantic processing, Discourse and pragmatic processing. <b>Learning:</b> Introduction learning, Rote learning, Learning by taking advice, Learning in problem solving, Learning from example-induction, Explanation based learning. <b>Revision and taking queries of student, Test and Assignment</b>
1April-30 April	<b>Expert System:</b> Introduction, Representing using domain specific knowledge, Expert system shells <b>Revision and taking queries of student, Test and Assignment</b>

## Lesson Plan

**Class – B.SC 4<sup>TH</sup> SEM**

**Faculty - Ms. Teena**

**Subject – Operating System**

**Lesson Plan Duration - From January 2024 to April 2024**

<b>Time Period</b>	<b>Topics</b>
<b>1January-31January</b>	Introductory Concepts: Operating system functions and characteristics, historical evolution of operating systems, types of Operating System: Real time, Multiprogramming, Multiprocessing, Batch processing, Methodologies for implementation of O/S service system calls, system programs. <b>Revision and taking queries of student, Test and Assignment.</b>
<b>1February - 29February</b>	Process management: Process concepts, operations on processes, Process states and Process Control Block. CPU Scheduling: Scheduling criteria, Levels of Scheduling, Scheduling algorithms, Multiple processor scheduling. Deadlocks: Deadlock characterization, Deadlock prevention and avoidance. <b>Revision and taking queries of student, Test and Assignment</b>
<b>1March-31March</b>	Concurrent Processes: Critical section problem, Semaphores, Classical process co-ordination problems and their solutions, Inter-process Communications. Storage Management :memory management of single-user and multi-user operating system, partitioning, swapping, paging and segmentation, Thrashing. <b>Revision and taking queries of student, Test and Assignment</b>
<b>1April-30 April</b>	<b>File management: File Systems: Functions of the system, File access methods, And allocation methods: Contiguous, allocation, linked, indexed allocation, Directory Systems: Structured Organizations, directory and file protection mechanisms.</b> <b>Revision and taking queries of student, Test and Assignment</b>

## Lesson Plan

**Class - APGDCA (Sem. 2)**

**Faculty - Dr. Subita Kumari**

**Subject - VISUAL BASIC & ORACLE**

**Lesson Plan Duration - From February 2024 to May 2024**

<b>Time Period</b>	<b>Topics</b>
<b>1<sup>st</sup> February – 29<sup>th</sup> February</b>	Introduction to Visual Basic, Analyzing Controls and Properties, Coding, Loops, Dialog Boxes, Additional Controls- Option Buttons, Frames, Check Boxes, Scroll Bars, Timer Control, Procedures and Functions, Using Debugging Windows, Database Programming, Crystal Reports. Simple Active X controls. Test and Assignment
<b>1<sup>st</sup> March – 31<sup>st</sup> March</b>	Introduction to Oracle: Overview of RDBMS , Modules of Oracle, Invoking SQLPLUS, Data types, Data Constraints, Operators, Data manipulation - Create, Modify, Insert, Delete and Update, Searching, Matching and Oracle Functions. Test of Unit 2
<b>1<sup>st</sup> April to 30<sup>th</sup> April</b>	SQL*Forms Basic concepts, Form Construction, Creating default form, user-defined form, multiple-record form, Master-detail form , PL/SQL syntax, Data types, PL/SQL functions, Error handling in PL/SQL, package functions, package procedures, Oracle transactions, SQL*Report Writer : Selective dump report, Master-detail Report, Control-break Report, Test report , Various menu styles, using pull-down & bar-menu, Authorisation of SQL*Menu, Creating Oracle Menu, Granting Role Access, Generating & Executing Applications. Test of Unit 3
<b>1<sup>st</sup> May to 30<sup>th</sup> May</b>	Database Triggers Vs. Declarative Integrity Constraints, How to apply Triggers? BEFORE Vs. AFTER Trigger Combinations, Creating a Trigger, Dropping a Trigger. Export/Import, SQL*Loader. <b>Revision, Presentations</b>

**Name of Assistant Professor: Ms. Suman Ahlawat**

**Class and Section: M.Sc. 2<sup>nd</sup> Sem(Computer Sc.)**

**Subject: Computer Networks**

**Paper Code: 16MCS22C4**

**Lesson Plan:****Jan 2024 to April 2024**

<b>January 2024</b>
Introduction to Computer Network , Types of Networks, Network Topologies, Define OSI Model, Define TCP Model, Reference Models, Comparison of Models, Define Data Communication, Problems related to above topics
<b>February 2024</b>
Digital Vs. Analog Communication, Parallel and Serial Communication, Synchronous and Asynchronous Communication, Isochronous Communication, Communication modes, simple, half duplex, full duplex ,Multiplexing and De-Multiplexing, Transmission Media: Wired Twisted Pair, Coaxial Cable, Optical Fiber Cable, Wireless Transmission(Terrestrial, Microwave), Wireless Transmission(Satellite, Infra red), Communication Switching Techniques(Circuit, Message Switching), Communication Switching Techniques(Packet Switching) Problems, Discussion and Assignment related to above topics
<b>March 2024</b>
Concept of Data Link Layer and its Framing, Basics of Error Detection, Forward Error Correction, Cycle Redundancy, Check Codes for Error Detection, Flow Control, Test(Unit-I), Define Media Access Protocols(ALOHA), Carrier Sense Multiple Access(CSMA), CSMA With Collision Detection, Token Ring, Token Bus, Define Bluetooth, Define Network Layer, IP Addressing and Routing, Network Layer Protocols(IP v4), ARP Protocol, Test(Unit-II), Define ICMP(Error Reporting and Query Message), Define IPv6(Header Format and Addressing), Problems and Discussion related to above topic, Assignments related to Models

April 2024

Define Transport Layer, Define Process-to-Process Delivery, Oral Test, UDP, Define TCP, Connection Management by TCP, Basics of Congestion Control, Congestion Control, , Assignments related to Network Layer, Define Application Layer, Define SMTP, HTTP, WWW, Network Security , Network Security Requirements, Security Attacks, Cryptography, Cryptography, Symmetric Key(DES), Symmetric Key(AES), Public Key Cryptography(RSA), Problems and Discussion related to above topic, Revision and Test Presentation, Sessional and Viva-Voce

**Name of Assistant Professor:** Ms. Suman Ahlawat

**Class and Section:** BCA 2<sup>ND</sup> SEM (Computer Sc.)

**Subject:** Structured System Analysis and Design

**Paper Code:** APGDCA 203

**Lesson Plan:** Jan 2024 to April 2024

<b>January 2024</b>
Introduction to system, Definition and characteristics of a system, Elements of system, Types of system, System development life cycle, Role of system analyst, Analyst/user interface, System planning and initial investigation: Introduction, Bases for planning in system analysis, Sources of project requests, Initial investigation, Fact finding, Information gathering, information gathering tools, Fact analysis, Determination of feasibility, Problems discussion, Assignment and Test related to above topics
<b>February 2024</b>
Structured analysis, Tools of structured analysis: DFD, Data dictionary, Flow charts, Gantt charts, decision tree, decision table, structured English, Pros and cons of each tool, Feasibility study: Introduction, Objective, Types, Steps in feasibility analysis, Feasibility report, Oral presentation, Cost and benefit analysis: Identification of costs and benefits, classification of costs and benefits, Methods of determining costs and benefits, Interpret results of analysis and take final action. Problems discussion, Assignment and Test related to above topics
<b>March 2024</b>
System Design: System design objective, Logical and physical design, Design

Methodologies, structured design, Form-Driven methodology(IPO charts), structured walkthrough, Input/Output and form design: Input design, Objectives of input design, Output design, Objectives of output design, Form design, Classification of forms, requirements of form design, Types of forms, Layout considerations, Form control. Problems discussion, Assignment and Test related to above topics

**April 2024**

System testing: Introduction, Objectives of testing, Test plan, testing techniques/Types of system tests, Quality assurance goals in system life cycle, System implementation, Process of implementation, System evaluation, System maintenance and its types, System documentation, Forms of documentation. Problems discussion, Assignment and Test related to above topics  
Presentation, Sessional and Viva-Voce

**Name of Assistant Professor: Ms. Suman Ahlawat**

**Class and Section: M.Sc 2<sup>ND</sup> SEM (Computer Sc.)**

**Subject: Software Lab**

**Paper Code: 16MCS22CL**

Practical Syllabus will be met as per schedule of concerned theory paper i.e. based on 16MCS22C1 and 16MCS22C2

GOVT. P.G. COLLEGE FOR WOMEN, ROHTAK

DEPT. OF ENGLISH

LESSON PLAN (2022-23)

CLASS: BA III English Hons. Sem 5

Paper: English Poetry (1798-1914)

Teacher: Dr. Kiran Sharma

Week	Month	Topics
Week1	July	Defining poetry, detailed description of romantic poetry and poets. Introduction to William Wordsworth and his works. Explanation of 'Lines Written in Early Spring'.
Week2	August	Explanation of 'Composed Upon Westminster Bridge' Explanation of 'London 1802' Discussion on questions.
Week3	August	Introduction to John Keats and his works. Characteristics of his poetry. Introduction to 'Ode to Autumn'.
Week4	August	Explanation of 'Ode to Autumn' and 'La Bella Dame Sans Merci'.
Week5	August	Introduction to P.B. Shelley and his works. Explanation of 'Ode to the West Wind'.
Week6	August	Explanation of 'England in 1819'. Discussion of questions.
Week7	September	Introduction to Lord Byron and his works. Explanation of 'She Walks in Beauty'.
Week8	September	Explanation of 'Written after Swimming from Sestos to Abydes'. Discussion of questions.
Week9	September	Introduction of Robert Browning and his works.
Week10	September	Explanation of 'Porphyria's Lover' and 'My Last Duchess'.
Week11	October	Discussion on questions based on Browning's poems.
Week12	October	Introduction to Matthew Arnold and his works. Explanation of 'Dover Beach'.
Week13	October	Explanation of 'Memorial Verses April, 1850' Discussion on questions.

Week14	October	Test and submission of assignments.
Week15	November	Presentations by students
Week16	November	Revision
Week 17	November	Revision

## Govt PG College for Women, Rohtak

### BA III ENGLISH HONS (SEMESTER V)

Name: **Deeksha**

Subject: **English**

Paper: **English Novel**

Session: **2023-24**

Sr No	Week	Topic
1	JULY 1	Introduction to the Novel – postmodern novel, themes, critics, plot and setting.
2	AUG 2	Introduction to the author and the text - Thomas Hardy and <i>The Mayor of Casterbridge</i> Historical and political context, autobiographical context, plot, setting, characters and critics.
3	AUG 3	Reading and Critical Analysis of the text chapters 1-6 and queries
4	AUG 4	Reading and Critical Analysis of the text chapters 7-21 and queries
5	AUG 5	Reading and Critical Analysis of the text chapters 22-31 and queries
6	AUG 6	Reading and Critical Analysis of the text chapters 32-45 and queries
7	SEP 7	Introduction to the author and the text – H.G. Wells and <i>The Time Machine</i> Historical-political and scientific contexts, autobiographical contexts, plot, setting, characters and critics.
8	SEP 8	Reading and Critical Analysis of the text chapters 1-6 and queries
9	SEP 9	Reading and Critical Analysis of the text chapters 7-12, Epilogue and queries
10	SEP 10	Introduction to the author and the text – Elizabeth Gaskell and <i>Mary Barton</i> Historical-political and scientific contexts, autobiographical contexts, plot, setting, characters and critics.
11	OCT 11	Reading and Critical Analysis of the text chapters 1-10 and queries
12	OCT 12	Reading and Critical Analysis of the text chapters 11-21 and queries
13	OCT 13	Reading and Critical Analysis of the text chapters 22-30 and queries
14	OCT 14	Reading and Critical Analysis of the text chapters 31-38 and queries

15	NOV 15	Revision through presentations
16	NOV 16	Revision through presentations
17	NOV 17	Revision through presentations

## GOVERNMENT PG COLLEGE FOR WOMEN, ROHTAK

Teacher: Ms. Sushma

Class: BA III English Prose

Paper: English Prose (1798-1814)

Semester: 5

Week 1. (July) Introduction to the concept of Feminism, feminine, feminist and genesis of these concepts. Historical, political, religious, social and economic aspects and interpretation of Feminism

Week 2. (August) 20th century feminism, description of first wave suffragette movement etc.

Week 3. (August) Introduction to the first prescribed text i.e. Mary Wollstonecraft's 'A Vindication of the Rights of Women'. Contemporary issues co-related to the essay discussed by giving examples of JC Rousseau, Kate Millett, Margaret Fuller, Toril Moi etc.

Week 4. (August) Textual interpretation and appreciation of the text. Comparative study of text with other writers like Virginia Woolf, JS Mill, Sandra Gilbert and Susan Gubar.

Week 5. (August) Discussion on second prescribed text i.e. 'Prevailing Opinion of a Sexual Character' Discussion of key words like ephemeron triflers, frail mother etc.

Week 6. (August) Critical interpretation of the text

Week 7. (September) Introduction to Victorian literature and characteristics. Introduction to JS Mill with contemporary social, religious, political and literary features.

Week 8. (September) Elaboration on key words like liberation, utilitarianism, collective mediocrity, women question, law of force etc. Co- relation of feministic aspects to utilitarianism approach.

Week 9. (September) Critical interpretation of the prescribed text

Week 10. (September) Introduction to the prescribed text 'Silly Novels by Lady Novelists' by George Eliot.

Week 11. (October) Biographical, Literary and contemporary characteristics of the writer.

Week 12. (October) Critical interpretation of the text

Week 13. (October) Introduction to the prescribed text 'From Science and Culture' by T. H. Huxley

Week 14. (October) of key words like Darwinism, Humanism, etc.

Week 15. (November) Critical interpretation of the text

Week 16. (November) Revision and submission of assignments

Week 17. (November) Revision

**Government PG College for Women, Rohtak Session  
2023-2024**

**Lesson Plan from July-2023 to November 2024**

**Class–BA-II, English Hons. Sem-III [Odd Sem.]**

**Paper-History of English Literature**

**Teacher's Name: Dr. Minakshi      Department**

**of English**

<b>Week</b>	<b>Month</b>	<b>Topics</b>
<b>1</b>	<b>July</b>	Introduction to The History OF English Literature The Anglo saxon period(450-1066 A.D.)
<b>2</b>	<b>August</b>	Political & Social Background of Anglo-Saxon period Literary Works
<b>3</b>	<b>August</b>	Political & Social Background of Anglo-Norman Period Feudalism & Its characteristics
<b>4</b>	<b>August</b>	Literary Works-The Owl and the nightingale, Cursor Mundi, Pearl, Purity, Patience and Sir Gawain & the Green Knight Hundred Years War
<b>5</b>	<b>August</b>	The Age of Chaucer Literary Authors: William Langland, John Gower, Chaucer
<b>6</b>	<b>August</b>	Literary Works -Piers Plowman, Speculum Mediantis, The Book of Duchess, The House of Fame, Trolius Criseyde, The Canterbury Tales
<b>7</b>	<b>September</b>	Humanism and its features and its influence on English Characteristics of Renaissance in England 'Utopia' by Thomas More
<b>8</b>	<b>September</b>	Revision & Test
<b>9</b>	<b>September</b>	Assignment
<b>10</b>	<b>September</b>	Renaissance poetry – Thomas Wyatt, Earl of Surrey, Spenser's 'The Shepherd Calendar', Sackville's 'Mirror for Magistrate', Marlowe's 'Hero and Leander', Sidney's 'Astrophel and Stella'
<b>11</b>	<b>October</b>	Revision
<b>12</b>	<b>October</b>	Renaissance Criticism

		Origin and development of English comedy till Shakespeare Contribution of university wits, Characteristics of the plays of the university wits
<b>13</b>	<b>October</b>	English romance and pamphleteers during the Elizabethan age Renaissance prose fiction
<b>14</b>	<b>October</b>	Shakespearean tragedy, Characteristic, features of Shakespearean tragedy Character writers of 17 <sup>th</sup> century
<b>15</b>	<b>November</b>	Test
<b>16</b>	<b>November</b>	John Milton and Works – ‘Ode on the morning of Christ nativity’, Lycidas, Paradise lost, Paradise regained, Samson Agonistes
<b>17</b>	<b>November</b>	The Metaphysical poetry, Its main practitioners Elements of decadence in Jacobean drama, its main practitioner The Cavalier Poets of Renaissance

**Government PG College for Women, Rohtak**

**Session 2023-2024**

**Lesson Plan from July -2023 to November 2023**

**Class – BA-II, English Hons. Sem -III [Odd Sem.]**

**Paper – XVII**

**Teacher Name: Dr. Jyoti Hooda**

**English Poetry (1350-1660)**

**Department of English**

<b>Week</b>	<b>Month</b>	<b>Topics</b>
<b>1</b>	<b>July            Unit - 1</b>	Introduction to Chaucer and his Poetry
<b>2</b>	<b>August</b>	Prologue to Canterbury Tales
<b>3</b>	<b>August</b>	The Words of the Host to the Company
<b>4</b>	<b>August</b>	Prologue to the Lawer's Tale
<b>5</b>	<b>August            Unit-2</b>	My Mind to Me a Kingdom is
<b>6</b>	<b>August</b>	Youth and Age
<b>7</b>	<b>September</b>	The Passionate Shepherd to His Love They That have Power to Hurt & will Do None
<b>8</b>	<b>September</b>	Fain, Would I Wed
<b>9</b>	<b>September</b>	Let not Old Age Disgrace my High Desire
<b>10</b>	<b>September</b>	Amoretti LXXV: One Day I Wrote Her Name
<b>11</b>	<b>October</b>	Presentations and Assignments
<b>12</b>	<b>October            Unit - 3</b>	Air and Angels
<b>13</b>	<b>October</b>	O! Might Those Sighs and Tears Return Again
<b>14</b>	<b>October</b>	Elegy 1: Jealousy
<b>15</b>	<b>November</b>	Elegy IX: The Autumnal
<b>16</b>	<b>November</b>	Sweetest Love, I do not Go
<b>17</b>	<b>November</b>	Poem: A Fever & Class Test

18	November	Revision
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**Note: This is tentative lesson Plan**

## GOVT. PG COLLEGE FOR WOMEN, ROHTAK

Lesson Plan: B.Sc Medical/Non-Medical (w.e.f. 24 July 2023 -24 Nov. 2023)

Book: Chronicles of Time ed. By Asha Kadyan

Teachers: Mrs. Jyoti Hooda, Mrs. Niti Ahlawat, Mrs. Minakshi & Mrs. Sonu

July	Week 1	Poem: Let me not to the marriage of true minds By: William Shakespeare
August	Week 2	Poem: Death be not Proud By: John Donne
	Week 3	Poem: On his Blindness By: John Milton
	Week 4	Poem: Retreat By: Henry Vaughan
	Week 5	Poem: Shadwell By: John Dryden
	Week 6	Poem: Know then Thyself By: Alexander Pope
September	Week 7	Poem: The Little Black Boy By: William Blake
	Week 8	Poem: Three years she grew... By: William Wordsworth
	Week 9	Poem: England 1819 By: PB Shelley
	Week 10	Poem: Crossing the Bar By: Alfred Lord Tennyson
October	Week 11	Translation from Hindi to English
	Week 12	Common Phrasal Verbs
	Week 13	Use of Preposition
	Week 14	Common Errors
November	Week 15	Common Errors
	Week 16	Paragraph Writing
	Week 17	Revision

## Govt PG College for Women, Rohtak

### BA III ENGLISH HONS (SEMESTER V)

Name: **Deeksha**

Subject: **English**

Paper: **English Novel**

Session: **2023-24**

Sr No	Week	Topic
1	JULY 1	Introduction to the Novel – postmodern novel, themes, critics, plot and setting.
2	AUG 2	Introduction to the author and the text - Thomas Hardy and <i>The Mayor of Casterbridge</i> Historical and political context, autobiographical context, plot, setting, characters and critics.
3	AUG 3	Reading and Critical Analysis of the text chapters 1-6 and queries
4	AUG 4	Reading and Critical Analysis of the text chapters 7-21 and queries
5	AUG 5	Reading and Critical Analysis of the text chapters 22-31 and queries
6	AUG 6	Reading and Critical Analysis of the text chapters 32-45 and queries
7	SEP 7	Introduction to the author and the text – H.G. Wells and <i>The Time Machine</i> Historical-political and scientific contexts, autobiographical contexts, plot, setting, characters and critics.
8	SEP 8	Reading and Critical Analysis of the text chapters 1-6 and queries
9	SEP 9	Reading and Critical Analysis of the text chapters 7-12, Epilogue and queries
10	SEP 10	Introduction to the author and the text – Elizabeth Gaskell and <i>Mary Barton</i> Historical-political and scientific contexts, autobiographical contexts, plot, setting, characters and critics.

11	OCT 11	Reading and Critical Analysis of the text chapters 1-10 and queries
12	OCT 12	Reading and Critical Analysis of the text chapters 11-21 and queries
13	OCT 13	Reading and Critical Analysis of the text chapters 22-30 and queries
14	OCT 14	Reading and Critical Analysis of the text chapters 31-38 and queries
15	NOV 15	Revision through presentations
16	NOV 16	Revision through presentations
17	NOV 17	Revision through presentations

GOVT. P.G. COLLEGE FOR WOMEN, ROHTAK

DEPT. OF ENGLISH

LESSON PLAN (2023-24)

CLASS: BA III HONS. SEM 5

PAPER: HISTORY OF ENGLISH LITERATURE (1798-1914)

ASSISTANT PROFESSOR: MRS. MEENU

BOOK PRESCRIBED: A NEW HISTORY OF ENGLISH LITERATURE BY DR. BHIM S. DAHIYA

Week 1 July: Discussion on history of English literature and introduction to socio- historic and political background of the Romantic period

Week 2 July: Poetry of Romantic Age

Week 3 August: Poetry of Romantic Age

Week 4 August: Prose writers of Romantic period

Week 5 August: Drama and Novel of the Romantic period

Week 6 Aug.- Sept.: Test and submission of assignments. Introduction to social, historical and political background to Victorian Age

Week 7 September: Poets of the Victorian Age

Week 8 September: Poets of the Victorian Age

Week 9 September: Prose writers of the Victorian Age

Week 10 September: Prose writers of the Victorian Age

Week 11 October: Novelists of the Victorian Age

Week 12 October: Novelists of the Victorian Age

Week 13 October: Drama of the Victorian Age

Week 14 October: Drama of the Victorian Age

Week 15 Oct.-Nov.: Literature of the Edwardian Period

Week 16 November: Test, presentations and submission of assignments

Week 17 November: Revision

## Govt PG College for Women, Rohtak

### BA II PASS COURSE LESSON PLAN 3<sup>RD</sup> SEM

TEACHERS: MS SAVITA THAKRAN, MS RENU SINGH, MS KIRAN SHARMA, MS SURAJMUKHI, MS JYOTI HOODA, MS TAMANNA

Subject:

**English**

Paper: **EN03**

Session: **2023-24**

Sr No	Week	Topic
1	JULY 1	Introduction to Poetry and explanation of different poetic forms and devices
2	AUG 2	Poetry and its forms
3	AUG 3	Reading and analysis of Sonnet XVIII by William Shakespeare
4	AUG 4	Critical analysis of the usage of different poetic devices in the sonnet Discussion of question answers and explanation of literary devices Grammar: Prefixes and Suffixes
5	AUG 5	Reading and critical analysis of Know Then Thyself by Alexander Pope Discussion of question answers Grammar: Introduction to Verb Patterns
6	AUG 6	Reading and critical analysis of <i>Elegy Written in a Country Churchyard</i> by Thomas Gray Discussion on the mood and context of the poem Grammar: Illustration of Verb Patterns
7	SEP 7	Reading and critical analysis of <i>Elegy Written in a Country Churchyard</i> by Thomas Gray Discussion on the mood and context of the poem Grammar: Exercise and Practice of Verb Patterns
8	SEP 8	Reading and critical analysis of <i>The World is Too Much with Us</i> by William Wordsworth and <i>Ode on a Grecian Urn</i> by John Keats. Discussion of question answers Grammar: Introduction to Clauses and its different types
9	SEP 9	Reading and critical analysis of <i>My Last Duchess</i> by Robert Browning Discussion on his style and poetic devices

10	SEP 10	Discussion of question answers Grammar: Illustration and exercise of Clauses Grammar: Prepositions I
11	OCT 11	Reading and critical analysis of <i>When You are Old</i> by W.B. Yeats Discussion of question answers Grammar: Introduction to Non-Finites: Gerund, its rules, and exercise
12	OCT 12	Reading and critical analysis of <i>Where the Mind is Without Fear</i> by Rabindranath Tagore Discussion of question answers and poetic devices and style Grammar: Introduction and illustration of Non-Finites: Infinitive, its rules, and exercise
13	OCT 13	Reading and critical analysis of <i>The Bangle Sellers</i> by Sarojini Naidu Discussion of question answers and poetic devices and Style Grammar: Practice of Non-Finites
14	OCT 14	Reading and critical analysis of <i>Another Woman</i> by Intiaz Dharker Discussion of question answers and poetic devices and style
15	NOV 15	Grammar: Practice of Non-Finites
16	NOV 16	Revision of Textbook Revision of Grammar
17	NOV 17	<b>Tests and submission of assignments</b>

## Lesson Plan B. A. I (Hons.) English – Odd Semester – Semester I Session 2023- 24

Name of Teacher: Renu

Course: Introduction to Fiction and Related Literary Terms

July	Week- 1	-Week- 2	- Week- 3	Week- 4. Introduction to the Course Unit I  2. Introduction to the Aspects of Fiction	Week- 5  Aspects of Fiction: 1 , 2,3
August	Unit-I  Aspects of Fiction 4,5,6 and	Unit I  Aspects of Fiction: 7 ,8, 9 and 10	Unit I  Aspects of Fiction: 11, 12 and 13	Unit I  Aspects of Fiction: Revision and Practice of Aspects of Fiction	Unit II  “A Rose for Emily” by William Faulkner
September	Unit- II ‘ A Rose For Emily’ continued for discussion	Unit II  “A & P” by John Updike	Unit II  “Araby” by James Joyce  Unit Test	Unit III  1. “Gimpel the Fool” by Isaac Bashevis Singer  2. Assignment Topics	Unit III  1. “Young Goodman Brown” by N. Hawthorn
October	Assignment Presentation	Unit III  “The Chrysanthemums” by John Steinbeck	Unit III  Assignment Presentation	Assignment Presentation	Unit IV  <i>The Sun Also Rises</i> by Ernest Hemingway :Introduction
November	Unit – IV The Sun Also Rises: Discussion	Unit IV  <i>The Sun Also Rises</i> : Discussion and Summing Up	Assignment Presentation	Discussion on various topics on all the units	

Govt P.G. College for women, Rohtak

Session- 2023-24

Dept of English

Lesson Plan -B.A. 1 Eng Hon's

Paper- Introduction to Poetry and Literary Terms

Sem - 1st (Odd)

Teacher- Mrs Savita Thakran

### **July 2023**

Week 1 Aspects of Poetry, Tone, Person in the Poem

### **August**

Week 2 Irony, Language and Diction

Week 3 Rhyme, Rhythm, Imagery

Week 4 Sound, Symbol and Myth

Week 5 Figures of Speech

Week 6 Poem- Out, Out

### **September**

Week 7 Poem- The Emperor of Ice Cream

Week 8 Poem-Batter My Heart

Week 9 Poem- The Chimney Sweeper

Week 10 Poem- The Bright Star

### **October**

Week 11 Poem- Reapers

Week 12 Poem- Atticus

Week 13 Poem- The Pulley

Week 14 Poem- The Unknown Citizen

### **November**

Week 15 Poem – The Second Coming

Week 16 Poem- The Country Music Star

Week 17 Revision

Govt P.G. College for women, Rohtak

Session- 2023-2024

Dept of English

Lesson Plan -B.A. 1 (Pass Course)

Sem - 1st (24 July-24 November)

Teachers- Ms. Minakshi, Ms. Niti Ahlawat, Ms. Meenu, Ms. Sonu, Ms. Sushma, Ms. Deeksha,  
Ms. Tamanna, Ms. Sonam.

## **July**

Week 1 Chapter -1 'Speech Sounds' with exercise

## **August**

Week 1 Chapter-2 'Choosing Our Universe' with exercise

Extended Grammar: ch-2- Noun, types of Noun, Subject-Verb

Agreement, Tense- Simple Present Tense

Week 2 Chapter 3 'Are Dams the Temples of Modern India' with Exercise Extended Grammar:

Pronoun, Types of Pronoun, Tense (Present Continuous)

Week 3 Revision chapter 1-3 and test

Week 4 Chapter 4 'The Generation Gap' with exercise

Week 5 Extended Grammar: Adjectives, Types of Adjectives and exercise

## **September**

Week 1 Chapter 5 'Language and National Identity' with exercise

Week 2 Extended Grammar: Verbs, Types of verbs and exercise

Week 3 Chapter 6 'Wounded Plants' with exercise

Extended Grammar: Adverbs, Types of Adverbs and exercise

Week 4 Revision chapter 5-6 and test

## **October**

Week 1 Chapter 7 'Playing the English Gentleman' with exercise

Week 2 Chapter 8 Extended Grammar: Past Tense with exercise 'Great Books Born Out of Great minds' with exercise

Week 3 Extended Grammar: Preposition with exercise

Week 4 Chapter 9 'The Responsibility of Young Men' with exercise

### **November**

Week 1 Extended Grammar: Conjunctions with exercise, Future Tense

Week 2 Chapter 10 'Bharat Mata' with exercise

Week 3 Extended Grammar: Interjections with exercise, Future tense

Revision and Test

Dept. of English

BA III PASS COURSE (SEMESTER 5)

Session: 2023-24

Teachers: Ms. Renu Hooda, Ms. Kiran Sharma, Ms. Surajmukhi Yadav, Ms. Sushma, Ms. Sonu, Ms. Tamanna

BOOK PRESCRIBED: Reading a Novel: Kanthapura

Week 1 July: Introduction to Novel, Novel and its forms

Week 2 July: Novel and its forms

Week 3 August : Indian English Novel, Introduction to the novel Kanthapura

Week 4 August: Reading and critical appreciation of chapter 1

Discussion of question answers

Explanation of literary devices

Week 5 August: Reading and critical appreciation of chapter 2,3

Discussion of question answers

Sentence and its types

Week 6 Aug.-Sept.: Reading and critical appreciation of chapter 4,5

Discussion of question answers

Sentence and its types

Week 7 September: Reading and critical appreciation of chapter 6,7

Discussion of question answers

Composition: Developing Hints into a paragraph and a story

Week 8 September: Reading and critical appreciation of chapter 8,9

Discussion of question answers

Composition: Developing Hints into a paragraph and a story

Week 9 September: Reading and critical appreciation of chapter 10,11

Discussion of question answers

Practice of Sentence and its types

Week 10 September : Reading and critical appreciation of chapter 12,13

Discussion of question answers

Practice of composition

Week 11 October : Reading and critical appreciation of chapter 14,15

Discussion of question answers

Week 12 October : Reading and critical appreciation of chapter 16,17

Discussion of question answers

Week 13 October: Reading and critical appreciation of chapter 18,19

Discussion of question answers

Discussion of question answers

Week 14 October : Practice of composition

Week 15 Oct.-Nov. : Practice of Sentence and its types

Week 16 November: Revision

Week 17 November: Test and submission of assignment

## GOVT. PG COLLEGE FOR WOMEN, ROHTAK

Lesson Plan: B.A.Qualifying (w.e.f. 24 July 2023 -24 Nov. 2023)

Book:

Chronicles of Time ed. By Asha Kadyan

Teachers:Ms Tamanna

July	Week 1	Poem: Let me not to the marriage of true minds By: William Shakespeare
August	Week 2	Poem: Death be not Proud By: John Donne
	Week 3	Poem: On his Blindness By: John Milton
	Week 4	Application and Business letter Writing
	Week 5	Poem: Shadwell By: John Dryden
	Week 6	Poem: Know then Thyself By: Alexander Pope
September	Week 7	Poem: The Little Black Boy By: William Blake
	Week 8	Poem: Three years she grew... By: William Wordsworth
	Week 9	Introduction to the sound system of phonetic symbols
	Week 10	Transcription of words
October	Week 11	Organ of Speech
	Week 12	Organ of speech
	Week 13	Types of sentences
	Week 14	Common Errors
November	Week 15	Common Errors
	Week 16	Parts of speech
	Week 17	Revision

## LESSON PLAN FOR BCA 3rd SEM

Session: 24July 2023-24 Nov. 2023(sem 3)

### COMMUNICATION SKILLS

PAPER CODE-BCC-204

Teacher: Mrs. Sonam

**Week 1 (July):** Introduction to Basics of Communication(ch-1) &

Communication Process: Models and theories

**Week 2 (Aug):** Ch-2 continued And Barriers to effective Communication (ch-3)

**Week 3 (Aug.):** Verbal or Oral Communication

Week 4 (Aug.): Non-Verbal Communication

**Week 5 ( Aug):** Listening Skills

**Week 6 (Aug.):** Group Discussion & Dyadic Communication

**Week 7 ( Sept.):** Guidelines for Effective communication-The Cs of Communication

**Week 8 ( Sept):** Developing Soft Skills & Dialogues

**Week 9 ( Sept):** Language Skills-Way to Improve Vocabulary

**Week 10 ( Sept.):** Communicative Grammar & Assignment

**Week 11 (Oct.):** Writing Skills

**Week 12 (Oct.):** Reading Skills

**Week 13 (Oct):** The Effective Speech

**Week 14 ( Oct.):** Interviews

**Week 15 ( Nov.):** Presentation Skills

**Week 16 ( Nov.):** Resume Writing

Week 17 (Nov) : Revision

## Govt PG College for Women, Rohtak

**BSc I (HONS) MATHEMATICS**
**LESSON PLAN 1<sup>ST</sup> SEM**

 Teacher: **Dr Deeksha**

 Subject: **English**

 Paper: **EN03**

 Session: **2023-24**

Sr No	Week	Topic
1	JULY 1	POEM- 1 Let me not to the Marriage of True Minds by William Shakespeare. Introduction to the poet Vocabulary and Summary of the Poem Explanation of the poem with literary devices Discussion on S.A.Q. and L.A.Q. POEM- 2 Death Be Not Proud by John Donne Introduction to the poet Vocabulary and summary of the poem
2	AUG 2	Explanation of the poem Discussion on S.A.Q. and L.A.Q. POEM -3 On His Blindness by John Milton Introduction to the poet Vocabulary and summary of the poem Explanation of the poem Discussion on S.A.Q and L.A.Q.
3	AUG 3	POEM-4 Shadwell by John Milton Introduction to the poet Vocabulary and summary of the poem Reading and Explanation of the poem Discussion on S.A.Q. and L.A.Q
4	AUG 4	<b>Grammar Topic</b> Parts of speech Definition and practice with examples Solved and unsolved exercise from prescribed text Common Errors Tenses with practice Voice with practice Exercise related to tense and voice with examples

5	AUG 5	Articles with practice Direct and indirect speech with exercise
6	AUG 6	Grammar topic Types of sentences Simple, complex and compound sentence Exercise related to types of sentences
7	SEP 7	POEM-5 The Little Black Boy by William Blake Introduction to the poet Vocabulary and summary of the poem Reading and explanation of the poem Discussion on S.A.Q. and L.A.Q. TEST- poem 1 and 2, S.A.Q Oral test of poem 1 and 2 explanation with reference to context
8	SEP 8	PHONETICS Introduction to sound system Definition and role of language Articulatory system Organs of speech with diagram Exercise related to sound system
9	SEP 9	Five term label description of organs of speech Phonatory system Resonatory system Exercise with examples
10	SEP 10	Phonetic symbols Vowel sound symbols Consonant sound symbols Transcription of words Practice of sound symbols
11	OCT 11	POEM- 6 Three Years She Grew in Sun and Shower Introduction to the poet Vocabulary and summary of the poem Reading and Explanation of the poem Discussion on S.A.Q. and L.A.Q.

12	OCT 12	Grammar topic  Exercise related to common errors Oral test of poem 3,4 and 5 explanation with reference to context Written test of poem 3,4 and 5 essay type questions
13	OCT 13	Oral test of poem 6 and 7 S.A.Q GRAMMAR TOPIC Technical writing Application writing
14	OCT 14	Business letter writing Application writing practice Letter writing practice
15	NOV 15	POEM-7 Know Then Thyself by Alexander Pope Introduction to the poet Vocabulary and summary of the poem Reading and explanation of the poem Discussion on S.A.Q. and L.A.Q.
16	NOV 16	Oral test of poem 6 and 7 explanation with reference to context Written test of common errors
17	NOV 17	Application and letter writing practice Oral test of explanation of poem 1-7 Revision

GOVT. PG. COLLEGE FOR WOMEN

DEPT. OF ENGLISH

LESSON PLAN

SESSION 2023-24

B.Sc. PHYSICS HONS. SEM 1

PAPER: ENGLISH

PRESCRIBED BOOK: CHRONICLES OF TIME

TEACHER: Dr.Minakshi

LECTURES: 3 Days a week

WEEK 1: July

Introduction to English literature

Introduction to the poet- William Shakespeare

Introduction to the poem "Let me not to the marriage of true minds"

WEEK 2 : August

Critical appreciation of the poem "Let me not to the marriage of true minds"

Discussion of question/ answers

Students learn to write a paragraph

WEEK 3: August

Introduction to the poet- John Donne

Introduction to the poem- "Death be not Proud"

Critical appreciation of the poem

WEEK 4 August

Discussion of question/ answers

Introduction to the poet- John Milton

Introduction to the poem- "On His Blindness"

Critical appreciation of the poem

WEEK 5: August

Critical appreciation of the poem

Discussion of question/ answers of the previous poem

Test

WEEK 6: August

Introduction to the poet- John Dryden

Introduction to the poem- " Shadwell"

Critical appreciation of the poem

Discussion of question/ answers

WEEK 7: September

Introduction to the poet- Alexander Pope

Introduction to the poem- " Know Then Thyself"

Critical appreciation of the poem

Discussion of question/ answers

WEEK 8: September

Introduction to the poet- William Blake

Introduction to the poem- " The Little Black Boy"

Critical appreciation of the poem

WEEK 9: September

Critical appreciation of the poem

Discussion of question/ answers

Introduction to the poet- William Wordsworth

Introduction to the poem- " Three Years She Grew in Sun and Shower"

WEEK 10 September

Critical appreciation of the poem

" Three Years She Grew in Sun and Shower"

Discussion of question/ answers

Test

Technical writing

WEEK 11: October

Introduction to Speech Sounds

WEEK 12: October

Introduction to Speech Sounds

WEEK 13: October

Parts of Speech

WEEK 14: October

Parts of Speech

Submission of assignment

WEEK 15: November

Types of Sentences

Common Errors

WEEK 16: November

Common Errors

WEEK 17: November

Revision

Class : BA I (English Hons.) 1st Semester

Paper : English Phonetics and Grammar

Teacher : Dr. Surajmukhi Yadav

Session: 2023-24

Week 1.	July	Unit 1 Introduction to detail of organs of speech Sounds
Week 2	August	Continued with practice
Week 3.	August	Basic concepts of Phoneme, vowel, consonants and syllable
Week 4	August	Continued with practice
Week 5	August	Place of articulation of consonants
Week 6	August	Continued with practice
Week 7	September	Manner of articulation of consonants Continued with practice
Week 8	September	Detailed description of vowels with its place and manner of articulation
Week 9.	September	Continued with practice
Week 10.	September	Transcription of words and sentences
Week 11.	October	Continued with practice
Week 12.	October	Continued with practice
Week 13	October	Unit 2. Introduction and exercises of verbs, modals in different applications
Week 14	October	Continued with practice
Week 15.	November.	Introduction and exercises of different kinds of verb patterns
Week 16.	November	Introduction and exercises of different types of sentences
Week 17.	November	Revision and assignments

BA-2 ENG HONORS SEM-3 (ODD SEM)

British Drama(1350-1660)

Session 2023-2024

Name-Niti Ahlawat

JULY:-

4<sup>th</sup>Week:- Introduction of British Drama

AUGUST:-

1<sup>st</sup>Week:- Othello introduction

2<sup>nd</sup>Week:-Text

3<sup>rd</sup>Week:-Text

4<sup>th</sup>Week:-Text

## 5<sup>th</sup>Week- Assignment Questions

### SEPTEMBER:-

1<sup>st</sup>Week- EveryMan in his humour Intro

2<sup>nd</sup>Week- Text

3<sup>rd</sup>Week:- Text

4<sup>th</sup>Week:- Assignment Questions

### OCTOBER

1<sup>st</sup>Week- A chaste maid in cheapside

2<sup>nd</sup>Week:- Text

3<sup>rd</sup>Week:- Text

4<sup>th</sup>Week:- Assignment Questions

## NOVEMBER

1<sup>st</sup>Week:- Revision of Othello

2<sup>nd</sup>Week:-Revision of Everyman in his humour

3<sup>rd</sup>Week- Revision of a chaste maid in  
cheapside

## **Dept. of Fine Arts**

**Lesson plan for the month of July, august, September, October and first week of November 2023**

**By: DR. KIRAN BALA**

**Class- BA-1 Painting**

<b>Sir No.</b>	<b>Week</b>	<b>Lesson Plan</b>
<b>1.</b>	<b>24 to 29 July 2023</b>	<b>Pala , Rashtrakuta period, still life drawing and revision</b>
<b>2.</b>	<b>31 July to 5 aug 2023</b>	<b>Chola period, still life drawing and revision</b>
<b>3.</b>	<b>7 to 12 aug 2023</b>	<b>Sculpture in round, relief seals, modeling and moulding</b>
<b>4.</b>	<b>14 to 19 aug 2023</b>	<b>Plasticity contour, mudras, still life colour</b>
<b>5.</b>	<b>21 to 26 aug 2023</b>	<b>Asanas, revision, still life colour</b>
<b>6.</b>	<b>28 aug to 2 sept 2023</b>	<b>Bhargas, still life drawing and revision</b>
<b>7.</b>	<b>4 to 9 sept 2023</b>	<b>DRAW SKETCH</b>
<b>8.</b>	<b>11 to 16 sept 2023</b>	<b>DRAW SKETCH</b>
<b>9.</b>	<b>18 to 23 sept 2023</b>	<b>DRAW SKETCH</b>
<b>10.</b>	<b>25 to 30 sept 2023</b>	<b>DRAW SKETCH</b>
<b>11.</b>	<b>2 to 7 oct 2023</b>	<b>REVISION AND STILL LIFE.</b>

12.	9 to 14 oct 2023	REVISION AND STILL LIFE.
13.	16 to 21 oct 2023	REVISION AND STILL LIFE.
14.	23 to 28 oct 2023	Revision and completion of pending work
15	30 to 4 nov 2023	Revision and completion of pending work
16.	6 to 9 nov 2023.	Revision and completion of pending work

## Dept. of Fine Arts

Lesson plan for the month of July ,august, September, October and first week of November 2023

By: DR. KIRAN BALA

Class- BA-2 Painting

Sr No.	Week	Lesson Plan
1.	24 to 29 July 2023	Early Indian Paintings, Landscape-2 and Revision
2.	31 July to 5 aug 2023	Ajanta, Bagh, Landscape-2 and Revision
3.	7 to 12 aug 2023	Badami, sittanvasal, Tanjore, Landscape-2 and Revision
4.	14 to 19 aug 2023	Rajasthani miniature, Landscape-3 and Revision
5.	21 to 26 aug 2023	Mughal miniature, Pahari miniature, Landscape-3 and Revision

6.	28 aug to 2 sept 2023	Modern Phase, Bengal School of art, Company school, Landscape-3 and Revision
7.	4 to 9 sept 2023	Definition of mural, miniature fresco composition, Landscape-4
8.	11 to 16 sept 2023	Perspective, Foreshortening, shading, six limbs, Landscape-4 and revision
9.	18 to 23 sept 2023	Indian concept of primary color, varana, symbolic meaning of each color, Landscape-4 and revision
10.	25 to 30 sept 2023	DRAW SKETCH
11.	2 to 7 oct 2023	REVISION AND STILL LIFE.
12.	9 to 14 oct 2023	REVISION AND STILL LIFE.
13.	16 to 21 oct 2023	REVISION AND STILL LIFE.
14.	23 to 28 oct 2023	Revision and completion of pending work
15.	30 to 4 nov 2023	Revision and completion of pending work
16.	6 to 9 nov 2023.	Revision and completion of pending work

## **Dept. of Fine Arts**

**Lesson plan for the month of July ,august, September, October and first week of November 2023**

**By: DR. KIRAN BALA**

**Class- BA-3 Painting**

<b>Sr No.</b>	<b>Week</b>	<b>Lesson Plan</b>
<b>1.</b>	<b>24 to 29 July 2023</b>	<b>Renaissance, Composition-1, Revision</b>
<b>2.</b>	<b>31 July to 5 aug 2023</b>	<b>Baroque, Composition-1, Revision</b>
<b>3.</b>	<b>7 to 12 aug 2023</b>	<b>Rococo, Composition-2, Revision</b>
<b>4.</b>	<b>14 to 19 aug 2023</b>	<b>Neo Classicism, modern movements, Composition-2, Revision</b>
<b>5.</b>	<b>21 to 26 aug 2023</b>	<b>Impressionism and post impressionism Composition-2, Revision</b>
<b>6.</b>	<b>28 aug to 2 sept 2023</b>	<b>Expressionism, Composition-3, Revision</b>
<b>7.</b>	<b>4 to 9 sept 2023</b>	<b>Cubism, Surrealism, Composition-3, Revision</b>
<b>8.</b>	<b>11 to 16 sept 2023</b>	<b>Constructivism, Composition-4, Revision</b>
<b>9.</b>	<b>18 to 23 sept 2023</b>	<b>Composition-4, Revision</b>
<b>10.</b>	<b>25 to 30 sept 2023</b>	<b>DRAW SKETCH</b>
<b>11.</b>	<b>2 to 7 oct 2023</b>	<b>REVISION AND STILL LIFE.</b>
<b>12.</b>	<b>9 to 14 oct 2023</b>	<b>REVISION AND STILL LIFE.</b>
<b>13.</b>	<b>16 to 21 oct 2023</b>	<b>REVISION AND STILL LIFE.</b>

<b>14.</b>	<b>23 to 28 oct 2023</b>	<b>Revision and completion of pending work</b>
<b>15</b>	<b>30 to 4 nov 2023</b>	<b>Revision and completion of pending work</b>
<b>16.</b>	<b>6 to 9 nov 2023.</b>	<b>Revision and completion of pending work</b>

## **Dept. of Fine Arts**

**Lesson plan for the month of July ,august, September, October and first week of November 2023**

**By: DR. KIRAN BALA- BA-1 Applied art**

<b>Sr No.</b>	<b>Week</b>	<b>Lesson Plan</b>
<b>1.</b>	<b>24 to 29 July 2023</b>	<b>Theory of Design, Still life drawing -1, revision</b>
<b>2.</b>	<b>31 July to 5 aug 2023</b>	<b>Elements and principles of design, Still life drawing -1, revision</b>
<b>3.</b>	<b>7 to 12 aug 2023</b>	<b>Theory of Colors, Still life drawing -1, revision</b>
<b>4.</b>	<b>14 to 19 aug 2023</b>	<b>Type and Lettering, Still life drawing -2, revision</b>
<b>5.</b>	<b>21 to 26 aug 2023</b>	<b>Type of Lettering and terminology, Still life shading -2, revision</b>
<b>6.</b>	<b>28 aug to 2 sept 2023</b>	<b>Type of Lettering and terminology, Still life shading -3, revision</b>

<b>7.</b>	<b>4 to 9 sept 2023</b>	<b>Elements of layout, Still life drawing -3, revision</b>
<b>8.</b>	<b>11 to 16 sept 2023</b>	<b>Principles of layout, Still life -4, revision</b>
<b>9.</b>	<b>18 to 23 sept 2023</b>	<b>DRAW SKETCH-4</b>
<b>10.</b>	<b>25 to 30 sept 2023</b>	<b>DRAW SKETCH</b>
<b>11.</b>	<b>2 to 7 oct 2023</b>	<b>REVISION AND STILL LIFE.</b>
<b>12.</b>	<b>9 to 14 oct 2023</b>	<b>REVISION AND STILL LIFE.</b>
<b>13.</b>	<b>16 to 21 oct 2023</b>	<b>REVISION AND STILL LIFE.</b>
<b>14.</b>	<b>23 to 28 oct 2023</b>	<b>Revision and completion of pending work</b>
<b>15</b>	<b>30 to 4 nov 2023</b>	<b>Revision and completion of pending work</b>
<b>16.</b>	<b>6 to 9 nov 2023.</b>	<b>Revision and completion of pending work</b>

## **Dept. of Fine Arts**

**Lesson plan for the month of September, October and first week of N**  
**Lesson plan for the month of July ,august, September, October and**  
**first week of November 2023**

**ovember**

**By: DR. KIRAN BALA**

**- BA-2 Applied Art**

<b>Sr No.</b>	<b>Week</b>	<b>Lesson Plan</b>
<b>1.</b>	<b>24 to 29 July 2023</b>	<b>What is art and commercial art, Illustration -1 and revision</b>
<b>2.</b>	<b>31 July to 5 aug 2023</b>	<b>Principles and elements of art, Illustration -1 and revision</b>
<b>3.</b>	<b>7 to 12 aug 2023</b>	<b>Theory of Design and Quality of a good artist, Illustration -2 and revision</b>
<b>4.</b>	<b>14 to 19 aug 2023</b>	<b>Perspective, poster, Illustration -3 and revision</b>
<b>5.</b>	<b>21 to 26 aug 2023</b>	<b>Photography and various mediums in art, Illustration -4 and revision</b>
<b>6.</b>	<b>28 aug to 2 sept 2023</b>	<b>Layout and theory of lettering and typography, Illustration -4 and revision</b>
<b>7.</b>	<b>4 to 9 sept 2023</b>	<b>What is illustration, completion of pending work and revision</b>
<b>8.</b>	<b>11 to 16 sept 2023</b>	<b>Revision and completion of pending work</b>
<b>9.</b>	<b>18 to 23 sept 2023</b>	<b>Revision and completion of pending work</b>
<b>10.</b>	<b>25 to 30 sept 2023</b>	<b>DRAW SKETCH</b>
<b>11.</b>	<b>2 to 7 oct 2023</b>	<b>REVISION AND STILL LIFE.</b>
<b>12.</b>	<b>9 to 14 oct 2023</b>	<b>REVISION AND STILL LIFE.</b>
<b>13.</b>	<b>16 to 21 oct 2023</b>	<b>REVISION AND STILL LIFE.</b>

14.	23 to 28 oct 2023	Revision and completion of pending work
15	30 to 4 nov 2023	Revision and completion of pending work
16.	6 to 9 nov 2023.	Revision and completion of pending work

## Dept. of Fine Arts

Lesson plan for the month of July ,august, September, October and first week of November 2023

By: DR. KIRAN BALA

- BA-3 Applied Art

Sr No.	Week	Lesson Plan
1.	24 to 29 July 2023	Commercial art its meaning and scope, Typography of alphabets
2.	31 July to 5 aug 2023	Aims and objectives of Commercial art, Typography of alphabets
3.	7 to 12 aug 2023	Need and importance of Commercial art and impact of photography on commercial art, layout-1, placard-1
4.	14 to 19 aug 2023	Interior Decoration, Hoarding and slides, layout-1, placard-1
5.	21 to 26 aug 2023	Typography, layout-2, placard-2
6.	28 aug to 2 sept 2023	Silk Screen, layout-2, placard-2

<b>7.</b>	<b>4 to 9 sept 2023</b>	<b>Block making and layout -2</b>
<b>8.</b>	<b>11 to 16 sept 2023</b>	<b>Revision of syllabus and completion of pending work</b>
<b>9.</b>	<b>18 to 23 sept 2023</b>	<b>Revision of syllabus and completion of pending work</b>
<b>10.</b>	<b>25 to 30 sept 2023</b>	<b>DRAW SKETCH</b>
<b>11.</b>	<b>2 to 7 oct 2023</b>	<b>REVISION AND STILL LIFE.</b>
<b>12.</b>	<b>9 to 14 oct 2023</b>	<b>REVISION AND STILL LIFE.</b>
<b>13.</b>	<b>16 to 21 oct 2023</b>	<b>REVISION AND STILL LIFE.</b>
<b>14.</b>	<b>23 to 28 oct 2023</b>	<b>Revision and completion of pending work</b>
<b>15</b>	<b>30 to 4 nov 2023</b>	<b>Revision and completion of pending work</b>
<b>16.</b>	<b>6 to 9 nov 2023.</b>	<b>Revision and completion of pending work</b>

**Name of College: GCW Rohtak**

**Session: 2023-24**

**Name of Assistant Professor: Dr. Basant Kumar**

**Class: B.A. (First Year) 1<sup>st</sup> Sem.**

**Subject: Physical Education.**

<b>Month</b>	<b>Description of the Syllabus to be covered</b>	<b>Other activities</b>
21 July to 20 Aug	Definition, Objectives, Scope & Importance of Physical Education. Historical development of Ancient Olympic. Historical development of national games of India.	Classroom Quiz
21 Aug to 20 Sep	Biological Basis of Physical activity (a)-Exercise: Types of Exercise (b) Growth and Exercise, (c) Exercise and well-being, (d) Body types - Growth of Physical Education in India: (i) LNUPE (ii) SAI NSNIS (iii) YMCA (iv) IOA	Unit Test
21 Sep to 20 Oct	Modern Olympic Revival and progress. Performance of Indian Players in Modern Olympic and Asian games.	Group discussion
20 Oct to 24 Nov	Sports Awards in India - (a) Arjuna Award (b) Dronacharya Award (c) Khel Ratan Award (d) Bhim Award (Haryana) (e) Maulana Abdul Kalam Azad Trophy	Unit Test

**Name of College: GCW Rohtak**

**Session: 2023-24**

**Name of Assistant Professor: Dr. Basant Kumar**

**Class: B.A. (Second Year) 3<sup>rd</sup> Sem.**

**Subject: Physical Education.**

<b>Month</b>	<b>Description of the Syllabus to be covered</b>	<b>Other activities</b>
21 July to 20 Aug	Concept of Health, Meaning and definitions of Health and Health Education, Aim and Objectives of Health Education, Health and Physical Fitness. WHO, UNICEF, Role of Physical Activity towards different dimension of health.	Classroom Quiz
21 Aug to 20 Sep	Balance diet, Factors affecting diet, Elements, and functions of the balanced diet. Nutritional tips, Vegetarian verses non vegetarian diet.	Unit Test
21 Sep to 20 Oct	Posture: Concept of posture, value of posture, causes of poor posture, types of postural deformities, their causes, and precautions First-Aid General Principles of first aid, Common first-aid measures for: a) Snake biting (b) Choking (c) Drowning (d) Fainting (e) Fracture (f) Burns (g) Poison and Unconsciousness (h) Heat Stroke.	Group discussion
20 Oct to 24 Nov	Exercise and life style disease - Exercise and obesity - Exercise & Heart disease - Exercise & diabetes- Exercise & Stress Management.	Unit Test

**Name of College: GCW Rohtak**

**Session: 2023-24**

**Name of Assistant Professor: Dr. Basant Kumar**

**Class: B.A (Final Year) 5<sup>th</sup> Sem.**

**Subject: Physical Education**

<b>Month</b>	<b>Description of the Syllabus to be covered</b>	<b>Other activities</b>
21 July to 20 Aug	Learning of sports activity, Psycho-Physical Unity of human being, Law of learning, their application to situations on playground. Theories of play, Individual differences, Adjustment, Motivation.	Classroom Quiz
21 Aug to 20 Sep	Sports as medium of socialization, Effects of socio-economic status on sports, spectators and crowd behavior (Positive, Negative and Neutral) Sports and Economy. Traditions and their influence on behavior patterns.	Unit Test
21 Sep to 20 Oct	Need and Importance of conditioning, Methods of conditioning (Circuit Training, Interval training, Fartlek Training, Weight Training).	Group discussion
20 Oct to 24 Nov	Types of doping, prevention of doping - Hazard of smoking and drinking, prevention of smoking and drinking, quitting techniques of smoking and drinking habits.	Unit Test

**Government PG College for Women, Rohtak**

Department of Chemistry

Session: 2023-2024

Lesson Plan

Semester - V

Name of Faculty : Dr. Anita Singhal

B.Sc. III Inorganic Chemistry

Section – B, C & D

**July 2023**

Fourth week **Unit I- Metal Ligand Bonding in Transition Metal Complexes**

Limitations of valence bond theory.

**August 2023**

**Inorganic**

First week- **Unit I- Metal Ligand Bonding in Transition Metal Complexes**

An elementary idea of crystal field theory.

Second week - Crystal field splitting in octahedral complexes.

Third week – Crystal field splitting in tetrahedral and square planar complexes.

Fourth week – Factors affecting crystal field parameters.

**September 2023**

**Inorganic Unit II - Thermodynamic & Kinetic aspects of Metal Complexes**

First week- A brief outline of thermodynamic stability of metal complexes.

Second week- Factors affecting the stability of metal complexes.

Third week – Substitution reactions in Square planar complexes of Pt(II). (Assignment)  
Trans effect .

**Unit – III Magnetic Properties of Transition Metal Complexes**

Fourth week – Types of magnetic behaviour, methods of determining magnetic susceptibility,

**October 2023**

First week- spin only formula.assignment of unit 1 and viva.

Second week – LS coupling, correlation of  $\mu_s$  and  $\mu_{eff}$  values.

Third week- Orbital contribution to magnetic moments.

Fourth week- Application of magnetic moment data for 3d- metal complexes.

Revision of Unit –III.

### **November 2023**

First week-  
**complexes**

#### **Unit- IV      Electronic Spectra of Transition Metal**

Types of electronic transitions, selection rules for d-d transitions,  
spectroscopic ground states.

Second week- Dewali break

Third week – Spectrochemical series.

Fourth week – Orgel energy level diagram of  $d^1$ - $d^9$  states.

### **December 2023**

#### **Inorganic**

First week - Discussion of electronic spectrum of  $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$  complex ion.

Government PG College for Women, Rohtak  
Lesson plan, Odd Semester Session  
2023-2024

Department of Chemistry

#### **INORGANIC CHEMISTRY**

B.Sc. II (Medical and Non Medical) 3rd semester (Sections B, C and D)

**ASSISTANT PROFESSOR- Dr. Aarti Dalal**

**JULY, 2023**

Introduction to d-block elements Definition of transition elements.

**AUGUT, 2023**

First Week - Definition of transition elements

Second Week – Position in the periodic table

Third Week – General characteristics and properties of d-block elements

Fourth Week – Comparison of properties of 3d elements with 4d and 5d elements in reference to atomic radii.

#### SEPTEMBER, 2023

First Week – Oxidation state of 3d elements, 4d and 5d elements.

Second Week – Magnetic properties of transition elements.

Third Week - Spectral properties and Stereochemistry of d-block elements.

Fourth Week -- Structures and properties of some compounds of transition elements –  $\text{TiO}_2$  and  $\text{VOCl}_2$ .

#### OCTOBER, 2023

First Week – Properties of some compounds of transition elements –  $\text{TiO}_2$ ,  $\text{VOCl}_2$ .

Second week - Structures and properties of some compounds of transition elements-  $\text{Ni}(\text{CO})_4$ .

Third Week- Structures and properties of some compounds of transition elements  $\text{FeCl}_3$  and  $\text{CuCl}_2$ .

Fourth Week- Test and Assingment Rivision.

#### NOVEMBER, 2023

First Week - Physical Properties of solvents and their types, general characteristics of solvents.

Second week - Diwali Break

Third Week – Rivision and Test.

Fourth week- Reactions with reference to liquid  $\text{NH}_3$ .

#### DECEMBER, 2023

First Week - Reactions with reference to liquid  $\text{SO}_2$ .

### **Government PG College for Women, Rohtak**

**Department of Chemistry      Session: 2023-2024**

**Lesson Plan   Class - B.Sc. I Medical   Sections- A, B & C**

**Name of Assistant Professor - Dr. Suman (Ext.)**

**Sub.- Inorganic Chemistry   Semester- 1<sup>st</sup>**

**July 2023**

**Inorganic Chemistry**

**Section- A Atomic Structure**

**Week 4:** Idea of de Broglie matter waves, Heisenberg uncertainty principle.

**August 2023**

**Week 1:** Atomic orbitals, Quantum numbers, Radial and angular wave functions, Probability distribution curves and Shapes of s, p, d orbitals.

**Section- B Periodic Properties**

**Week 2:** General principles of periodic table: Aufbau and Pauli Exclusion principles, Hund's multiplicity rules. Electronic configurations of the elements (**Assignment** of Section- A)

**Week 3:** Effective nuclear charge, Slater's rules, Atomic and ionic radii, Ionization energy, electron affinity and electro negativity –definition, methods of determination or evaluation. Trends in periodic table (in s & p block elements)

**Week 4:** Trends in periodic table (in s & p block elements) (**Test** of Section- B)

**September 2023**

**Section- C Covalent Bond**

**Week 1:** Valence bond theory and its limitations, Directional characteristics of covalent bond and Various types of hybridizations. (Assignment of Section- A)

**Week 2:** Shapes of simple inorganic molecules and ions ( $\text{BeF}_2$ ,  $\text{BF}_3$ ,  $\text{CH}_4$ ,  $\text{PF}_5$ ,  $\text{SF}_6$ ,  $\text{IF}_7$ ,  $\text{SO}_4^{2-}$ ,  $\text{ClO}_4^-$ ), Valence shell electron pair repulsion (VSEPR) theory to  $\text{NH}_3$ ,  $\text{H}_3\text{O}^+$ ,  $\text{SF}_4$ ,  $\text{ClF}_3$ ,  $\text{ICl}_2^-$  and  $\text{H}_2\text{O}$ .

**Week 3:** MO theory of hetero nuclear (CO and NO) diatomic molecules, bond strength and bond energy, percentage ionic character from dipole moment.

**Week 4:** Electro negativity difference. (Revision of Section – C & Problem Solving)

**October 2023**

**Section - D Ionic Solids**

**Week 1:** Ionic structures (NaCl, CsCl, ZnS ( Zinc Blende), CaF<sub>2</sub>) radius ratio effect and coordination number.

**Week 2:** Limitation of radius ratio rule, lattice defects, semiconductors.

**Week 3:** Lattice energy (mathematical derivation excluded) and Born-Haber cycle, Solvation energy.

**Week 4:** Solvation energy and its relation with solubility of ionic solids.

### **November 2023**

**Week 1:** Polarizing power, polarizability of ions and Fajan's rule.

**Week 2:** Diwali Vacations.

**Week 3:** Revision, Group discussion & Problem Solving.

### **Government College For Women, Rohtak**

#### **Department of Chemistry**

Name of the Faculty – **Dr. Deepak**

Section - **B, C & D**

Subject - **Organic Chemistry**

### **July 2023**

**Fourth week** - Classification and nomenclature. - Monosaccharides, Mechanism of osazone formation, interconversion of glucose and fructose.

### **August 2023**

**First Week** - Introduction, Magnetic properties of nuclei, Nuclear spin states. Principle of nuclear magnetic resonance,

**Second Week** - PMR spectrum, NMR spectrometer, number of signals, peak areas, equivalent and nonequivalent protons,

**Third week** - position of signals. chemical shift,

**Fourth week** - shielding and deshielding of protons, proton counting

### **September 2023**

**First Week**- splitting of signals, coupling constants. magnetic equivalence of protons.

**Second Week-** Applications of PMR spectroscopy., Limitations of PMR spectroscopy.

**Third week:** Discussion of PMR spectra of the molecules, ethyl bromide, n-propyl bromide, isopropyl bromide.

**Fourth week:** 1,1-dibromoethane, 1,1,2-tribromoethane, ethanol.,acetaldehyde, ethyl acetate, toluene, benzaldehyde and acetophenone

### **OCTOBER 2023**

**First week** - Simple problems on PMR spectroscopy for structure determination of organic compounds. **(Assignment and Test)**

**Second week:** Organomagnesium compounds- the Grignard Reagents-formation, structure.

**Third week:** Chemical reaction, Group revision and Problem solving.

**Fourth week:** organo zinc compounds, formation, - chemical reactions of organozinc compounds organolithium compounds chemical reactions of organolithium compounds

### **NOVEMBER 2023**

**First week:** - Erythro and threo diastereomers, Open chain and cyclic structure of D (+)-glucose Open chain and cyclic structure of D (-) - fructose

**Second week.** Diwali Break

**Third week** – Chain lengthening and shortening of aldoses, Configuration of monosacharides.

**Fourth week** - Mechanism of mutarotation. Structures of ribose and deoxyribose, Introduction to disaccharides and polysaccharides without involving structure determination.

### **DECEMBER 2023**

**First week** - Introduction to disaccharides and polysaccharides without involving structure determination.

## **LESSON PLAN**

Name of the faculty: **NIDHI**

Class and Section: **B.Sc II Medical Sec-B,C,D**

Subject: **Organic Chemistry**

**July2023**

**Week4 Organic chem.** Alcohols-nomenclature, methods of formation , acidic nature, reactions

## **August2023**

**Week1 -org. - dihydric alcohols**-nomenclature, methods of formation, chemical reac. of glycols, pinacol pinacolone rearrangement

**Week 2 org**-phenols-nomenclature, structure and bonding, preparation, physical properties, acidic character

**Week 3- org-** Reactions of phenol, mech. of fries rearrangement, clasion rearrangement reimer tiemann reaction

**Week- 4SEC- org-** Kolbes reaction,schotten baumann reac.,epoxides(synthesis,ring opening and reac. With Grignard and organolithium reagents

## **September2023**

**Week 1SEC - org-**Test and Assignment from unit 1and 2

**Week 2 SEC –org-**UV spectroscopy absorption laws, types of transitions, concept of chromophore and auxochrome

**Week -4SEC-Aorg.-** bathochromic, hypsochromic, hyperchromic, hypochromic shifts

## **October2023**

**Week- 1SEC-Aorg-** Woodward fieser rules,calculation of lambda max of conjugated dienes,alpha-beta usaturated ketones

**Week-2SEC-A org-** Application of UV spectroscopy in str. Elucidation of org comp.,revision of **unit3**

**Week-3SEC-A org-**carboxylic acids(nomenclature,str. And bonding physical properties,acid strength comparision)

**Week-4** SEC-A org-Prep. Of carboxylic acids, reactions, reduction of carboxylic acids, mechanism of decarboxylations, introduction to acid derivatives.

### **November 2023**

**Week- 1** Preparation of acid chlorides, esters, amides, acid anhydrides, relative stability of acid derivatives, interconversion of acid derivatives

**Week 2**-Mechanism of esterification and hydrolysis, **Test and Assignment on Unit 4**

Percentage ionic character, dipole moment and electronegativity difference

- Assignment and viva, test

**Week 3**-diwali break

**Government PG College for Women, Rohtak**  
**Lesson plan, Odd Semester Session 2023-2024**  
**Department of Chemistry**

**Name of Assistant Professor: Ms. MANU KUMARI**  
**B.Sc.I Non-Medical(Section -D & E), I<sup>ST</sup> Semester**

### **July 2023**

**Fourth week-GASEOUS STATE:** introduction of gaseous state, kinetic gas equation, Maxwell distribution of velocities and energies.  
calculation of root mean square velocity, average velocity and most probable velocity

### **August 2023**

**First Week-** relation between velocities (M.S.V, A.V, M.P.V) collision diameter, collision number, collision frequency, mean free path

**Second Week** -ideal gas, real gas, derivation of real gas from ideal behavior derivation vander walls, equation of state, application of vanderwall equation of state, equation of state, application of vanderwall equation of state

**Third week - critical phenomena-** critical temperature, critical volume, critical pressure, relation between critical constants and vanderwall constant

**Fourth week** - Assignment and Test

### **September 2023**

**First week-** PV isotherm of real gases, continuity of States, the isothermal of vanderwall equations - critical compressibility factor, law of compressibility state, liquefaction of gases

**-Second Week - LIQUID STATE:** Introduction, Intermolecular forces of attraction *Structure of liquid theories of liquid state structure*

**Third week** – Viscosity, measurement of viscosity and its chemical constitution , Vapour pressure, measurement of vapour pressure

Assignment and viva, test

**Fourth Week-** Optical Rotation, measurement and optical activity –. Refractive index, measurement and chemical constitution

### October 2023

**First week -Solid state-** introduction law of crystallography Symmetry element of crystals , unit cell, space lattice, bravais lattice, crystal system X rays diffraction of crystals

**Second Week-**derivation of bragg's equation determination of crystal structure of NaCl, KCl, CsCl liquid crystals-difference between solid liquid, liquid crystals

**Third week --** type of liquid crystal, application of liquid crystal,

**Fourth Week- MECHANISM OF ORGANIC REACTION:**Curved arrow notions, drawing electron movements with arrows, half headed and double headed arrows, homolytic and heterolytic bond breaking, types of reagents-electrophiles and nucleophiles.

### November 2023

**First Week-** Types of Organic Reactions- Addition Reactions, Substitution Reactions, Elimination reactions. Carbocations, Carboanions, Free Radicals Carbenes, Arynes, and Nitrenes. Assigning formal charges on intermediate and other ionic.

**Second Week- ALKANES AND CYCLOALKANES:**

**ALKANES:**IUPAC nomenclature of branched and unbranched alkanes, the alkyl group, classification of carbon atoms in alkanes, Isomerism in alkanes, source and methods of formation. .

**Third Week- DIWALI BREAK**

**Fourth Week-** -wurtz reaction, kolbe reactions, corey-house reaction, decarboxylation of carboxylic acids, physical properties

**Cycloalkane::** Nomenclature, IUPAC nomenclature of cycloalkanes.

## **December 2023**

**First Week** – .Synthesis of cycloalkanes and their derivatives- photochemical cycloaddition reactions,dehalogenation of dihalides, Baeyer’s strain theory and its limitations, Theory of strainless rings.

### **Government PG College for Women, Rohtak Lesson plan, Odd Semester Session 2023-2024**

#### **Department of Chemistry**

**Name of Assistant Professor: Monika  
B. Sc. Ist semester (Sections A, B & C)**

## **July 2023**

First week—Introduction of Basic Organic Chemistry (GOC).

First week-- localized and delocalized chemical bonds.

Second week-- Van der wall interactions, Resonance effect and its applications, Resonance conditions.

Third week -- Hyperconjugation, Inductive effect & Problem discussion.

Fourth week -- electromeric effect

## **September 2023**

First week -- Inductive effect and Resonance Effect.

Second week -- Concept of isomerism, Types of isomerism.

Third week -- Elements of symmetry, Molecular chirality, Enantiomers, Stereogenic centres, Optical activity.

Fourth week -- Property of enantiomers, chiral and achiral molecules with two stereogenic centres, Diastereomers, Meso compounds.

## **October2023**

First Week -- Resolution of Enatiomers, Inversion, Retension and Racemisation, Relative and absolute configuration, Sequence rule, R and S system of nomenclature.

Second Week -- Determination of configuration of geometrical isomers, E and Z system of nomenclature of organic molecules.

Third Week -- Conformational analysis of ethane and n-butane, conformations of cyclohexane, Newman projection and Sawhorse projection formulae.

Fourth Week -- Curved arrow notions, drawing electron movements with arrows, half headed and double headed arrows, homolytic and heterolytic bond breaking, types of reagents-electrophiles and nucleophiles. **Test, Assignment & Viva.**

### **November 2023**

First Week --Types of Organic Reactions- Addition Reactions, Substitution Reactions, Elimination reactions. Carbocations, Carboanions, Free Radicals Carbenes, Arynes, and Nitrenes. Test & Viva.

Second Week --Diwali break

Third week --Isomerism in alkanes, source and methods of formation. Cycloalkane Nomenclature,

Fourth week --IUPAC nomenclature of alkanes, classification of carbon atoms in alkanes. Synthesis of cycloalkanes and their derivatives- photochemical cycloaddition reactions,

### **December 2023**

First Week -- Baeyer's strain theory and its limitations, Theory of strainless rings.

## **Government PG College for Women, Rohtak Lesson plan, Odd Semester Session 2023-2024**

### **Department of Chemistry**

**Name of Assistant Professor: Ms. NEHA SAPRA  
B.Sc. I Non- Medical(Section- D&E ) 1<sup>st</sup> Semester**

**July 2023**

### **INORGANIC CHEMISTRY**

**Fourth week- Atomic structure:** Idea of De- Broglie matter waves .Heisenberg uncertainty Principle,

## August 2023

**First Week** - Atomic orbital ,quantum number,radial and angular wave function

**Second Week** - Probability of angular wave function , shape of s,p,d and f-orbitals, Aufbau and pauli exclusion principle, Hund's rule of maximum multiplicity rule.

**Third week** - Electronic configuration of elements , effective nuclear charge, slater's rule.

**Fourth week** - Assignment and Test

## September 2023

**First week- Periodic table:** Classification of periodic table, atomic and ionic radii, periodic trends in ionic radii, Ionisation energy and its variation in periodic table

**-Second Week** - electronic affinity, Electronegativity definition, method of determination. Trends in periodic table

**Third week – Covalent Bond** –Valance bond theory and its limitations , Shape of inorganic molecules and ions. VSEPR Theory and its applications

**Fourth Week-** Molecular orbital theory of heteronuclear diatomic molecules and ions. Bond energy, Percentage ionic character,dipole moment and electronegativity difference.

## October 2023

**First week - Ionic solids-** Ionic structures radius ratio effect and coordinaton number limitations of radius ratio rule lattice defects and semiconductors

**Second Week-** lattice Energy,Born Haber cycle, solvation energy and its relation with solubility of ionic solids, polarising power and polarisability of ions, Fajans rule

**Third week** -Assignment and viva, test

**Fourth Week- ORGANIC CHEMISTRY-** Introduction of Basic Organic Chemistry (GOC), localized and delocalized chemical bonds. Vander-wall interactions, Resonance effect and its applications, Resonance conditions.

## November 2023

**First Week-** Hyperconjugation, Inductive effect, Electromeric effect & comparison with Inductive effect and Resonance Effect. Concept of isomerism, Types of isomerism.

**Second Week- Diwali Break**

**Third Week-** Elements of symmetry, Molecular chirality, Enantiomers, Stereogenic centres, Optical activity. Property of enantiomers, chiral and achiral molecules with two stereogenic centres, Diastereomers, Meso compounds

**Fourth Week-** Resolution of Enantiomers, Inversion, Retention and Racemisation, Relative and absolute configuration, Sequence rule, R and S system of nomenclature

### **December 2023**

**First Week** – Determination of configuration of geometrical isomers, E and Z system of nomenclature of organic molecules. Conformational analysis of ethane and n-butane, conformations of cyclohexane, Newman projection and Sawhorse projection formulae.

### **Government College For Women, Rohtak**

#### **Department of Chemistry**

Name of the Faculty – **Pooja Chahal**

BSc 5<sup>th</sup> sem Section – **B, C, D**

**Bsc 1<sup>st</sup> sec B and C**

Subject -**Physical Chemistry**

### **July 2023**

**Week 4:** introduction to quantum mechanics, need of quantum mechanics, Black body radiation, Planck's radiation Law, Photoelectric effect

### **SEPTEMBER 2023**

#### **Quantum Mechanics**

Week 1:

Bsc 3<sup>rd</sup>: : Heat capacity of solids, Compton's effect. Wave function and its significance postulates of quantum mechanics.

Bsc 1<sup>st</sup>: **Periodic table:** Classification of periodic table,

Week 2:

Bsc 3<sup>rd</sup>: : Quantum mechanical operator, commutation relations, Hamiltonian operators, Hermitian operators.

Bsc 1<sup>st</sup>: atomic and ionic radii

Week 3

Bsc 3<sup>rd</sup>: : Average value of square of hermitian as a positive quantity, Role of operator in quantum mechanics to show quantum mechanically that position and momentum can not be predicted simultaneously.

Bsc 1<sup>st</sup>: periodic trends in ionic radii,

Week 4 :

Bsc 3<sup>rd</sup>: :determination of wave function and energy of particle in one dimensional box pictorial representation and its significance.Numerical problems

Bsc 1<sup>st</sup>: Problem discussion

### **OCTOBER 2023**

#### **Quantum Mechanics**

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**Week 1:**

Bsc 3<sup>rd</sup>: **(Assignment & Test).**

Optical activity, Clausius – Mossotti equation. Orientation of dipoles in an electric field, dipole moment, induced dipole moment

Bsc 1<sup>st</sup>: Ionisation energy and its variation in periodic table,

Week 2:

Bsc 3<sup>rd</sup>: : measurement of dipole moment-temperature method and refractivity method, dipole moment and structure of molecules,

Bsc 1<sup>st</sup>: electronic affinity

WEEK 3:

Bsc 3<sup>rd</sup>: :Magnetic permeability, magnetic susceptibility and its determination. Application of magnetic susceptibility, magnetic properties – paramagnetism, diamagnetism and ferromagnetics.

Bsc 1<sup>st</sup>: Electronegativity definition, method of determination.

WEEK 4:

Bsc 3<sup>rd</sup>: Spectroscopy-introduction: Electromagnetic radiation, regions of spectrum, basic features of spectroscopy, statement of Born-Oppenheimer approximation, Degrees of freedom

### **November 2023**

WEEK 1: .

Bsc 3<sup>rd</sup>: :Rotational Spectrum Diatomic molecules. Energy levels of rigid rotator (semi-classical principles), selection rules

Bsc 1<sup>st</sup>: Trend in periodic table

WEEK 2:

Bsc 3<sup>rd</sup>: :Test of unit 2, spectral intensity distribution using population distribution (Maxwell-Boltzmann distribution), determination of bond length

Bsc 1<sup>st</sup>: Pauling, Mulliken

WEEK 3:

Bsc 3<sup>rd</sup>: :qualitative description of non-rigid rotor, isotope effect, Vibrational spectrum  
Infrared spectrum: Energy levels of simple harmonic oscillator, selection rules, pure vibrational spectrum, intensity

Bsc 1<sup>st</sup>: Allerd and Mullikan's, Electronegativity scale,

WEEK 4:

Bsc 3<sup>rd</sup>: determination of force constant and qualitative relation of force constant and bond energies, effects of anharmonic motion and isotopic effect on the spectra. idea of vibrational frequencies of different functional groups. Raman Spectrum: Concept of polarizability

Bsc 1<sup>st</sup>: Sanderson's electron density,

### **DECEMBER 2023**

WEEK 1:

Bsc 3<sup>rd</sup>: pure rotational and pure vibrational Raman spectra of diatomic molecules, selectin rules, Quantum theory of Raman spectra

Bsc 1<sup>st</sup>: various types of hybridisation

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## **Government PG College for women rohtak**

Lesson plan ( odd semester)

2023-2024

Department of chemistry

Name of teacher: Preeti

BSc first medical (section a b c  
first semester)

August 2023

**First week** - introduction of gaseous state, kinetic gas equation, Maxwell distribution of velocities and energies.

**second week**- calculation of root mean square velocity, average velocity and most probable velocity

**Third week** - relation between velocities ( M.S.V, A.V, M.P.V) collision diameter , collision number ,

**Fourth week:-** collision frequency , mean free path.

September 2023

**FIRST week**- ideal gas, real gas, derivation of real gas from ideal behavior derivation vander walls ,

**second week** equation of state , application of vanderwall equation of state

**Third week** critical phenomena- critical temperature, critical volume,

**Fourth week**- - critical pressure, relation between critical constants and vanderwall constant

October 2023

**First week**- - PV isotherm of real gases, continuity of States, the isothermal of vanderwall equations - critical compressibility factor, law of compressibility state, liquefaction of gases

**second week**- Introduction, Intermolecular forces of attraction

**third week**- *Structure of liquid theories of liquid state structure*

**fourth week**- Properties of liquids-- Surface tension and chemical constitution -

## **November 2022**

**first Week - Liquid State** - - Viscosity, measurement of viscosity and its chemical constitution , Vapour pressure, measurement of vapour pressure

**secondWeek** - diwali vacation

**Thirdweek-** Optical Rotation, measurement and optical activity  
- . Refractive index, measurement and chemical constitution  
- solid state- introduction law of crystallography Symmetry element of crystals  
- unit cell, space lattice, bravais lattice, crystal system X rays di fraction of crystals

**Fourthweek-** derivation of bragg's equation determination of crystal structure of NaCl, KCl, CsCl liquid crystals-difference between solid liquid, liquid crystals

## **December 2022**

-  
**firstweek-** - type of liquid crystal, application of liquid crystal,

**second Week** - discussion of last year question papers

## **LESSON PLAN OF ODD SEMESTER 2023-24**

**Name of the lecturer:** SHAMMY LAJ

**Class and Section:** B.Sc II Medical Sec-A and B

**Subject:** Organic, Inorganic and Physical Chemistry

**JULY 2023**

**Week 4**

**Coordination Compounds**

Werner's coordination theory, effective atomic number concept, chelates,  
nomenclature of coordination compounds,

### **SEPTEMBER 2023**

**Week 1** Isomerism in coordination compounds, valence bond theory of transition metal complexes

#### **Non-aqueous Solvents**

Physical properties of a solvent, types of solvents and their general characteristics,

**Week 2** Reactions in non-aqueous solvents with reference to liquid  $\text{NH}_3$  and liquid  $\text{SO}_2$

**Week 3 : Org.** Alcohols-nomenclature, methods of formation, acidic nature, reactions

**Week 4: Dihydric alcohols**-nomenclature, methods of formation, chemical reac. of glycols, pinacol pinacolone rearrangement

#### **Revision of unit 1**

### **OCTOBER 2023**

**Week 1:org**-phenols-nomenclature, structure and bonding, preparation, physical properties, acidic character, Reactions of phenol, mech. of fries rearrangement

**Week 2:**clasion rearrangement reimer tiemann reaction, Kolbes reaction,schotten baumann reac.,

**Week 3:** epoxides(synthesis,ring opening and reac. With Grignard and organolithium reagents

**Week 4: Physical-** Chemical equilibrium constant and free energy, concept of chemical potential

### **NOVEMBER 2023**

**Week 1:** law of chemical equilibrium, vant hoff rxn isotherm and isochore.Le-chatlier principle and clausius clapeyron equation.

#### **Week 2: DIWALI BREAK**

#### **Revision of unit 3**

**Week 3: Physical-**Nernst distribution law, modification of distribution law, Application of distribution law.

**Week 4:** determination of degree of hydrolysis, Determination of equilibrium tri-iodide complex and process of extraction

**Physical-Revision and group discussion.**

**Government PG College for Women, Rohtak**

Department of Chemistry

Session: 2023-2024

Lesson Plan

Semester - III

Name of Faculty : Dr. Sonika

Subject : Inorganic, Organic Physical Chemistry  
B.Sc. II (Medical)

Sections – A and B

**July 2023**

Fourth week – Definition of thermodynamic terms: system, surrounding etc. Types of systems, intensive and extensive properties. State and path functions and their differentials.

**August 2023**

First week – Definition Thermodynamic process. Concept of heat and work. Zeroth Law of thermodynamics

Second week- – First law of thermodynamics: statement, definition of internal energy and enthalpy. Heat capacity, heat capacities at constant volume and pressure and their relationship. Joule's law – Joule – Thomson coefficient for ideal gas and real gas: and inversion temperature.

Third week – Thermodynamics-II Calculation of  $w$ ,  $q$ ,  $dU$  &  $dH$  for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process, Temperature dependence of enthalpy, Kirchhoff's equation.

Fourth week - Bond energies and applications of bond energies and Revision

**September 2023**

First week- Definition of transition elements, position in the periodic table.

General characteristics & properties of 1st transition elements

Second week - Structures & properties of some compounds of transition elements –  $\text{TiO}_2$ ,  $\text{VOCl}_2$ ,  $\text{CuCl}_2$  and  $\text{Ni}(\text{CO})_4$

Third week – Revision and Problem solving

Fourth week – Section-B Chemistry of Elements of IInd & IIIrd transition series

General characteristics, Comparison of properties of 3d elements with 4d & 5d elements with reference only to ionic radii, oxidation state, magnetic and Spectral properties

### **October 2023**

First week – revision and test of Inorganic

Second week- Ultraviolet (UV) absorption spectroscopy: Absorption laws (Beer-Lambert law), molar absorptivity, presentation and analysis of UV spectra

Third week – types of electronic transitions, effect of conjugation. Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and hypochromic shifts.

Fourth week - UV spectra of conjugated enes and enones, Woodward- Fieser rules, calculation of wavelength max of simple conjugated dienes and unsaturated ketones

### **November 2023**

First week- Applications of UV Spectroscopy in structure elucidation of simple organic compounds. Assignment & Test

Second week- Diwali Break

Third week – Carboxylic Acids & Acid Derivatives

Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids. Reactions of carboxylic acids.

Fourth week – Hell-Volhard-Zelinsky reaction. Reduction of carboxylic acids. Mechanism of decarboxylation, Structure, nomenclature and preparation of acid chlorides, esters, amides and acid anhydrides.

### **December 2023**

**First Week** - Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution. Mechanisms of esterification and hydrolysis (acidic and basic).

**Government PG College for Women, Rohtak**

Department of Chemistry

Session: 2023-2024

Lesson Plan

Semester - V

Name of Faculty : Vijaita

Subject : Inorganic and Organic Chemistry

B.Sc. III (Medical)

Section – A & B

**JULY 2023**

Fourth week **Unit I- Metal Ligand Bonding in Transition Metal Complexes**

Limitations of valence bond theory

**AUGUST 2023**

**Inorganic**

First week- An elementary idea of crystal field theory.

Second week - Crystal field splitting in octahedral complexes.

Third week – Crystal field splitting in tetrahedral and square planar complexes.

Fourth week – Factors affecting crystal field parameters.

**Organic**

**Unit- II Carbohydrates**

First week - Classification and nomenclature.

Second week- Monosaccharides.

Third week – Mechanism of osazone formation, interconversion of glucose and fructose.

Fourth week - Chain lengthening and shortening of aldoses.

**SEPTEMBER 2023**

**Inorganic**

**Unit II - Thermodynamic & Kinetic aspects of Metal Complexes**

First week- A brief outline of thermodynamic stability of metal complexes.

Factors affecting the stability of metal complexes.

Second week- Substitution reactions in Square planar complexes of Pt(II) & (Assignment)  
Trans effect

Third week – **Unit – III Magnetic Properties of Transition Metal Complexes**

Types of magnetic behaviour, methods of determining magnetic susceptibility, spin only formula.

Fourth week – LS coupling, correlation of  $\mu_s$  and  $\mu_{eff}$  values. Orbital contribution to magnetic moments.

### **Organic**

First week- Configuration of monosacharides

Second week- Erythro and threo diastereomers.

Third week – Open chain and cyclic structure of D (+)-glucose

Fourth week -- Open chain and cyclic structure of D (-) - fructose

### **OCTOBER 2023**

### **Inorganic**

First week- Application of magnetic moment data for 3d- metal complexes.  
Revision of Unit –III.

Second week- **Unit- IV Electronic Spectra of Transition Metal complexes**

Types of electronic transitions, selection rules for d-d transitions, spectroscopic ground states.

Third week – Spectrochemical series.

Fourth week – Orgel- energy level diagram of  $d^1$ - $d^9$  states.

### **NOVEMBER 2023**

### **Organic**

First week- Mechanism of mutarotation. ribose and Structures of deoxyribose.

Second week- Dewar break

Third week – Introduction to disaccharides and polysaccharides without involving structure determination.

Fourth week -- Introduction to disaccharides and polysaccharides without involving structure determination.

### **DECEMBER 2023**

First week - Discussion of electronic spectrum of  $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$  complexes.

## **Government PG College for women rohtak**

Lesson plan (odd semester) 2023-2024

Department of chemistry

Name of teacher: seema

BSc second year medical (section b c d 3rd semester)

### **July 2023**

**Fourth week** - Introduction to thermodynamics- Definition of thermodynamics terms, system, surrounding etc. Types of system.

### **August 2023**

**First week** - Intensive and extensive properties. State and path functions and their differentials. Thermodynamics process. Concept of heat and work

**Second week** - Zeroth law of thermodynamics, first law of thermodynamics, statement definition of internal energy and enthalpy.

**Third week**- Heat capacity, heat capacities at constant volume and pressure and their relationship.

**Fourth week**- Joule's law, Joule-Thomson coefficient for ideal gas and real gas and inversion temperature

### **September 2023**

**First week**- Calculation of  $w, q, dU$  and  $dH$  for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process.

**Second week**- Temperature dependence of enthalpy, Kirchhoff's equation. Bond energies and application of bond energies.

**Third week**- Equilibrium constant and free energy, concept of chemical potential, thermodynamics derivation of law of chemical equilibrium

**Fourth week**- Temperature dependence of equilibrium constant. Van't Hoff reaction isochore, Van't Hoff equation reaction isotherm.

### **October 2023**

**First week-** Le-chateliers principal and its applications. Clapeyron equation and clausius- Clapeyron equation, and its application

**Second week-** Nernst distribution law- its thermodynamics derivation, modification of distribution law.when solute undergoes dissotiation , assosiation and chemical combination.

**Third week-** Application of distribution law.

**Fourth week-** Determination of degree of hydrolysis and hydrolysis constant of aniline hydrochloryde.

### **November2023**

**First Week-** Determination of equilibrium constant of potassium tri-iodide complex and process of extraction

**Third Week-** test and assignments

**Fourth Week-** Revision of last year questions

Government College for Women, Rohtak

Lesson plan, Odd Semester Session

2023-2024

Department of Chemistry

Name of extension lecturer: Ms. **Sangita**

B.Sc. 1 (Physics Hons.) 1<sup>st</sup> semester

### **July 2023**

Fourth Week-- Bent's rule and applications.

### **August 2023**

First week – Bonding: Qualitative approach to valence bond theory and its limitations.

Second week- Hybridisation, equivalent and non-equivalent orbitals,

Third week- Molecular orbital theory, symmetry and overlap. Molecular orbitals diagrams of diatomic and simple polyatomic systems.

Fourth Week- Organisation of solids: Packing of ions in crystals, close packed structures.

### **September 2023**

First week--- Spinels, ilmenite and perovskite structures of mixed metal oxides. Size effects, radius ratio rules and their limitations.

Second week- Lattice energy, Born equation, Madelung constant, Kapustinskii equation and its applications, Born Haber cycle and its application.

Third week-- Solvation energy, Packing of atoms in metals, qualitative idea of valence bond and band theories, semiconductors

Fourth Week- Defects in solids, conductance in ion solids. Introduction superconductors.

### **October 2023**

First week-- Weak chemical forces: Vander wall forces, Hydrogen Bonding, Effects of chemical forces on m.p., b.p. and solubility, energetic of dissolution process.

Second week- Crystal field theory- measurement of  $10 Dq$  CFSE in weak and strong fields, Pairing energies, factors affecting the magnitude of  $10 Dq$ .

Third week – Octahedral vs. Tetrahedral coordination, tetragonal distortions from octahedral symmetry

Fourth Week-- The Jahn-teller theorem, square-planar coordination ligand field and molecular orbitals theories.

### **November 2023**

First Week- Trans effect, Thermodynamic and kinetic stability of coordination compounds.

Second Week—Diwali Vacations.

Third Week-- Labile and inert complexes. Mechanism of octahedral complexes substitution reactions.

Fourth week- Mechanism of electron transfer reaction in octahedral complexes.

Revision

Government College for Women, Rohtak Lesson plan,  
Odd Semester Session 2023-2024 Department of  
Chemistry

Name of extension lecturer: MS.SANGITA

B.Sc. 1 (Home Science) 1<sup>st</sup> semester

### **July 2023**

Fourth Week- Concept of element, mixture and compound

### **August 2023**

First week - Atomic and molecular masses, mole concept and molecular masses

Second week- Normality, molarity and mass percentage. Simple numerical problems

based on the

Third week – Subatomic particles: Electrons, protons and neutrons. Atomic no., Atomic

## weight, Bohr's Model of an Atom

Fourth Week    Modern periodic law and periodic table. Electronic configuration of elements (Na, Mg, C, N, O, F, Cl, H)

## September 2023

First week-    Periodic properties: atomic size, ionisation energy, Electron affinity, Electronegativity.

Second week--    Chemical bonding: Ionic Bonding, Covalent Bonding, Coordinate, H-Bonding. Chemical Bonding.

Third week--    Concepts of acids, base and salt, pH and pH scale. Numerical based on pH and buffer solutions.

Fourth Week-    Carbon and its characteristics- Tetravalency, catenation Electronegativity, tendency to form multiple bonds.

## October 2023

First week---    Organic compounds, classification of organic compounds, Functional groups

Second week --    IUPAC nomenclature of aliphatic compounds (alkanes, alkenes, alkynes) IUPAC nomenclature of aliphatic compounds (alcohols, carboxylic acids, aldehydes and ketones).

Third week- Classification of carbon atoms in alkanes. Soap and Synthetic Detergents, Advantages and Disadvantages.

Fourth week – Synthetic polymer: Structure and uses of the following polymers (PVC, Teflon, PAN, Nylon-6, 6).

## **November 2023**

First week-            Chemical composition in cosmetics-creams, perfumes, talcum powder, deodorants, lipsticks, nailpolish, shampoo and hair dye

Second Week--        Diwali Vacations

Third week --        Paints and Varnishes their composition and uses

Fourth week- Revision

**Government College For Women, Rohtak**

**Department of Chemistry**

**Name of the Faculty- Pooja Rani**

**Section -A&B**

**Subject -Physical & Organic Chemistry**

**July-2023**

**Quantum Mechanics**

Week 4: Black body radiation, Planks radiation Law, Photoelectric effect.

August 2023

Week 1: Heat capacity of solids, Comptons effect. Wave function and its  
Significance postulates of quantum mechanics.

Week 2: Quantum mechanical operator, commutation relations, Hamiltonian  
Operators, Hermitian operators

NMR- Principle of nuclear magnetic resonance, the PMR spectrum, number of  
signals, peak areas

Week 3: Average value of square of hermitian as a positive quantity, Role of  
operator in quantum mechanics to show quantum mechanically that position and  
momentum can not be predicted

Simultaneously.

Week 4 equivalent and nonequivalent protons positions of signals and chemical  
shift, shielding and deshielding of protons,

September- 2023

Quantum Mechanics

Week1 : determination of wave function and energy of particle in one dimensional box  
Second Week- pictorial representation and its significance. Numerical problems.

(Assignment & Test).

Week 2: Optics I activity, Clausius – Mossotti equation. Orientation of dipoles in an electric field, dipole moment, induced dipole moment

WEEK 3: measurement of dipole moment-temperature method and refractivity method, dipole moment and structure of molecules,

NMR- proton counting splitting of signals and coupling constants, magnetic

Equivalence of protons

WEEK 4: Magnetic permeability, magnetic susceptibility and its determination. Application of magnetic susceptibility, magnetic properties-paramagnetism, diamagnetism and ferromagnetism.

NMR Spectroscopy-II Discussion of PMR spectra of the molecules: ethyl bromide, n-propyl bromide, Simple problems on PMR

October 2023

WEEK 1: Spectroscopy-introduction: Electromagnetic radiation, regions of spectrum, basic features of spectroscopy, statement of Born-Oppenheimer approximation, Degrees of freedom.

WEEK 2: Rotational Spectrum Diatomic molecule Energy levels of rigid rotator (semi classical principles), selection rules

WEEK 3: Test of unit 2, spectral intensity distribution using population distribution (Maxwell-Boltzmann distribution), determination of bond length, isopropyl bromide, 1,1-dibromoethane, 1,1,2-tribromoethane, ethanol, acetaldehyde, ethyl acetate, toluene, benzaldehyde and acetophenone..

WEEK 4: qualitative description of non-rigid rotor, isotope effect, Vibrational spectrum Infrared spectrum: Energy levels of simple harmonic oscillator, selection rules, pure vibrational spectrum, intensity

Spectroscopy for structure determination of organic compounds (Assignment & Test)

November-2023

WEEK 1: determination of force constant and qualitative relation of force constant and bond energies, effects of anharmonic motion and isotopic effect on the spectra. Idea of vibrational frequencies of different functional groups. Raman Spectrum: Concept of polarizability. Organometallic Compounds

Organomagnesium Compounds, the Grignard reagent formation and structure chemical reaction of Grignard Reagent

WEEK 3: pure rotational and pure vibrational Raman spectra of diatomic molecules, selection rules, Quantum theory of Raman spectra

- Organo zinc compounds, formation, - chemical reactions of organozinc compounds organolithium compounds chemical reactions of organolithium compounds.

WEEK 4 Revision and question discussion

## **Lesson Plan July-Nov 2023**

Name: Dr. Manju Vashistha

Class: B.Sc I(NM) I<sup>st</sup> Sem, Sec A, Sec B

Paper code: Phy-101

Subject Name: Mechanics

Number of days: 4-6, 1-3

24 July– 24 August	Introduction of complete syllabus Unit I introduction, mechanics of a single particle, conservation law of linear and angular momentum Conservation law of energy for single particle, system of particle, centre of mass and equation of motion Conservation law of linear and angular momentum of system of particles Test and assignment of unit I, introduction to unit II, Generalised coordinates, velocity, acceleration, momentum, force and potential energy in terms of generalised coordinates
25 August – 25 September	Hamilton's variational principle, Lagrange's equation of motion from Hamilton's principle Linear harmonic oscillator, simple pendulum Atwood's machine, Numerical related problems Test and assignment of unit II, introduction to unit III rotational motion, moment of inertia.
26 September – 26 October	Torque, angular momentum, kinetic energy of rotation Theorems of perpendicular and parallel axes with proof Numerical problem and test of completed unit Moment of inertia of solid sphere, hollow sphere Moment of inertia of spherical shell and solid cylinder
27 October – 24 November	Moment of inertia of hollow cylinder and solid bar of rectangular cross-section Acceleration of a body rolling down an inclined plane Numerical problems and doubt class Test and assignment of unit III

## **Lesson Plan 2023-24 (ODD SEM)**

Name: Mr. Pardeep Kumar

Class: B.Sc II(Hons) III Sem

Paper code: Phy-304

Subject Name: Quantum Mechanics

Number of days: 4-6

24 JULY- 24 AUG	Photoelectric effect. Compton effect. Reduced mass correction. De Broglie hypothesis. Wave particle duality. Davisson-Germer experiment. Wave packets. Two Slit experiment with electrons. Wave amplitude and wave functions, Probability.
25 AUG- 25 SEPT	Uncertainty principle. Basic postulates and formalism: Schrodinger equation, wave function, eigenvalues, probabilistic interpretation, conditions for physical acceptability of wave functions. Free particle.. Scattering problem in one dimension : Reflection and transmission by a finite potential step. Stationary solutions, Attractive and repulsive potential barriers. Gamow theory of alpha decay.
26 SEPT- 26 OCT	Quantum phenomenon of tunneling. Tunnel diode-qualitative description. Spectrum for a square well (mention upper bound-no calculation). Bound state problems: General features of a bound particle system. Uncertainty principle. Basic postulates and formalism: Schrodinger equation, wave function, eigenvalues.
27 OCT- 24 NOV	One-dimensional simple harmonic oscillator. Particle in a spherically symmetric potential rigid rotator. Orbital angular momentum and azimuthal quantum numbers and space quantization. Physical significance. Radial solutions and principal quantum number. Hydrogen atom. . Time independent Schrodinger equation, stationary states. Particle in onedimensional box, quantization of energy. Franck-Hertz experiment.

### **Lesson Plan 2023-24(ODD SEM)**

Name: VIKAS SHARMA

Class: Final year (Hons) Physics

Paper code: PHY 504

Subject Name: ***Physics of Materials-II***

Number of Days – 4-6

24JULY- 24AUG	Amorphous and crystalline materials. Lattice translation vectors. Lattice with a basis-central and non-central elements. Unit cell, reciprocal lattice. Types of lattices. Crystal diffraction : Bragg's law, diffraction of X-rays,
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25AUG- 25SEPT	Atoms and geometrical structure factor. X-ray diffraction methods – measurement of lattice parameter for cubic lattices. Lattice vibrations. Linear monoatomic and diatomic chains. Acoustical and optical phonons. Qualitative description of the phonon spectrum in solid Brillouin zones
26SEPT- 26OCT	Debye theories of specific heat of solids $T^3$ law. Magnetic Properties of Matter, Response of substances of magnetic field Dia, para and ferri and ferromagnetic materials. Classical Langevin theory of dia and paramagnetic domains.
27OCT- 24NOV	Quantum mechanical treatment of paramagnetism. Curle's law, Weiss's theory of ferromagnetism and ferromagnetic domains and discussion of B.H hysteresis. Qualitative discussion of ferrimagnets and ferrites

## **Lesson Plan 2023-**

### **24(ODD SEM)**

Name: Mr. Pardeep Kumar

Class: B.Sc III(NM) Vth Sem

Paper code: Phy-502

Subject Name: Quantum Mechanics

Number of days: 1-3(SEC-A)

24 JULY- 24 AUGUST	Failure of (Classical) E.M. Theory. quantum theory of radiatio (old quantum theory), Photon, photoelectric effect and Einsteins photoelectric equation compton effect (theory and result). Inadequacy of old quantum theory, de-Broglie hypothesis. Davisson and Germer experiment. G.P. Thomson experiment. Phase velocity group velocity, Heisenberg's uncertainty principle.
25 AUGUST- 25SEPT	Time-energy and angular momentum, position uncertainty Uncertainty principle from de-Broglie wave, (wave-partice duality). Gamma Ray Macroscope, Electron diffraction from a slit. Derivation of time dependent Schrodinger wave equation, eigen values, eigen functions, wave functions and its significance.
26 SEPT- 26OCT	Normalization of wave function, concept of observable and operator. Solution of Schrodinger equation for harmomic oscillator ground states and excited states. Application of Schrodinger equation in the solution of the following one-dimensional problems.
27 OCT- 24 NOV	Free particle in one dimensional box (solution of schrodinger wave equation, eigen function, eigen values, quantization of energy and momentum, nodes and antinodes, zero point energy). i) One-dimensional potential barrie $E > V_0$ (Reflection and Transmission coefficient. ii) One-dimensional potential barrier, $E > V_0$ (Reflection Coefficient, penetration of leakage coefficient, penetration depth).

## **Lesson Plan july-nov 2023**

Name: MS. ANJU RANI

Class: B.Sc III(NM) Vth Sem

Paper code: Phy-501

Subject Name: Solid State Physics

Number of days: 1-3(SEC-B) & 4-6(SEC- A & C)

24july- 24aug	Crystalline and gallssy forms, liquid crystals. Crystal structure, periodicity, lattice and basis, crystal translational vectors and axes. Unit cell and primitive cell, Winger Seitz primitive Cell, symmetry operations for a two dimensional crystal.
25aug- 25sept	Bravais lattices in two and three dimensions. crystal planes and Miller indices, Interplaner spacing, Crystal structures of Zinc sulphide. Crystal structures of Sodium Chloride and diamond. Numerical Problems. Test of unit -1.
26sept- 26oct	X-ray diffraction, Bragg's Law and experimental x-ray diffraction methods, K-space. Reciprocal lattice and its physical significance, reciprocal lattice vectors, reciprocal lattice to a simple cubic lattice, b.c.c and f.c.c.
27oct- 24nov	Specific heat : Specific heat of solids, Einstein's theory of specific heat, Debye model of specific heat of solids. Numerical Problems and doubts. Test and Assignments.

## **Lesson Plan 2023-24 (ODD SEM)**

Name: MS. SANEHAA

Class: B.Sc III(NM) Vth Sem

Paper code: Phy-502

Subject Name: Quantum Mechanics

Number of days: 1-3(SEC-C) & 4-6(SEC- B)

24 JULY- 24 AUG	Failure of (Classical) E.M. Theory. quantum theory of radiatio (old quantum theory), Photon,photoelectric effect and Einsteins photoelectric equation compton effect (theory and result). Inadequancy of old quantum theory, de-Broglie hypothesis. Davisson and Germer experiment. G.P. Thomson experiment. Phase velocity group velocity, Heisenberg's uncertainty principle.
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25 AUG- 25 SEPT	Time-energy and angular momentum, position uncertainty Uncertainty principle from de-Broglie wave, (wave-partice duality). Gamma Ray Maciroscope, Electron diffraction from a slit. Derivation of time dependent Schrodinger wave equation, eigen values, eigen functions, wave functions and its significance.
26 SEPT- 26 OCT	Normalization of wave function, concept of observable and operator. Solution of Schrodinger equation for harmomic oscillator ground states and excited states. Application of Schrodinger equation in the solution of the following one-dimensional problems.
27 OCT-24 NOV	Free particle in one dimensional box (solution of schrodinger wave equation, eigen function, eigen values, quantization of energy and momentum, nodes and antinodes, zero point energy). i) One-dimensional potential barrie $E > V_0$ (Reflection and Transmission coefficient. ii) One-dimensional potential barrier, $E > V_0$ (Reflection Coefficient, penetration of leakage coefficient, penetration depth).

### **Lesson Plan Odd Sem (Session-2023-24)**

Name: Neha

Class: Final year (Hons) Physics

Paper code: PHY 503

Subject Name: Statistical physics

Number of Days – 3

24 July – 31 July	22 Aug – 22 Sept	Introduction to statistical physics, Basic concepts of SM
1 Aug- 31 Aug	23 Sept – 19 Oct	thermodynamical probability, entropy, partition function, MB statistic Thermodynamical function of ideal gas and their relation with partitio function,
1 Sept – 30 Sept	20 Oct- 26 Oct	Entropy of Ideal gas and gibbs paradox, Law of equipartition of energy and its applications, Introduction to radiation, assignment and Test, Numerical problems
1 Oct– 30 Oct	27 Oct – 27 Nov	Properties of Radiations , black body radiation , krichoff law, wiens displacement law, stefens law , Planks law of black body radiation, deduction of wiens displacement law ,wiens law, steffens law with planks law.
1 Nov – 24 Nov	28 Nov – 17 Dec	Introduction of LASER, basic principle and working. Thermal eq. of radiation , principle of detailed balance ,Einstein A and B coefficients, two level and three level systems, test ,assignments,

### **Lesson Plan Odd Sem (Session-2023-24)**

Name: Neha

Class: Final year (Hons) Physics

Paper code: PHY 506

Subject Name: **Nano technology**

Number of Days – 3

24 July – 31 July	Introduction of nano physics, properties of nano materials,
1 Aug- 31 Aug	example of nano materials,. Application of NMs, distinguished features of NMs Free electron theory and its features ,drawbacks and success of free electron theory,
1 Sept – 30 Sept	idea of band structure, metal ,insulator and semiconductor, formation of bands, Density of state in bands , density of states in 1D ,2D, 3D, AND 0D, Numerical problems, Test and assignments
1 Oct– 30 Oct	variation of density of state with band gap and size of crystal, Variation of DOS with energy, K P model, Brillion zones ,Effective mass, Test and assignments
1 Nov – 24 Nov	K P model, Brillion zones, Effective mass, electron confinement in two D AND 1D. Idea of quantum well structure, quantum dots ,quantum wires ,test,assignments and numerical problems

### **Lesson Plan July – Nov 2023**

Name: Dr. Manju Vashistha

Class: B.Sc II (NM) 3rd Sem, sec C

Paper code: Phy-302

Subject Name: Optics

Number of days: (1-3)

24 July – 24 August	Introduction of unit III, interference of light , types of interference Young's double slit experiment, coherent sources, conditions for good interferences, analytical treatment of interference. Physical optics, Fresnel's biprism, fringes with white light using Biprism, determination of thickness of thin sheet of transparent material, Lloyd mirror, difference between Biprism and Lloyd mirror fringes, phase changes on reflection (stokes law)
25 August – 25 September	Introduction of I unit, speed of transverse waves on a uniform string, Speed of longitudinal waves in fluid, superposition of waves (Physical idea Fourier theorem and Fourier series), evaluation of Fourier coefficients, Limitations of Fourier theorem(Dirichlet conditions), importance of Fourier theorem.
26 September – 26 October	Even and odd functions, complex form of Fourier series, Analysis of Rectangular wave or square wave, triangular wave, Halfwave and fullwave rectifier Fourier transforms and its properties with applications, <i>Test and assignment of unit I</i> Introduction of Unit II, Matrix methods in paraxial optics effects of translation and refraction Derivation of thin lens and thick lens formulae
27 October – 24 November	Unit plane nodal planes, System of thin lenses, Introduction to aberrations, chromatics, spherical, coma, astigmatism and distortion aberrations Revision and Test

### **Lesson Plan 2023-24 (Odd Sem.)**

Name: Dr. Ekta

Class: B.Sc I (NM) I<sup>st</sup> Semester, Sec A, B & C

Paper code: Phy-102

Subject Name: Electricity and Magnetism

Number of days: 1-6

01 August – 31 August	Scalars and Vectors, dot and cross product, Triple vector Product, Scalar and Vector fields, Differentiation of a vector, Gradient of a scalar and its Cartesian coordinate, divergence of a vector field physical significance
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01 September – 30 September	Integration of a vector (line, surface and volume integral and their physical significance) Curl of a vector field, Gauss's theorem and Stokes theorem, Derivation of electric field, Derivation of Laplace and Poisson equation, Electric Flux Gauss's law and its application, Mechanical force of charged surface, Energy per unit volume
01 October- 31 October	Magnetic induction, magnetic flux, properties of magnetic induction Electronic theory of dia and paramagnetism, Domain theory of ferromagnetism Cycle of magnetization, Energy dissipation, Hysteresis loss and importance <b>(Test)</b> Maxwell's equation and their derivation, vector and scalar potentials
02 November – 24 November	Boundary conditions at interface between two different media Electromagnetic wave idea, Poynting vector and theorem <b>(Revision) (Test)</b>

### **Lesson Plan 2023-24 (Odd Sem.)**

Name: Dr. EKTA

Class: B.Sc. II (Non-Medical) Semester-3 SEC -C

Paper code: Phy-201

Subject Name: Computer Programming and Thermodynamics

Number of days: Thursday, Friday, Saturday

01 August – 31 August	Second law of thermodynamics, Carnot theorem, Absolute scale of temperature, Absolute Zero, Entropy, show that $dQ/T=0$ , T-S diagram and Nernst heat law, Joule's free expansion, Joule Thomson (Porous plug) experiment. Joule - Thomson effect, Liquefaction of gases. Air pollution due to internal combustion Engine.
01 September – 30 September	Thermodynamics-II : Derivation of Clausius - Clapeyron latent heat equation Phase diagram and triple point of a substance, Development of Maxwell thermo dynamical relations. Applications of Maxwell relations. Thermodynamic Function: Internal energy, Helmholtz Function, Enthalpy, Gibbs Function and relation between them
01 October- 31 October	Computer Organisation, Primary and Algorithmic development Flow Charts and FORTRAN preliminaries Built-in functions and Executable/Non-Executable statements
02 November – 24 November	Input/output and IF, DO and GO TO statements Dimension array and function Sub Program

## **Lesson Plan Nov 2022- Dec 2023**

Name: Renu Kumari

Class: B.Sc.-1<sup>st</sup> (Hons.) Physics

Paper code: PHY 102

Subject Name: Mechanics-I

01 Aug – 31 Aug	Motion of charged particle in electric and magnetic fields. Dynamics of a system of particles, Centre of mass Conservation of momentum.,Idea of conservation of momentum from Newton's third law impulse
01 Sept – 30 Sept	Momentum of variables mass system: motion of rocket, Work-energy theorem. Potential energy, Energy diagram. Stable and unstable equilibrium., Conservative and non-conservative forces. Force as gradient of potential energy, Particle collisions. Centre of mass frame and laboratory frame, Angular momentum of a particle and system of particles
01 Oct- 31 Oct	Torque, Conservation of angular momentum, Rotation about a fixed axis Moment of inertia, Calculation for rectangular and cylindrical bodies; idea of calculation for spherical bodies, Kinetic energy of rotation.
01 – 24 Nov	Motion involving both translation and rotation, Oscillatory Motion, Motion of simple and compound pendulum. Loaded spring, Energy considerations. Time average of energy. Damped harmonic oscillator Resonance in a lightly damped system

## **Lesson Plan July 2023-24**

Name: Dr. Sonu

Class: Final year (Hons) Physics

Paper code: PHY 502

Subject Name: Electromagnetic Theory -1

Days :4-6

01 August – 31 August	Maxwell equations and Displacement current, Vector and Scalar potentials, Gauge transformations, Lorentz and Coulomb gauge
01 September – 30 September	Wave equations. Plane waves in dielectric media, Poynting theorem and Poynting vector. Energy density, Physical concept of electromagnetic (e.m) field momentum density and e.m field angular momentum density
01 October- 31 October	Boundary conditions at interface between different media, Reflection and refraction of a plane wave, Fresnel Formulae for dielectric interface,
02 November – 24 November	Total internal reflection Brewster's angle, Conductivity of ionized gas Propagation of e.m. waves in ionosphere and Test of Unit-2

### **Lesson Plan 2023- 23**

Name: Dr. Sonu

Class: Final year (Hons) Physics

Paper code: PHY 501

Subject Name: Mathematical Physics -1

Number of Days - 3

01 August – 31 August	Introduction to groups, rings and fields. Vector spaces and subspaces. Linear independence-basis and dimensions. Linear transformations. Algebra of linear transformations. Non-singular transformations. Isomorphism. Representation of linear transformations by matrices
01 September – 30 September	Addition and multiplication null and unit matrices. Singular and nonsingular matrices. Inverse of a matrix Eigenvalues and eigenvectors Digitalization solution of coupled linear ordinary differential equations
01 October- 31 October	Hermitian and skew symmetric and antisymmetric, orthogonal and unitary matrices Similarly transformations and bilinear and quadratic forms. Trace of a matrix Cayley-Hamilton theorem
02 November – 24 November	Function of a matrix. Inner product and metric concept

**Lesson Plan Odd Sem (Session-2023-24)**

Name: Renu Kumari

Class: B.Sc.-1<sup>st</sup> (Hons) Physics

Paper code: PHY 101

Subject Name: Mathematical Physics-I

01 Aug – 31 Aug	Review of vector algebra- addition, subtraction and product of two vectors, Polar and axial vectors and their examples from physics, Polar and axial vectors and their examples from physics, Triple and quadruple product (without frenet-Serret formulae)
01 Sept – 30 Sept	Scalar and vector fields, differentiation of a vector w.r.t. a scalar, Unit tangent vector and unit normal vector (without Frenet- Serret formulae), Directional derivatives, gradient, divergence, curl and Laplacian operations and their meaning
01 Oct- 31 Oct	Idea of line, surface and volume integrals. Gauss, Stokes and Green's Theorems, Orthogonal curvilinear coordinates, Derivation of gradient, divergence, Curl and Laplacian in Cartesian, spherical and cylindrical coordinate systems
01 – 24 Nov	Change of variables and Jacobian. Evaluation of line surface and volume integrals, Constrained maxima and minima, Method of Lagrange undetermined multipliers and its application, Variational principle Euler-Lagrange equation and its application

**Lesson Plan 2023-24 (Odd Sem.)**

Name: Mr. Vikas

Class: B.Sc. II (Non-Medical) Semester-3 (SEC – A & B)

Paper code: Phy-201

Subject Name: Computer Programming and Thermodynamics

Number of days: 1-6

01 August – 31 August	Second law of thermodynamics, Carnot theorem, Absolute scale of temperature, Absolute Zero, Entropy, show that $dQ/T=0$ , T-S diagram and Nernst heat law, Joule's free expansion, Joule Thomson (Porous plug) experiment. Joule - Thomson effect, Liquefaction of gases. Air pollution due to internal combustion Engine.
01 September – 30 September	Thermodynamics-II : Derivation of Clausius - Claperyron latent heat equation Phase diagram and triple point of a substance, Development of Maxwell thermo dynamical relations. Applications of Maxwell relations. Thermodynamic Function: Internal energy, Helmholtz Function, Enthalpy, Gibbs Function and relation between them
01 October- 31 October	Computer Organisation, Primary and Algorithmic development Flow Charts and FORTRAN preliminaries Built-in functions and Executable/Non-Executable statements
02 November – 24 November	Input/output and IF, DO and GO TO statements Dimension array and function Sub Program

### **Lesson Plan Odd Sem (Session-2023-24)**

Name: Ms. Anju Rani

Class: B.Sc. Physics (H) Semester-III

Paper code: Phy-301

Subject Name: Mathematical Physics III

Number of Days: Monday, Tuesday, Wednesday

24 july-24 Aug	Importance of complex numbers and their graphical representation. De Moivre's theorem. Roots of complex numbers. Euler's formula. Functions of complex variables. Cauchy-Riemann conditions. Analytic functions. Singularities.
25aug-25sept	Differentiation and integration of a function of a complex variable. Cauchy's theorem. Cauchy's integral formula. Morera's theorem. Cauchy's inequality. Liouville's theorem. Fundamental theorem of algebra.

26sept-26oct	Multiple valued functions, simple ideas of branch points and Riemann surface. Power series of a complex variable, Taylor and Laurent series, Residue and residue theorem. Multiple valued functions. Contour integration and its application to evaluation of integrals.
27oct-24nov	Series Solution of Linear Second order Ordinary Differential Equations: Singular points of second order differential equations and their importance. Series methods (Frobenius) Legendre. Bessel, Hermite and Laguerre differential equations.

### **Lesson Plan July – Nov 2023**

Name: Ms. Neeraj Kadian

Class: B.Sc I(NM) I<sup>st</sup> Sem, Sec C

Paper code: Phy-101

Subject Name: Mechanics

Number of days: 4-6

01 August – 31 August	Introduction of complete syllabus Unit I introduction, mechanics of a single particle, conservation law of linear and angular momentum Conservation law of energy for single particle, system of particle, centre of mass and equation of motion Conservation law of linear and angular momentum of system of particles Test and assignment of unit I, introduction to unit II, Generalised coordinates, velocity, acceleration, momentum, force and potential energy in terms of generalised coordinates
01 September – 30 September	Hamilton's variational principle, Lagrange's equation of motion from Hamilton's principle Linear harmonic oscillator, simple pendulum Atwood's machine, Numerical related problems Test and assignment of unit II, introduction to unit III rotational motion, moment of inertia.

01 October- 31 October	Torque, angular momentum, kinetic energy of rotation Theorems of perpendicular and parallel axes with proof Numerical problem and test of completed unit Moment of inertia of solid sphere, hollow sphere Moment of inertia of spherical shell and solid cylinder
02 November – 24 November	Moment of inertia of hollow cylinder and solid bar of rectangular cross-section Acceleration of a body rolling down an inclined plane Numerical problems and doubt class Test and assignment of unit III

### **Lesson Plan July – Nov 2023**

Name: Ms. Neeraj Kadian

Class: B.Sc II (NM) 3rd Sem, Sec A, Sec B

Paper code: Phy-302

Subject Name: Optics

Number of days: (1-3), (4-6)

01 August- 31 August	Introduction of I unit, speed of transverse waves on a uniform string, Speed of longitudinal waves in fluid, superposition of waves (Physical idea Fourier theorem and Fourier series), evaluation of Fourier coefficients, Limitations of Fourier theorem (Dirichlet conditions), importance of Fourier theorem. Even and odd functions, complex form of Fourier series, Analysis of Rectangular wave or square wave, triangular wave, Halfwave and fullwave rectifier Fourier transforms and its properties with applications, <i>Test and assignment of unit I</i>
01 September – 30 September	Introduction of Unit II, Matrix methods in paraxial optics effects of translation and refraction Derivation of thin lens and thick lens formulae Unit plane nodal planes, System of thin lenses, Introduction to aberrations, chromatics, spherical, coma, astigmatism and distortion aberrations
01 October – 31 October	Introduction of unit III, interference of light, types of interference Young's double slit experiment, coherent sources, conditions for good interferences, analytical treatment of interference Introduction of syllabus
02 November – 24 November	Physical optics, Fresnel's biprism, fringes with white light using Biprism, determination of thickness of thin sheet of transparent material, Lloyd mirror, difference between Biprism and Lloyd mirror fringes, phase changes on reflection (Stokes law), Revision and Test

## Lesson Plan 2023-24 (ODD SEM)

Name: Ms. Sanehaa

Class: B.Sc.5<sup>th</sup> Sem (Hons.)

Paper code: PHY-505

Subject Name: Electronics Devices

Class working days: (1-3)

24JULY-24 AUG	Basic semiconductor physics ,p and n type semiconductors Energy level diagram, conductivity and mobility, p-n junction fabrication (simple idea). Barrier formation in p-n junction diode, current flow mechanism in forward and reverse biased diode. Single p-n junction devices (physical explanation, current voltage characteristics)
25AUG-25SEPT	One or two applications and Two terminal devices-rectifier diode, Zener diode, photo diode, LED, solar cell and varactor diode. Two junction devices p-n-p and n-p-n transistors, physical mechanism of current flow, active, cutoff and saturation regions.
26SEPT-26OCT	Transistor in active region and equivalent circuit. Three terminal devices junction field effect transistor (FET) unijunction transistor (UJT) and their equivalent circuits
27 OCT-24NOV	Mesh analysis for d.c. and a.c. Nodal analysis duality in networks. To Equivalent of a four terminal network. Thevenin and Norton theorem with Circuit diagram . Maximum power transfer superposition and reciprocity theorems. Z, Y, H parameters

### Lesson Plan Odd Sem (Session-2023-24)

Name: Ms. SANKET

Class: B.Sc. Physics (H) Semester-I

Paper code: Phy-106

Subject Name: Linear and Digital Integrated Circuits & Instrumentation-I

Number of days: Thursday, Friday, Saturday

24 July – 31 July	Introduction to the paper, Active and passive components, discrete component circuits, water, chip advantages of integrate circuits, MSI, LSI and VLSI (basic idea and definitions only).
1 Aug- 31 Aug	Operational Amplifiers (Op-Amp), Basic characteristics without detailed internal circuit of IC. Requirement of ideal voltage amplifier Characteristics of ideal operational amplifier, feedback in amplifier (black box approach), Class Test, Open loop and close loop gain, inverting and non-inverting amplifier Zero crossing detector, Application of op-amps: Mathematical operations addition, multiplication, Numerical practice. Integration and differentiation, Numerical practice, Electronic circuits – oscillator (Wien's bridge) .rectangular wave generators ,Assignment taken. triangular wave
1 Sept – 30 Sept	generators Digital Circuits: Difference between analog and digital circuits, binary numbers, binary to decimal conversion, Numerical AND, OR and NOT gates (realization using diodes and transistor , Boolean algebra, Boolean equations of logic circuits de Morgan theorem, NOR and NAND gates. Combinational logic: Boolean laws and theorems. sum of products method of realizing a circuit for a given truth table lass test, truth table to kamaugh map and simplification (elementary idea).
1 Oct– 30 Oct	Data processing circuits: Multiplexes,De-multiplexers, decoders, encoders, exclusive OR gate, parity checker Read-only memories (ROM), PROM, EPROM. . Assignment taken. Arithmetic circuits: Binary addition and subtraction (only 2's complement method), numerical practice
1 Nov – 24 Nov	. Half adders and full adders and sub tractors (only up to eight bitts). Numerical practice

### **Lesson PlanOdd Sem (Session-2023-24)**

Name: Ms. SANKET

Class: B.Sc. Physics (H) Semester-III

Paper code: Phy-302

Subject Name: Thermal Physics- I

Number of Days: Monday, Tuesday, Wednesday

24 July – 31 July	Introduction to the Paper. Basic definitions. Derivation of pressure exerted by gas Derivation of Maxwell law of distribution of velocities Experimental verification of Maxwells distribution. Mean free path(introduction) , Problem discussion assignment , Mean free path and its Derivation for mean free path
1 Aug- 31 Aug	Transport phenomena :Viscosity, Conduction , Diffusion .Brief introduction to Brownian Motion. . Brownian motion. The theory of Einstein The theories of Langevin and experimental determination of Avogadro's number
1 Sept – 30 Sept	Examples of Brownian motion in physics (galvanometer mirror, sedimentation, Johnson's noise, Ideal gases: Equation of state, internal energy, specific heats, entropy, Isothermal and Adiabatic processes. Compressibility and expansion coefficient. Adiabatic lapse rate
1 Oct– 30 Oct	Class test, Real gases: Deviations from the ideal gas equation. The virial equation Andrew's experiments on CO <sub>2</sub> gas, continuity of liquid and gaseous state. Van der Wall's equation Class test, Critical constants and law of corresponding states.
1 Nov – 24 Nov	. Free expansion, Joule-Thomson Effect. Assignment taken .Numerical Practice, Problem discussion

### **Lesson Plan july-Nov 2023**

Name:Pooja Rani

Class: B.Sc II (hons) 3rd Sem,

Paper code: Phy-303

Subject Name: wave Optics

Number of days: 4-6

24 july -24 august	Introduction and free oscillations, degree of freedom
	Linearity and superposition principle, simple harmonic motion
	Characteristics of SHM, superposition of two collinear harmonic oscillator
	Simple pendulum, superposition of Anharmonic oscillation
25august-25 sept	Beat and system with one and two degree of freedom
	Coupled oscillator with same frequency and oscillator with different frequency oscillator
	Waves , type of waves,wave equation, travelling wave equation
	Phase velocity, energy transport of travelling wave, standing wave, group velocity

26 sept-26 october	Normal coordinates, normal modes, energy of vibrating string, plucked string, stretched string
	<i>Introduction to modes, light sources , em nature of light, coherence</i>
	Interference, light sources, classification in terms of amplitude and wavefront
	Young double slit experiment, llyod mirror, fresenal biprism
	Thin films, wedge shaped films, haidinger fringes, fizeau fringes
27 oct-24 november	Michelson interferometer, theory of fringes, application theory of partial coherence
	<i>Coherence, numerical, time and length</i>
	Fabry perot interferometer, airy formula, visibility of fringes, sharpness of fringes

### **Lesson Plan July –Nov 2023**

Name: Ms. POOJA RANI

Class: B.Sc.Ist Sem (Hons.)

Paper code: PHY-103

Subject Name: Electricity

Class working days: 1-3

24july-24august	Introduction to electricity, and electric circuit, kirchoffs 1 <sup>st</sup> law and numerical, kirchoffs 2 <sup>nd</sup> law, Kirchoff's law for AC and DC circuits
	Series and parallel resonant circuits, AC brigde , anderson's bridge with numericals
25august-25 sept	Thevinins theorem,numerical and Norton theorem,Electric field , electric field lines, electric charge, quantisation of electric charge,columbs law,superposition,electric field, gauss law, line integral, electric potential
26sept-26 october	Force and torque on dipole, laplace equation, uniqueness theorem, conductors and isolated conductors Method of image for plane sheet and sphere, electrostatic energy, System of point charge , condenser nuclear electric field, Dielectric properties of matter and polarisation
27october-24 november	Dielectric polarisation of charges and Gauss law in dielectrics, Field vectors, D and E with boundary conditions, merical problems and doubt class

<b>Lesson Plan for Session 2023-24(Odd Semester)</b>	
<b>Department of Geography</b>	
<b>Subject: Geography</b>	<b>Class: M.A First Year, Teacher Name: Satish Kumar</b>
<b>Paper: Climatology</b>	<b>Paper Code: 17GEO21C2</b>
<b>Date</b>	<b>Topic</b>
16.08.2023 to 19.08.2023	Nature and Scope of Climatology
21.08.2023 to 26.08.2023	Climatic Elements: Atmospheric Temperature & Pressure
28.08.2023 to 02.09.2023	Assignment 1: Climatic Elements: Moisture and Atmospheric Circulation
04.09.2023 to 09.09.2023	Climatic Elements: Moisture and Atmospheric Circulation
18.09.2023 to 23.09.2023	Unit Test-1: Weather System and Disturbances: Air Mass and Fronts
25.09.2023 to 30.09.2023	Revision Unit- 1
02.10.2023 to 07.10.2023	Weather System and Disturbances: Cyclones and Tornadoes
09.10.2023 to 14.10.2023	Assignment 2: Oceanic Atmospheric Interaction- El Nino and Monsoon Winds
16.10.2023 to 21.10.2023	Approaches to Climatic Classification: Koppen
23.10.2023 to 28.10.2023	Unit Test-2: Climatic Classification: Thornthwaite, Major Climates of World
30.10.2023 to 04.11.2023	Climatic Changes: Evidences and Possible Causes
06.11.2023 to 11.11.2023	Climatic Changes: Evidences and Possible Causes
13.11.2023 to 18.11.2023	Assignment 3: Global Warming and Problems of Acid Rain
20.11.2023 to Onward	Unit Test-3: Revision

Session 2023-24  
M.A Ist Semester  
Geomorphology  
Dr. Anju Bala

16.8.23 to 19.8.23 : Nature and scope of Geomorphology, history of Geomorphic thoughts

21.08.23 to 26.08.23 : Fundamental concepts of Geomorphology and Earth's interior

28.08.23 to 02.09.23 : Plate tectonics, revision of first unit

04.09.23 to 09.09.23 : Endogenetic processes; Fault and Fold

11.09.23 to 16.09.23 : Volcanism and earthquake

18.09.23 to 23.09.23 : class test of first unit, weathering and mass wasting

25.09.23 to 30.09.23 : seminars

03.10.23 to 07.10.23 : Fluvial and Arid process and landforms

09.10.23 to 14.10.23 : Glacial and Karst process and landforms

16.10.23 to 21.10.23 : class tests of unit 3

23.10.23 to 28.10.23 : Meaning and application of geomorphology in Regional planning

30.10.23 to 04.11.23 : Mineral exploration and Hydrology

06.11.23 to 09.11.23 : Seminars

18.11.23 to 25.11.23 : Regional Geomorphology of Punjab Plain and Aravali region

27.11.23 to 02.12.23 : Thar Desert of India

04.12.23 onwards : Revision of Syllabus

## **Lesson Plan of M.A. 1st sem Resource Geography (16GEO21C3) (Dr. Bindu) (2023-24)**

**21.08.23 to 26.08.23:** Resource geography-Definition , nature and scope, relationship with other discipline, approaches of the study of Geography of resources

**28.8.23 to 2.09.23:** Significance of Geography of resources, definition and concept of resources.

**4.09.23 to 9.09.23:** classification of resources

**11.09.23 to 16.09.23:** Zimmerman's Primitive and advance models of natural resource process

**18.09.23 to 23.09.23:** Kirk's Decision Model, Brookfield System Model

**25.09.23 to 30.09.23** Soil resources and water resources,

**2.10.23 to 7.10.23:** Uses and misuse of resources, Forest resources

**09.10.23 to 14.10.23:** Mineral resources, uses and misuses

**16.10.23 to 21.10.23:** Future prospects of natural resources and tests and submission of assignments

**30.10.23 to 4.11.23:** Meaning and concept of conservation of natural resources, resource conservation and management methods of soil resources

**6.11.23 to 9.11.23:** Resource conservation and management method of water resources

**17.11.23 to 24.11.23:** Forest resources, Problems of natural resource management in India

**25.11.23:** Onwards Revision and class tests

Session 2023-24  
M.A Ist Semester  
Statistical Methods in Geography  
Mrs. Deepak Malik

16.8.23 to 19.8.23 : Geography and statistics and significance  
21.08.23 to 26.08.23 : Primary and secondary data  
28.08.23 to 02.09.23 : Levels of data measurement  
04.09.23 to 09.09.23 : Revision of first unit and Mean  
11.09.23 to 16.09.23 : Median , Mode and Centographic techniques  
18.09.23 to 23.09.23 : class test of Mean, Median and Mode , calculation of Mean Deviation  
25.09.23 to 30.09.23 : Standard Deviation and co- Efficient of Variation  
03.10.23 to 07.10.23 : Location Quotient and Revision of Mean Deviation and Standard Deviation  
09.10.23 to 14.10.23 : Seminar  
16.10.23 to 21.10.23 : Lorenze curve and Ginni's co- efficient and class tests  
23.10.23 to 28.10.23 : Scatter diagram and Rank Co-relation  
30.10.23 to 04.11.23 : Revision of Lorenze curve and Ginni's co- efficient  
06.11.23 to 09.11.23 : Karl Pearson Method and Significance of co- relation  
18.11.23 to 25.11.23 : Seminar  
27.11.23 to 02.12.23 : Regression Analysis, computation of Residuals and mapping  
04.12.23 onwards : Revision of Syllabus

### Lesson Plan (Session2023-24)

**M.A. Geography, 3<sup>rd</sup> Semester, Paper- Biogeography (17GEO23D1)**

**JYOTI Associate Professor, Department of Geography.**

Date	Topic
24.7.2023 to 29.7.2023	Biogeography : Meaning , Nature, Definition
1.8.2023 to 5.8.2023	Biogeography : Development, Field
7.8.2023 to 12.8.2023	Biogeography : Functions
14.8.2023 to 19.8.2023	Biosphere : Definition, Nature, Scope , composition, class test
21.8.2023 to 26.8.2023	Biogeochemical cycles : definition, Hydrological cycle,
28.8.2023 to 2.9.2023	Carbon cycle Oxygen cycle, Nitrogen cycle
4.9.2023 to 9.9.2023	Phosphorous cycle, sediment cycle,
11.9.2023 to 16.9.2023	Seminar
18.9.2023 to 23.9.2023	Ecosystem : Meaning, types, components
25.9.2023 to 30.9.2023	Evolution of living organism
3.10.2023 to 7.10 2023	Factors influencing distribution of living organism on earth
9.10.2023 to 14.10 2023	Biomes : meaning, types Class test
16.10.2023 to 21.10.2023	Biomes : types
23.10.2023 to 28.10.2023	Bio-geographical realms
30.10.2023 to 4.11.2023	Zoogeography
6.11.2023 to 9.11.2023	Zoogeographical realms
18.11.2023 onwards	Zoogeographical realms

<b>Lesson Plan for Session 2023-24(Odd Semester)</b>	
<b>Department of Geography</b>	
<b>Subject: Geography</b>	<b>Class: M.A Final Year (3<sup>rd</sup> Sem.), Teacher Name: Mr. Satish Kumar</b>
<b>Paper: Field Work</b>	<b>Paper Code: 17GEO23CL1</b>
<b>Date</b>	<b>Topic</b>
24.07.2023 to 29.07.2023	Field Work in Geographical studies- Role, Value and Ethics
31.07.2023 to 05.08.2023	Field techniques- Merits and Demerits
07.08.2023 to 12.08.2023	Source of Data- Primary and Secondary
14.08.2023 to 19.08.2023	Collection of data: methods of primary data collection
21.08.2023 to 26.08.2023	Collection of data: methods of primary data collection
28.08.2023 to 02.09.2023	Observation method, interview method
04.09.2023 to 09.09.2023	Through questionnaire, through schedule and other methods
18.09.2023 to 23.09.2023	Questionnaire and Schedule
25.09.2023 to 30.09.2023	Field Visit (Tentative)
02.10.2023 to 07.10.2023	Field Visit (Tentative)
09.10.2023 to 14.10.2023	Processing and analysis of data
16.10.2023 to 21.10.2023	Field Work and Report writing: Identification of research problem
23.10.2023 to 28.10.2023	Data collection through field visit
30.10.2023 to 04.11.2023	Preparing research design- aims and objectives
06.11.2023 to 11.11.2023	Methodology, analysis
13.11.2023 to 18.11.2023	Interpretation and writing of report
20.11.2023 to 25.11.2023	Interpretation and writing of report
27.11.2023 to Onward	Interpretation and writing of report

**Lesson Plan (Session2023-24)**  
**M.A. Geography, 3<sup>rd</sup> Semester, Paper- Remote Sensing and GIS (Code – 17GEO23C1)**  
**Dr. Phool Kumar, Associate Professor, Department of Geography.**

Date	Topic
01.08.2023 to 05.08.2023	Photogrammetry: History and development, Definition and meaning;
07.08.2023 to 12.08.2023	Aerial photographs-types, characteristics and Geometry, methods of determining scale;
14.08.2023 to 19.08.2023	Ground coverage and overlapping; stereoscopes and stereoscopic vision;
21.08.2023 to 26.08.2023	Photo mosaics-types and uses; Elements of image interpretation, Unit Test;
28.08.2023 to 02.09.2023	Remote Sensing technique- Meaning, basic principles/concepts;
04.09.2023 to 09.09.2023	Remote sensing system and relevance in Geography;
11.09.2023 to 16.09.2023	Electromagnetic radiations (EMR); Electromagnetic spectrum;
18.09.2023 to 23.09.2023	Interaction of EMR with atmosphere and Earth's surface features;
25.09.2023 to 30.09.2023	Spectral reflectance; Remote sensing data;
03.10.2023 to 07.10.2023	Basic principles of thermal and microwave remote sensing;
09.10.2023 to 14.10.2023	Remote sensing platforms- types and characteristics; Satellite orbits- Near polar and Geostationary orbits;
16.10.2023 to 21.10.2023	Sensors- types, specifications, and resolutions; Various artificial satellites series;
23.10.2023 to 28.10.2023	Remote sensing applications in land use/land cover, urban, water resources and environment studies; Remote sensing set up and programs in India, Unit Test;
30.10.2023 to 04.11.2023	Geographic Information System (GIS) – Meaning and Basic concepts; Components of GIS;
06.11.2023 to 09.11.2023	Functions in GIS - data input, storage, maintenance, manipulation, analysis, and output;
18.11.2023 to 25.11.2023	GIS data - spatial and non-spatial data; Data formats - raster and vector;
27.11.2023 to 02.11.2023	Data sources; Integration of Remote Sensing and GIS; Applications of GIS in Geographical studies, Unit Test;
04.12.2023 to Onward	Revision for examination

Government College for Women, Rohtak, Department of Geography

### Lesson plan

Taught by: Dr. Praveen khatri, Dr. Kuldeep Suhag, Dr. Sushila, Dr. Amita Kumari

For B.A 1<sup>st</sup> odd Semester(July 26, 2023 - November 23, 2023)

Week 1-2: July 26, 2023 - August 8, 2023

Topic: India: Location, relief structure and drainage system

Session 1 (July 26, 2023):

Introduction to India's Location

Session 2 (August 2, 2023):

India's relief structure and major mountain ranges.

Session 3 (August 8, 2023):

India's drainage system and major rivers. Assignment on India's relief structures

Week 3-4: August 15, 2023 - August 28, 2023

Topic: Climate, Soils, Natural Vegetation, and Natural Disasters in India

Session 4 (August 15, 2023):

India's diverse climate zones and factors influencing climate.

Session 5 (August 22, 2023):

Types of soils in India and their distribution.

Session 6 (August 28, 2023):

Natural vegetation in India and its significance. and Major natural disasters in India.  
Assessment on topic "Soils".

Week 5-6: September 4, 2023 - September 17, 2023

Topic: Population: distribution, density, growth, and composition

Session 7 (September 4, 2023):

Population: distribution, density, growth, and composition

Session 8 (September 11, 2023):

Migration in India. Types, causes and consequences. Assignment on Migration and its causes and consequences.

Week 7-8: September 24, 2023 - October 7, 2023

Topic: Land Resource, Irrigation, Cropping Pattern, Green Revolution and problems of Indian Agriculture

Session 9 (September 24, 2023):

Human Settlements and Levels of Urbanisation

Session 10 (October 7, 2023):

Land Resources, Irrigation and Agriculture

Week 9-10: October 14, 2023 - October 27, 2023

Topic: Energy and Mineral Resources: coal petroleum, hydroelectricity and nuclear energy, iron-ore, manganese, and mica

Session 11 (October 14, 2023):

Industries

Session 12 (October 27, 2023):

Transport and communication

Week 11-12: November 3, 2023 - November 16, 2023

Topic: Modes of Transport, Communication, International Trade

Session 13 (November 3, 2023):

International Trade

Session 14 (November 10, 2023):

Diwali break

Week 13: November 18, 2023, Onwards

Revision and Assessments

Session 15 (November 18, 2023):

Revision and Assessments

## **Lesson Plan of B.A. 3rd Sem. Geography Practical (2023-2024)**

**1.8.23 to 5.8.23: Measurement of temperature and rainfall,**

**7.8.23 to 12.8.23 : Pressure and humidity**

**14.8.23 to 19.8.23: Line graph**

**21.8.23 to 26.8.23 : bar graph**

**28.8.23 to 2.9.23: Distribution of temperature, isotherms**

**4.9.23 to 9.9.23 : Hythergraph**

**11.9.23 to 16.9.23: Climograph**

**18.9.23 to 23.9.23: Distribution of pressure (Isobars)**

**25.9.23 to 7.10.23 : weather map interpretation**

**9.10.23 to 14.10.23 : Chain and tape survey**

**16.10.23 to 21.10.23 Triangulation method**

**23.10.23 to 28.10.23: Open traverse method**

**30.10.23 to 4.11.23: Closed traverse method**

**6.11.23 onwards revision**

### **Teachers**

**Dr. Anju Bala**

**Dr. Bindu**

**Dr. Sushila**

**Ms. Hemlata**

## **Lesson Plan of B.A. 3<sup>rd</sup> sem Geography (2023-24)**

### **Dr. Bindu**

**24.07.23 to 29.07.23:** Meaning and definition of weather and climate, elements of weather and climate

**31.07.23 to 5.08.23:** Factors affecting climate, atmosphere: meaning, definition and composition of the atmosphere

**7.08.23 to 12.08.23:** Structure of the atmosphere, chemical composition of the atmosphere

**14.08.23 to 19.08.23:** Solar radiation. Meaning, insolation, heat budget of the earth, factors affecting insolation

**21.08.23 to 26.08.23:** Heating and cooling of the atmosphere, temperature, factors controlling temperature

**28.08.23 to 2.09.23:** Horizontal and vertical distribution of temperature, range of temperature, inversion of temperature

**4.09.23 to 9.09.24:** Atmospheric pressure and winds

**09.10.23 to 14.10.23:** Mineral resources, uses and misuses

**11.09.23 to 16.09.23:** Atmospheric humidity and precipitation

**18.09.23 to 23.09.23:** Air mass, classification of air masses, fronts of air masses

**25.09.23 to 30.09.23:** Cyclones: meaning and definition, types of cyclones, anticyclones, submission of assignment

**2.10.23 to 7.10.23:** Koppen's scheme of classification of climate, class test

**9.10.23 to 14.10.23:** Causes and consequences of climate change

**16.10.23 to 21.10.23:** Global warming, classification of ocean floor

**23.10.23 to 28.10.23:** Classification of ocean floor of Pacific and Atlantic ocean

**30.10.23 to 4.11.23:** Indian ocean, temperature and salinity of oceanic water

**6.11.23 to 9.11.23:** Currents of Indian ocean, Atlantic and Pacific ocean

**17.11.23 to 24.11.23:** Oceanic resources

**25.11.23:** Onwards revision and test

**Session 2023-24**  
**Lesson Plan**  
**Economic Geography**  
**BA Vth Semester**

24.7.23 TO 29.7.23 :Nature and scope of Economic Geography .

1.8.23 TO 5.8.23 :Relationship of economic geography with other branches of social science

7.8.23 TO 12.8.23: Classification of economic activities

14.8.23 TO 19.8.23: Impact of economic activities on environment

21.8.23 TO 26.8.23:Types ,bases and classification of natural resources

28.8.23 TO 2.9.23: Conservation and utilization of natural resources

4.9.23 TO 9.9.23 : Spatial distribution of Rice and wheat

11.9.23 TO 16.9.23: Cotton and sugarcane crops

18.9.23 TO 23.9.23:Plantation crops(tea,rubber and coffee)

25.9.23 TO 30.9.23 :Classification of mineral resources

3.10.23 TO 7.10.23: Distribution and production of coal,Iron Ore and petroleum

16.10.23 TO 21.10.23 :Classification of Industries

23.10.23 TO 28.10.23:Distribution and production of Iron and steel and textiles industries

30.10.23 TO 4.11.23:Major industrial complexes of world

6.11.23 TO 9.11.23 : Transport,communication and trade

18.11.23 onwards: Revision

Taught by:

Mrs.Deepak Malik

Mrs. Jyoti

Dr. Sushila

Ms.Hemlata

## LESSON PLAN 2023-24

### 5<sup>TH</sup> SEM PRACTICAL

1.8.23-12.8.23-Principles of map design and layout

14.8.23-19.8.23-Techniques of map making

28.8.23-9.9.23-Definition of symbolization ,classification of symbols

11.9.23-23.9.23-Point symbols and line symbols

25.9.23-7.10.23-Types and methods of distribution maps

9.10.23 -21.10.23-Qualitative distribution maps and methods

23.10.23-4.11.23-Quantitative distribution maps and methods

6.11.23-9.11.23-Prismatic compass survey

18.11.23 onwards-Practice and revision

Taught by-

Ms Deepak Malik

Ms Jyoti

Ms Anju

Ms Sushila

Ms HemLata

Name: Dr. Yogita      Subject: Economics      Class: BBA      Semester: 1st

Paper: Micro Economics

Week	Topics
1	Nature and scope of Micro Economics,Demand and Elasticity of Demand
2	Utility Analysis
3	Indifference Curve Approach
4	Cost Curves
5	Production Functions
6	Isoquant curves and Location of Industries
7	Equilibrium of Firm and Industry
8	8MonoPoly
9	Monopolistic Competition
10	Characteristic of Factors of Production
11	Marginal Productivity Theory
12	Rent,Wage
13	Interest
14	Profit
15	Revision

Name: Dr. Yogita      Subject: Economics      Class: B.Com. Pass course      Semester: 1st

Paper: Micro Economics

Week	Topics
1	Introduction to Economics
2	Basic Problems of an Economy
3	Working of Price Mechanism
4	Elasticity of Demand
5	Measurement of Elasticity of Demand
6	Theory of Supply
7	Theory of Production
8	Producer optimization
9	Isoquant Curve Analysis
10	Theory of Costs
11	Utility Analysis
12	Indifference Curve Analysis
13	Price Effect, Substitution Effect, Income Effect
14	Market Structure
15	Revision

Name: Dr. Yogita      Subject: Economics      Class: B.Com.Hons.      Semester: 1st

Paper: Fundamentals of Economics

Week	Topics
1	Introduction to Economics and Concept of Demand
2	Theory of Demand
3	Elasticity of Demand
4	Measurement of Elasticity
5	Revenue and Elasticity of Demand
6	Theory of Supply
7	Elasticity of Supply
8	Utility Analysis
9	Indifference Curve Analysis
10	Consumer's Equilibrium
11	Consumer Surplus
12	Theory of Revealed Preference
13	Theory of Production
14	Isoquants and Producer's Equilibrium
15	Revision

Name: Dr. Yogita      Subject: Economics      Class: M.A. Economics      Semester: 1st

Paper: Statistical Methods

Week	Topics
1	Diagrammatic and Graphical Representation of Data
2	A.M.,MEDIAN
3	G.M.,H.M.,Mode
4	Quartiles, Deciles, Percentiles
5	Range, Q.D., M.D., Standard Deviation
6	Variance, Coefficient of Variance, Lorenz Curve
7	Skewness, Kurtosis, Moments
8	Problems and Methods of Construction of Index Numbers
9	Laspeyres, Pasche's and Fisher's Index Numbers
10	Chain base Index Numbers, Base shifting, splicing, deflating Index Numbers
11	Time-Series
12	Classical, Relative frequency and axiomatic approaches to Probability
13	Basic results on Probability, Conditional Probability
14	Baye's Theorem
15	REVISION

Name: POOJA      Subject: Economics      Class: BA 1<sup>st</sup>HONS

Paper: INDIAN ECONOMY PROBLEMS AND PROSPECTUS-II

Week	Topics
1	Problem of indian economy
2	Agriculture :importance and causes of low productivity
3	Land reforms
4	Industrial development and industrial policy
5	Large scale industry and small scale industry
6	Indian tax structure
7	Direction and composition of exports and imports
8	Economic reforms-liberalization
9	Privatization
10	Globalisation
11	Revision
12	Revision
13	Revision
14	Revision
15	Revision

Name: POOJA      Subject: Economics      Class: B.A.ECO Hons.      Semester: 5th

Paper: International Economics

Week	Topics
1	Introduction to International Economics and Trade Theories
2	Theory of Absolute Advantage and Comparative Advantage
3	Opportunity Cost Theory
4	Heckscher-Ohlin Theory
5	Components of Balance of Trade and Balance of Payment
6	Equilibrium and Disequilibrium in Balance of Payment
7	Meaning and Concept of Exchange Rate
8	Equilibrium Exchange Rate
9	Fixed versus Flexible Exchange rate
10	Managed Floating Exchange Rate System
11	Brettonwood System and its breakdown
12	Special Drawing Rights
13	IMF
14	REVISION
15	REVISION

## Lesson Plan

**Class – M. A II**

**Faculty –Pooja**

**Subject –INTERNATIONAL TRADE AND FINANCE I**

<b>Time Period</b>	<b>Topics</b>
Week,1	PURE THEORY OF INTERNATIONAL TRADE
Week, 2	MODERN THEORY OF INTERNATIONAL TRADE
<b>Week, 3</b>	FACTOR PRICE EQUALIZATION
Week, 4	KRAVIS AND LINDER THEORY OF TRADE
<b>Week, 5</b>	RYBCZYNSKI THEORM
<b>Week, 6</b>	INTRA INDUSTRY TRADE
<b>Week, 7</b>	GAINS FROM TRADE
<b>Week, 8</b>	TERMS OF TRADE
<b>Week, 9</b>	THEORY OF INTERVENTION,S TARIFF QUOTA AND NON TARIFF BARRIERS
<b>Week, 10</b>	BALANCE OF PAYMENTS
<b>Week 11</b>	FIXED AND FLEXIBLE EXCHANG RATES
<b>Week, 12</b>	EXPENDITURE SWITCHING AND EXPENDITURE REDUCING POLICIES
<b>Week 13</b>	ABSORBTION AND MONETARY APPROCH
<b>Week 14</b>	REVISION
<b>Week 15</b>	REVISION

## Lesson Plan

**Class – B. A III Eco hons**

**Faculty –Pooja**

**Subject –HISTORY OF ECONOMIC THOUGHT**

Time Period	Topics
Week,1	NATURE AND IMPORTANCE OF ECONOMIC THOUGHT
Week, 2	NERCANTILISM;VIEWS ON TRADE
<b>Week, 3</b>	NERCANTILISM;VIEWS ON MONEY AND PRICE
Week, 4	PHYSIOCRACY
<b>Week, 5</b>	PHYSIOCRACY
<b>Week, 6</b>	CLASSICAL POLITICAL ECONOMY; ADAM SMITH
<b>Week, 7</b>	RICARDIAN ECONOMICS
<b>Week, 8</b>	RICARDIAN ECONOMICS
<b>Week, 9</b>	J.S MILL THEORY
<b>Week, 10</b>	MILL’S THORY OF VALUE
<b>Week 11</b>	CLASSICAL STATIONARY STALL WITH SPECIAL REFARENCE TO MILL’S VIEWS
<b>Week, 12</b>	REVISION
<b>Week 13</b>	REVISION
<b>Week 14</b>	REVISION
<b>Week 15</b>	REVISION

## Lesson Plan

**Class – B. A II Eco hons**

**Faculty –Pooja**

**Subject –WELFARE ECONOMICS I**

Time Period	Topics
Week,1	BENTHAMITE APPROACH TO AGGREGATE WELFARE
Week, 2	BENTHAMITE APPROACH
<b>Week, 3</b>	OPTIMUM RESOURCE ALLOCATION
Week, 4	OPTIMUM RESOURCE ALLOCATION
<b>Week, 5</b>	CONSUMER SURPLUS
<b>Week, 6</b>	MARSHALL WELFARE ECONOMICS
<b>Week, 7</b>	PRINCIPLE OF COMPENSATION G VARIATION
<b>Week, 8</b>	HICKS CONCEPTS OF CONSUMER SURPLUS
<b>Week, 9</b>	CONSUMER SURPLUS AND TAX-BOUNTY ANALYSIS
<b>Week, 10</b>	REVISION
<b>Week 11</b>	REVISION
<b>Week, 12</b>	REVISION
<b>Week 13</b>	REVISION
<b>Week 14</b>	REVISION
<b>Week 15</b>	REVISION

**Name of College: GCW Rohtak**

**Session: 2023-24**

**Name of Assistant Professor: Dr. Yogesh**

**Class: M.A. Eco. (First Year) 1st Sem.**

**Subject: Micro Economics**

<b>Month</b>	<b>Description of the Syllabus to be covered</b>	<b>Other activities</b>
19 Aug to 15 Sep	Nature and scope of Economics and Microeconomics. Positive and normative analysis. Role of assumptions in economic analysis. Circular flow of economic activity. Concepts of: household, firm, factors of production, equilibrium – partial and general, static, comparative static and dynamic analysis, margin and slope. Elasticity – need and measures – Relationship between revenue and elasticity.	Classroom Quiz
16 Sep to 14 Oct	Analysis of consumer behaviour, demand function, law of demand – cardinal, ordinal and revealed preference approaches, income-consumption curve, Engel curve, substitute and complimentary goods. Market demand curve; consequences of Bandwagon, Snob and Veblen effect. Concept of consumer surplus.	Unit Test
15 Oct to 12 Nov	Laws of Production: short run and long run. Internal and External economies and diseconomies. Concept of cost, derivation of short and long run cost curves. Optimum input combination Simple case of a multiproduct firm. Technical progress and production function – Hick's classification. Elasticity of substitution. Properties of Cobb-Douglas and CES production function.	Group discussion
13 Nov to 06 Dec	Pricing process and equilibrium of firm and industry under perfect competition, monopoly (including discriminating and bilateral monopoly), monopolistic competition. Welfare effects of price control, price support and production quota.	Unit Test

**Name of College: GCW Rohtak**

**Session: 2023-24**

**Name of Assistant Professor: Dr. Yogesh**

**Class: M.A. Eco. (Final) 3rd Sem.**

**Subject: Public Economics**

<b>Month</b>	<b>Description of the Syllabus to be covered</b>	<b>Other activities</b>
26 July to 06 Aug	Economic rationale of government, fiscal functions; market failures: imperfections, decreasing costs, externalities and public goods; concepts of private goods, pure public goods, mixed goods and merit goods; theory of public goods; free Rider's problem, the optimal provision of public goods, contributions of Samuelson and Musgrave. Lindahl equilibrium; public choice and fiscal decision making, voting systems, majority voting.	Classroom Quiz
07 Aug to 06 Sep	Budgeting: various concepts, reforms in expenditure budgeting, zero based budgeting and performance budgeting. Budgets of the Union Government in India, budget making process in India; public expenditure in India: trends and issues.	Unit Test
07 Sep to 06 Oct	Public Expenditure: structure and growth of public expenditure; Wagner's hypothesis, Peacock- Wiseman hypothesis; economic effects of public expenditure; criteria for public investment, social cost-benefits analysis: valuation of benefits and costs, discount rate.	Group discussion
07 Oct to 06 Dec	Theory of Taxation: Various approaches to taxation, neutrality, equity, ability to pay, benefit principle, revenue maximization, income maximization; analysis of incidence of taxes, elasticity, buoyancy and taxable, capacity, efficient tax design: optional taxation, effects of taxation on work effort, savings, investment and growth; classification of taxes: direct and indirect taxes, progressive, proportionate and regressive taxes, Advalorem and specific taxes; tax systems in India; structure, composition and various economic issues.	Unit Test

**Name of College: GCW Rohtak**

**Session: 2023-24**

**Name of Assistant Professor: Dr. Yogesh**

**Class: B.Com (Pass) 1st Sem.      Section: B**

**Subject: Business Economics**

<b>Month</b>	<b>Description of the Syllabus to be covered</b>	<b>Other activities</b>
21 July to 20 Aug	Introduction: Basic problem of an economy: working of price mechanism. Elasticity of demand; concept and measurement of elasticity of demand, price, income and cross elasticity; Average revenue; marginal revenue and elasticity of demand; determinants of elasticity of demand; importance of elasticity of demand.	Classroom Quiz
21 Aug to 20 Sep	Production Function: Law of variable proportions; Isoquants; Economic regions and optimum factor combination; expansion path; returns to scale; Internal and external economies and diseconomies; Ridge lines.	Unit Test
21 Sep to 20 Oct	Theory of costs: concepts of cost; Short run and Long run cost curves- Traditional and Modern approaches.	Group discussion
20 Oct to 24 Nov	Market Structure: Market structures and Business decisions; objectives of business firm.	Unit Test

**Name of College: GCW Rohtak**

**Session: 2023-24**

**Name of Assistant Professor: Dr. Yogesh**

**Class: B.A. (Eco. Hons.) 3<sup>rd</sup> Sem.**

**Subject: Statistics**

<b>Month</b>	<b>Description of the Syllabus to be covered</b>	<b>Other activities</b>
21 July to 20 Aug	Introduction: Basic concepts: Population, Sample, Parameter, Statistic, frequency distribution, Cumulative frequency distribution; Graphic and diagrammatic representation of data; Techniques of data collection .Census and Sampling method. Sampling and Non-Sampling Errors.Primary and secondary data.	Classroom Quiz
21 Aug to 20 Sep	Measures of Central Tendency: A.M., G.M., H.M., Median, Quartiles, Deciles, Percentiles, Mode	Unit Test
21 Sep to 20 Oct	Measures of dispersion: range, inter-quartile range, quartile deviation, mean deviation, variance, standard deviation, Lorenz curve, skewness and Kurtosis, moments	Group discussion
20 Oct to 24 Nov	Index numbers : Concept, price relative, quantity relative and value relative, Laspeyer's, Paasche's and Fisher's index numbers; Family budget method. Problems in the construction and Limitations of index numbers; Tests of an ideal index number. Chain indices or Chain base Index Numbers. Base Shifting, and Deflating of Index Numbers .Cost of Living Index Numbers.	Unit Test

**Name of College: GCW Rohtak**

**Session: 2022-23**

**Name of Assistant Professor: Dr. Yogesh**

**Class: B.A. (Eco. Hons) 1<sup>st</sup> Sem.**

**Subject: Micro Economics**

Month	Description of the Syllabus to be covered	Other activities
21 July to 20 Aug	Introduction and basic concepts: Nature and scope of micro economics, Basic Economic Problem - Choice and Scarcity, Methodology of Economics - Inductive and Deductive methods, Positive vs. Normative Economics, Static and Dynamic Analysis, Partial vs. General Equilibrium Analysis.	Classroom Quiz
21 Aug to 20 Sep	Demand analysis: Law of Demand, demand of a firm and Market; Elasticity of Demand - Price, Cross and Income Elasticity of Demand - Measurement of price Elasticity of Demand; Consumer Behaviour: Theories of Demand; Cardinal Utility approach; Indifference curve, Consumers equilibrium. Price, Income and Substitution effects (Hicks Allen & Slutsky method), Revealed Preference Theory.	Unit Test
21 Sep to 20 Oct	Theory of production and cost: Production Function - The Law of Variable Proportions; Returns to Scale-Isoquant; Least Cost Combination and Producer's Equilibrium, Traditional and Modern theories of Costs, Cost-output relation.	Group discussion
20 Oct to 24 Nov	Price and output determination: Perfect competition: Features, Price determination in short and long run Equilibrium of Firm and Industry, Monopolistic competition – features, equilibrium of the firm with product differentiation and selling cost. Monopoly: Price and output determination, Price discrimination, Bilateral Monopoly	Unit Test

## Lesson Plan

**Class – B.A.(Hons.) 3rd semester**

**Faculty – Dr. Bhupinder**

**Subject – Development Economics-1**

**Lesson Plan Session – 2023-24**

<b>Time Period</b>	<b>Topics</b>
Week,1	Basic concepts of economic development, economic growth and development, concepts of Under development and basic characteristics.
Week, 2	<b>Determinants and Measurement indicator( PQLI and HDI )of economic development</b>
<b>Week, 3</b>	<b>Sustainable economic development, Adam Smith theory of economic development</b>
Week, 4	<b>Karlmarx and Schumpeter theories of economic development</b>
<b>Week, 5</b>	<b>Development approaches to development: Vicious circle of poverty, Lewis dual economy model.</b>
<b>Week, 6</b>	<b>Lebenstein critical minimum effort theory, balance grow theory</b>
<b>Week, 7</b>	<b>Unbalance growth theory ,economic planning and policy</b>
<b>Week, 8</b>	Development planning, rationally, strategies of economic planning
<b>Week, 9, 10</b>	<b>Objectives of planning: role of state in economic development</b>
<b>Week, 11</b>	<b>Capital formation ine economic development</b>
<b>Week, 12</b>	<b>Test and revision of the syllabus</b>
<b>Week 13</b>	Assignment work
Week 14	Test and revision of the syllabus

## Lesson Plan

**Class – B.A (pass) 3rd Semester**

**Faculty – Dr. Bhupinder**

**Subject - Macro Economics**

**Lesson Plan Session 2023-24**

<b>Time Period</b>	<b>Topics</b>
Week, 1	<b>Micro economics ,Nature and scope of microeconomics, issues in an economy</b>
Week, 2	<b>Concepts of GDP and national income ,measurement of National income and related aggregates</b>
Week, 3	<b>Nominal and real income, limitation of the GDP concepts</b>
Week,4	<b>Methods of measurement of India's national income by cso ,actual and potential GDP</b>
Week, 5	<b>Aggregate expenditure ,consumption function, investment function, equilibrium GDP</b>
Week, 6	<b>Concepts of MPC, APC ,MPS, APS. Autonomous expenditure, the concept of Multiplier</b>
Week, 7	<b>National income, determination in an Open Economy, with government physical policy impact of changes in government expenditure and Taxes, net export function, net exports and equilibrium GDP</b>
Week, 8	<b>GDP and price level in short and long run</b>
Week,9	<b>Aggregate demand and aggregate supply</b>
Week,10	<b>Multiplier analysis with AD curve and price level changes</b>
Week, 11	<b>Aggregate supply in short run</b>
Week,12	<b>Aggregate supply in long run</b>
Week, 13	<b>Revision and test of the whole syllabus</b>
<b>Week 14</b>	<b>Assignment works</b>

**Lesson Plan**

**Class – B.A(H). 2nd semester**

**Faculty – Dr. Bhupinder**

**Subject – Mathematics for Economist**

**Lesson Plan Session – 2023-24**

<b>Time Period</b>	<b>Topics</b>
Week,1	Real number system sets and set operations,relations and functions, inverse functions
Week, 2	<b>Solution of linear equations in two variables, solution of quadratic equation, logarithms and exponents</b>
<b>Week, 3</b>	<b>Exogenous and endogenous variables</b>
Week, 4	<b>Fundamental of Matrices, Determinants. Solution of a of upto 3 equations by matrix inversion</b>
<b>Week, 5</b>	<b>And Cramer's rule. Input-Output analysis-static Open model.</b>
<b>Week, 6</b>	<b>Differentiation- Idea of limit (but not its evaluation)meaning and economic interpretations of derivative</b>
<b>Week, 7</b>	<b>Rules of of differentiation including logarithmic and Exponential. Unconstrained optimization-single choice variable. Global and local.</b>
<b>Week, 8</b>	
<b>Week, 9, 10</b>	<b>Calculus of multivariable functions</b>
<b>Week, 11</b>	<b>Higher order derivatives,</b>
<b>Week, 12</b>	<b>Constrained optimization with upto 2 equality constraints</b>
<b>Week 13</b>	Revision and test
Week 14	Assignments

## **Lesson Plan**

**Class – M.A.(Economics) 3rd Semester**

**Faculty – Dr. Bhupinder**

**Subject - Indian Economy-1**

**Lesson Plan Session 2023-24**

<b>Time Period</b>	<b>Topics</b>
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Week, 1	<b>Features of Indian economy, nature and characteristics of Indian economy</b>
Week, 2	<b>Planning objectives and strategies ,failures and achievement of plans</b>
Week, 3	<b>Basic economic indicators, national income, performance of different sectors</b>
Week,4	<b>Trends in prices and money supply</b>
Week, 5	<b>Institutional structure, land reforms in India ,Agricultural Marketing</b>
Week, 6	<b>Agricultural warehousing, issues in food security, policies for sustainable agriculture</b>
Week, 7	<b>Agriculture finance policy, agriculture price policy</b>
Week, 8	<b>Malthusian theory of population, demographic transition .</b>
Week,9	<b>Population as limits to growth and as ultimate source, concepts of demography</b>
Week,10	<b>Vital rates, life tables composition and uses ,measurement of fertility, total fertility rates, gross and net reproduction rate</b>
Week, 11	<b>Age pyramids, population projectionable, stationary and quasi stationery population,characteristics of Indian population through recent census</b>
Week,12	<b>Financial sector, monetary policy of RBI, money and capital markets</b>
Week, 13	<b>Growth and problem role of commercial banks in India, banking sector reforms since 1991.</b>
<b>Week, 14</b>	<b>Revision and test and assignments</b>

**Govt. P.G. College for Women Rohtak**

**Department of Economics**

**Lesson Plan for the session 2023-**

**Class: B.A. 2<sup>nd</sup> Year & 3<sup>rd</sup> Semester- Hons**

**Subject: Economics History of India Name of Teacher: Dr P.K. Duhan**

<b>No of Weeks</b>	<b>Contents of the Syllabus</b>
1 <sup>st</sup> Week	Why study economic history, the problems in interpreting India's past
2 <sup>nd</sup> Week	The state of the Indian Economy on the eve of independence
3 <sup>rd</sup> week	Indian Economy in the mid-nineteenth century
4 <sup>th</sup> week	Growth of the empire and systems of land settlements in the Colonial India
5 <sup>th</sup> week	Transformation of the traditional village – economy during the British rule
6 <sup>th</sup> week	Commercialization of agriculture – its causes and consequences
7 <sup>th</sup> week	Emergence of agricultural labour as a category, movement of agricultural wages and prices during the period – problems of rural indebtedness
8 <sup>th</sup> week	The state of industrial development in mid-nineteenth century India, the de-industrialization thesis –its statement and validity
9 <sup>th</sup> week	Emergence of modern capitalist industrial enterprise in India – Textile (Jute and Cotton), Iron & Steel, Cement, Coal, Tea
10 <sup>th</sup> week	Foreign capital in Colonial India – its extent and impact
11 <sup>th</sup> week	Foreign-trade-growth and composition; 'guided under-development' of India under the British rule
12 <sup>th</sup> week	Evolution of provincial finance, the nature and problem of public debt;
13 <sup>th</sup> week	Economic drain from India -form, extent and consequences.
14 <sup>th</sup> week	Problems and Collection of Assignment and presentation for internal Assessment.

**Class: B.A. 3<sup>rd</sup> Year & 5<sup>th</sup> Semester- Hons**

**Subject: Basis of Financial Market**

**Name of Teacher: Dr P.K. Duhan**

<b>No of Weeks</b>	<b>Contents of the Syllabus</b>
1 <sup>st</sup> Week	Financial Market and Functions-: Meaning, Classification of Financial Market
2 <sup>nd</sup> Week	The Role of Financial Markets in the Economy, Financial Instruments:

3 <sup>rd</sup> week	Nature Types and Properties of Financial instrument.
4 <sup>th</sup> week	Theories of interest rate determination : Classical and Keynesian
5 <sup>th</sup> week	Term structure of Interest rates: theories of interest rates structure
6 <sup>th</sup> week	Expectational theory, Segmentation theory.
7 <sup>th</sup> week	Call money market, Treasury bill market;
8 <sup>th</sup> week	Commercial bill market
9 <sup>th</sup> week	Market for gilt-edged Securities
10 <sup>th</sup> week	Markets for derivatives, futures and options
11 <sup>th</sup> week	Regulation of Financial Markets: Role and functions of Securities and Exchange Board of India, ( SEBI),
12 <sup>th</sup> week	Insurance Regulatory and Development Authority (IRDA)
13 <sup>th</sup> week	Reserve Bank of India ( RBI
14 <sup>th</sup> week	Problems and Collection of Assignment and presentation for internal Assessment.

**Class: B.Sc. Home Sc. 2<sup>nd</sup> Year & 3<sup>rd</sup> Sem.**

**Subject: Consumer Economics**

**Name of Teacher: Dr P.K. Duhan**

1 <sup>st</sup> Week	Introduction to economics
2 <sup>nd</sup> Week	Basic concepts to economics- goods and services, wants, utility, consumption-meaning, laws of consumption
3 <sup>rd</sup> week	Income: Types of Income, Consumer and Consumption Standardization and grading
4 <sup>th</sup> week	Meaning and Laws of Consumption
5 <sup>th</sup> week	Demand and supply- laws and importance.
6 <sup>th</sup> week	Markets- types and functions of market.
7 <sup>th</sup> week	Consumer- definition, role of consumers in the economy,
8 <sup>th</sup> week	Consumer buying problems
9 <sup>th</sup> week	Consumer buying motives- primary selective, rational, emotional and patronage.
10 <sup>th</sup> week	adulteration , faulty weight and measures, false advertisements, incomplete label , monopoly and other malpractices in market
11 <sup>th</sup> week	Buying aids – labels , packaging and advertising ,buying guides ,role of educational institutions
12 <sup>th</sup> week	Introduction of Rights and responsibilities of consumer.

13 <sup>th</sup> week	Consumer education- meaning needs, objectives, media and the consumer. Laws for consumer protection ,consumer organizations
14 <sup>th</sup> week	Collection of Assignment and presentation for internal Assessment.

**Class: M.A. Previous Economics 1<sup>st</sup> Year and & 1<sup>st</sup> Semester**

**Subject: Macro Economics**

**Name of Teacher: Dr P.K. Duhan**

1 <sup>st</sup> Week	Determination of Output and Employment: Classical Approach – Output and Employment in Classical Theory; The Quantity Theory of Money and the Price Level;
2 <sup>nd</sup> Week	Classical Model without saving and investment; Classical Model with saving and investment;
3 <sup>rd</sup> week	Keynesian Approach _ Two Sector Model, Three Sector Model and Four Sector Model
4 <sup>th</sup> week	Determination of Output and Employment: The Extended Model (Hicks-Henson Synthesis): Fixed Price Level – The goods Market and The Money Market.
5 <sup>th</sup> week	Equilibrium in Goods Market and Money Market; Changes in Aggregate Demand; Govt. spending, Taxation and Aggregate Demand
6 <sup>th</sup> week	The IS-LM Elasticities and Monetary Fiscal Policies
7 <sup>th</sup> week	The Extended Model: Variable Price Level – Deviation of Aggregate Demand Curve and Determination of equilibrium price and output levels; wage-price flexibility and the Full Employment equilibrium
8 <sup>th</sup> week	Monetary – Fiscal policies and the Full-Employment Equilibrium
9 <sup>th</sup> week	Behavioral Foundation: Theories of consumption – The Absolute Income Hypothesis, The Relative Income Hypothesis
10 <sup>th</sup> week	The Permanent Income Theory of Consumption; The Life cycle theory of consumption;
11 <sup>th</sup> week	Theories of Investment – The Present Value of Criterion for investment;
12 <sup>th</sup> week	The Marginal Efficiency of Capital and Investment; the accelerator theory; financial Theory of investment.

13 <sup>th</sup> week	Collection of Assignment and presentation for internal Assessment
14 <sup>th</sup> week	Collection of Assignment and presentation for internal Assessment.

**Class: M.A. Previous Final 2<sup>nd</sup> Year & 3<sup>rd</sup> Semester**

**Subject: Financial Institutions and Market Name of Teacher: Dr P.K. Duhan**

1 <sup>st</sup> Week	Nature and Role of Financial System and Structure of Interest Rates
2 <sup>nd</sup> Week	Money and finance-Money and near-money
3 <sup>rd</sup> week	Financial intermediation and financial intermediaries
4 <sup>th</sup> week	The structure of the financial development.
5 <sup>th</sup> week	Equilibrium in Financial Markets - Financial System and Economic Development
6 <sup>th</sup> week	Criteria to evaluate assets: Risk and financial assets, types of risk, return on assets,
7 <sup>th</sup> week	Risk - Return trade off - Valuation of securities.
8 <sup>th</sup> week	Theories of interest rate determination - Level of interest rates - Long period and Short period rates
9 <sup>th</sup> week	Term Structure of Interest rates - Theories of interest rates structure - Expectational theory - Segmentation theory
10 <sup>th</sup> week	Administered interest rates - Appropriate interest rate policy
11 <sup>th</sup> week	Banks, Monetary Policy and Non-Bank Financial Interest diaries.
12 <sup>th</sup> week	Functions of Central Bank - The aims and objectives of the monetary policy in developed and developing countries.
13 <sup>th</sup> week	Collection of Assignment and presentation for internal Assessment.
14 <sup>th</sup> week	Collection of Assignment and presentation for internal Assessment.

**Govt. P.G. College for Women Rohtak**  
**Department of Economics**  
**Lesson Plan for the session 2023-24**  
**Class: B.A. 2<sup>nd</sup> Year & 3<sup>rd</sup> Semester- Hons**

**Subject: Development Economics**

**Name of Teacher: Dr Satyawan Jatain**

<b>No of Weeks</b>	<b>Contents of the Syllabus</b>
1 <sup>st</sup> Week	Basic Concepts of Economic Development: Economic Growth and Development,
2 <sup>nd</sup> Week	Concept of underdevelopment and basic characteristics; Determinants
3 <sup>rd</sup> week	Measurment indicators (PQLI and HDI) of economic development:
4 <sup>th</sup> week	Sustainable economic development.
5 <sup>th</sup> week	Therories of Economic Development: Adam Smith,
6 <sup>th</sup> week	Karl Marx
7 <sup>th</sup> week	Schumpeter.
8 <sup>th</sup> week	Development Approaches to Development: Vicious Circle of Poverty, Lewis dual economy model
9 <sup>th</sup> week	Lewis dual economy model,
10 <sup>th</sup> week	Lebenstein critical minimum effort theory,
11 <sup>th</sup> week	Balanced vs. unbalanced growth theories.
12 <sup>th</sup> week	Economic Planning and Policy: Development planning: rationale,
13 <sup>th</sup> week	Strategies and objectives of planning; Role of state and Capital formation in economic development
14 <sup>th</sup> week	Problems and Collection of Assignment and presentation for internal Assessment.

**Class: Class: B.A. 2<sup>nd</sup> Year & 3<sup>rd</sup> Semester- Hons**

**Subject: STATISTICS FOR ECONOMIC ANALYSIS-Name of Teacher: Dr Satyawan Jatain**

<b>No of Weeks</b>	<b>Contents of the Syllabus</b>
1 <sup>st</sup> Week	Introduction: Basic concepts: Population, Sample, Parameter, Statistic, frequency distribution,
2 <sup>nd</sup> Week	Cumulative frequency distribution; Graphic and diagrammatic representation of data; Techniques of data collection .Census and Sampling method.
3 <sup>rd</sup> week	Sampling and Non-Sampling Errors.Primary and secondary data.
4 <sup>th</sup> week	Measures of Central Tendency: A.M.,

5 <sup>th</sup> week	G.M., H.M.,
6 <sup>th</sup> week	Median, Quartiles, Deciles, Percentiles,
7 <sup>th</sup> week	Mode
8 <sup>th</sup> week	Measures of dispersion: range, inter-quartile range,
9 <sup>th</sup> week	quartile deviation, mean deviation
10 <sup>th</sup> week	variance, standard deviation, Lorenz curve,
11 <sup>th</sup> week	Skewness and Kurtosis, moments
12 <sup>th</sup> week	Index numbers : Concept, price relative, quantity relative and value relative, Laspeyer's,
13 <sup>th</sup> week	Paasche's and Fisher's index numbers; Family budget method. Problems in the construction and Limitations of index numbers; Tests of an ideal index number. Chain indices or Chain base Index Numbers. Base Shifting, and Deflating of Index Numbers .Cost of Living Index Numbers
14 <sup>th</sup> week	Problems and Collection of Assignment and presentation for internal Assessment.

**Class: B.A. 3<sup>rd</sup>Year &5<sup>th</sup>Semester- Pass Course**

**Subject: Economics of Agriculture**

**Name of Teacher: Dr Satyawan Jatain**

<b>No of Weeks</b>	<b>Contents of the Syllabus</b>
1 <sup>st</sup> Week	Introduction: Definition, scope and nature of agricultural economics; Need for a separate study of agricultural economics
2 <sup>nd</sup> Week	Agricultural Linkages with other sectors, Role of agriculture in economic development
3 <sup>rd</sup> week	Declining importance of agriculture in Economic development
4 <sup>th</sup> week	Production Function Analysis: Facto-Product, Factor-Factor
5 <sup>th</sup> week	Product-Product relationship.
6 <sup>th</sup> week	Types of farm organizations and organizations and their comparative production efficiency.
7 <sup>th</sup> week	Transformation of Agriculture
8 <sup>th</sup> week	Schultz thesis of transformation of traditional agriculture
9 <sup>th</sup> week	Green Revolution in Indian agriculture.
10 <sup>th</sup> week	Agricultural Markets: Aim, Types and Functions of agricultural markets, Criteria for judging efficiency of agricultural market systems.
11 <sup>th</sup> week	Agricultural Credit: Importance of credit, Need for Government intervention, agricultural credit system in India.
12 <sup>th</sup> week	Agricultural Price Policy: Need, Objectives, and instruments of agricultural price policy;
13 <sup>th</sup> week	Agricultural price policy in India.

14 <sup>th</sup> week	Problems and Collection of Assignment and presentation for internal Assessment.
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**Class: M.A. Previous 1<sup>st</sup> Year and & 1<sup>st</sup> Semester**

**Subject: Mathematics for Economists    Name of Teacher: Dr Satyawan Jatain**

1 <sup>st</sup> Week	Basics: real number system,
2 <sup>nd</sup> Week	Sets and set operations, relations and functions, inverse functions; solution of linear equations in two variables, solution of quadratic equation
3 <sup>rd</sup> week	logarithms and exponents; exogenous and endogenous variables.
4 <sup>th</sup> week	Fundamentals of Matrices
5 <sup>th</sup> week	Determinants. Solution of a system of upto 3 equations by matrix inversion, Cramer's rule.
6 <sup>th</sup> week	Input-Output analysis – Static open model.
7 <sup>th</sup> week	Differentiation – idea of limit (but not its evaluation) meaning and economic interpretations of derivative.
8 <sup>th</sup> week	Rules of differentiation including logarithmic
9 <sup>th</sup> week	Exponential functions.
10 <sup>th</sup> week	Unconstrained optimization – single choice variable,
11 <sup>th</sup> week	Global and local. Calculus of multivariable functions,
12 <sup>th</sup> week	Higher order derivatives
13 <sup>th</sup> week	Constrained optimization with upto 2 equality constraints
14 <sup>th</sup> week	Problems and Collection of Assignment and presentation for internal Assessment.

**Class: M.A. Final 2<sup>nd</sup> Year & 3<sup>rd</sup> Semester**

**Subject: Economics of Agriculture    Name of Teacher: Dr Satyawan Jatain**

1 <sup>st</sup> Week	Agricultural Economics and Economic Development: Definition of agricultural Economics, its scope and nature
2 <sup>nd</sup> Week	Regional disparities in Indian agriculture; Difference between agriculture and Industry;
3 <sup>rd</sup> week	Need for a separate study of Agricultural Economics. Agriculture and Economic Development: Role of agriculture in Economic Development;
4 <sup>th</sup> week	Contribution of industry to the development of agriculture; Interdependence of agriculture and industry.
5 <sup>th</sup> week	Approaches to Agriculture Development: Schultz,
6 <sup>th</sup> week	Mellor, Boserup,
7 <sup>th</sup> week	Lewis and Ranis-Fie
8 <sup>th</sup> week	Economics of Agriculture Production: The Production Function;Factor-Product Relationship
9 <sup>th</sup> week	Factor-Factor Relationship; Product- Product Relationship. Equilibrium of the capitalist form, peasant family farm and share tenant farm.
10 <sup>th</sup> week	Analysis for Farm Management: The Production Function Approach;

11 <sup>th</sup> week	Farm-budgeting Approach. Measures of Farm Efficiency;
12 <sup>th</sup> week	Supply response in agriculture
13 <sup>th</sup> week	Size of the farm and Productivity Debate.
14 <sup>th</sup> week	Collection of Assignment and presentation for internal Assessment.

**Dr Satyawan Jatain**

**Department of Economics**

**Govt. P.G. College for Women Rohtak**

**Govt. P.G. College for Women Rohtak**  
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**Class: BA Economics Hons. 2<sup>nd</sup> Year 3<sup>rd</sup> semester**

**Subject: Macro Economics**

**Name of Teacher: Dr. Monika**

<b>No. of Weeks</b>	<b>Content of the Syllabus</b>
1 <sup>st</sup> Week	Nature and scope of Economics, Difference between Micro and Macroeconomics and importance of Macro Economics
2 <sup>nd</sup> Week	National Income
3 <sup>rd</sup> week	Measurement of National Income
4 <sup>th</sup> week	Circular flow of Income, Oral Test
5 <sup>th</sup> week	Classical theory of Income and Employment
6 <sup>th</sup> week	Keynes Theory of Income and Employment, Oral Test
7 <sup>th</sup> week	Consumption function
8 <sup>th</sup> week	Keynesian Psychological law of Consumption and its implications
9 <sup>th</sup> week	Absolute, Relative and Permanent Income Hypothesis, Oral Test
10 <sup>th</sup> week	Investment functions, MEC
11 <sup>th</sup> week	Classical Theory of Investment
12 <sup>th</sup> week	Keynesian Theory of Investment, Saving-Investment Equality
13 <sup>th</sup> week	Revision, Written Test.

**Class: B.A. 1<sup>st</sup> Year 1<sup>st</sup> Semester- Pass Course**

**Subject: Micro Economics**

**Name of Teacher: Dr. Monika**

<b>No. of Weeks</b>	<b>Content of the Syllabus</b>
1 <sup>st</sup> Week	Nature and Scope of Economics
2 <sup>nd</sup> Week	The Economic Problem: Scarcity and Choice
3 <sup>rd</sup> week	Economic Organization and Economic Systems, Oral Test
4 <sup>th</sup> week	Micro and Macro Economics
5 <sup>th</sup> week	Concepts of Demand and Law of Demand
6 <sup>th</sup> week	Elasticity of Demand

7 <sup>th</sup> week	Consumer Theory- Cardinal Utility Analysis, Oral Test
8 <sup>th</sup> week	Ordinal Utility Theory: Indifference Curve Approach
9 <sup>th</sup> week	Firms as Agents of Production
10 <sup>th</sup> week	Production Function and Laws of Production
11 <sup>th</sup> week	Isoquant Curves and Producer's Equilibrium, Oral Test
12 <sup>th</sup> week	Concepts of Supply and Law of Supply, Theory of Costs
13 <sup>th</sup> week	Concepts of Revenue, Written Test

**Class: M.A. 1<sup>st</sup> Year 1<sup>st</sup> Semester**

**Subject: Economics of Growth and Development**

**Name of Teacher: Dr. Monika**

No. of Weeks	Content of the Syllabus
1 <sup>st</sup> Week	Factors affecting Economic Growth: capital, labour and technology
2 <sup>nd</sup> Week	Historical Perspective of Economic Growth and its relevance
3 <sup>rd</sup> week	Structural Diversity and common characteristics of developing nations
4 <sup>th</sup> week	Structural Diversity and common characteristics of developing nations, Oral Test
5 <sup>th</sup> week	Measuring Development: Income Measures, Basic Needs Approach
6 <sup>th</sup> week	PQLI and HD and Capabilities Approach,
7 <sup>th</sup> week	Poverty, Inequality and Development: Measurement, Impact and Policy options.
8 <sup>th</sup> week	Development Gap: concepts and measurement.
9 <sup>th</sup> week	Contributions of Adam Smith, Ricardo, Karl Marx, and Schumpeter
10 <sup>th</sup> week	Contributions of Adam Smith, Ricardo, Karl Marx, and Schumpeter, Oral Test
11 <sup>th</sup> week	Harrod and Domar: Instability of equilibrium
12 <sup>th</sup> week	Neo Classical Growth Models: Solow and Meade
13 <sup>th</sup> week	Growth Models of Joan Robinson and Kaldor, Written Test.

**Class: B. A. Economics 3<sup>rd</sup> Year 5<sup>th</sup> Semester**

**Subject: Econometrics**

**Name of Teacher: Dr. Monika**

No. of Weeks	Content of the Syllabus
1 <sup>st</sup> Week	Definition. Scope, and Methodology of econometrics.
2 <sup>nd</sup> Week	Nature and sources of data for econometric analysis

3 <sup>rd</sup> week	Specification of an econometric model.
4 <sup>th</sup> week	Simple Regression Models: Estimators (OLS) and their properties
5 <sup>th</sup> week	Statistical inference
6 <sup>th</sup> week	Tests of significance and tests of restrictions
7 <sup>th</sup> week	Econometric Problems: Nature, consequences, detection and remedial measures of the problems of multicollinearity, heteroscedasticity and autocorrelation.
8 <sup>th</sup> week	Econometric Problems: Nature, consequences, detection and remedial measures of the problems of multicollinearity, heteroscedasticity and autocorrelation, Oral Test.
9 <sup>th</sup> week	Test Procedures and Model Selection: Tests of specification and mis-specification, measurement errors, encompassing models, and criteria for model selection.
10 <sup>th</sup> week	Test Procedures and Model Selection: Tests of specification and mis-specification, measurement errors, encompassing models, and criteria for model selection.
11 <sup>th</sup> week	Dynamic Models: Lags in econometrics, Distributed and autoregressive lags, Koyck model.
12 <sup>th</sup> week	Simultaneous Equation Models: Introduction, Identification problem, Simultaneous equation bias and ILS and 2SLS methods of estimation.
13 <sup>th</sup> week	Simultaneous Equation Models: Introduction, Identification problem, Simultaneous equation bias and ILS and 2SLS methods of estimation, Written Test.

## Lesson Plan

### Dept. Of Botany

**Class: B.Sc. (Med.) 5<sup>th</sup> Semester Subject: Botany (Theory)**

**Name of teacher : Dr. Veena Sachdeva, Dr. Renu Budhwar**

**From July 2023 to Dec 2023**

<b><u>Time period</u></b>	<b><u>Topics</u></b>
<b>July (Last week)</b>	Water & its properties, Absorption of water by plants
<b>August (Week 1)</b>	Transport of water in plants
<b>Week 2</b>	Ecology
<b>Week 3</b>	Abiotic factors, Biotic factors
<b>Week 4</b>	Mineral nutrients & Mineral uptake
<b>September (Week 1)</b>	Stomata
<b>Week 2</b>	Transpiration
<b>Week 3</b>	Transport of organic substances: Mechanism of phloem transport; source-sink relationship; factors affecting translocation; Photosynthesis: significance; historical aspects; <b>Assignment: Significance of Sustainable Development</b> <b>Test: UNIT-1(Physiology)</b>
<b>Week 4</b>	Photosynthetic pigments; action spectra and enhancement effects; concept of two photosystems. Adaptations of plants to water stress and salinity <b>Assignment: Plant Pigments</b>
<b>October (Week 1)</b>	Z-scheme; photophosphorylation; Calvin cycle; C4 pathway; CAM plants; photorespiration. Population ecology <b>Assignment: Photorespiration</b>
<b>Week 2</b>	Growth and development: Definitions; phases of growth and development; seed-dormancy; plant movements. Community ecology <b>Assignment: Collection of Xerophytes</b> <b>Test: Unit-1(Ecology)</b>
<b>Week 3</b>	The concept of photoperiodism; physiology of flowering; florigen concept; physiology of senescence; fruit ripening. Ecosystem: Structure and functions

	<b>Assignment: Food chain, Food web and Ecological Pyramids</b>
<b>Week 4</b>	Plant hormones- auxins, gibberellins, cytokinins, abscissic acid and ethylene, history of their discovery, mechanism of action. <b>Assignment: Plant hormones</b>
<b>November (Week 1)</b>	Photo-morphogenesis; Phytochromes and their discovery, physiological role and mechanism of action. Biogeochemical cycles: Carbon, nitrogen, phosphorus and hydrological cycle. <b>Assignment: Biogeochemical cycles</b>
<b>Week 2</b>	
<b>Week 3</b>	Phyto-geography: Phyto- geographical regions of India; vegetation types of India (forests). Environmental pollution: Sources, types and control of air and water pollution. <b>Assignment: Different Geographical regions of India</b> <b>Test: Unit-2(Physiology and Ecology)</b>
<b>Week 4</b>	Global change: Greenhouse effect and greenhouse gases; impacts of global-warming; carbon trading; Ozone layer depletion; Bio-magnification. <b>Assignment: Project report on Pollution</b>

**Class: B.Sc. (Med.) 5<sup>th</sup> Semester Subject: Botany (Practical)**

**Name of teacher : Dr. Veena Sachdeva, Dr. Renu Budhwar**

**From July 2023 to Dec 2023**

<b><u>Time period</u></b>	<b><u>Topics</u></b>
<b><u>July (Week 4)</u></b>	Plant Physiology
<b><u>August (Week 1)</u></b>	Hydrophytes
<b><u>Week 2</u></b>	Plant Physiology
<b><u>Week 3</u></b>	Hydrophytes
<b><u>Week 4</u></b>	Plant Physiology
<b><u>September (Week 1)</u></b>	Plant Physiology
<b><u>Week 2</u></b>	Xerophytes
<b><u>Week 3</u></b>	Xerophytes
<b><u>Week 4</u></b>	Ecology
<b><u>October (Week 1)</u></b>	Ecology
<b><u>Week 2</u></b>	Plant Physiology
<b><u>Week 3</u></b>	Ecology
<b><u>Week 4</u></b>	Plant Physiology
<b><u>November (Week1, Week 2)</u></b>	Ecology
<b><u>Week 3, Week 4</u></b>	Ecology

**Class: B.Sc. (Med.) 3<sup>rd</sup>Semester Subject: Botany (Theory)**

**Name of teacher : Dr. Nidhi Verma**

**From july 2023 to Dec 2023**

<b><u>Time period</u></b>	<b><u>Topics</u></b>
<b>July (Week 4)</b>	Diversity in Plant forms.
<b>August (Week 1, Week 2)</b>	Plant tissues. <b>Test</b>
<b>Week 3, Week 4</b>	Introduction to Gymnosperms Classification of Gymnosperms Fossils and Fossilization & Geological Time-scale
<b>September (Week 1)</b>	Fossil Gymnosperms Study of <i>Cycas</i>
<b>Week 2</b>	<i>Cycas</i>
<b>Week 3</b>	<i>Pinus</i> <b>Test</b>
<b>Week 4</b>	<i>Ephedra</i>
<b>October (Week 1)</b>	General characters of Angiosperms Shoot-Apical Meristem
<b>Week 2</b>	Cambium
<b>Week 3</b>	Secondary growth in stem
<b>Week 4</b>	Wood <b>Test</b>
<b>November (Week 1)</b>	Anomalous secondary growth in Stem
<b>Week 2</b>	Leaf – Types& Phyllotaxy
<b>Week 3</b>	Leaf Anatomy Stomata
<b>Week 4</b>	Root- Apical Meristem Structural modifications in Roots

**Class: B.Sc. (Med.) 3<sup>rd</sup>Semester Subject: Botany (Practical)**

**Name of teacher : Dr. Nidhi Verma, Dr. Savita Kadian, Ms. Mousam**

**Practical lesson plan: From july 2023 to Dec 2023**

<b><u>Time period</u></b>	<b><u>Topics</u></b>
<b>July (Week 4)</b>	Preparation of permanent slides
<b>August (Week 1)</b>	Permanent slides and material of monocot stem
<b>Week 2</b>	Permanent slides and material of dicot stem.
<b>Week 3</b>	Permanent slides and material of <i>Cycas</i>
<b>Week 4</b>	Permanent slides and material of <i>Cycas</i>
<b>September (Week 1)</b>	Permanent slides and material of <i>Pinus</i>
<b>Week 2</b>	Permanent slides and material of <i>Pinus</i>
<b>Week 3</b>	Leaf Modifications
<b>Week 4</b>	Monocot & Dicot Leaf
<b>October (Week 1)</b>	Permanent slides and material of <i>Ephedra</i>
<b>Week 2</b>	Monocot & Dicot Root
<b>Week 3</b>	Root modifications
<b>Week 4</b>	Root modifications
<b>November (Week 1)</b>	Stem modifications
<b>Week 2, Week 3 Week 4</b>	Leaf collection
	Stem modifications

**Class: B.Sc. (Med.)1<sup>st</sup>Semester Subject: Botany (Theory)**

**Name of teacher : Dr. Savita Kadian, Ms. Mousam**

**From July 2023 to Dec 2023**

<b><u>Time period</u></b>	<b><u>Topics</u></b>
<b>July (Week 4)</b>	Bacteria- General characters
<b>August (Week 1)</b>	Bacteria- Nutrition, Reproduction, Economic importance
<b>Week 2</b>	General characters of Algae- Classification, Economic importance
<b>Week 3</b>	Important features and life-history (excluding development) of <i>Volvox</i> , <i>Oedogonium</i> (Chlorophyceae),
<b>Week 4</b>	<i>Vaucheria</i> (Xanthophyceae), <i>Ectocarpus</i> (Phaeophyceae) and <i>Polysiphonia</i> (Rhodophyceae)
<b>September ( Week 1)</b>	<b>Viruses:</b> General account of Viruses including structure of TMV and Bacteriophages
<b>Week 2</b>	<b>Fungi:</b> General characters, classification (upto classes) and economic importance; General account of Lichens
<b>Week 3</b>	<b>Cell Division:</b> Mitosis and Meiosis - Stages and Significance
<b>Week 4</b>	<b>Chromosomal aberrations:</b> Structural and Numerical - deletions, duplications, translocations, inversions, aneuploidy, polyploidy
<b>October (Week 1)</b>	Test.
<b>Week 2</b>	Important features and life-history of <i>Phytophthora</i> (Mastigomycotina), <i>Mucor</i>
<b>Week 3</b>	Important features and life-history of <i>Phytophthora</i> (Mastigomycotina), <i>Mucor</i>

<b>Week 4</b>	(Zygomycotina), <i>Penicillium</i> (Ascomycotina), <i>Puccinia</i>
<b>November (Week 1)</b>	<i>Agaricus</i> (Basidiomycotina), <i>Colletotrichum</i> (Deuteromycotina)
	<b>Ultra-structure and function:</b> Chloroplast, Mitochondria, Nucleus and Nucleolus <b>Chromosome:</b> Morphology, ultra-structure kinetochore, centromere and telomere
<b>Week 2</b>	<b>Cell Cycle:</b> General account
<b>Week 3</b>	Sex chromosomes and Sex determination in Plants
<b>Week 4</b>	<b>Revision</b>

**Class: B.Sc. (Med.)1<sup>st</sup>Semester Subject: Botany (Practical)**

**Name of teacher : Dr. Savita Kadian, Ms. Mousam**

**From July 2023 to Dec 2023**

<b><u>Time period</u></b>	<b><u>Topics</u></b>
<b>July (Week 4)</b>	Study parts of microscope
<b>August (Week 1 ).</b>	permanent slides and material of <i>volvox</i> .
<b>Week 2</b>	Permanent slides and material of <i>oedogonium</i> .
<b>Week 3</b>	Permanent slides and material of <i>Vaucheria</i> .
<b>Week 4</b>	Permanent slides and material of <i>Ectocarpus</i> .
<b>September (Week 1)</b>	Permanent slides and material of <i>Polysiphonia</i> ,
<b>Week 2</b>	Permanent slides and material of <i>Mucor</i>
<b>Week 3</b>	Permanent slides and material of <i>Agaricus</i>
<b>Week 4</b>	Permanent slides and material of <i>Coliotricum</i> .
<b>October (Week 1)</b>	Permanent slides and material of <i>phytophthora</i> .
<b>Week 2</b>	Permanent slides and material of <i>Penicillium</i>
<b>Week 3</b>	Permanent slides and material of Puccinia.
<b>Week 4</b>	Permanent slides of mitosis and meiosis.
<b>November (Week 1)</b>	Preparation of slide of onion root tip
<b>Week 2</b>	Identification of collection
<b>Week 3</b>	Preparation of slide of onion root tip
<b>Week 4</b>	Revision of slides, Specimens of Lichens