

LESSON PLAN

Name of Teacher - Dr. Neha Mittal

Subject: Mathematics

Paper - Advanced Calculus

Class - B.A II & B.Sc II

Session:- 2019-20

Weeks With Months	Contents
JUL 16-20	Continuity, sequential continuity,
JUL 22-27	Properties of continuous functions, Uniform continuity, chain rule of differentiability
JUL 29- AUG 03	Mean value theorem, Rolle's theorem and Lagrange's mean value theorem and geometrical interpretation
AUG 5-10	Taylor's thm with various form of remainders
AUG 12-17	Daubouix intermediate value theorem for derivatives
AUG 19-24	Indefinite integrals Assignment - 1
AUG 26-31	Limit and Continuity of real valued functions of two variables
SEP 2-7	Partial differentiation, Total differentials, Composite functions and implicit functions
SEP 9-14	Change of variables, Homogeneous functions and Euler's thm
SEP 16-21	Taylor's thm for function of two variables Assignment - 2
SEP 23-28	Differentiability of real valued functions of two variables, Schwarz and Young's thm
SEP 30- OCT 5	Implicit function theorem, Maxima, Minima and Saddle points of two variables.
OCT 7-12	Lagrange's method of multipliers. Unit Test
OCT 14-19	Curves: Tangents, Principal normal, Lineals Screw - Frenet formulae
OCT 21-26	Locus of the centre of curvature, spherical curvature, Locus of centre of spherical curvature
OCT 31-NOV 2	Involute, Evolute, Perturbed curve, surfaces, Envelopes
NOV 4-9	Revision
NOV 11-18	,

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LESSON PLAN

Name of Teacher - Dr. Neha Mittal
 Paper - Business Mathematics
 Class - B.Com I

Subject: - Mathematics

Session:- 2019-20

Weeks With Months	Contents
JUL 16-20	Definition of a matrix. Types of matrices
JUL 22-27	Algebra of matrices, Properties of determinants
JUL 29- AUG 03	Values of determinants upto third order Adjoint of a matrix.
AUG 5-10	Elementary row or column operations, Inverse of a matrix through adjoint.
AUG 12-17	Inverse through row or column operations
AUG 19-24	Sol. of system of linear equations having unique solution and involving not more than three variables, Assignment - 1
AUG 26-31	Certain different types of interest rates, Concept of present value and amount of sum
SEP 2-7	Types of annuities, Present value and amount of an annuity
SEP 9-14	Including the case of continuous compounding Valuation of simple loans and debentures
SEP 16-21	Problems relating to sinking funds, Assignments - 2
SEP 23-28	Logarithms, Antilogarithms
SEP 30- OCT 5	do
OCT 7-12	A.P & G.P series Unit - TEST
OCT 14-19	Simple derivative of different functions, Rule of differentiation
OCT 21-26	Maxima and minima of functions of one variable
OCT 31- NOV 2	Relating to cost, revenue and profit
NOV 4-9	Revision
NOV 11-18	Revision


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LESSON PLAN

Name of Teacher - Dr. Neha Mittal
 Paper - Groups and Rings
 Class - B.A III & B.Sc III

Subject: - Mathematics

Session:- 2019-20

Weeks With Months	Contents
JUL 16-20	Definition of a group
JUL 22-27	Simple properties of groups, subgroups and subgroup criteria
JUL 29- AUG 03	Generation of groups, cyclic groups
AUG 5-10	Cosets, left and right cosets, Index of a subgroup, coset decomposition
AUG 12-17	Lagrange's theorem and its consequences
AUG 19-24	Normal subgroup, quotient groups
AUG 26-31	Assignment - 1 Homomorphism, Isomorphism, Automorphism and inner automorphism of a group
SEP 2-7	Automorphism of cyclic groups, Permutation group, even and odd permutation
SEP 9-14	Alternating group, Cayley's theorem
SEP 16-21	Centre of a group and derived group of a group, Assignment - 2
SEP 23-28	Introduction to rings, subrings
SEP 30- OCT 5	Integral domain and fields, characteristic of a ring, Ring Homomorphism
OCT 7-12	Ideals and quotient rings, Fields of quotients of an integral domain, Unit Test
OCT 14-19	Euclidean rings, Polynomial rings, Polynomial over the rational field
OCT 21-26 ³	Eisenstein's criterion of irreducibility, Polynomial rings over commutative rings
OCT 31-NOV 2	Unique factorization domain, R UFD implies so is $R[X, x_1, \dots, x_n]$
NOV 4-9	Revision
NOV 11-18	Revision

LESSON PLAN

Name of Teacher - Dr. Neha Mittal

Subject: - Mathematics

Paper - Algebra

3 days in a week

Class - D.A.I & B.Sc I

Session: - 2019-20

Weeks With Months	Contents
JUL 16-20	Symmetric, skew symmetric matrix
JUL 22-27	Hermitian and skew Hermitian matrix, Elementary operations on matrices
JUL 29- AUG 03	Rank of a matrix
AUG 5-10	Inverse of a matrix Linear dependence and Independence of rows and columns of matrix
AUG 12-17	Row rank and column rank of a matrix, Assignment - 1
AUG 19-24	Eigen values, Eigen vectors
AUG 26-31	Characteristic equation of a matrix
SEP 2-7	Minimal polynomial of a matrix, Cayley Hamilton theorem
SEP 9-14	Use in finding inverse of a matrix. Assignment - 2
SEP 16-21	Applications of matrices to a system of linear equations
SEP 23-28	Theorem on consistency of a system of linear equations
SEP 30- OCT 5	Unitary and orthogonal Matrices
OCT 7-12	do
OCT 14-19	Bilinear and quadratic forms
OCT 21-26	do
OCT 31-NOV 2	Revision
NOV 4-9	do
NOV 11-18	do

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Lesson Plan

Teacher 's Name –Mrs. Neeraj Dhania

Session-2020-2021

Class- B.A.Final

Subject-English

Weeks with Months	Contents
Aug 4-8	Students will be informed about the syllabus and introduction of novel and novelist.
Aug 10-15	Brief Summary of the novel Kanthapura, discussion about novel and its forms, characters in the novel.
Aug 17-22	Explanation of chapter-1, Short Questions, phonetic transcription, Historical Novel.
Aug 24-29	Explanation of chapter-2, Short Questions, Conversion of sentences, Realistic Novel.
Aug 31-Sep 05	Explanation of chapter-3, Short Questions, Word accent and its grammatical functions
Sep 07-12	Explanation of chapter-4, Short and long questions Picaresque novel, literary terms.
Sep 14-19	Explanation of chapter-5, Short questions ,Weak forms in English pronunciation.
Sep 21-26	Explanation of chapter-6 ,Short questions ,Epistolary novel, literary terms.
Oct 28-03	Explanation of chapter-7, Short and long questions, Intonation and its tones.
Oct 05-10	Explanation of chapter-8, Short questions, Literary terms, Novel of manners.
Oct 12-17	Explanation of chapter-9 ,Short questions, Transitional Words and Phrases.
Oct 19-24	Explanation of chapter-10, Short questions ,Literary terms, 1 st assignment given.
Oct 26-31	Explanation of chapter-11 ,Short questions, Conditional Clauses, THE ROMANCE
Nov 02-07	Explanation of chapter-12, Short questions, Defining and Non-Defining clauses
Nov 9-13	Explanation of chapter-13 ,Short and long questions ,Gothic novel.

Nov 16-21	Explanation of chapter-14 ,Short questions, Literary terms
Nov 23-28	Explanation of chapter-15 ,Short and long questions ,Test.
Nov 30- Dec05	Explanation of chapter-16, Short questions, Science Fiction
Dec 07-12	Explanation of chapter-17, Short questions ,Literary terms,2 nd assignment given.
Dec 14-19	Explanation of chapter-18 ,Short and long questions Psychological novel.
Dec 21-26	Explanation of chapter-19, Novella, Intellectual novel , Detective Fiction, Regional novel.
Jan 28-02	Explanation of remaining chapters of novel, Bildungsroman and literary terms.
Jan 4-9	Revision o f Syllabus
Jan 11-16	Revision o f Syllabus
Jan 18-23	Revision o f Syllabus
Jan 25-30	Revision o f Syllabus

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Summary of Lesson Plan

(Odd semester of Session 2020-21)

Name of College: Government College, Julana

Name of Assistant/Associate Professor: VIJENDER KUMAR

Class: B.A. 3rd Year

Name of Subject: Geography

Paper: Economic Geography

Weeks	Subject Matter
16 th - 21 st Nov.2020	Nature & Scope of Economic geography
23 rd - 28 th Nov.2020	Classification of Economic activities and their impact on environment.
30 th Nov. - 05 th Dec.2020	World natural resources
07 th - 12 th Dec.2020	Conservation and Utilization of natural resources.
14 th - 19 th Dec.2020	Spatial distribution of food, commercial and plantation crops.
21 st - 26 th Dec.2020	Classification of mineral resources (ferrious and non- ferrious)
28 th Dec. - 02 nd Jan.	Distribution and production of coal, iron ore
04 th - 09 th Jan.2021	Petroleum and natural resources
11 th - 16 th Jan.2021	Classification of industries
18 th - 23 rd Jan.2021	Trans, Communication
25 th - 30 th Jan. 2021	Trade
February 2021	Revision


(VIJENDER KUMAR)

Dept. of Geography
G C Julana


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Name of Teacher - MAHILAL

Subject - HINDI

Paper - HINDI

Class - B.A. 2nd - A, B, C

Session 2020-21

Weeks With Months	Contents
AUG 4-8	हरिऔध का साहित्यिक परिचय एवं 'पवनदूती' कविता की सप्रसंग व्याख्या।
AUG 10-15	'पवनदूती' की सप्रसंग व्याख्या एवं प्रश्नोत्तर।
AUG 17-22	मैथिलीशरण गुप्त का साहित्यिक परिचय एवं 'जयद्रथ बध' की सप्रसंग व्याख्या।
AUG 24-29	'भारत-भारती' व 'सन्देश यहाँ में नहीं खर्ग का लाया' सप्रसंग व्याख्या एवं प्रश्नोत्तर।
AUG 31- SEP 5	'जयशंकर प्रसाद' का साहित्यिक परिचय एवं 'आनंदसर्ग' की सप्रसंग व्याख्या।
SEP 7-12	'आँसू' कविता की सप्रसंग व्याख्या एवं प्रश्नोत्तर।
SEP 14-19	सूर्यकांत त्रिपाठी 'निराला' का साहित्यिक परिचय एवं 'विधवा, बादल राग' की सप्रसंग व्याख्या व प्रश्नोत्तर।
SEP 21-26	'जागो फिर एक बार' वह तोड़ी पत्थर' की सप्रसंग व्याख्या एवं प्रश्नोत्तर।
SEP 28- OCT 3	'महादेवी वर्मा' का साहित्यिक परिचय कहे देमों अब क्या देखें कौन तम मेरे हृदय में' सप्रसंग व्याख्या व प्रश्नोत्तर।
OCT 5-10	'दुख की बदली' व 'मुस्कानें फूल नहीं' सप्रसंग व्याख्या व प्रश्नोत्तर।
OCT 12-17	रामधारी सिंह 'दिनकर' का साहित्यिक परिचय एवं 'कुरुक्षेत्र' की सप्रसंग व्याख्या।
OCT 19-24	'कुरुक्षेत्र' की सप्रसंग व्याख्या एवं प्रश्नोत्तर।
OCT 26-31	'भारत भूषण अग्रवाल' का साहित्यिक परिचय एवं 'आने वालों से एक सवाल' सप्रसंग व्याख्या।
NOV 2-7	'कविता - दूंगा मैं', 'फूल के बोल' सप्रसंग व्याख्या एवं प्रश्नोत्तर।
NOV 9-14	शीतिकाल हिन्दी कविता की पृष्ठ श्रम व नामकरण।
NOV 16-21	शीतिकाल :- प्रवृत्तियाँ
NOV 23-28	शीतिसिद्ध काव्य, शीतिसिद्ध काव्य प्रवृत्तियाँ
NOV 30- DEC 5	शीति मुक्त काव्य प्रवृत्तियाँ एवं अतिलघुश्लोक प्रश्नोत्तर।
DEC 7-12	शीतिकालीन काव्य की उपलब्धियाँ
DEC 14-19	अतिलघुश्लोक एवं लघुश्लोक प्रश्न

DEC 21-26	कम्प्यूटर : स्वरूप और महत्व
DEC 28- JAN 2	ई-मेल : प्रेषण-ग्रहण
JAN 4-9	इंटरनेट : स्वरूप और उपयोगिता
JAN 11-16	मशीनी अनुवाद, अनुवाद परिभाषा और स्वयं
JAN 18-23	आधुनिक हिन्दी कविता दोहराई
JAN 25-30	हिन्दी साहित्य ऐतिहासिक दोहराई


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Name of Teacher - H.S. Prasad

Subject - Hindi

Paper - Hindi

Class - B.Sc. 2nd


Session - 2020-21

Weeks With Months	Contents
AUG 4-8	हिन्दी पाठ्य पुस्तक का विचार काव्य परिचय
AUG 10-15	परिचय, मैथिली शरण, मनु का साहित्यिक परिचय कविता - मातृ मंदिर, सुदामा, का सप्रसंग व्याख्या
AUG 17-22	यशोवशा अरि संवाद, नीर आध्यात्म, अतीत का मौखिक सप्रसंग व्याख्या।
AUG 24-29	जयशंकर प्रसाद साहित्यिक परिचय, मद्रास प्रदेश भारत सप्रसंग व्याख्या
AUG 31- SEP 5	बीती विभावरी जाम री, खोलों द्वारा सप्रसंग व्याख्या
SEP 7-12	भारत वर्ष, अशोक की विनीत नाम संग व्याख्या
SEP 14-19	सूर्यकांत त्रिपाठी निराला साहित्यिक परिचय कविता सप्रसंग व्याख्या
SEP 21-26	एनोह निहरी बह गया, विद्या का सप्रसंग व्याख्या शिक्षक सप्रसंग व्याख्या
SEP 28- OCT 3	सम्वारी सिंह दिनकर साहित्यिक परिचय, गीत-अंगीत सप्रसंग व्याख्या
OCT 5-10	कविता - माद्री, परमपरा सप्रसंग व्याख्या
OCT 12-17	जूठा पत्ता, आदमी सप्रसंग व्याख्या
OCT 19-24	मानवाधिकार, नैतिक शिक्षा निबन्ध
OCT 26-31	नैतिक शिक्षा, विज्ञान और लौकिक शिक्षण निबन्ध
NOV 2-7	वैज्ञानिक प्रगति में भारत का योगदान, वैश्वीकरण का अर्थ
NOV 9-14	दूरदर्शन निबन्ध व टिप्पणी
NOV 16-21	पत्र लेखन - 1. सरकारी पत्र
NOV 23-28	2. अर्द्ध-सरकारी पत्र
NOV 30- DEC 5	वैज्ञानिक शब्दावली
DEC 7-12	वैज्ञानिक शब्दावली
DEC 14-19	वैज्ञानिक शब्दावली

B.E.C. 2020

11/11/20

DEC 21-26	मौखिकीकरण मूल्य - का. 1
DEC 28- JAN 2	जयशंकर प्रसाद - का. 1
JAN 4-9	सूर्यकांत त्रिपाठी - का. 1
JAN 11-16	रामधारी सिंह दिनकर - का. 1
JAN 18-23	निबन्ध लेखन - का. 1
JAN 25-30	पत्र लेखन, पारिभाषिक शब्दावली का. 1


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Name of Teacher - MAHIPAL


Paper - Hindi

Class - B.A. Ist - B.

Subject - Hindi

Session 2020-21

Weeks With Months	Contents
NOV 16-21	'कबीरदास' का साहित्यिक परिचय, 'पद' सप्रसंग व्याख्या एवं प्रश्नोत्तर
NOV 23-28	'साखी' सप्रसंग व्याख्या एवं प्रश्नोत्तर
NOV 30- DEC 5	'सूरदास' साहित्यिक परिचय, 'पद' सप्रसंग व्याख्या एवं प्रश्नोत्तर
DEC 7-12	'तुलसीदास' साहित्यिक परिचय, 'पद' सप्रसंग व्याख्या एवं प्रश्नोत्तर
DEC 14-19	'मीराबाई' साहित्यिक परिचय, 'पद' सप्रसंग व्याख्या एवं प्रश्नोत्तर
DEC 21-26	'बिहारीलाल' साहित्यिक परिचय, 'दोहे' सप्रसंग व्याख्या एवं प्रश्नोत्तर
DEC 28- JAN 2	'घनानंद' सप्रसंग व्याख्या एवं प्रश्नोत्तर
JAN 4-9	'रसखान' साहित्यिक परिचय, 'छंद' सप्रसंग व्याख्या एवं प्रश्नोत्तर
JAN 11-16	हिन्दी साहित्य का आदिकाल :- हिन्दी साहित्य लेखन परम्परा, आदिकालीन परिस्थितियों का वर्णन
JAN 18-23	आदिकाल के नामकरण की समस्या, आदिकालीन हिन्दी साहित्य की प्रमुख प्रवृत्तियाँ, रासो काव्य परम्परा
JAN 25-30	काव्यशास्त्र :- काव्य के तत्त्व, रस, अलंकार, छन्द, शब्द शक्ति, काव्य-गुण


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Name of Teacher - MAHIPAL

Subject - HINDI

Paper - HINDI

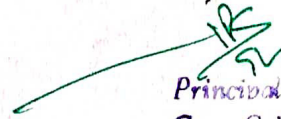
Class - B.A. 2nd - A, B, C

Session 2020-21

Weeks With Months	Contents
AUG 4-8	'हरिऔध' का साहित्यिक परिचय एवं 'पवनदूती' कविता की सप्रसंग व्याख्या।
AUG 10-15	'पवनदूती' की सप्रसंग व्याख्या एवं प्रश्नोत्तर।
AUG 17-22	'मैथिलीशरण गुप्त' का साहित्यिक परिचय एवं 'जयद्रथ बध' की सप्रसंग व्याख्या।
AUG 24-29	'भारत-भारती' व 'सन्देश यहाँ मैं नहीं स्वर्ग का लाया' सप्रसंग व्याख्या एवं प्रश्नोत्तर।
AUG 31- SEP 5	'जयशंकर प्रसाद' का साहित्यिक परिचय एवं 'आनंदसर्प' की सप्रसंग व्याख्या।
SEP 7-12	'आँसू' कविता की सप्रसंग व्याख्या एवं प्रश्नोत्तर।
SEP 14-19	'सूर्यकांत त्रिपाठी 'निराला' का साहित्यिक परिचय एवं 'विधवा, बादल राग' की सप्रसंग व्याख्या व प्रश्नोत्तर।
SEP 21-26	'जागो फिर एक बार' व 'ह लोड़ती पत्थर' की सप्रसंग व्याख्या एवं प्रश्नोत्तर।
SEP 28- OCT 3	'महादेवी वर्मा' का साहित्यिक परिचय, 'कह दे माँ अब क्या देखें, कौन तुम मेरे हृदय में' सप्रसंग व्याख्या व प्रश्नोत्तर।
OCT 5-10	'दुःख की बदली, वे मुस्काने फूल नहीं' सप्रसंग व्याख्या व प्रश्नोत्तर।
OCT 12-17	'रामधारी सिंह 'दिनकर' का साहित्यिक परिचय एवं 'कुरुक्षेत्र' की सप्रसंग व्याख्या।
OCT 19-24	'कुरुक्षेत्र' की सप्रसंग व्याख्या एवं प्रश्नोत्तर।
OCT 26-31	'भारत भूषण अग्रवाल' का साहित्यिक परिचय एवं 'आने वालों से एक सवाल' सप्रसंग व्याख्या।
NOV 2-7	'कविता - 'दूंगा मैं', 'फूल के बोल' सप्रसंग व्याख्या एवं प्रश्नोत्तर।
NOV 9-14	ऐतिहासिक हिन्दी कविता की दृष्टि श्रेणी व नामकरण।
NOV 16-21	ऐतिहासिक :- प्रवृत्तियाँ।
NOV 23-28	ऐतिहासिक काव्य, ऐतिहासिक काव्य प्रवृत्तियाँ।
NOV 30- DEC 5	ऐतिहासिक काव्य प्रवृत्तियाँ एवं अतिलघुशात्मक प्रश्नोत्तर।
DEC 7-12	ऐतिहासिक काव्य की उपलब्धियाँ।
DEC 14-19	अतिलघुशात्मक एवं लघुशात्मक प्रश्न।

BA. Ind. 2.

DEC 21-26	कम्प्यूटर : स्वरूप और महत्त्व
DEC 28- JAN 2	ई-मेल : प्रेषण-ग्रहण
JAN 4-9	इंटरनेट : स्वरूप और उपयोगिता
JAN 11-16	मशीनी अनुवाद, अनुवाद परिभाषा और स्वरूप
JAN 18-23	आधुनिक हिन्दी कविता दौहराई
JAN 25-30	हिन्दी साहित्य ऐतिहासिक दौहराई



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Name of Teacher - B.S.C MAHIPAL

Subject - HINDI

Paper - HINDI

Class - B.SC-2nd

Session 2020-21.

Weeks With Months	Contents
AUG 4-8	हिन्दी पाठ्य पुस्तक 'अभिनव काव्य गरिमा' परिचय, मैथिलीशरण गुप्त का साहित्यिक परिचय
AUG 10-15	कविता - मातृ मंदिर, सुदामा, की सप्रसंग व्याख्या
AUG 17-22	यशोवशा-सखि संवाद, वीरअभिनव्यु, अतीत का गौरव सप्रसंग व्याख्या।
AUG 24-29	जयशंकर प्रसाद साहित्यिक परिचय, 'मधुमधु देशद्वारा' सप्रसंग व्याख्या
AUG 31- SEP 5	वीती विभावरी जागरी, खोलो द्वारा सप्रसंग व्याख्या
SEP 7-12	भारतवर्ष, अशोक की चिन्ता सप्रसंग व्याख्या
SEP 14-19	सूर्यकांत त्रिपाठी 'निराला' साहित्यिक परिचय, कविता सप्रसंग व्याख्या
SEP 21-26	'एनह निश्चर बहगया' विधवा सप्रसंग व्याख्या भिक्षुक सप्रसंग व्याख्या
SEP 28- OCT 3	यमदारी सिंह 'दिनकर' साहित्यिक परिचय, गीत-अगीत सप्रसंग व्याख्या
OCT 5-10	कविता - गांधी, परम्परा सप्रसंग व्याख्या
OCT 12-17	जूठा पत्ता, 'आदमी' सप्रसंग व्याख्या
OCT 19-24	मानवाधिकार, नैतिक शिक्षा निबन्ध
OCT 26-31	नैतिक शिक्षा, विज्ञान और औद्योगिकरण निबन्ध
NOV 2-7	वैज्ञानिक प्रगति में भारत का योगदान, वैश्वीकरण और कविता
NOV 9-14	दूरदर्शन निबन्ध व दोहराई।
NOV 16-21	पत्र लेखन - 1. सरकारी पत्र
NOV 23-28	2. अर्द्ध-सरकारी पत्र
NOV 30- DEC 5	वैज्ञानिक शब्दावली
DEC 7-12	वैज्ञानिक शब्दावली
DEC 14-19	वैज्ञानिक शब्दावली

DEC 21-26	मैथिलीशरण गुप्त - काव्य दौहराई
DEC 28- JAN 2	जयशंकर प्रसाद - काव्य - दौहराई
JAN 4-9	सूर्यकांत त्रिपाठी 'निराला' - काव्य दौहराई
JAN 11-16	रामधारी सिंह 'चिन्कर' - काव्य दौहराई
JAN 18-23	निबन्ध लेखन - दौहराई
JAN 25-30	पत्र-लेखन, पारिभाषिक शब्दावली दौहराई -



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LESSON PLAN (Govt. College, Julana)

**Name of Teacher –Dr. Jyoti Rani Subject: -Commerce Paper –Financial Accounting-I
Class – B.Com.I (I sem.) Session:- 2020-2021**

Weeks With Months	Contents
NOV 16-21	Financial accounting: meaning, need, objectives & scope, Book-keeping and accounting; branches of accounting
NOV 23-28	Accounting principles: concepts and conventions; accounting cycle, Accounting equation
NOV 30- DEC 5	Journal; rules of journalizing
DEC 7-12	Ledger & trial balance
DEC 14-19	Rectification of Errors: suspense account; effect on profit.
DEC 21-26	Capital and Revenue: Concept and classification of income; expenditure; receipts
DEC 28- JAN 2	Depreciation provisions and reserves, Depreciation: concept and classification, Depreciation: Methods of depreciation accounting
JAN 4-9	Final Accounts: manufacturing, trading, profit & loss account, Balance sheet, Final Accounts: adjustment entries
JAN 11-16	Accounts of Non-profit Organizations
JAN 18-23	Consignment Accounts: accounting records, Normal and abnormal Loss: Valuation of unsold stock
JAN 25-30	Test and assignments

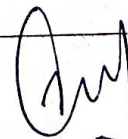



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LESSON PLAN

Name of Teacher –Dr. Jyoti Rani Paper – Principles of Business Management
Subject: -Commerce Class – B.Com. I (I sem.) Session:- 2020-2021

Weeks With Months	Contents
NOV 16-21	Introduction to commerce: concept, nature, importance and scope, Components of commerce, evolution of commerce, commerce and business
NOV 23-28	Introduction to Management: concept, characteristics and significance, Process/Functions of Management, Coordination, Management: as Science, Art and profession
NOV 30- DEC 5	Approaches to Management: Classical and Neo classical approach, Behavioral approach, Management science approach, Systems approach and Contingency approach; Management thought in ancient India.
DEC 7-12	Planning: concept, process & importance, Types of Plans: Policy, Programme, Strategy, Vision, Mission, Goals, and Objectives,
DEC 14-19	Organizing: meaning, principles and benefits of organizations; Organizational structure: Functional, Line vs. Staff, matrix, Formal vs. Informal; Organizational structure for large scale business organization.
DEC 21-26	Delegation: meaning, advantages, barriers to delegation, guidelines for effective delegation. Decentralization and Centralization: advantages and disadvantages, factors influencing decentralization.
DEC 28- JAN 2	Staffing: meaning, importance & scope of staffing. Directing: concept; Motivation: concept, objectives & significance, Approaches to motivation.
JAN 4-9	Leadership: concept, significance & functions, Leadership styles, approaches to leadership.
JAN 11-16	Controlling: meaning and characteristics of control, process of control,
JAN 18-23	Prerequisites of an effective control system; controlling techniques.
JAN 25-30	Test and assignments



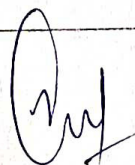
LESSON PLAN

Name of Teacher –Dr.Jyoti Rani Subject: -Commerce Paper–Indian Financial System

Class – B.Com.II (III Sem.)

Session:- 2020-2021

Weeks With Months	Contents
AUG 4-8	Introduction: nature and role of financial system
AUG 10-15	Financial system and economic development;
AUG 17-22	An overview of Indian financial system.
AUG 24-29	Components of financial system:
AUG 31- SEP 5	Financial markets and financial instruments: money and capital markets:
SEP 7-12	Money market: meaning, constituents instruments and functions,
SEP 14-19	Recent developments in Indian money market
SEP 21-26	Capital market: primary and secondary market
SEP 28- OCT 3	Depository system,
OCT 5-10	Recent developments in Indian capital market;
OCT 12-17	SEBI: its formation, role and recent developments.
OCT 19-24	The Debt Market: meaning, features, participants,
OCT 26-31	The Debt Market: Instruments; private, PSUs
NOV 2-7	Government securities market.
NOV 9-14	Financial institutions
NOV 16-21	Reserve Bank of India: organization, management and functions.
NOV 23-28	Credit creation and credit control.
NOV 30- DEC 5	Commercial banks: meaning and functions,
DEC 7-12	Structure and recent developments in commercial banking in India;



DEC 14-19	E-banking, NPA's in Commercial Banks, Payment Banks.
DEC 21-26	Development banks: concept, objectives and functions;
DEC 28- JAN 2	Recent developments in development banking.
JAN 4-9	Revision
JAN 11-16	Revision
JAN 18-23	Revision
JAN 25-30	Test and assignments



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LESSON PLAN

Name of Teacher –Dr.Jyoti Rani
Class – B.Com.II (III Sem.)

Subject: -Commerce Paper– Rural Marketing
Session:- 2020-2021

Weeks With Months	Contents
AUG 4-8	Rural Marketing: meaning, nature, characteristics;
AUG 10-15	Rural Marketing: Scope, Importance
AUG 17-22	Rural Marketing: Approaches
AUG 24-29	opportunities to rural markets in India;
AUG 31- SEP 5	challenges to rural markets in India;
SEP 7-12	Rural Marketing Environment
SEP 14-19	Socio-cultural, economic, demographic factors
SEP 21-26	technological and other environmental factor affecting rural marketing;
SEP 28- OCT 3	rural consumer behaviour;
OCT 5-10	segmentation of rural market;
OCT 12-17	strategies for rural marketing; meaning , concept
OCT 19-24	strategies for rural marketing; Significance
OCT 26-31	rural marketing mix; Product, Price
NOV 2-7	rural marketing mix; Promotion, Place
NOV 9-14	difference in rural and urban market;
NOV 16-21	problems in rural marketing;
NOV 23-28	Strategies for rural marketing.
NOV 30- DEC 5	Product planning,
DEC 7-12	promotion of distribution channels for marketing of durables in rural areas;

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DEC 14-19	promotion of distribution channels for marketing of non-durables in rural areas;
DEC 21-26	management of distribution channels for marketing of durables and non-durables in rural areas;
DEC 28- JAN 2	Innovation in rural market;
JAN 4-9	Revision
JAN 11-16	Revision
JAN 18-23	Revision
JAN 25-30	Test and assignments



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Name of Teacher – Mr. Sahil
 Paper –
 Class – B.Sc. 1st

Subject – Organic Chemistry

Weeks With Months	Contents
OCT 23	
OCT 26-31	
NOV 2-7	
NOV 9-14	
NOV 16-21	Localized and delocalized chemical bond, Van der Waal's interactions, resonance: conditions resonance effect and its applications Concept of isomerism. Types of isomerism. Optical isomerism — elements of symmetry
NOV 23-28	Molecular chirality, enantiomers, stereogenic centre, optical activity, properties of enantiomers
NOV 30- DEC 5	Chiral and achiral molecules with two stereogenic centres , Diastereomers, threo and erythro diastereomers, meso compounds resolution of enantiomers, inversion, retention and racemization
DEC 7-12	Relative and absolute configuration, sequence rules, R & S systems of nomenclature Geometric isomerism — determination of configuration of geometric isomers. E & Z system of nomenclature
DEC 14-19	Conformational isomerism — conformational analysis of ethane and n-butane, conformations of cyclohexane, axial and equatorial bonds Newman projection and Sawhorse formulae, Difference between configuration and conformation
DEC 21-26	Curved arrow notation, drawing electron movements with arrows, half-headed and double-headed arrows, homolytic and heterolytic bond breaking Types of reagents – electrophiles and nucleophiles
DEC 28- JAN 2	Types of organic reactions Reactive intermediates — carbocations, carbanions, free radicals, carbenes,(formation, structure & stability).
JAN 4-9	IUPAC nomenclature of branched and unbranched alkanes Classification of carbon atoms in alkanes. Isomerism in alkanes, sources, methods of formation: Wurtz reaction, Kolbe reaction,
JAN 11-16	Corey-House reaction and decarboxylation of carboxylic acids Physical properties.: Mechanism of free radical halogenation of alkanes
JAN 18-23	Reactivity and selectivity Cycloalkanes — nomenclature, synthesis of cycloalkanes and their derivatives Photochemical (2+2) cycloaddition reactions,
JAN 25-30	Dehalogenation of α,ω -dihalides, , pyrolysis of calcium or barium salts of dicarboxylic acids, Baeyer's strain theory and its limitations., theory of strainless rings.



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Name of Teacher – Mr. Sahil
 Paper –
 Class – B.Sc. 1st

Subject – Inorganic Chemistry

Weeks With Months	Contents
OCT 23	
OCT 26-31	
NOV 2-7	
NOV 9-14	
NOV 16-21	Idea of de Broglie matter waves, Heisenberg's uncertainty principle, atomic orbitals, quantum numbers, radial and angular wave functions, normal and orthogonal wave functions.
NOV 23-28	significance of Ψ and Ψ^2 , probability distribution curves, shapes of s, p, d, f orbitals, Aufbau and Pauli exclusion principles, Hund's multiplicity rules, Electronic configuration of elements.
NOV 30- DEC 5	effective nuclear charge, Slater's rules, Classification of periodic table into s, p, d, f blocks.
DEC 7-12	atomic and ionic radii, ionisation energy, electron affinity and electronegativity definition methods of determination or evaluation, trend in periodic table (in s and p-block elements).
DEC 14-19	methods of determination or evaluation, trend in periodic table (in s and p-block elements).
DEC 21-26	Valence bond theory (Heitler-London and Pauling approach) and its limitation, directional characteristics of covalent bond, various type of hybridisation and shapes of simple inorganic molecules and ions (BeF ₂ , BF ₃ , CH ₄).
DEC 28- JAN 2	various type of hybridisation and shapes of simple inorganic molecules and ions (PF ₅ , SF ₆ , IF ₇ , SO ₄ ⁻² , ClO ₄ ⁻¹ , NO ₃ ⁻¹) valence shell electron pair repulsion (VSEPR) theory to NH ₃ , H ₃ O ⁺ , SF ₄ , ClF ₃ , H ₂ O, SnCl ₂ , ClO ₃ ⁻¹ and ICl ₂ ⁻ .
JAN 4-9	Molecular orbital theory of homonuclear (N ₂ , O ₂) heteronuclear (CO and NO) diatomic molecules and ions, bond energy, bond angle, bond length and dipole moments, percentage ionic character from dipole moment and electronegativity difference.
JAN 11-16	Ionic structures (NaCl, CsCl, ZnS (Zinc blende), CaF ₂) size effects, radius ratio rule and its limitations, Madelung constant.
JAN 18-23	Stoichiometric and Non stoichiometric defects in crystals, Lattice energy (mathematical derivation excluded) and Born Haber cycle. Test
JAN 25-30	Solvation energy and its relation with solubility of ionic solids, Polarizing power and Polarisability of ions, Fajan's rule. Test



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Name of Teacher – Mr. Sahil

Subject – Inorganic Chemistry

Paper –
Class – B.Sc. 2nd

Weeks With Months	Contents
OCT 23	Definition of transition elements, position in the periodic table, General characteristic properties of d-Block elements.
OCT 26-31	General characteristic properties of d-Block elements, Comparison of properties of 3d elements with 4d and 5d elements with reference only to ionic radii.
NOV 2-7	Oxidation state, magnetic and spectral properties and stereochemistry.
NOV 9-14	Stability of various oxidation states and e.m.f (Latimer diagrams).
NOV 16-21	Stability of various oxidation states and e.m.f (Frost diagrams).
NOV 23-28	Structure and properties of some compounds of transition elements- TiO ₂ , VOCl ₂ .
NOV 30- DEC 5	Structure and properties of some compounds of transition elements- FeCl ₃ , CuCl ₂ and Ni(CO) ₄ .
DEC 7-12	Werner's theory of coordination compounds, effective atomic number.
DEC 14-19	Chelates, nomenclature of coordination compounds
DEC 21-26	Isomerism in coordination compounds, valence bond theory of transition metal complexes
DEC 28- JAN 2	Physical properties of solvents, types of solvents
JAN 4-9	General characteristics, reactions in non aqueous solvents with reference to liquid NH ₃
JAN 11-16	General characteristics, reactions in non aqueous solvents with reference to liquid SO ₂
JAN 18-23	Revision Test
JAN 25-30	Revision Test


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2021-22

Name of Teacher – Mr. Sahil
 Paper –
 Class – B.Sc. 2nd

Subject – Physical Chemistry

Weeks With Months	Contents
OCT 23	Definition of thermodynamic terms: system, surrounding etc.
OCT 26-31	Types of systems, intensive and extensive properties. State and path functions and their differentials.
NOV 2-7	Thermodynamic process. Thermodynamic equilibrium, Concept of heat and work.
NOV 9-14	First law of thermodynamics: statement, concepts of internal energy and enthalpy. Heat capacity, heat capacities at constant volume and pressure and their relationship.
NOV 16-21	Joule-Thomson coefficient for ideal gas and real gas and inversion temperature
NOV 23-28	Calculation of w, q, dU & dH for the expansion of ideal gases under isothermal conditions for reversible process.
NOV 30- DEC 5	Calculation of w, q, dU & dH for the expansion of ideal gases under adiabatic conditions for reversible process
DEC 7-12	Equilibrium constant and free energy, concept of chemical potential,
DEC 14-19	Thermodynamic derivation of law of chemical equilibrium. Temperature dependence of equilibrium constant
DEC 21-26	Clausius-Clapeyron equation and its applications.
DEC 28- JAN 2	Nernst distribution law – its thermodynamic derivation,
JAN 4-9	Applications of distribution law: (i) Determination of degree of hydrolysis and hydrolysis constant of aniline hydrochloride
JAN 11-16	Applications of distribution law: (ii) Determination of equilibrium constant of potassium tri-iodide complex
JAN 18-23	Applications of distribution law: (iii) Process of extraction. More stress on numerical problems.
JAN 25-30	Test




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Name of Teacher – Mr. Sahil

Subject – Inorganic Chemistry

Paper –
Class – B.Sc. 3rd

Weeks With Months	Contents
OCT 23	Limitations of valence bond theory
OCT 26-31	an elementary idea of crystal field theory, crystal field splitting in octahedral
NOV 2-7	crystal field splitting in octahedral, tetrahedral and square planer complexes.
NOV 9-14	factors affecting the crystal field parameters Revision
NOV 16-21	A brief outline of thermodynamic stability of metal complexes
NOV 23-28	d factors affecting the stability, Irving William Series.
NOV 30- DEC 5	Substitution reactions of square planer complexes of Pt(II), Trans effect. Revision
DEC 7-12	Types of magnetic materials, magnetic susceptibility.
DEC 14-19	method of determining magnetic susceptibility
DEC 21-26	spin only formula, L-S coupling, correlation of μ_s and μ_{eff} values
DEC 28- JAN 2	Orbital contribution to magnetic moments, application of magnetic moment data for 3d metal complexes.
JAN 4-9	Selection rules for d-d transition, spectroscopic ground states
JAN 11-16	spectrochemical series, Orgel energy level diagram for d1 and d9 states
JAN 18-23	discussion of electronic spectrum of $[Ti(H_2O)_6]^{+3}$ complex ion
JAN 25-30	Revision Test




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Name of Teacher – Mr. Sahil

Subject – Physical Chemistry

Paper –

Class – B.Sc. 3rd

Weeks With Months	Contents
OCT 23	Black-body radiation
OCT 26-31	Plank's radiation law, photoelectric effect,
NOV 2-7	postulates of quantum mechanics, quantum mechanical operators
NOV 9-14	commutation relations, Hamiltonian operator, Hermitian operator, average value of square of Hermitian as a positive quantity, Role of operators in quantum mechanics
NOV 16-21	To show quantum mechanically that position and momentum cannot be predicated simultaneously, Determination of wave function & energy of a particle in one dimensional box.
NOV 23-28	Optical activity, polarization – (Clausius – Mossotti equation - derivation excluded). Orientation of dipoles in an electric field
NOV 30- DEC 5	dipole moment, induced dipole moment, measurement of dipole moment-temperature method and refractivity method
DEC 7-12	dipole moment and structure of molecules, Magnetic permeability, magnetic susceptibility and its determination.
DEC 14-19	Application of magnetic susceptibility, magnetic properties – paramagnetic, diamagnetism and ferromagnetism. Spectroscopy : Introduction: Electromagnetic radiation
DEC 21-26	Regions of spectrum, basic features of spectroscopy, statement of Born-oppenheimer approximation, Degrees of freedom.
DEC 28- JAN 2	Rotational Spectrum : Selection rules, Energy levels of rigid rotator (semi-classical principles), rotational spectra of diatomic molecules , spectral intensity distribution using population distribution (Maxwell-Boltzmann distribution)
JAN 4-9	determination of bond length and isotopic effect . Vibrational spectrum : Selection rules, Energy levels of simple harmonic oscillator, pure vibrational spectrum of diatomic molecules
JAN 11-16	determination of force constant and qualitative relation of force constant and bond energy, idea of vibrational frequencies of different functional groups.
JAN 18-23	Raman Spectrum : Concept of polarizability, pure rotational and pure vibrational Raman spectra of diatomic molecules, selection rules, Quantum theory of Raman spectra.
JAN 25-30	Test



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LESSON PLAN (April- July 2022)

Name of Teacher – Dr. Neha Mittal

Subject: - Mathematics

Paper – O.D.E

Class –B.A/B.Sc. I

Session:- 2021-2022 (Even Sem.)

Weeks With Months	Contents
April 1,2 and 4- 9	Unit-1 Geometrical meaning of a D.E, Exact D.E, integrating factors
April 11- 16	First order higher degree equations, Lagrange's equations
April 18-23	Clairaut euations, Equations reducible to Clairaut's form
April 25-30	Singular solution
May 2-7	Assignment-1, Unit-2, Orthogonal Trajectories in Cartesian and polar coordinates, self orthogonal family of curves
May 9-14	Linear D.E. with constant coefficients
May 16-21	Linear D.E. with constant coefficients
May 23-28	Homogenous linear ordinary D.E
May 30-31 and June 1-4	Equations reducible to homogenous
June 6-11	Assignment-2, Unit-3 Linear D.E. of second order, reduction to normal form, Transformation of the equation by changing dependent variable/independent variable
June 13-18	Solution by operators of non homogenous linear differential equations, reduction of order of a D.E
June 20-25	Method of variation of parameters. Method of undetermined coefficients
June 27-30 and July 1-2	Test, Unit-4 ordinary simultaneous D.E, solution of simultaneous D.E, Total D.E
July 4-9	Conditions for $Pdx+Qdy+Rdz=0$ to be exact, General method of solving $Pdx+Qdy+Rdz = 0$ by taking one variable constant. Method of auxiliary equations
July 11-16	Revision
July 18-19	Revision

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LESSON PLAN (April- July 2022)

Name of Teacher – Dr. Neha Mittal


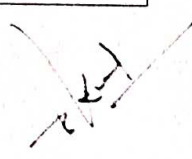
Subject: - Mathematics

Paper – Sequence and Series

Class –B.A/B.Sc. II

Session:- 2021-2022 (Even Sem.)

Weeks With Months	Contents
April 1,2 and 4- 9	Unit-1 Boundedness of the set of real numbers, least upper bound and greatest lower bound of a set, neighbourhoods
April 11- 16	Interior points, isolated points, limit point, open set, closed set
April 18-23	Interior of a set, closure of a set in real numbers and their properties
April 25-30	Bolzano weierstrass theorem, open cover
May 2-7	Compact set and Heine-Borel theorem
May 9-14	Assignment-1, Unit-2 Real sequence and their convergence, theorems on limits of a sequence, Bounded and monotonic sequence
May 16-21	Cauchy's sequence, Cauchy general principal of convergence, subsequence and subsequential limits
May 23-28	Convergence and divergence of infinite series, comparison test of positive terms infinite series
May 30-31 and June 1-4	Cauchy general principal of convergence, convergence and divergence of geometric series, p-series
June 6-11	Assignment-2, Unit-3 D'Alembert ratio Test , Rabbe's test, Logarithmic test, De Morgan and Bertrand's Test
June 13-18	Cauchy's nth root test, Gauss test, Cauchy's integral test, Cauchy's condensation test
June 20-25	Test, Unit-4 Alternating Series: Leibnitz test, Absolute and conditional Convergence, Abel's lemma, Abel's test
June 27-30 and July 1-2	Dirichlet's test, insertion and removal of parenthesis, rearrangement, Dirichlet's theorem
July 4-9	Riemann's rearrangement theorem, Pringsheim's theorem, Multiplication of series,
July 11-16	Cauchy product of series, Convergence and absolute convergence of infinite products, Revision
July 18-19	Revision



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LESSON PLAN (April- July 2022)

Name of Teacher – Dr. Neha Mittal

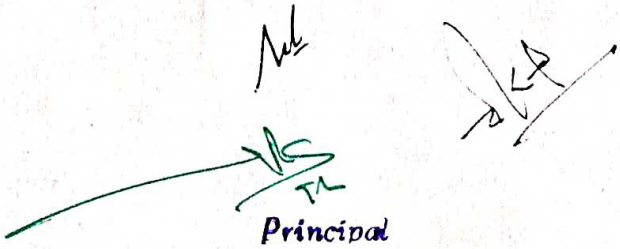
Subject: - Mathematics

Paper – Real and Complex Analysis

Class –B.A/B.Sc. III

Session:- 2021-2022 (Even Sem.)

Weeks With Months	Contents
April 1,2 and 4- 9	Unit-1 Introduction and Jacobians
April 11- 16	Beta and Gamma Function
April 18-23	Beta and Gamma Function
April 25-30	Double and Triple Integrals
May 2-7	Dirichlet integral, Change of order of integration
May 9-14	Assignment-1, Unit-2 Fourier Series, Fourier expansion of piecewise monotonic functions, Fourier coefficients
May 16-21	Dirichlet Conditions, Parseval's identity for Fourier series, Fourier series for even and odd functions
May 23-28	Half Range series, Change of intervals
May 30-31 and June 1-4	Assignment-2, Unit-3 Extended complex plane, Steriographic projection of complex numbers
June 6-11	Continuity and Differentiability of complex numbers, Analytic functions
June 13-18	Cauchy Riemann equations, Harmonic functions
June 20-25	Test, Unit-4 Mappings by elementary functions: Translation, Rotation
June 27-30 and July 1-2	Magnification and inversion, Conformal mappings, Mobius Transformation
July 4-9	Fixed point, cross ratio, inverse point and critical mapping
July 11-16	Revision
July 18-19	Revision


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