NOTICE

All the Teaching Staff Members are requested to submit their lesson plans for even semester 2023-24 latest by 31 January 2024 up to 2:00 pm so that it can be uploaded at portal. It may b treated as most urgent.

Principal,
Principal ge for Women
Govt. College For Women
Badhra (Ch. Dadri)

पाठ योजना

कक्षा : प्रथम वर्ष (द्वितीय सत्र)अनुवाद

सेमेस्टर –   (फरवरी–मई 2023-2024)

नाम : कमलेश ,सहायक प्रोफेसर, हिन्दी

क्रम सं.	महीना	प्रकरण	शैक्षणिक गतिविधियाॅं	टिप्पणी
1	फरवरी सप्ताह प्रथम	अनुवाद का अर्थ, परिभाषा, स्वरूप अनुवाद की विशेषताएँ अनुवाद की प्रकृति एवं प्रक्रिया		
2	सप्ताह द्वितीय	अनुवाद के प्रकार शब्दानुवाद, भावानुवाद, छायावाद, सारानुवाद	---	
3	सप्ताह तृतीय	अनुवाद के सिद्धांत अनुवाद का महत्व	---	
4	सप्ताह चतुर्थ	पद्यानुवाद अथवा काव्यानुवाद से क्या अभिप्राय है? पद्यानुवाद (काव्यानुवाद)की विशेषताएँ पद्यानुवाद (काव्यानुवाद) की समस्याएं	---	

पाठ योजना

5	मार्च सप्ताह प्रथम	गद्यानुवाद(कथानुवाद) से क्या तात्पर्य है? गद्यानुवाद की समस्याए विज्ञान संबंधी अनुवाद		
6	सप्ताह द्वितीय	वाणिज्यिक अनुवाद की अवधारणा वाणिज्यिक अनुवाद की समस्याएं	असाइनमेंट- 1	
7	सप्ताह तृतीय	वैज्ञानिक शब्दावली का अनुवाद मुहावरों का अनुवाद	टैस्ट- 1	
8	सप्ताह चतुर्थ	होली अवकाश		
9	अप्रैल सप्ताह प्रथम	लोकोक्तियों का अनुवाद भारत में अनुवाद प्रशिक्षण के प्रमुख केंद्र		
10	सप्ताह द्वितीय	बैंको में प्रयुक्त होने वाली पारिभाषिक शब्दावली के अंग्रेजी रूप और हिन्दी रूप		
11	सप्ताह तृतीय	रेल्वे में प्रयुक्त होने वाली पारिभाषिक शब्दावली के अंग्रेजी रूप और हिन्दी रूप	असाइनमेंट - ॥	

पाठ योजना

12	सप्ताह चतुर्थ	कार्यालयों में प्रयुक्त होने वाली पारिभाषिक शब्दावली के अंग्रेजी रूप और हिन्दी रूप , प्रशासन में प्रयुक्त होने वाली पारिभाषिक शब्दावली के अंग्रेजी और हिन्दी रूप	टैस्ट - II	
13	मई सप्ताह प्रथम	पुनरावृति		
14	सप्ताह द्वितीय	पुनरावृति	---	

पाठ योजना

कक्षा : तृतीय **वर्ष** (**छठा सेमेस**॒टर)

सेमेस्टर –   (फरवरी–मई 2023-2024)

नाम : कमलेश,सहायक प्रोफेसर, हिन्दी

Sr. No.	महीना	प्रकरण	शैक्षणिक गतिविधियाॅ	विवरण
1	फरवरी सप्ताह प्रथम	सम्प्रेषण की अवधारणा और महत्व सम्प्रेषण की प्रक्रिया		
2	सप्ताह द्वितीय	सम्प्रेषण के विभिन्न मॉडल अभाषिक सम्प्रेषण	---	
3	सप्ताह तृतीय	मौखिक और लिखित सम्प्रेषण वैयक्तिक, सामाजिक, व्यवसायिक सम्प्रेषण	---	
4	सप्ताह चतुर्थ	भ्रामक सम्प्रेषण और प्रभावी सम्प्रेषण में अन्तर सम्प्रेषण में चुनौतियाँ एवंसंभवनाएं	---	
5	मार्च सप्ताह प्रथम	एकालाप और संलाप संवाद		
6	सप्ताह द्वितीय	सामुहिकचर्चा	असाइनमेंट- 1	

पाठ योजना

7	सप्ताह तृतीय	मशीनी माध्यम : ई-मेल, सोशल मीडिया, एस . एम . एस .	टैस्ट- 1	
8	सप्ताह चतुर्थ	होली अवकाश		
9	अप्रैल सप्ताह प्रथम	इंटरनेट, फीडबैक, मौखिक और लिखित सम्प्रेषण		
10	सप्ताह द्वितीय	बोलना : भाषण, वॉयस ओवर, वाद-विवाद लिखना : पत्र लेखन, अनुच्छेद लेखन, पल्लवन, संक्षेपण		
11	सप्ताह तृतीय	पढ़ना : कविता पठन, नाट्यांश पठन, समाचार वाचन समझना : विवरण, वर्णन, विश्लेषण, व्याख्या	असाइनमेंट - ‖	
12	सप्ताह चतुर्थ	पुनरावृति	टैस्ट - II	
13	मई सप्ताह प्रथम	पुनरावृति		
14	सप्ताह द्वितीय	पुनरावृति	---	

Lesson plan-even semester

Class: Bcom

Semester –   (Februrary–May 2023-2024)

Name of Teacher: Manisha

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Company: Meaning, Characteristics, Advantage and Disadvantage of Incorporation,		
2	Week 2	Lifting of Corporate Veil: Private Company: Meaning, Characteristics, Advantages & Disadvantages of Private Company,	---	
3	Week 3	Privileges of Private Company & Conversion of Pvt. Co. into Pablie Company & Vice- Versa;	---	
4	Week 4	Types of Companies	---	
5	March Week 1	Promotion and Incorporation of Companies		
6	Week 2	Memorandum of Association; Articles of Association,	Assignment l	
7	Week 3	Shure Capital, Members & Shareholders: Borrowing Powers.	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Directors: Appointment &Powers		

Lesson plan-even semester

10	Week 2	Legal Position of Directors; Shares and Stock;		
11	Week 3	Share Certificate; Share Warrant.	Assignment ‖	
12	Week 4	Company Meetings: Meanings, Importance	Test- II	
13	May Week 1	Types, Quorum &Voting Powers, Resolution & Minutes,		
14	Week 2	Case Studies Regarding Company Meetings.	---	

पाठ योजना

कक्षा   द्वितीय **वर्ष(चतुर्थ सत्र)**

सेमेस्टर –   (फरवरी–मई 2023-2024)

नाम : कमलेश, सहायक प्रोफेसर, हिन्दी

Sr. No.	महीना	प्रकरण	शैक्षणिक गतिविधियाॅ	विवरण
1	फरवरी सप्ताह प्रथम	जैनेन्द्र कुमार कासाहित्यिक परिचय त्यागपत्र उपन्यास की व्याख्या		
2	सप्ताह द्वितीय	त्यागपत्र उपन्यास में चित्रितसमस्याएँ त्यागपत्र उपन्यास कीसमीक्षा त्यागपत्र उपन्यास का उद्देश्य मृणाल व प्रमोद की चारित्रिक विशेषताएँ वस्तुनिष्ठ प्रश्न उत्तर	---	
3	सप्ताह तृतीय	प्रेमचन्द का साहित्यिक परिचय नमक कादारोगा कहानी की व्याख्या तत्वों के आधार पर नमक का दारोगा कहानी की तात्विक समीक्षा	---	

पाठ योजना

4	सप्ताह चतुर्थ	वंशीधर व पंडित अलोपीदीन का चरित्र चित्रण वस्तुनिष्ठ प्रश्न उत्तर जयशंकर प्रसाद का साहित्यिक परिचय आकाशदीप कहानी की व्याख्या	---	
5	मार्च सप्ताह प्रथम	आकाशदीप कहानी का उद्देश्य आकाशदीप की समीक्षा चंपा व बुद्धगुप्त का चरित्र चित्रण वस्तुनिष्ठ प्रश्न उत्तर		
6	सप्ताह द्वितीय	यशपाल का साहित्यक परिचय परदा कहानी की व्याख्या परदा कहानी की समीक्षा कहानी का उद्देश्य बबर अली खाना का चरित्रचित्रण	असाइनमेंट- 1	

पाठ योजना

7	सप्ताह तृतीय	पीरबक्श का चरित्र चित्रण वस्तुनिष्ठ प्रश्न उत्तर ऊषा प्रियवंदा का साहित्यिक जीवन परिचय वापसी कहानी की व्याख्या	टैस्ट- 1	
8	सप्ताह चतुर्थ	होली अवकाश		
9	अप्रैल सप्ताह प्रथम	वापसी कहानी का उद्देश्य कहानी की तात्विक समीक्षा वापसी कहानी की विशेषांताएं गजाधर बाबु का चरित्र चित्रण		
10	सप्ताह द्वितीय	वापसी कहानी के वस्तुनिष्ठ प्रश्न उत्तर आचार्य रामचन्द्र शुक्ल का साहित्यिक परिचय लोभ और प्रीति निबंध की व्याख्या		
11	सप्ताह तृतीय	लोभ और प्रीति निबंध का उद्देश्य निबंध के अनुसार लोभ व प्रीति के विविध रूप निबंध की भाषा शैली वस्तुनिष्ठ प्रश्न-उत्तर	असाइनमेंट - ||	

12	सप्ताह चतुर्थ	हजारी प्रसाद द्विवेदी का साहित्यिक जीवन परिचय कुटज निबंध की व्याख्या निबंध की समीक्षा निबंध की भाषा शैली वस्तुनिष्ठ प्रश्न-उत्तर	टैस्ट - II	
13	मई सप्ताह प्रथम	महादेवी वर्मा का साहित्यिक जीवन परिचय युद्ध और नारी निबंध की व्याख्या निबंध की समीक्षा महादेवी वर्मा के स्त्री चिंतन की विवेचना वस्तुनिष्ठ प्रश्न उत्तर		
14	सप्ताह द्वितीय	प्रभा खेतान का साहित्यिक परिचय आधी दुनिया का श्रम और भूमंडलीकरण की व्याख्या निबंध की समीक्षा वस्तुनिष्ठ प्रश्न उत्तर	---	

Lesson plan-even semester

Class: BCOM

Semester –   (Februrary–May 2023-2024)

Name of Teacher: Manisha

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Introduction: Basics of communication, Seven C's of effective communication,		
2	Week 2	barriers to communication, .	---	
3	Week 3	ethical context of communication.	---	
4	Week 4	Business Communication at workplace: Letter writing- component,	---	
5	March Week 1	layout and process, E- mail communication,		
6	Week 2	bad news messages, persuasive written communication,	Assignment l	
7	Week 3	, memos, notice, agenda and minutes of meeting.	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Report Writing: Types of business reports,		
10	Week 2	, structure of reports, short reports, long reports,		
11	Week 3	abstracts and summaries, proposals.	Assignment ll	
12	Week 4	Communication Skills: Reading skills, listening skills, note making,	Test- II	

Lesson plan-even semester

13	May Week 1	, persuasive speaking.		
14	Week 2	. Body language, Gestures.	---	

पाठ योजना

कक्षा : प्रथम वर्ष (द्वितीय सत्र)

सेमेस्टर –   (फरवरी–मई 2023-2024)

नाम : कमलेश,सहायक प्रोफेसर, हिन्दी

क्र० सं .	महीना	प्रकरण	शैक्षणिक गतिविधियाॅ	विवरण
1	फरवरी सप्ताह प्रथम	कबीरदास का जीवन परिचय व साहित्यिक विशेषताएँ कबीरदास केदोहों की व्याख्या कबीरदास की भक्ति भावना		
2	सप्ताह द्वितीय	कबीर दास की सामाजिक चेतना कबीर दास की दार्शनिक चेतना कबीरदास का रहस्यवाद सुरदास का जीवन परिचय व साहित्यिक विशेषताएँ सुरदासकेपदोंकी व्याख्या(राग सारंग, रागसोरठ, राग बिलावल	---	
3	सप्ताह तृतीय	राग - रामकली, राग सारंग, पदोंकी व्याख्या सुरदास का श्रृंगार वर्णन सुरदास का वात्सल्य वर्णन सुरदास की भक्ति भावना सुरदास की भाषा - शैली	---	

पाठ योजना

4	सप्ताह चतुर्थ	भ्रमर गीत की विशेषताएँ कबीरदास व सुरदास केलघु उत्तरात्मक प्रश्न तुलसी दास का जीवन परिचय व साहित्यिक विशेषताएँ बालकांड की संप्रसंग व्याख्या उत्तरकांड की व्याख्या	---	
5	मार्च सप्ताह प्रथम	तुलसीदास की भक्ति भावना तुलसीदास की दार्शनिक चेतना तुलसी दास की समन्वय भावना तुलसीदास के साहित्य की प्रासंगिकता वलघु उत्तरात्मक प्रश्न उत्तर		
6	सप्ताह द्वितीय	मीराबाई का जीवन परिचय व साहित्यिक विशेषताएँ मीराबाई के पदों की व्याख्या मीराबाई की भक्ति भावना	असाइनमेंट- 1	

पाठ योजना

7	सप्ताह तृतीय	मीराबाई की विरह वेदना मीराबाई की प्रेम साधना मीराबाई के वस्तुनिष्ठ प्रश्नउत्तर रसखान का जीवन परिचय व साहित्यिक विशेषताएं	टैस्ट- 1	
8	सप्ताह चतुर्थ	होली अवकाश		
9	अप्रैल सप्ताह प्रथम	रसखान के पदों की व्याख्या रसखान की भक्ति भावना रसखान के काव्य में प्रेम तत्व रसखान का काव्य सौष्ठव वस्तुनिष्ठ प्रश्न - उत्तर बिहारी का जीवन परिचय व साहित्यिक विशेषताएं		
10	सप्ताह द्वितीय	बिहारी केदोहों की व्याख्या बिहारी का श्रृंगार वर्णन भक्ति एवं नीति बिहारी कीबहुज्ञता वस्तुनिष्ठ प्रश्न उत्तर भूषण का जीवन परिचय व साहित्यिक विशेषताएं		

11	सप्ताह तृतीय	भूषणकी व्याख्या राष्ट्रीय भावना, वीर भावना वस्तुनिष्ठ प्रश्न उत्तर	असाइनमेंट - II	
12	सप्ताह चतुर्थ	घनानंद का जीवन परिचय व साहित्यिक विशेषताएं छंदो की संप्रसंग व्याख्या प्रेमभावना	टैस्ट - II	
13	मई सप्ताह प्रथम	घनानंद की विरह वेदना घनानंद की भाषा गैली वस्तुनिष्ठ प्रश्न- उतर		
14	सप्ताह द्वितीय	पुनरावृति	---	

Lesson plan-even semester

Class: Bcom

Semester –   (Februrary–May 2023-2024)

Name of Teacher: Manisha

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Dissolution of Partnership firm-Insolvency of Partners (including Garner v/s Murrey Rule),		
2	Week 2	Amalgamation and Sale of Partnership firms,	---	
3	Week 3	Gradual Realization and Piecemeal Distribution.	---	
4	Week 4	Hire Purchase System and Installment Payment Systems	---	
5	March Week 1	Accounting for Hire Purchase Transactions, Journal entries and ledger accounts in the books of Hire Vendors and		
6	Week 2	and Hire purchaser for large value items including default and repossession, stock and debtors system	Assignment l	
7	Week 3	Joint Ventures: Joint Venture: Accounting procedures: Joint Bank Acce Maintained by Co-venturer of (a) all transactions (b) only his own transactions, joint venture account.	Test I	

Lesson plan-even semester

8	Week 4	Holi Vacation		
9	April Week 1	Royalty Account: Meaning. Types of Royalties, Basis of Royalty, Accounting Entries		
10	Week 2	Branch Account: Meaning. Methods- Debtor System, Income Statement System, Stock and Debtor,		
11	Week 3	Final Account System, Pros and Cons of Branch Accounting, Accounting Treatment.	Assignment ‖	
12	Week 4	Insolvency Accounts for Non Corporate Entities: Defining Insolvency,	Test- II	
13	May Week 1	, Statement of Affairs as on date of order,		
14	Week 2	Difference between Balance Sheet Statement of Affairs and Accounting Treatment	---	

Lesson plan-even semester

Class: M.sc Previous

Semester – 2nd semester   (Februrary–May 2023-2024)

Subject -Agricultural Geography

Name of Teacher: Ms. Rinku, assistant Professor in Geography

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Introduction to the Agricultural Geography		
2	Week 2	Agriculture Geography -Definitions,Nature and scope, Approaches of Agriculture Geography	---	
3	Week 3	Determinants of Agriculture - Physical, Cultural	---	
4	Week 4	Determinants of Agriculture: Technological	---	
5	March Week 1	Origin and Dispersal of agriculture	Group Discussion	
6	Week 2	Concept of land capability classification,Land use Survey; Classification (India and British),Land use and cropping pattern, intensity of cropping,	Test 1	
7	Week 3	Degree of commercialization, diversification and specialization, agriculture productivity and efficiency,crop combination and diversification		
8	Week 4	Holi Vacation		

Lesson plan-even semester

9	April Week 1	Von Thunen model of Agriculture land use, Agriculture regionalisation, Whittlesey'agricultural system, agriculture typology of kostrowiki	Test 2	
10	Week 2	Agro-climatic region of India, agricultural region of India		
11	Week 3	Regional imbalances in agricultural productivity in India, Green revolution	Assignment 1	
12	Week 4	Neo-liberalization and agriculture in India, food security, food security in India, contemporary issues: food , nutrition, hunger, food security, drought and food security		
13	May Week 1	Food aid programs, environmental degradation, urban agriculture, contract farming, agri Business		
14	Week 2	Sustainable Agricultural Development, agriculture and climate change: impact and adaptation, role of irrigation	Test 3	

Lesson plan-even semester

Class: B.Sc. 1st year (2nd sem.)

Semester – (Februrary–May 2023-2024)

Name of Teacher: Sh. Anand Kumar

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Degree of freedom, constraints and its classifications Generalised coordinates,		
2	Week 2	Hamilton's principle and derivation of Lagrange's from Hamilton's equation.	---	
3	Week 3	Simple & compound Pendulum, Atwood Machine,principle of virtual work, D'Alembert principle, Lagrange's equations of D'Alembert	---	
4	Week 4	Reference systems, inertial frames, Gallilean invariance and conservation laws Newtonian relativity principle, Michelson-Morley experiment and its outcome	---	
5	March Week 1	Special Theory of Relativity: Constancy of speed of light. Postulates of Special Theory of Relativity		
6	Week 2	Lorentz transformation, length contraction and time dilation Relativistic velocity addition theorem,	Assignment I	
7	Week 3	variation of mass with velocity and mass energy equivalenc massless particles	Test I	

Lesson plan-even semester

8	Week 4	Holi Vacation		
9	April Week 1	Relativistic Doppler effect relativistic kinematics, transformation of energy and momentum		
10	Week 2	Elasticity: Hooke's law Stress strain diagram Elastic moduli Relation between elastic constants		
11	Week 3	Ratio-Expression for Poisson's ratio in terms of elastic constants Work done in stretching and work done in twisting a wire - Twisting couple on a cylinder	Assignment II	
12	Week 4	Determination of Rigidity modulus by static torsion – Torsional pendulum Determination of Rigidity modulu	Test- II	
13	May Week 1	moment of inertia - q, η and a by Searles method.		
14	Week 2	Revision and problems	---	

Lesson plan-even semester

Class: B.Sc. 1st year (2nd sem.)

Semester – (Februrary–May 2023-2024)

Name of Teacher: Sh. Anand Kumar

Subject: Waves and Electrodynamics

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Superposition of Two Collinear Harmonic oscillations: Linearity and Superposition Principle. Oscillations having equal frequencies and (2) Oscillations having different frequencies (Beats).		
2	Week 2	Superposition of Two Perpendicular Harmonic Oscillations: Graphical and Analytical MethodsLissajous Figures with equal an unequal frequency and their uses.	---	
3	Week 3	Wave Equation, Solution of wave equation, Particle and Wave Velocities, Intensity of Wave	---	
4	Week 4	Superposition Principle Group velocity, Phase velocity, Definition and Properties of wave front, Huygens Principle	---	
5	March Week 1	Longitudinal Waves: Velocity of Longitudinal Waves in a Fluid in a Pipe, Newton's Formula for Velocity of Sound Laplace's Correction, Reflections and transmission of sound waves at a boundary.		

Lesson plan-even semester

6	Week 2	The string as a force oscillator, Velocity of Transverse Vibrations of Stretched Strings	Assignment I	
7	Week 3	Transverse waves on a string, Travelling and standing waves on a string	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Normal Modes of a string, Reflections and transmission of Energy.		
10	Week 2	Reflections and transmission of waves on a string at a boundary		
11	Week 3	Faraday's laws of electromagnetic induction, Lenz's law, self and mutual inductance, L of single coil, M of two coils Energy stored in magnetic field. Equation of continuity of current, Displacement current	Assignment II	
12	Week 4	Maxwell's equations in vacuum and medium, Poynting vector,	Test- II	
13	May Week 1	energy density in electromagnetic field, electromagnetic wave propagation through vacuum and isotropic dielectric medium.		
14	Week 2	REVISION	---	

Lesson plan-even semester

Class: B.Sc. FINAL YEAR (6TH sem.)

Semester – (Februrary–May 2023-2024)

Name of Teacher: Sh. Anand Kumar

Subject: ATOMIC MOLECULAR AND LASER PHYSICS

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Vector atom model, quantum numbers associated with vector atom mode penetrating and non penetrating orbits (qualitiative description), spectral lines in different series of ailkali spectra,		
2	Week 2	spin orbit interaction and doublet term seperation LS or Russel Saunder Coupling	---	
3	Week 3	jj coupling (expressions for inteaction energies for LS and jj coupling required).	---	
4	Week 4	Zeeman effect (normal and Anormalous Zeeman pattern of D 1 and D2 lines of Na-atom	---	
5	March Week 1	Paschen, Back effect of a single valence electron system. Weak field Strak effect of Hydrogen atom. Diseete set of electronic energies of molecules.		
6	Week 2	quantisation of Vibrational and ratiational energies Raman effect (Quantitative description) Stoke's and anti Stoke's lines	Assignment l	
7	Week 3	Main features of a laser Directionality, high intensity, high degree of coherence,	Test I	

Lesson plan-even semester

8	Week 4	Holi Vacation		
9	April Week 1	spatial and temporal coherence, Einstein's coefficients and possibility of amplification,		
10	Week 2	momentum transfer, life time of a level, kinetics of optical obsorption.		
11	Week 3	Threshold condition for laser emission, Laser pumping, and).	Assignment II	
12	Week 4	He-Ne lase RUBY laser (Principle, Construction and Working	Test- II	
13	May Week 1	Applications of laser in the field of medicine and industr		
14	Week 2	REVISION	---	

Lesson plan-even semester

Paper - Mechanics

Class: B.Sc+ BA IInd Year

Semester –IV (Februrary–May 2024 (2023-2024))

Name of Teacher: Dr. Ritu

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Composition and Resolution of forces.		
2	Week 2	Resultant of two parallel forces	---	
3	Week 3	and their applications.	---	
4	Week 4	Moments and couples.	---	
5	March Week 1	Analytical Condition of equilibrium of Coplaner force.		
6	Week 2	velocity and acceleration.	Assignment I	
7	Week 3	Relative velocity and acc.	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Simple Harmonic Motion. Elastic Strings.		
10	Week 2	Newton's laws of motion		
11	Week 3	Work, power and Energy	Assignment II	
12	Week 4	Revision.	Test- II	
13	May Week 1	Examination -		
14	Week 2		---	

Lesson plan-even semester

Paper – Groups & Rings

Class: B.Sc + BA IIrd Year

Semester – IV (Februrary–May 2024 (2023-2024)

Name of Teacher: Ds. Rity

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Definition of groups, Subgroups Cyclic groups, Cosets.		
2	Week 2	Index of Subgroup, Coset Decomposition	---	
3	Week 3	Langrange's theorem. Normal Subgroup.	---	
4	Week 4	Quotient group, Homomorphism Isomorphism.	---	
5	March Week 1	Automorphism of cyclic groups Permutations group, Cayley's theorem.		
6	Week 2	Rings, Subrings, Integral Domains and Fields.	Assignment I	
7	Week 3	Characteristics of ring. Ideals	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Quotient Rings, Ring Homomorphism.		
10	Week 2	Euclidean rings, polynomial rings		
11	Week 3	The Eisenstein's Criterion	Assignment II	
12	Week 4	UFD. & Revision	Test- II	
13	May Week 1	Examinations.		
14	Week 2		---	

Lesson plan-even semester

Teaching Plan – Project Report based on Physical Landscape (Practical)

Class: **M. Sc. Geography (2nd Semester)**

Semester – **(Februrary–May 2023-2024)**

Name of Teacher: **Dr. Mukesh Kumar**

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Basic Information about the Project of Physical landscape		
2	Week 2	Preparation for field survey on the Physical landscape	---	
3	Week 3	Physical landscape survey will be conducted for project report	---	
4	Week 4	After collecting the data from the field survey, data will be analysed	---	
5	March Week 1	After the analyzing the data, Project report will be start		
6	Week 2	Chapter one will be start in this week	Assignment l	
7	Week 3	Chapter one will be completed	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Chapter two will be completed		
10	Week 2	Chapter three will be completed		
11	Week 3	Chapter four will be completed	Assignment ll	
12	Week 4	Chapter five will be completed	Test- II	
13	May Week 1	Full project report will be checked and will be finalized for the final completion		
14	Week 2	Report will be submitted and practical exam will be conducted in this week	---	

Lesson plan-even semester

Lesson plan – even semester Geography / IT For Spatial Sciences Theory

Class: M.SC – I

Semester – (February – May 2023-2024) Second

Name of teacher: SANJAY KUMAR

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1.	February Week 1	Discuss the syllabus and Cartography, Geodesy, Photogrammetry		
2.	Week 2	Remote, Sensing, GIS, GPS		
3.	Week 3	Map As Decision Tool, Conventional Symbols And Sing Survey Instruments, Traversing And Triangulation Electronic (Total Station)		
4.	Week 4	Aerial And Satellite Based Survey Techniques (Photogrammetry, Radar, Lidar)		
5.	March Week 1	Use of Colour, Qualitative Mapping Technique, Choroschematic And Chorochromatic,		
6.	Week 2	Quantitative Mapping	Assignment – I	

		Techniques, Choropleth, Isopleth		
7.	Week 3	Physical Surveying, GPS, Total Station, DGPS, GPR	Test – I	
8.	Week 4	Holi Vacation		
9.	April Week 1	Software- Definition and Types, operating systems		
10.	Week 2	Application Programmes, Information Technology Introduction, Application of IT in Cartography		
11.	Week 3	Open source software for GIS – QGIS, Google earth google earth engine,	Assignment – II	
12.	Week 4	Geo data visualization and analysis -Two, Three, Fourth Dimension viewing, visualization by haper map, virtual images and WEB, GIS	Test – II	
13.	May Week 1	Spatial data base- survey of India, NRSC, BHUVAN, NATMO, GEO Logical survey of India census of India national information centre cadastral		

		maps: open street map for eign sources of data USGS earth explorer		
14.	Week 2	Earth data search: Physical surveying GPS and total sation attribute database statistical abstracts, national information centre		

Teaching Plan –

Class: B.A 1st   sem- 2

 Semester –   (Februrary–May 2023)

Name of Teacher: USHA RANI

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Nature and Scope of Economic Geography; , Relation of Economic Geography		
2	Week 2	Economic Geography with other Branches of Social Sciences;	---test	
3	Week 3	Location and spatial Organization of Economic Activities.	---	
4	Week 4	Classification of Economic Activity: Primary, Secondary and Tertiary;	---test	
5	March Week 1	Models in Geography: Von-Thunen's Model of Agricultural		
6	Week 2	Holi Vacation		
7	Week 3	Location and Edward Ullman's Model of Spatial Interaction		
8	Week 4	World Natural Resources: its Types, Utilization and Conservation	Assignment 1	
9	Week 5	Spatial Distribution of Food Crops (Rice and Wheat) with Special Reference to India.	Class Test 1	
10	April Week 1	Spatial Distribution of Commercial Crops (Cotton and Sugarcane) with Special Reference to India.		

11	Week 2	Trade and Transport:		
12	Week 3	Main Features of International Trade;	test	
13	Week 4	Transport Cost	Assignment 2	
14	May Week 1	Transport Accessibility and Connectivity;	Class Test 2	
15	Week 2	Major Oceanic Routes of the World	---test	
16	Week 3	revision		
17	Week 4	revision		
18	Week 5	revision		

पाठ योजना

कक्षा : प्रथम वर्ष (द्वितीय सत्र)हिन्दी भाषा और संप्रेषण

सेमेस्टर –   (फरवरी–मई 2023-2024)

नाम : मीना , सहायक प्रोफेसर, हिन्दी

क्रम सं.	महीना	प्रकरण	शैक्षणिक गतिविधियाॅ	टिप्पणी
1	फरवरी सप्ताह प्रथम	भाषा की परिभाषा भाषा की विशेषताएँ भाषा के विविध रुप		
2	सप्ताह द्वितीय	क्रिया , विभक्त, सर्वनाम, विशेषण, अव्यय	---	
3	सप्ताह तृतीय	पर्यायवाची शब्द, विलोम शब्द, वाक्य शुद्धि, उपसर्ग, प्रत्यय	---	
4	सप्ताह चतुर्थ	स्वर की परिभाषा स्वर के प्रकार व्यंजन की परिभाषा	---	
5	मार्च सप्ताह प्रथम	व्यंजन के प्रकार वर्णों का उच्चारण स्थान		
6	सप्ताह द्वितीय	संधि की परिभाषा और भेद	असाइनमेंट- 1	
7	सप्ताह तृतीय	समास की परिभाषा और भेद	टैस्ट- 1	
8	सप्ताह चतुर्थ	होली अवकाश		

पाठ योजना

9	अप्रैल सप्ताह प्रथम	अलंकार की परिभाषा अलंकार के भेद		
10	सप्ताह द्वितीय	मुहावरे और लोकोक्तियाँ संप्रेषण का अर्थ, परिभाषा,एंव प्रक्रिया		
11	सप्ताह तृतीय	संप्रेषण के चरण वाक्य की परिभाषा वाक्य के अंग रचना के आधार पर वाक्य के प्रकार	असाइनमेंट - ॥	
12	सप्ताह चतुर्थ	अर्थ के आधार पर वाक्य के प्रकार वाक्य रुपांतरण क्या हैं वाक्य रुपांतरण के नियम भावार्थ, व्याख्या, आशय	टैस्ट - II	
13	मई सप्ताह प्रथम	पेपर		
14	सप्ताह द्वितीय		---	

पाठ योजना

कक्षा : प्रथम वर्ष (द्वितीय सत्र)अनुवाद

सेमेस्टर –   (फरवरी–मई 2023-2024)

नाम : मीना , सहायक प्रोफेसर, हिन्दी

क्रम सं.	महीना	प्रकरण	शैक्षणिक गतिविधियाॅं	टिप्पणी
1	फरवरी सप्ताह प्रथम	अनुवाद का अर्थ, परिभाषा, स्वरूप अनुवाद की विशेषताएँ अनुवाद की प्रकृति एवं प्रक्रिया		
2	सप्ताह द्वितीय	अनुवाद के प्रकार शब्दानुवाद, भावानुवाद, छायावाद, सारानुवाद	---	
3	सप्ताह तृतीय	अनुवाद के सिद्धांत अनुवाद का महत्व	---	
4	सप्ताह चतुर्थ	पद्यानुवाद अथवा काव्यानुवाद से क्या अभिप्राय है? पद्यानुवाद (काव्यानुवाद)की विशेषताएँ पद्यानुवाद (काव्यानुवाद) की समस्याएं	---	

5	मार्च सप्ताह प्रथम	गद्यानुवाद(कथानुवाद) से क्या तात्पर्य है? गद्यानुवाद की समस्याए विज्ञान संबंधी अनुवाद		
6	सप्ताह द्वितीय	वाणिज्यिक अनुवाद की अवधारणा वाणिज्यिक अनुवाद की समस्याएं	असाइनमेंट- 1	
7	सप्ताह तृतीय	वैज्ञानिक शब्दावली का अनुवाद मुहावरों का अनुवाद	टैस्ट- 1	
8	सप्ताह चतुर्थ	होली अवकाश		
9	अप्रैल सप्ताह प्रथम	लोकोक्तियों का अनुवाद भारत में अनुवाद प्रशिक्षण के प्रमुख केंद्र		
10	सप्ताह द्वितीय	बैंको में प्रयुक्त होने वाली पारिभाषिक शब्दावली के अंग्रेजी रूप और हिन्दी रूप,प्रशासन में प्रयुक्त होने वाली पारिभाषिक शब्दावली के अंग्रेजी रूप और हिन्दी रूप		

पाठ योजना

11	सप्ताह तृतीय	रेल्वे में प्रयुक्त होने वाली पारिभाषिक शब्दावली के अंग्रेजी रूप और हिन्दी रूप	असाइनमेंट - ॥	
12	सप्ताह चतुर्थ	कार्यालयों में प्रयुक्त होने वाली पारिभाषिक शब्दावली के अंग्रेजी रूप और हिन्दी रूप	टैस्ट - II	
13	मई सप्ताह प्रथम	पेपर		
14	सप्ताह द्वितीय		---	

पाठ योजना

कक्षा : प्रथम वर्ष (द्वितीय सत्र)मध्यकालीन हिन्दी कविता

सेमेस्टर –   (फरवरी–मई 2023-2024)

नाम : मीना , सहायक प्रोफेसर, हिन्दी

क्रम सं.	महीना	प्रकरण	शैक्षणिक गतिविधियाॅ	टिप्पणी
1	फरवरी सप्ताह प्रथम	कबीरदास का जीवन परिचय व साहित्यिक विशेषताएँ कबीरदास के दोहों की व्याख्या		
2	सप्ताह द्वितीय	कबीरदास की भक्ति भावना कबीरदास का रहस्यवाद कबीरदास की सामाजिक चेतना कबीरदास की दार्शनिक चेतना सूरदास का जीवन परिचय व साहित्यिक विशेषताएँ	---	
3	सप्ताह तृतीय	सूरदास के पदों की व्याख्या सूरदास की भक्ति भावना सूरदास का श्रृंगार वर्णन सूरदास का वात्सल्य वर्णन भ्रमरगीत की विशेषताएँ सूरदास की भाषा शैली	---	

4	सप्ताह चतुर्थ	कबीरदास व सूरदास के लघूत्तरात्मक प्रश्न-उत्तर तुलसीदास का जीवन परिचय व साहित्यिक विशेषताएँ बालकांड की संप्रसंग व्याख्या उत्तरकांड की व्याख्या तुलसीदास की भक्ति भावना	---	
5	मार्च सप्ताह प्रथम	तुलसीदास की समन्वय भावना तुलसीदास की दार्शनिक चेतना तुलसीदास के साहित्य की प्रासंगिकता लघूत्तरात्मक प्रश्न-उत्तर मीराबाई का जीवन परिचय व साहित्यिक विशेषताएँ		
6	सप्ताह द्वितीय	मीराबाई के पदों की व्याख्या मीराबाई की भक्ति भावना मीराबाई की प्रेम साधना मीराबाई की विरह वेदना	असाइनमेंट- 1	

पाठ योजना

7	सप्ताह तृतीय	लघूत्तरात्मक प्रश्न-उत्तर		
		रसखान का जीवन परिचय	टैस्ट- 1	
		रसखान के पदों की संप्रसंग व्याख्या		
		रसखान की भक्ति भावना		
		रसखान का काव्य सौष्ठव		
8	सप्ताह चतुर्थ	होली अवकाश		
9	अप्रैल सप्ताह प्रथम	रसखान की भाषा शैली		
		रसखान के काव्य में प्रेम तत्व		
		लघूत्तरात्मक प्रश्न-उत्तर		
		बिहारी का जीवन परिचय व साहित्यिक विशेषताएँ		
		बिहारी के दोहों की व्याख्या		
		बिहारी का श्रृंगार वर्णन		
10	सप्ताह द्वितीय	बिहारी की भाषा शैली		
		बिहारी की भक्ति एंव नीति		
		बिहारी की बहुज्ञता		
		लघूत्तरात्मक प्रश्न-उत्तर		
		भूषण का जीवन परिचय व साहित्यिक विशेषताएँ		

पाठ योजना

11	सप्ताह तृतीय	शिवराज भूषण की संप्रसंग व्याख्या भूषण की राष्ट्रीय भावना भूषण की वीर भावना भूषण की भाषा शैली	असाइनमेंट - ॥	
12	सप्ताह चतुर्थ	लघूत्तरात्मक प्रश्न-उत्तर घनानंद का जीवन परिचय घनानंद के छंद की संप्रसंग व्याख्या घनानंद की प्रेम भावना घनानंद की विरह वेदना	टैस्ट - II	
13	मई सप्ताह प्रथम	पेपर		
14	सप्ताह द्वितीय		---	

Lesson plan-even semester

Class: B.A. 1st History

Semester – 2nd   (Februrary–May 2023-2024)

Name of Teacher: Anita

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Rise and Growth of Guptas		
2	Week 2	Rise and Growth of Guptas	---	
3	Week 3	Harsh and his Times	---	
4	Week 4	Harsh and his Times	---	
5	March Week 1	South India		
6	Week 2	Towards the early medieval : Change in Society, Polity and Economy	Assignment l	
7	Week 3	Rashtrakuta Pala and Pratihara dynasty	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Emergence of Rajputs		
10	Week 2	Invasions of Arabs on Sindh		
11	Week 3	Invasions of Arabs on Sindh	Assignment ll	
12	Week 4	Invasions of Mahmood Ghaznavi and Muhammad Gauri	Test- II	
13	May Week 1	Invasions of Mahmood Ghaznavi and Muhammad Gauri		
14	Week 2	Revision	---	

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Class:BA/B.ScI

Semester:II   (February–May 2023-24)

Subject: Number Theory and Trigonometry

Name of Teacher: Kamal

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Divisibility, GCD and LCM		
2	Week 2	Prime Numbers, Fundamental Theorem of Arithmetic's	---	
3	Week 3	Congruence, Linear Congruence, Fermat's Theorem	---	
4	Week 4	Willson's Theorem and Its Converse, Residue, Chinese Remainder's theorem	---	
5	March Week 1	Complete Residue System (CRS) and Residue System of Module (m), Euler's Function		
6	Week 2	Euler's Function Properties, Euler's Generalizations of Fermat's Theorem,	Assignment I	
7	Week 3	Gauss's lemma, Gauss's reciprocity law, Greatest integers Functions, Divisor Function, Sigma Function	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	De-Moivre's Theorem and its application		
10	Week 2	Expansions of Trigonometry Functions, Direct Circular Function		

Govt College For Women ,Badhra

11	Week 3	Hyperbolic Function and their properties	Assignment ll	
12	Week 4	Logarithm of a complex quantity, Gregory's series,	Test- II	
13	May Week 1	Summation of Trigonometric Series		
14	Week 2	Revision of De Moivre's Theorem	---	

Lesson plan-even semester

Teaching Plan- 20UCHE202: Chemical Energetics and Functional Group Organic Chemistry -1

20UCHE201: Chemistry of s & p Block Elements And Aromatic Hydrocarbons Alkyl and Aryl Halides

Class: B. Sc. First Year

Semester –Second Semester (Februrary–May 2023-2024)

Name of Teacher: Mrs. Yeshwanti, Assistant Professor of Chemistry

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	- Introduction to Chemistry of s block Elements: Diagonal relationship, Anomalous behaviour of Lithium and Beryllium compared to other elements in the same group - Salient features of hydrides, oxides, halides, hydroxides(methods of preparation excluded) - Behaviour of solution in liquid Ammonia, complex formation tendency of s- block elements - Structure of the following complexes: crown ethers and cryptates of group-1	Group Discussion	

Lesson plan-even semester

2	Week 2	- Introduction of p block elements : Boron family (13th group) - Diborane: preparation, properties and structure (as an example of electron deficient compound and multicenter bonding) - Chemical properties and structure of Borazine - Relative strength of trihalides of Boron as Lewis acids and structure of aluminium (III) chloride	Group Discussion	

Lesson plan-even semester

| 3 | Week 3 | Introduction to Carbon family(14th group) Catenation, Carbides, Fluorocarbons, Silicates(structural aspects) Silicons- general method of preparations, properties and uses Introduction to Nitrogen family (15th group) Oxides: Structure of oxides of nitrogen and phosphorus Oxyacids: Structure and relative acid strength of oxy acids of nitrogen and phosphorus, structure of white, yellow and red phosphorus | --- | |

Lesson plan-even semester

| 4 | Week 4 | Oxygen family(16th group): Oxy acids of sulphur - structure and acidic strength , hydrogen peroxide - properties and uses Halogen family (17th group): Interhalogen compounds (their properties and structures), hydra and oxy acids of chlorine - structure and comparison of acid strength, cationic nature of Iodine Chemistry of Noble gases: Chemistry of xenon, structure and bonding in fluorides oxides and oxyfluorides of xenon | --- | |

Lesson plan-even semester

| 5 | March
Week 1 | • Introduction to Aromatic Hydrocarbons: Preparation (Case Benzene): from phenol, by decarboxylation, from acetylene, from benzene sulphonic acid
• Reactions: (Case benzene): Electrophilic substitution: nitration, halogenation and sulphonation
• Friedel- Craft's reaction (alkylation and acylation) (up to 4 carbons on benzene)
• Side chain oxidation of alkyl benzenes (up to 4 carbons on benzene) | | |

Lesson plan-even semester

| 6 | Week 2 | • Introduction to Alkyl Halides (Up to 5 Carbons): Types of Nucleophilic Substitution (SN1, SN2 and SNi) reactions
• Preparation: from alkenes and alcohols
• Reactions: hydrolysis, nitrite and nitro formation, nitrile and isonitrile formation
• Williamson's ether synthetic: Elimination vs substitution | Assignment l | |

Lesson plan-even semester

7	Week 3	• Introduction to Aryl Halides Preparation: (Chloro, bromo and iodo-benzene case): from phenol, Sandmeyer and Gattermann reactions • Reactions (Chlorobenzene): Aromatic Nucleophilic Substitution (replacement by -OH group) and effect of nitrogen substituent, Benzene Mechanism: KNH2/NH3 or (NaNH2/NH3) • Reactivity and Relative strength of C- Halogen bond in alkyl, alkyl, benzyl, vinyl and aryl halides	Test I	
8	Week 4	Holi Vacation		

Lesson plan-even semester

| 9 | April
Week 1 | • Introduction to Thermodynamics -1

• Zeroth Law of thermodynamics, 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

• Calculation of w, q, dU and dH for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process

• Temperature dependence of enthalpy, Kirchoff's equation

• Bond energies and applications of B.E. energies energies | Group Discussion | |

Lesson plan-even semester

| 10 | Week 2 | • Introduction to Thermodynamics -II
• Second law of thermodynamics, Carnot cycle and it's efficiency
• Concept of entropy - entropy as a state function, entropy as a function of V & T, entropy as a function of P & T
• Entropy Change in physical change, entropy as a criterion of spontaneity and equilibrium
• Entropy Change in ideal gases and mixing of gases | Discussion of numerical problem related with topics | |

Lesson plan-even semester

| 11 | Week 3 | • Third law of thermodynamics: Nernst heat theorem, statement of concept of residual entropy, evaluation of absolute entropy from heat capacity data
 • Gibbs and Helmholtz functions; Gibbs function (G) and Helmholtz functions (A) as thermodynamic quantities
 • A and G as criteria for thermodynamic equilibrium and spontaneity, their advantages over entropy change, variation of of G and A with P, V and T | Assignment ‖ | |

Lesson plan-even semester

12	Week 4	• Introduction to Alcohols: Preparation: Preparation of primary, secondary and tertiary alcohols: using Grignard reagent, Ester hydrolysis, Reduction of aldehydes, ketones, carboxylic acid and esters • Reactions: With sodium, HX(Lucas test), esterification, oxidation (with PCC, alk. KMnO4, acidic dichromate, conc. HNO3) • Oppeneauer oxidation Diols:(Up to 6 Carbons) oxidation of Diols, Pinacol- Pinacolone rearrangement	Test- II	

Lesson plan-even semester

13	May Week 1	• Introduction to Aldehydes and Ketones (aliphatic and aromatic): Formaldehyde, acetaldehyde, acetone and benzaldehyde) • Preparation: from acid chlorides and from nitriles • Reactions - Reaction with HCN, ROH, NaHSO3, NH2-G derivatives	Group Discussion	
14	Week 2	• Iodoform test • Aldolcondensation • Cannizaro's reaction • Wittig reaction • Benzoin condensation • Clemensen reduction • Wolff Kishner reduction • Meerwein- Pondorff Verley reduction • Revision	Group Discussion	

Class: B.Sc. II   **Semester: 4th (February–May 2024)**

Subject: Chemistry Practical Paper: 20UCHE403

Name of Teacher: Pardeep Kumar Jangra

Sr. No.	Month	Experiments
1	**Feb.-**Week 1	General discussion of topics related to Chemistry Practical.
2	Week 2	**Colorimetry:** To verify Beer-Lambert law for $KMnO_4$ and determine the concentration of the given $KMnO_4$ solution.
3	Week 3	**Colorimetry:** To verify Beer-Lambert law for $K_2Cr_2O_7$ and determine the concentration of the given $K_2Cr_2O_7$ solution.
4	Week 4	**Paper Chromatography:** Qualitative Analysis of the following Inorganic cations and anions by paper chromatography (Pb^{2+}, Cu^{2+}, Co^{2+}, Ni^2).
5	**March-**Week 1	**Paper Chromatography:** Qualitative Analysis of the following Inorganic cations and anions by paper chromatography (Cl^-, Br^-, I^-).
6	Week 2	To determine the specific refractivity of a given liquid.
7	Week 3	To determine the CST of phenol—water system.
8	Week 4	**Holi Vacation**
9	**April -**Week 1	To study the distribution of iodine between water and CCl_4.
10	Week 2	Steam distillation of Naphthalene from its suspension in water.
11	Week 3	Steam distillation separation of o-and p-nitrophenols.
12	Week 4	**Column chromatography:** Separation of fluorescein and methylene blue.
13	**May-**Week 1	**Column chromatography:** Separation of leaf pigments from spinach leaves.
14	Week 2	**Revision**

Lesson Plan – Fundamentals of Information Technology

Class : M.A. Pol. Science

Semester : 4th Semester (February 2023–May 2024)

Name of Teacher : Sh. Lalit Singh, Computer Instructor

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1.	February Week 1	Introduction and Generations of Computers, Definition of Computer, Block Diagram of Computer, Get familiar with computer parts and use of keyboard and mouse. Components of Computer, Characteristics of Computers,		
2.	Week 2	Limitation of Computer, Human being VS Computer, Change Date and Time Setting. Classification of Computers-According to Purpose, According to Technology, According to Size and Storage Capacity, Application of Computer in various field, Revision.		
3.	Week 3	Data Communication: Types of Communication, Digital Data Communication Techniques, Various applications of Data Communications, Mobile Communication: Fundamentals of Mobile Communication, 2G, 3G, 4G Technologies (GPRS, 3GPP, LTE)		
4.	Week 4	Introduction to Operating System, Types of Operating System, Functions of Operating System, Features of Windows Operating System, Creating Files and Folders, Managing File and Folders.		
5.	March Week 1	Computer Software, Types of Software, Proprietary and Open Source Software. Basics of Windows:- Basic Components of Windows, Icons, Type of Icons, Taskbar, Activating Windows, Desktop Components, Start Menu, Viewing, Arranging, and Working with Files and Folders		
6.	Week 2	Input Devices, Mouse, Keyboards, Light Pen, Track Ball, Joystick, MICR, Optical Mark Reader and Optical Character reader, Scanners, Voice system, Web Camera, Title bar, Output Devices, Hard Copy, Output Devices, Line Printers, Character Printers, Chain Printers, Dot-Matrix Printers, Daisy Wheel Printer, Laser Printer, Inkjet Printers, Plotters,Soft Copy Device – Monitor, Sound Card and Speakers, Revision.	Assignment – I	

7.	Week 3	Memory and Mass Storage Devices, Characteristics of Memory Systems, Memory Hierarchy, Types of Primary Memory, RAM and ROM ,Secondary and Back-up, Magnetic Disks, Characteristics and Classification of Magnetic Disk, Optical Disk, Magnetic Tape.	Test – I	
8.	Week 4	Overview of Networking:- Introduction to Network, Type of Network, Network Topologies, Mode of Data Transmission, Transmission Media. Introduction to Internet, Application of Internet, Hardware and Software requirement for internet,		
9.	Week 5	Holi Vacation		
10.	April Week 1	Create personal E-mail account, working with E-mail, Application of Intranet, World wide web, Web Browsers. Search engines, Understanding URL, Domain Name, Social Media Tools & Marketing Strategies, E-Commerce: Types, Tools, Electronic Payment System		
11.	Week 2	Concept of Database, Architecture of Database, Types of Database Introduction to Data Processing, Data Storage, Data Hierarchy, Methods of Organizing Data Various Data Processing Files,		
12.	Week 3	File Organizing, Various Utilities of Files Various Applications of Commerce, Accounting, Purchase, Healthcare, Mathematics, Humanities Videoconferencing: Tools of Videoconferencing, Types of videoconferencing	Assignment – II	
13.	Week 4	MS Word Basics, Toolbars, Menus, creating, editing, formatting, Auto Spell and Correct, Format Painter, Mail Merge, Header Footer, Macro	Test – II	
14.	May Week 1	MS Excel Basics, Cell, Creating, editing, working in Worksheets, Formulas, Pivot Table and Chart, sorting , filtering, conditional formatting, validating.		
15.	Week 2	MS PowerPoint Basics, Presentation creating, formatting, charts, animations and sounds, animated pictures and objects.		

Lesson Plan – Basics of Computer (IT Level-II)

Class : B.A.

Semester : 4th Semester (February 2023–May 2024)

Name of Teacher : Sh. Lalit Singh, Computer Instructor

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1.	February Week 1	Basics of E-Mail		
2.	Week 2	Create E-Mail, Inbox, Outbox, sending email,reply, forward, CC,BCC.		
3.	Week 3	E-Governance, Social Networking.		
4.	Week 4	E-Learning, E-Business, Revision and Question Answer.		
5.	March Week 1	MS Word Basics, Open, Save, Close Document, Menu Bar, Ribbon, Page Setup, Formatting & Editing Text.		
6.	Week 2	Table and Printing, Graphics, Mail Merge, Word art, Smart art, Inserting equation	Assignment – I	
7.	Week 3	Header Footer, Track change, Macro, Assignment/Test.	Test – I	
8.	Week 4	Revision and Question Answer. Holi Vacation		
9.	Week 5	Holi Vacation		
10.	April Week 1	Basic elements of Spreadsheet, Cell Manipulation, saving workbook, data entering, editing, formatting.		
11.	Week 2	Formula and Function, Chart and Graphics.		
12.	Week 3	Data Validation, Conditional Formatting, Sorting, Filtering.	Assignment – II	
13.	Week 4	Page Layout, What-if analysis.	Test – II	
14.	May Week 1	Basic of presentation, opening, creating, inserting, deleting and presenting slides.		
15.	Week 2	Enter and edit text, clipart, objects, graphics, views. Transition, slideshow, Timing Slide Master.		

Lesson plan-even semester

Teaching Plan – Settlement Geography

Class: M.Sc. Geography (4th Semester)

Semester – (Februrary–May 2023-2024)

Name of Teacher: Dr. Mukesh Kumar

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Evolution, size and growth of human settlements: Theories of evolution of settlements		
2	Week 2	Size, distribution, spatial and temporal trends in size and growth of settlements	---	
3	Week 3	Distribution Pattern: Spatial distribution pattern of settlements: Theoretical models and empirical findings	---	
4	Week 4	Settlement Structure: Physical (characteristics of internal structure and external form)	---	
5	March Week 1	Theories explaining internal morphological structure of cities		
6	Week 2	Empirical and theoretical models explaining the functional classification of towns & villages	Assignment l	
7	Week 3	Functional classification of urban centres, functional typology of villages, functions and scope	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Functional structure of towns in India. Land use (principles and theories of land use in urban and rural setting		

Lesson plan-even semester

10	Week 2	Urban and rural setting: house types and building materials, environmental factors, Socio-economic/cultural factors influencing the dynamics of settlement structure		
11	Week 3	theories of Christaller and Losch and their application to settlement hierarchy, factors contributing to hierarchy	Assignment ll	
12	Week 4	Central Place theory: measurement of centrality and hierarchy Hierarchy of settlements in India – an empirical exercise	Test- II	
13	May Week 1	Issues, perspectives and policies on Population and Human Settlements		
14	Week 2	Interface between human settlements and environment.	---	

पाठ योजना

कक्षा : द्वितीय वर्ष (चतुर्थ सत्र)हिन्दी गद्य साहित्य

सेमेस्टर –   (फरवरी–मई 2023-2024)

नाम : मीना , सहायक प्रोफेसर, हिन्दी

क्रम सं.	महीना	प्रकरण	शैक्षणिक गतिविधियाॅ	टिप्पणी
1	फरवरी सप्ताह प्रथम	जैनेन्द्र कुमार का साहित्यिक परिचय 'त्याग पत्र' उपन्यास की व्याख्या		
2	सप्ताह द्वितीय	'त्याग पत्र' उपन्यास की समीक्षा 'त्याग पत्र' उपन्यास में चित्रित समस्याएँ मृणाल व प्रमोद की चारित्रिक विशेषताएँ 'त्याग पत्र' उपन्यास का उद्देश्य वस्तुनिष्ठ प्रश्न-उत्तर	---	

3	सप्ताह तृतीय	मंशी प्रेमचंद का साहित्यिक परिचय 'नमक का दरोगा'कहानी की व्याख्या 'नमक का दरोगा' कहानी की समीक्षा वंशीधर का चरित्र चित्रण पंडित अलोपीदीन का चरित्र चित्रण	---	
4	सप्ताह चतुर्थ	'नमक का दरोगा' कहानी के वस्तुनिष्ठ प्रश्न-उत्तर जयशंकर प्रसाद का साहित्यिक परिचय 'आकाशदीप' कहानी की व्याख्या 'आकाशदीप' कहानी की समीक्षा 'आकाशदीप' कहानी का उद्देश्य	---	
5	मार्च सप्ताह प्रथम	चंपा का चरित्र चित्रण बुद्ध गुप्त का चरित्र चित्रण वस्तुनिष्ठ प्रश्न-उत्तर यशपाल का साहित्यिक परिचय 'परदा' कहानी की व्याख्या 'परदा' कहानी की समीक्षा		

पाठ योजना

6	सप्ताह द्वितीय	'परदा' कहानी का उद्देश्य बबर अलीखान का चरित्र चित्रण पीरबक्श का चरित्र चित्रण वस्तुनिष्ठ प्रश्न-उत्तर	असाइनमेंट- 1	
7	सप्ताह तृतीय	उषा प्रियवंदा का साहित्यिक परिचय 'वापसी' कहानी की व्याख्या 'वापसी' कहानी की समीक्षा 'वापसी' कहानी का उद्देश्य	टैस्ट- 1	
8	सप्ताह चतुर्थ	होली अवकाश		
9	अप्रैल सप्ताह प्रथम	'वापसी' कहानी की विशेषताएँ गजाधर बाबु का चरित्र चित्रण वस्तुनिष्ठ प्रश्न-उत्तर आचार्य रामचंद्र शुक्ल का साहित्यिक परिचय 'लोभ - प्रीति' निबंध की व्याख्या		

10	सप्ताह द्वितीय	'लोभ - प्रीति' निबंध की समीक्षा 'लोभ - प्रीति' निबंध का उद्देश्य निबंध के अनुसार 'लोभ' के विविध रुप निबंध के अनुसार 'प्रीति' के विविध रुप आचार्य रामचंद्र शुक्ल की भाषा शैली वस्तुनिष्ठ प्रश्न-उत्तर		
11	सप्ताह तृतीय	आचार्य हजारीप्रसाद द्विवेदी का साहित्यिक परिचय 'कुटज' निबंध की व्याख्या 'कुटज' निबंध की समीक्षा	असाइनमेंट - II	
12	सप्ताह चतुर्थ	'कुटज' निबंध की भाषा शैली वस्तुनिष्ठ प्रश्न-उत्तर महादेवी वर्मा का साहित्यिक परिचय आलोचनात्मक प्रश्न-उत्तर प्रभा खेतान का साहित्यिक परिचय आलोचनात्मक प्रश्न-उत्तर	टैस्ट - II	
13	मई सप्ताह प्रथम	पेपर		

पाठ योजना

14	सप्ताह द्वितीय		---	

Lesson plan-even semester

Class: B.A. 2nd History

Semester –   (Februrary–May 2023-2024)

Name of Teacher: Anita

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Interpreting the 18th century		
2	Week 2	Emergence of Independent states and establishment of colonial power	---	
3	Week 3	Expansion and consolidation of colonial power up to 1857	---	
4	Week 4	Popular Regional Resistance before 1857	---	
5	March Week 1	Revolution of 1857		
6	Week 2	Colonial economy :Agriculture, Trade and Industry	Assignment l	
7	Week 3	Socio religious movements in 19th century	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Emergence and growth of nationalism		
10	Week 2	Indian national freedom movement		
11	Week 3	Communalism :Genesis Growth and Partition of India	Assignment ll	

Lesson plan-even semester

12	Week 4	Communalism :Genesis ,Growth and Partition of India	Test- II	
13	May Week 1	Advent of freedom:constituent assembly ,Establishment of Republic		
14	Week 2		---	

Govt College For Women ,Badhra

Class:B.A/B.ScIII

Paper:Special Function and Integral Transformation

Semester :VI   **(February–May 2023-24)**

Name of Teacher: Kamal

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Power Series Solution of Differential Equation by Power Series		
2	Week 2	Definition of Beta Function & Gama Function Existence of Power Series Solution. Frobenius Method	---	
3	Week 3	Bessel's Equation and Solutions $J_{-n(X)=(-1)}{}^n J_n(x)$, $J_0(x)$, $J_1(x)$,	---	
4	Week 4	$J_{1/2}(x)$,$J_{-1/2}(x)$, $J_n'(x)+ n/x\, J_n(x)= J_{n-1}(x)$ $J_n'(x)-n/x\, J_n(x)= -J_{n+1}(x)$ $J_n'(x)=1/2[J_{n-1}(x)-J_{n+1}(x)]$	---	
5	March Week 1	Generating Function for $J_n(x)$ Bessel's Function in Integral Form		
6	Week 2	Orthogonality Relation of Bessel's Function, Equation Reducible to Bessel Equation	Assignment l	
7	Week 3	Legendre's Equation	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Hermite's Equation		

Govt College For Women ,Badhra

10	Week 2	Laplace Transforms of Elementary Functions, Differentiable Function, Integral, $LJ_0(t)$		
11	Week 3	Inverse Laplace Transforms	Assignment ‖	
12	Week 4	Solutions of Differential Equations by Laplace Transformation	Test- II	
13	May Week 1	Fourier Transforms, Inverse Fourier Transforms, Parseval's Identity		
14	Week 2	Solution of Differential equations by Fourier Transformation	---	

Lession plan – even semester Geography / Field Survey Practical

Class: B.A III

Semester – (February – May 2023-2024) Sixth

Name of Teacher: SANJAY KUMAR

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1.	February Week 1	Physics susvey identify the promirent land form and earth surfaces process of the surveyed area		
2.	Week 2	Physics susvey identify the promirent land form and earth surfaces process of the surveyed area		
3.	Week 3	Physics susvey demarcate the land form features of the selected area on a topographical sheet		
4.	Week 4	Physics susvey demarcate the land form features of the selected area on a topographical sheet		
5.	March Week 1	Physics susvey inidentify the various socil types and their characteristics		
6.	Week 2	Physics susvey		

		inidentify the various socil types and their characteristics		
7.	Week 3	Physics susvey classify the flora and fauna of the area		
8.	`Week 4	Holi Vacation		
9.	April Week 1	Physics susvey classify the flora and fauna of the area		
10.	Week 2	Physics susvey identify the relationship of various land forms, flora, fauna with land use settlement structure and life style of people		
11.	Week 3	Socio- economic survey- conduct- asocio economic surcey of the households with a structured questionnaire / sehedule		
12.	Week 4	Socio- economic survey- conduct- asocio economic surcey of the households with a structured questionnaire / sehedule		
13.	May Week 1	Socio- economic survey- conduct- asocio economic surcey of the households with		

		a structured questionnaire / sehedule		
14.	Week 2	Completion of practical work		

Lession plan – even semester Geography / Climatology theory

Class: B.A III

Semester – (Februrary – May 2023-2024) Sixth

Name of teacher: SANJAY KUMAR

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1.	February Week 1	Climatology nature and scope climate and weather elements and affecting factor of climate		
2.	Week 2	Climatology definitions climate and weather		
3.	Week 3	Composition and struclure of atmosphere ,atmosphere temperature vertical and horizontal distribution		
4.	Week 4	Atmospheric pressur and wind distribution		
5.	March Week 1	Atmosphereic moisture humiditu evaporation on of forms of condensation		
6.	Week 2	Types of precipitation world patterns of rainfall	Assignment – I	
7.	Week 3	Airmass concepts and	Test – I	

		classification		
8.	Week 4	Holi Vacation		
9.	April Week 1	Atmospherics disturbances tropical and temperate		
10.	Week 2	Cyclones and anticyclones		
11.	Week 3	Climatic regions classification cation of koppen	Assignment – II	
12.	Week 4	Climatic regions classification of thornthwaite	Test – II	
13.	May Week 1	Climate changes and global warming evidence causes consequences and measuredins its control		
14.	Week 2	Revision of third and fourth unit		

Lesson plan-even semester

Teaching Plan- 20UCHE604: Analytical Chemistry (SEC- IV)

Class: B. Sc. Final Year

Semester – Sixth Semester (Februrary–May 2023-2024)

Name of Teacher: Mrs. Yeshwanti, Assistant Professor of Chemistry

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	• Introduction about Diffraction Methods • Bragg condition • Miller indices		
2	Week 2	• Bragg method • Deby- Scherrer method (sodium chloride crystal)	Group Discussion	
3	Week 3	• Indexing reflections for a cubic system using powder method • Identification of unit cells from systematic absences in diffraction pattern	---	
4	Week 4	• Structure factor and its relation to intensity and electron density • Introduction to phase problem	Group Discussion	
5	March Week 1	• Description of the procedure for an X- ray structure analysis (NaCl)		

Lesson plan-even semester

6	Week 2	• Introduction about Electroanalytical Methods • Classification of Electroanalytical methods	Assignment l	
7	Week 3	• Basic principles of pH metric, potentiometric titrations	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	• Conductometric titrations • Techniques used for the determination of equivalence points and pKa values		
10	Week 2	• Introduction about Chromatographic techniques • Classification		
11	Week 3	• Mechanism of Chromatography separation: adsorption, partition & ion exchange	Assignment ll	
12	Week 4	• Development of chromatograms: frontal, elution and displacement methods • Qualitative and quantitative aspects of chromatographic methods of analysis	Test- II	

Lesson plan-even semester

13	May Week 1	• Paper and thin layer chromatography • Liquid chromatography • Ion exchange chromatography		
14	Week 2	• Revision	Group Discussion	

Lesson plan-even semester

Class: B.Sc 3rd year

Semester –6th semester   (Februrary–May 2023-2024)

Name of Teacher: Ms. Priynka

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	General properties of nuclei: constituents of nucleus and their intrinsic properties, quantitative facts about size,mass, charge density, binding energy, average binding energy and it's variation ith mass number		
2	Week 2	Main features of binding energy versus mass no. Curve,N/A plot, angular momentum,parity,magnetic moment, electric moments, Nuclear excited states	---	
3	Week 3	Liquid drop model approach,semi empirical mass formula and significance of varies terms, condition of nuclear stability,evidence of nuclear shell structure	---	
4	Week 4	Nuclear magic number,basics assumption of shell model,residual interaction, concept of nuclear forces, Alpha decay: Basics of Alpha decay processes, theory of Alpha emission	---	

Lesson plan-even semester

5	March Week 1	Gamow factor, Geiger Nuttall law,Alpha decay spectroscopy,beta decay,energy kinematics for beta decay,		
6	Week 2	Positron emission, electron emission , electron capture,neutrino hypothesis,gamma decay,		
7	Week 3	Gamma ray emission and kinematics,types of nuclear reactions conservation laws,	Assignment	
8	Week 4	Holi Vacation		
9	April Week 1	Kinematics of reactions,Q values, reaction rate, reaction cross section, concept of compound and direct reaction,		
10	Week 2	Resonance reaction ,coulomb scattering, interaction of nuclear radiation with matter , Bethe -block formula , energy loss of election,		
11	Week 3	Cerenknow radiation,gamma ray interaction through matter, photo electric effect, Compton scattering, pair production,neutron intery with matter		
12	Week 4	Gas detector, ionisation chamber,GM counter, scintillation detector		
13	May Week 1	Semiconductor detector	Test	

Lesson plan-even semester

14	Week 2		---	

Lesson plan-even semester

Class: B.Sc 4th semester

Semester – (Februrary–May 2023-2024)

Name of Teacher: Priynka

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Introduction of Quantum physics		
2	Week 2	Photon, Photoelectric effect and Einstein photoelectric equation, Compton effect,De- Broglie hypothesis.	---	
3	Week 3	Davison and Germer experiment,G.P Thomson experiment, phase velocity,group velocity, Heisenberg uncertainty principle,Time energy and angular momentum,position uncertainty, uncertainty principle from de- Broglie wave.	---	
4	Week 4	Postulates of Quantum Mechanics,wave function and it's significance, conditions satisfied by wave Function	---	
5	March Week 1	Derivation of time dependent Schrodinger wave equation,eigen values and eigen functions .Normalisation of wave function,observable and operator,		

Lesson plan-even semester

6	Week 2	Derivation of time independent Schrodinger wave equation,Solution of Schrodinger equation for. harmonic oscillator ground state and excited states,free particle in one	Assignment I	
7	Week 3	free particle in one dimensional box.One dimensional potential barrier E>V,one dimensional potential barrier E<V Penetration depth, penetration of One dimensional potential barrier E>V,one dimensional potential barrier E<V Penetration depth, penetration	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Semiconductor: p and n type semiconductor, Barrier formation in pn junction diode, Drift and diffusion currents pn junction and it's characteristics,Statics and dynamic resistance,pn junction diode as a half wave rectifier,full wave rectifier		

Lesson plan-even semester

10	Week 2	Calculation of ripple factor and rectification efficiency,npn and pnp transistor, characteristics CB,CC,CE configuration,active,cut off and saturation regions,current gains alpha and beta,Dc load line and Q - point		
11	Week 3	h- parameter Equivalent circuit,field effect transistor FET,MOSFET, advantages of using Field effect Transistor, Amplifier and their biasing , Voltage divider biasing ckt for CE amplifier,biasing stabilization ,class A,B,C amplifier,RC coupled amplifier and it's frequency response,	Assignment ll	
12	Week 4	Feedback amplifier , operational amplifier, characteristics of an ideal and practical op amp,open and closed loop gain,CMRR,concept of virtual ground, applications of op-Amps: 1. Inverting and non inverting amplifier, Differentiator,integrator	Test- II	
13	May Week 1	Schrodinger equation in spherical cordinates, separation of variables for r, theta, fhai, solutions for theta and phai equation, spherical harmonics,		

Lesson plan-even semester

14	Week 2	Space quantization, electron spin and spin angular momentum, larmor theorem, spin magnetic moment, Gyro magnetic ratio and Bhor magneton.	---	

Lesson plan-even semester

14	Week 2	Space quantization, electron spin and spin angular momentum, Larmor theorem, spin magnetic moment, Gyro magnetic ratio and Bhor magneton		

Lesson plan-even semester

Class: B.A-I (Micro Economics) (Sem - II)

Semester – (Februrary–May 2023-2024)

Name of Teacher: Paranjeet Singh

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Characteristics of Perfect Competition		
2	Week 2	Price determination under Perfect Competition.	---	
3	Week 3	Equilibrium of firm	---	
4	Week 4	Equilibrium of Industry	---	
5	March Week 1	Characteristics, equilibrium of the Monopoly firm		
6	Week 2	Concept of Supply Curve in Monopoly.	Assignment I	
7	Week 3	Price discrimation	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Imperfect Market, Selling Price, Excess Capicity		
10	Week 2	Oligopoly Cournot Model		
11	Week 3	Bertrand model	Assignment II	
12	Week 4	Market failure.	Test- II	
13	May Week 1	Theory of Factor Pricing Theory of distribution		
14	Week 2	Rent, Quasi Rent	---	

Lesson plan-even semester

Class: B.A.II (Macro Economics) (Sem-IV)

Semester – (Februrary–May 2023-2024)

Name of Teacher: Paramjit Sur

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Concept of Money in a Modern Economy, Monetary Aggregates Functions of Money Demand for Money.		
2	Week 2	Money Supply, Credit Creation Process	---	
3	Week 3	Measure of Money supply	---	
4	Week 4	Types of Inflation, Phillips curve	---	
5	March Week 1	Concept and types of Inflation Determination of Inflation		
6	Week 2	Fiscal Policy	Assignment I	
7	Week 3	Monetary Policy	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Derivation of IS and LM functions, IS-LM and Aggregate Demand		
10	Week 2	Shifts in AD curve		
11	Week 3	Features of trade cycle	Assignment II	
12	Week 4	Theories of trade cycle	Test- II	
13	May Week 1	Meaning, current and Capital Account. Market for foreign Exchange		
14	Week 2	Determination of Exchange Rate		

Lesson plan-even semester

Class: BA. III (Development Economics) (Sem- VI)

Semester – (Februrary–May 2023-2024)

Name of Teacher: Paramjeet Singh

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Features of Under Developed Countries Economic Growth		
2	Week 2	Development Determinants	---	
3	Week 3	Measurement and obstacle of Economic Development	---	
4	Week 4	Rostow's theory	---	
5	March Week 1	Role of learing, education and Research, human capital		
6	Week 2	Concepts and measurments	Assignment I	
7	Week 3	of HDI, Solow Model	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Balanced and unbalanced Growth, Lewis and Leibenstein model		
10	Week 2	Critical Minimum effort Thesis		
11	Week 3	Recent Economic Policy	Assignment II	
12	Week 4	Post Reform Policy in India	Test- II	
13	May Week 1	Economic Reform & LPG Policy		
14	Week 2	NITI Ayogen dits functions	---	

Lesson plan-even semester

Class: B.Comm I (Sem-II)

Semester – (Februrary–May 2023-2024)

Name of Teacher: Parayi 1Sun

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Meaning, Elements Elements Importance of Business Environment		
2	Week 2	Objectives, Process, Environment Unit...		
3	Week 3	SWOT/SWOC, BTOP Analysis	---	
4	Week 4	NITI Aayog	---	
5	March Week 1	Economic Environment		
6	Week 2	~~Difference~~ Defination, Diff.	Assignment I	
7	Week 3	between Balance of Trade	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Balance of Payment, Uses Unemployment, Infaliom		
10	Week 2	Industrial Sickness Regional Imbalances		
11	Week 3	Meaning, objective, History	Assignment II	
12	Week 4	of Industrial Policy	Test- II	
13	May Week 1	Monetary Policy, fiscal Policy, Liberalization, Privatisation and Globalisation		
14	Week 2	International Monetary Fund, WTO and World Bank		

Lesson Plan – Even Semester

CLASS: M.SC (P) GEOGRAPHY (Population and Settlement Geography)

SEMESTER- 2ND (February-May 2023-2024)

NAME OF TEACHER- SH.TASVIR SINGH

Sr. No.	Month	Topic to be covered	Academic activity	Remark
1.	February Week 1	Evolution of population geography, scope and content of population of geography, source of data and nature of data		
2.	Week 2	World and population distribution and growth with respect to stage of demographic transition		
3.	Week 3	Population growth distribution and trend with respect to India and sub-national level		
4.	Week 4	Age structure, overall sex ratio, child sex ratio, sex ratio at birth, elderly sex ratio		
5.	March Week 1	Sex ratio and there temporal trend and special pattern in India phenomenon of ageing population		
6.	Week 2	Population dynamics, Fertility, Mortality and migration, basic measures, spatial and temporal trends		
7.	Week 3	Socio-cultural literacy and education, religious composition, rural-urban residence	Test-1	
8.	Week 4	Holi Vacation		
9.	April Week 1	Definition and scope of settlement geography. Locational aspects site situation		
10	Week 2	Size, Pattern, Shape, Function, Distribution, Density, Spatial distribution and pattern and method of analysis distribution		
1	Week 3	Settlement types based on site situation, population size and function. Spatial and temporal		

		trends in size and growth of settlements with special referenced India		
12	Week 4	Function of settlements rural-urban distribution. Empirical and theoretical model explaining the functional classification of towns and villages	Test-2	
13	May Week 1	Functional, Classification of urban centers, Functional typology of villages		
14	Week 2	Functional landscape, functional structure of town in India		

Lesson plan-even semester

Class: BA 4th Sem

Semester – (Februrary–May 2023-2024)

Name of Teacher: Gunpal Singh

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 2	Introduction to the syllabus and examination pattern The Gold Watch - Text & Exercise		
2	Week 3	Sonnet XVIII - Text & Exercise	---	
3	Week 4	A Client- Text & Exercise	---	
4	Week 5	Know Then Thyself – Text & Exercise	---	
5	March Week 1	Karma – Text & Exercise		
6	Week 2	The World is Too Much with Us – Text & Exercise	Submission of Assignment	
7	Week 3	English Speech Sounds – Vowels Consonants	Test I	Textual questions Lesson 1-3
8	Week 4	Holi Vacation		
9	April Week 1	Transcription of Speech Sounds -Textual Exercises		
10	Week 2	Upper Division Love – Text & Exercise		
11	Week 3	The Bangle Sellers -Text & Exercise	Assignment II	

Lesson plan-even semester

12	Week 4	Precis - Exercises	Test- II	Grammar & Remaining Chapters
13	May Week 1	Translation Exercises		
14	Week 2	Group Discussion	---	Selected topics to be given on the spot in the classroom

Teaching Plan – Climatology

Class: - M.Sc Geography

Semester – 2nd Sem.   (Februrary – May 2023- 2024)

Name of Teacher : Dr Anil Kumar

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1.	February Week 1	Climatology: Definition, nature and scope; Climatology and Meteorology. Atmosphere: composition and structure		
2.	Week 2	Insolation: Solar radiarion and terrestrial radiation, latitudinal and seasonal variations	---	
3.	Week3	Effects of atmosphere: green house effect heat budget and Latitudinal heat balance	---	
4.	Week 4	Temperature: Processes of heat energy transfer, heating and cooling of atmodphere, horizontal and vertical distribution, inversion of temperature	Class Test	
5.	March Week 1	Atmospheric pressure: measurement and its distribution pattern vertical, horizontal and 3 seasonal variations		
6.	Week 2	Gerneral circulation: planetary, geostrophic,	Assignment	

		subtropical, westerlies and polar winds		
7.	Week 3	Tricellular meridional circulation, walker circulation- ENSO and La Nina	Seminar on Changing Climatic Conditions	
8.	Week 4	Holi Vacation		
9.	April Week 1	Atmospheric moisture: sources of atmosphere moisture? Types and distribution of humidity and evaporation		
10.	Week 2	Condensation: conditions, forms and types. Precipitation: process, form, types and distribution.		
11.	Week 3	Atmosphere equilibrium: stability and instability. Adiabatic process of temperature change, lapse rate: dry and wet adiabatic rate	Assignment 2	
12.	Week 4	Air masses: definition, characteristics, modification and classification		
13.	May Week 1	Fronts: frontogenesis. Frontlysis and classification Atmospheric disturbances	Class Test 2	

| 14. | Week 2 | Climatic changes Evidences: Theories of Climate Change Milankovitch Cycle, Atmosphere Dust 10 Hypothesis, Carbon Dioxide Theory and Astronomic Theory of Climate Change | | |

Lesson plan-even semester

Class: BA 2nd Sem

Semester – (Februrary–May 2023-2024)

Name of Teacher: Gunpal Singh

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 2	Introduction to syllabus and examination pattern Three Questions- Text & Exercise		
2	Week 3	Where the Mind is without Fear - Text & Exercise Money Madness - Text & Exercise	---	
3	Week 4	Work Brings Solace– Text & Exercise	---	
4	Week 5	Why is the Sea Blue– Text & Exercise	---	
5	March Week 1	Leisure– Text & Exercise		
6	Week 2	Agreement of Verb and Subject– Exercise Confusion of Adjective and Adverb - Exercises	Assignment I	
7	Week 3	Difficulties with Comparatives and Superlatives –Exercise Introductory There - Exercise	Test-1	Textual questions Lesson 1-3
8	Week 4	Holi Vacation		
9	April Week 1	The Infinitive – Exercise Anticipatory It with Noun and Adjective Clauses- Exercises		
10	Week 2	Appendix Exercise for Practice -The Position of Adverb		
11	Week 3		Assignment II	

Lesson plan-even semester

12	Week 4	The Chicago Speech- Text & Exercise	Test- 2	Grammar Topics Lesson 1-7
13	May Week 1	Appendix Exercise for Practice Tenses		
14	Week 2	Group Discussion	---	Selected topics to be given on the spot in the classroom

Lesson Plan- 2023-2024 (Even Semester)

Class: B.Sc. III   **Semester -VI**

Session: 2023-2024 (February-May 2024)   **Name of Teacher: Dr. Meena Kumari**

20UCHE602: QUANTUM MECHANICS MOLECULAR SPECTROSCOPY (Theory)

20UCHE601: ORGANIC SPECTROSCOPY-II (Theory)

Sr. No	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1		Undergoing Practical examination (odd sem)	
2	Week 2	• Interaction of electromagnetic radiation with molecules and various types of spectra • Born Oppenheimer approximation • Introduction to Rotational Spectroscopy -Rigid rotor and non-rigid rotor • Selection Rules, Their energy expressions and energy level diagram • Intensities of spectral lines, Determination of bond lengths of diatomic and triatomic molecules, Isotopic substitution. • Numerical Problems	Question - Answer Discussion	
3	Week 3	• Introduction to Vibrational Spectroscopy - • Classical concept of vibration, Harmonic and Anharmonic Oscillator, Selection rules, Their energy expressions and energy level diagram • Computation of force constant, anharmonicity constant, Morse potential curve, dissociation energies, Vibrating diatomic rotator, fundamental frequencies, overtones, hot bands • Vibrational-rotational spectroscopy: P, Q, R branches, Numerical Problems	Question - Answer Discussion	

4	Week 4	• Introduction to Raman Spectroscopy: Qualitative treatment of Rotational Raman effect, Effect of nuclear spin, Selection Rules and energy expressions • Vibrational Raman spectra, Stokes and anti-stokes lines, their intensity and rule of mutual exclusion. • Introduction to Electronic Spectroscopy: Franck-Condon principle, electronic transitions, singlet and triplet states, Jablonski Diagram • Fluorescence and phosphorescence, dissociation and predissociation.	Question - Answer Discussion	
5	Week 5	• calculation of electronic transitions of polyenes using free electron model. • Numerical Problems • Problems of Students	Test 1	
6	**March** Week 1	• Introduction to Quantum Mechanics-I, Black-body radiation, Plank's radiation law, photoelectric effect, heat capacity of solids, Compton effect		
7	Week 2	• Wave function and its significance of Postulates of quantum mechanics, quantum mechanical operator, commutation relations, Hamiltonian operator, Hermitian operator, Role of operators in quantum mechanics • Schrodinger equation and its application to free particle and particle in a box problem, quantization of energy levels, zero-point energy and Heisenberg uncertainty principle, wave functions, distribution functions, nodal properties	Question - Answer Discussion	
8	Week 3	• Extension to three dimensional boxes, degeneracy. • Rigid rotator model of rotation of diatomic molecule, Schrödinger equation, transformation to spherical polar coordinates • and separation of variables, Spherical harmonics, and qualitative discussion of solution.	Question - Answer Discussion Assignment 1	

4	Week 4	• Introduction to Raman Spectroscopy: Qualitative treatment of Rotational Raman effect, Effect of nuclear spin, Selection Rules and energy expressions • Vibrational Raman spectra, Stokes and anti-stokes lines, their intensity and rule of mutual exclusion. • Introduction to Electronic Spectroscopy: Franck-Condon principle, electronic transitions, singlet and triplet states, Jablonski Diagram • Fluorescence and phosphorescence, dissociation and predissociation.	Question - Answer Discussion	
5	Week 5	• calculation of electronic transitions of polyenes using free electron model. • Numerical Problems • Problems of Students	Test I	
6	March Week 1	• Introduction to Quantum Mechanics-I, Black-body radiation, Plank's radiation law, photoelectric effect, heat capacity of solids, Compton effect		
7	Week 2	• Wave function and its significance of Postulates of quantum mechanics, quantum mechanical operator, commutation relations, Hamiltonian operator, Hermitian operator, Role of operators in quantum mechanics • Schrodinger equation and its application to free particle and particle in a box problem, quantization of energy levels, zero-point energy and Heisenberg uncertainty principle, wave functions, distribution functions, nodal properties	Question - Answer Discussion	
8	Week 3	• Extension to three dimensional boxes, degeneracy. • Rigid rotator model of rotation of diatomic molecule, Schrödinger equation, transformation to spherical polar coordinates • and separation of variables, Spherical harmonics, and qualitative discussion of solution.	Question - Answer Discussion Assignment I	

9	Week 4	• Separation of variables, • Spherical harmonics, and qualitative discussion of solution. • Problems of Students • Holi Vacations		
10	Week 5	• Holi Vacations		
11	**April** **Week 1**	• Recapitulation of Infrared Spectroscopy Concepts • Application of IR in structure elucidation of organic compounds-carbonyls and effect of substituents on it, C-H, NH, O-H vibrations and H-bonding- unsaturated, mono- and disubstituted aromatic compounds, • Metal-ligand vibrations, group frequencies of complex ligands-CN stretching and effect of coordination on it, nitro and nitrite and C=O ligands and effect of their coordination with metal ions. Applications of far and near IR.	Question - Answer Discussion	
12	Week 2	• Introduction to NMR including instrumentation. Chemical shift and its measurements. Factors influencing chemical shift. Magnetic anisotropy. The relaxation processes. Mechanism of nuclear spin-spin interactions. Different spin systems. The coupling constant and factors effecting coupling constant, Long range spin-spin coupling. • Simplification of complex proton spectra with examples. Interpretation of first order and complex PMR Spectra of specific organic compounds. • Distinction between geometrical isomers. • Study of some dynamic effects by $1H$ NMR, Hindered rotation, kete-enol tautomerism, aromaticity. Nuclear overhauser effect.	Question - Answer Discussion	

Lesson Plan-2023-2024 (Even Semester)

Class: B.Sc.III **Semester –VI**

Session: 2023-2024 (Februrary-May 2024) **Name of Teacher: Dr. Meena Kumari**

20UCHE604: ANALYTICAL CHEMISTRY (SEC-IV)
Unit I & II (Class: Wednesday and Thrusday)

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	-		
2	Week 2	• Introduction to error analysis • Methods of sampling and associated errors	---	
3	Week 3	• Classification of errors • Propagation of errors • Treatment of errors	---	
4	Week 4& 5	• Normal distribution • Tests of Significance and Confidence limits	---	
5	March Week 1& 2	• Introduction to UV-Visible Spectrometry Instrumentation • Basic principles of instrumentation (choice of source, monochromator and detector) for single beam and double beam instruments		
6	Week 3	• Introduction to Infra red Spectrometry Instrumentation • Basic principles of instrumentation (choice of source, monochromator and detector) for single and double beam instruments	Question -Answer Discussion Assignment I	
7	Week 4	• Sampling Techniques • Structural illustration through interpretation of data • Effect and importance of isotopic substitution	Test- II	
8	Week 5	• Holi Vacation		

Lesson Plan-2023-2024 (Even Semester)

9	April Week 1	• Introduction to Flame Atomic Absorption and Emission Spectrometry. Basic principles of intrumentation - choice of source, monochromator, detector		
10	Week 2	• Basic principles of intrumentation - choice of flame and burner designs • Techniques of atomization and sample introduction		
11	Week 3	• Method of background correction • Sources of chemical interferences and their method of removal • Techniques for the quantitative estimation of trace level of metal ions from water samples	Assignment II	
12	Week 4& 5	• Problems of the students • Question - answer discussion		
13	May Week 1	• Revision	Theory/practical Examinations may start anytime.	
14	Week 2	• Revision		

Teaching Plan - Chemistry Practical

Class: B.Sc. III   **Session: 2023-2024**

Semester –6th (February–May 2024)Name of Teacher: Dr. Meena Kumari

S. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	● Introduction to practical syllabus, marking pattern ● About precautions to be taken in lab, common equipments to be used, name of various glass wares, organization of chemicals in laboratory and common instructions for practicals		
2	Week 2	● To prepare o-chlorobenzoic acid from anthranilic acid. ● File preparation		
3	Week 3	● To prepare p-bromoaniline from p-bromoacetanilide. ● File preparation		
4	Week 4	● To prepare m-nitroaniline from m- dinitrobenzene. ● File preparation		
5	March Week 1	● To prepare S-benzyl-iso-thiouronium chloride from thiourea. ● File preparation		
6	Week 2	● File checking ● Preparation of viva- voce from organic section		
7	Week 3	● Group Discussion ● General introduction about physical chemistry practicals	Viva-voce mock test 1	
8	Week 4	● Holi Vacation		
9	April Week 1	● To determine the strength of given HCl potentiometrically. ● File preparation		

Teaching Plan - Chemistry Practical

10	Week 2	● To determine the strength of given Acetic acid potentiometrically. ● File preparation		
11	Week 3	● To determine the strength of given Mohr salt solution potentiometrically. ● File preparation		
12	Week 4	● File checking ● Preparation of viva- voce from physical chemistry practical	Viva-voce mock test 2	
13	May Week 1	● Introduction about Inorganic salt analysis ● To report the acid and basic radicals in the mixture. ● File preparation		
14	Week 2	● File checking ● Revision ● Students doubts		

B

Lesson plan-even semester

Lesson Plan- Vector Calculus

Class: B.A/B.SC-I

Semester –   (February–May 2023-2024)

Name of Teacher: Dr. Garima Kumari

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Gradient of a scalar point function, Directional derivatives		
2	Week 2	Geometrical interpretation of grad	---	
3	Week 3	Character of gradient	---	
4	Week 4	as a point function	---	
5	March Week 1	Divergence and curl of vector point function		
6	Week 2	Holi Vacation		
7	Week 3	Character of Div f and curl f as point function		
8	Week 4	Example	Assignment I	
9	Week 5	Gradient divergence and curl of sums and product	Test I	
10	April Week 1	Laplacian operator		
11	Week 2	Orthogonal curvilinear coordinates		
12	Week 3	Gradient, divergence, curl and Laplacian		
13	Week 4	Cylindrical co-ordinates and spherical co-ordinates	Assignment II	
14	May Week 1	Vector integration , Line integral, Surface integral, volume integral	Test- II	

Lesson plan-even semester

15	Week 2	Problem based on Theorems of Gauss	---	
16	Week 3	Green & Strokes		
17	Week 4	Tracing of conics	---	
18	Week 5	Tangent at any point to the conic, chord of contact , pole of line to the conic, direction circle of conic		

Lesson plan-even semester

LESSON PLAN – REAL ANALYSIS

Class: B.A/B.SC III

Semester –   (February–May 2023-2024)

Name of Teacher: Dr. Garima Kumari

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	September Week 2	Riemann integral		
2	Week 3	Improper integral and their convergence	---	
3	Week 4	Integral as a function of a parameter	---	
4	October Week 1	metric spaces	---	
5	Week 2	Open and closed sets in metric spaces	Assignment l	
6	Week 3	Completeness in metric spaces	Test I	
7	Week 4	Diwali Vacation		
8	November Week 1	Exercise and Example		
9	Week 2	Continuity and unified, continuity in metric space		
10	Week 3	Exercise and Example		
11	Week 4	Compactness in metric spaces	Assignment ll	
12	December Week 1	Metric Spaces	Test- II	
13	Week 2	Connectedness in Metric Spaces		
14	Week 3	Short and type question	---	
15	Week 4	Revision	---	

Lesson plan-even semester