GOVT. COLLEGE FOR WOMEN, BADHRA

(Affiliated to Ch. Bansi Lal University, Bhiwani, AISHE Code: C-51945)

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NOTICE

All the Teaching Staff Members are requested to submit their lesson plans of Odd Semester 2023-24 latest by 19 July 2023 up to 2:00 pm so that it can be uploaded at portal. It may be treated as most urgent.

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

Principal
Govt College For Women
Badhra (Ch. Dadri)

Lalit

Rinku

Manisha

पाठ – योजना

कक्षा:- तृतीय **वर्ष (पंचम सत्र)**

सेमेस्टर – **(जुलाई - नवंबर 2023)**

नाम : - कमलेश,सहायक प्रोफेसर, हिन्दी

Sr. No.	महीना	प्रकरण	शैक्षणिक गतिविधियाँ	टिप्पणी
1	जुलाई सप्ताह तृतीय	भाषा- अर्थ, परिभाषा एवं स्वरूप		
2	सप्ताह चतुर्थ	भाषा के प्रकार, भाषा की विशेषताएं	---	
3	अगस्त सप्ताह प्रथम	भाषा की उपयोगिता एवं महत्व	---	
4	सप्ताह द्वितीय	हिंदी भाषा- उद्भव और विकास	---	
5	सप्ताह तृतीय	हिंदी भाषा के विविध रूप- मातृभाषा, राजभाषा राष्ट्रभाषा		
6	सप्ताह चतुर्थ	बोली, उपभाषा और भाषा		
7	सप्ताह पंचम	मानक हिन्दी के तत्व- ध्वनि, शब्द, वाक्य, अर्थ	---	
8	सिंतबर सप्ताह प्रथम	संचार- अर्थ, परिभाषा, स्वरूप		
9	सप्ताह द्वितीय	भाषा की उपयोगिता एवं महत्व	असाइनमेंट - 1	
10	सप्ताह तृतीय	भाषा की विशेषताएं	टैस्ट-1	

11	सप्ताह चतुर्थ	संचार के प्रकार		
12	अक्टूबर सप्ताह प्रथम	संचार की प्रक्रिया		
13	सप्ताह द्वितीय	संचार का महत्व		
14	सप्ताह तृतीय	संचार कौशल और व्यक्तित्व विकास	असाइनमेंट - 2	
15	सप्ताह चतुर्थ	बोली, उपभाषा, भाषा	टैस्ट - 2	
16	नवंबर सप्ताह प्रथम	प्रभावी संचार कौशल		
17	सप्ताह द्वितीय	संचार कौशल के सिद्धान्त		
18	सप्ताह तृतीय	दिवाली अवकाश		
19	सप्ताह चतुर्थ	संचार कौशल की प्रासंगिकता		

Lesson plan-even semester

Class: B.A. 3rd Year History

Semester – (Februrary–May 2023-2024) Name of Teacher: Anita

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	February Week 1	Mercantilism		
2	Week 2	Agriculture and Technology revolution	---	
3	Week 3	Capitalism it's stages and development	---	
4	Week 4	Imperialism	---	
5	March Week 1	French Revolution		
6	Week 2	Liberalism in Britain	Assignment I	
7	Week 3	Nationalism in Germany and Italy	Test I	
8	Week 4	Holi Vacation		
9	April Week 1	Russian Revolution		
10	Week 2	Emergence of Nazism and Fascism		
11	Week 3	Stages of colonialism in India ,China and the west	Assignment II	
12	Week 4	First world war and Second world war	Test- II	
13	May Week 1	Japan and the west, Non alignment movement :origin and development		
14	Week 2	Revision	---	

Teaching Plan –

Class: MAI

Semester – (July – November 2023) Subject – Western Political thought

Name of Teacher: Jitender Kumar (ODD-Sem)

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	EXAM DUTY		
2	Week 4	EXAM Duty	---	
3	August Week 1	EXAM Duty	---	
4	Week 2	EXAM Duty	---	
5	Week 3	(1) Plato		
6	Week 4	(2) Aristatle		
7	Week 5	Revision	---	
8	September Week 1	(3) Sto Augustine		
9	Week 2	(4) St. Thomas Aquins	Assignment 1	
10	Week 3	(5) Niccolo Machiavelli	Class Test 1	
11	Week 4	(6) Thomas Hobbes		
12	October Week 1	St. Thomas Aquins Niccolo Machiavelli (7) John lock		
13	Week 2	(8) Jean Jacques Rousseau		
14	Week 3	(9) Jeremy Bentham	Assignment 2	
15	Week 4	Revision	Class Test 2	
16	November Week 1	Jeremy Bentham (10) John stuart Mill		
17	Week 2	Revision		
18	Week 3	Diwali Vacation		
19	Week 4	Revision		

Teaching Plan –

Class: MA final

Semester – (July – November 2023)

Name of Teacher: Jitender Kumar

Indian Political thought (odd sem.)

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	EXAM Duty		
2	Week 4	EXAM Duty	---	
3	August Week 1	EXAM DUTY	---	
4	Week 2	EXAM DUTY	---	
5	Week 3	1) Shantiparva		
6	Week 4	2) Manusamriti		
7	Week 5	Revision	---	
8	September Week 1	3) Arthashastra		
9	Week 2	4) Baddhist Tradition	Assignment 1	
10	Week 3	5) Guru Nanak	Class Test 1	
11	Week 4	6) Kabir, Guru Nanak, Baddhist Tradition		
12	October Week 1	7) Barani		
13	Week 2	8) Swami Vivekananda		
14	Week 3	9) Swami Dayanda Saraswati	Assignment 2	
15	Week 4	10) Aurobindo Ghosh	Class Test 2	
16	November Week 1	Swami Dayananda Saraswati Aurobindo Ghosh 11) Raja Ram Mohan Ray		
17	Week 2	12) Jyotiba Rao Phule		
18	Week 3	Diwali Vacation		
19	Week 4	13) Pandita Rama Bai		
20	December Week 1	Revision		

Teaching Plan –

Class: BA 3rd Year

Semester – **(July – November 2023) – 24**

Name of Teacher: Jitender Kumar Odd Sem.

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Public Policy	Rivision	
2	Week 4	Models of Public Policy	---	
3	August Week 1	Institutions of Policy formation and implementation	---	
4	Week 2	Niti Aayog	---	
5	Week 3	Major Parliamentary		
6	Week 4	Governance		
7	Week 5	Right to Education	---	
8	September Week 1	National Health Mission		
9	Week 2	Right to food Security	Assignment 1	
10	Week 3	Mgnrega	Class Test 1	
11	Week 4	Decentralisation in India		
12	October Week 1	Accountability		
13	Week 2	ombudsman - Lokpal		
14	Week 3	Citizen charter	Assignment 2	
15	Week 4	Right to information	Class Test 2	
16	November Week 1	1st administration recommendations		
17	Week 2	2nd administration		
18	Week 3	Diwali Vacation	class test 3	
19	Week 4	Rivision		

Teaching Plan –

Class: B.A. III Sem- V

Semester – (July – November 2023) सम्पादन प्रक्रिया और साज सज्जा

Name of Teacher: डॉ. पूनम

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	सम्पादन का अर्थ, स्वरूप सम्पादन की योग्यता, दायित्व, महत्व		
2	Week 4	सम्पादन कला के सिद्धान्त एवं उद्देश्य		
3	August Week 1	अच्छे समाचार पत्र की विशेषताएँ सम्पादकीय लेखन - तत्व एवं प्रविधि		
4	Week 2	सम्पादकीय का सामाजिक प्रभाव		
5	Week 3	समाचार-पत्र और पत्रिकाओं में सम्पादन		
6	Week 4	साहित्य और कला जगत की		
7	Week 5	सामग्री में सम्पादन की विशेषताएँ		
8	September Week 1	हिन्दी में राष्ट्रीय व प्रांतीय समाचार-पत्रों की भाषा		
9	Week 2	सम्पादकीय लेखन, तत्व, प्रविधि	Assignment 1	
10	Week 3	सम्पादन कला के सिद्धान्त	Class Test 1	
11	Week 4	छायाचित्र, महत्व		
12	October Week 1	रेखाचित्र का सम्पादन साज- सज्जा का अर्थ		
13	Week 2	स्वरूप एवं अवधारणा		
14	Week 3	सम्पादन कला के सिद्धान्त	Assignment 2	
15	Week 4	साज - सज्जा का अर्थ, स्वरूप	Class Test 2	
16	November Week 1	मुद्रण के प्रयोग		
17	Week 2	दैनिक समाचार पत्र का पृष्ठ निर्माण		
18	Week 3	Diwali Vacation		
19	Week 4	पत्रिका की साज-सज्जा और रंग संयोजन		
20	December Week 1	पुनरावृत्ति		

Teaching Plan

Class : B.Sc.3rd year (5th sem.)

Semester – (July – November 2023)

Name of Teacher: Sh. Anand Kumar

Subject: Solid state physics

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Crystal Structure: Crystalline and amorphous solids,		
2	Week 4	liquid crystals, crystal structure, periodicity, lattice and basis,	---	
3	August Week 1	crystal translational vectors and axes, unit cell and primitive Cell, Winger Seitz primitive Cell,	---	
4	Week 2	symmetry operations for a two dimensional crystal, Bravais lattices in two and three dimensions,	---	
5	Week 3	Crystal planes and Miller indices, ,		
6	Week 4	Crystal structures of Sodium Chloride and Diamond		
7	Week 5	Crystal Structure: X-ray diffraction	---	
8	September Week 1	Bragg's Law and experimental X-ray diffraction methods,		
9	Week 2	K-space and reciprocal lattice and its physical significance,	Assignment 1	
10	Week 3	reciprocal lattice vectors, reciprocal lattice to a simple cubic lattice,.	Class Test 1	
11	Week 4	BCC and FCC		

Teaching Plan –

Class: B.Sc. 1st year (1st Sem)

Semester – (July – November 2023)

Name of Teacher: Sh. Anand Kumar

Subject: Mechanics I

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Dynamics of a single particle, , Dynamics of a system of particles		
2	Week 4	Centre of Mass, Conservation of Linear momentum , Conservation of energy.	---	
3	August Week 1	Angular displacement, Angular velocity, Angular acceleration angular momentum. Torque	---	
4	Week 2	Conservation of Angular momentum,	---	
5	Week 3	Motion of Rocket. Frame of reference		
6	Week 4	Frame of reference, Non-inertial frame of reference: Pseudo-forces		
7	Week 5	Rotation of Rigid body, moment of inertia, torque, angular momentum, kinetic energy of rotation	---	
8	September Week 1	Theorems of perpendicular and parallel axes with proof. Moment of inertia of solid sphere		
9	Week 2	Moment of inertia of solid sphere, hollow sphere, spherical shell	Assignment 1	

10	Week 3	Moment of inertia of solid cylinder, hollow cylinder and	Class Test 1	
11	Week 4	solid bar of rectangular cross-section.		
12	October Week 1	Simple harmonic motion.		
13	Week 2	Differential equation of SHM		
14	Week 3	solutions,	Assignment 2	
15	Week 4	Kinetic and Potential Energy	Class Test 2	
16	November Week 1	Total Energy and their time averages		
17	Week 2	Damped and forced harmonic oscillations		
18	Week 3	Diwali Vacation		
19	Week 4	REVISION		

10	Week 3	solid sphere, Calculation of electric field from potential	Class Test 1	
11	Week 4	Capacitance of an isolated spherical conductor.		
12	October Week 1	Parallelplate, spherical and cylindrical condenser		
13	Week 2	Energy per unit volume in electrostatic field, Dielectric medium, Polarisation,		
14	Week 3	Displacement vector, Gauss's Law in dielectrics. Parallel plate capacitor completely filled with dielectric.	Assignment 2	
15	Week 4	Magnetostatics: Biot-Savart's law & its applications- straight conductor,.	Class Test 2	
16	November Week 1	circular coil, solenoid carrying current, Divergence and curl of magnetic field,		
17	Week 2	Magnetic vector potential, Ampere's circuital law.		
18	Week 3	Diwali Vacation		
19	Week 4	Magnetic properties of materials: Magnetic intensity, magnetic induction, permeability, magnetic susceptibility. Brief introduction of dia- , para- and ferro-magnetic materials		

Teaching Plan –

Class: B.sc 3rd year

Semester –5th sem. (July – November 2023)

Name of Teacher:

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Probability, some basics probability consideration, basic ideas of permutations and combinations,		
2	Week 4	Combinations possessing maximum probability, combinations possessing minimum probability, distribution of molecules in two boxes,case with weightage,	---	
3	August Week 1	Phase space , microstates and macrostates, statistical fluctuations, constraints and accessible states,	---	
4	Week 2	Entropy and thermodynamical probability, concept of ensembles and types of ensembles, postulates of statistical physics,	---	
5	Week 3	Phase space and application of one dimension harmonic oscillator and free particle, division of phase space into cells, basic approach in three Statistics,		

6	Week 4	Maxwell's boltzman distribution law, thermodynamic function of an ideal gas, classical entropy expression, Gibbs paradox,		
7	Week 5	Condition of equillibrium between two systems in thermal contact, entropy and probability,	---	
8	September Week 1	Bose Einstein Statistics, thermodynamic relation of a completely degenerate bose gas,bose Einstein condensation,		
9	Week 2	Liquid helium, photon gas,	Assignment 1.	
10	Week 3	Applications of Bose Einstein Statistics to Plancks radiation law, fermi dirac Statistics,	Class test 1.	
11	Week 4	Thermodynamics relation of a completely degenerate fermi gas, fermi gas, fermi energy,		
12	October Week 1	Electron gas in a metal, zero point energy, specific heat of metals,		
13	Week 2	Thermoionic emission, white drawf stars,		
14	Week 3	Chandershekhar mass limit, comparison of three Statistics M-B, B-E and F-D	Assignment 2.	
15	Week 4	Revision	Class test 2.	
16	November Week 1	Revision		
17	Week 2	Revision		
18	Week 3	Diwali Vacation		
19	Week 4	Revision		

Teaching Plan – Academic and Research Communicative

Class: M.sc (P)

Semester –1st semester (July – November 2023)

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

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Introduction of the Academic and Research Communicative		
2	Week 4	Academic and Research Communicative: Concept, definition, importance	---	
3	August Week 1	Foundation of research: meaning, objective, motivation, Utility	---	
4	Week 2	Concept of theory, empiricism, deductive and inductive theory	---	
5	Week 3	Characteristics of scientific method, understanding the language of research -concept, construct, definition, variable		
6	Week 4	Research process current trends in research: interdisciplinary research, criteria of good research		
7	Week 5	Preparing for interviews, CV/Biodata, Group discussion, public speaking, mass communication	---	

8	September Week 1	Effective research communication and its importance, types of academic events: Workshop, seminar, conference, symposium, webinar		
9	Week 2	Research presentation : planning, structure presentation, methods of effective communication and presentation	Assignment 1	
10	Week 3	Research Ethics: definition and importance, conflicts of interest, moral and social values , ethical principles and codes	Class Test 1	
11	Week 4	Research paper: Structure, format and layouts		
12	October Week 1	Project report/Dissertation and thesis: structure and components and layout		
13	Week 2	Literature review and its importance in research, Citation, reference and bibliography		
14	Week 3	Proof readings: meaning and importance , Journals in Geography, impact factor of journals, cross referencing	Assignment 2	
15	Week 4	H-index, i10 index ,G-index , publication indentifiers:ISBN, ISSN and DOI, UGC care list	Class Test 2	
16	November Week 1	Use of ICT tools/techniques for Research		

17	Week 2	Research Database: Scopus,Web of Science, Pubmed, ScienceDirect, ResearchGate, GoogleScholar		
18	Week 3	Diwali Vacation		
19	Week 4	Reference management software like Zotero/Mendeley, software for paper formatting like LaTeX/MS office		
20	December Week 1	Software for detection of Plagiarism Revision		

Lesson Plan – Basics of Computer

Class: B.Sc (Non-Medical).

Semester: 1st Semester (July 2023- November 2023)

Name of Teacher: Sh. Lalit Singh, Computer Instructor

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1.	July Week 3	Introduction and Generations of Computers, Definition of Computer, Block Diagram of Computer, Get familiar with computer parts and use of keyboard and mouse.		
2.	Week 4	Components of Computer, Characteristics of Computers,Limitation of Computer, Human being VS Computer, Change Date and Time Setting.		
3.	Week 5	Classification of Computers-According to Purpose, According to Technology, According to Size and Storage Capacity, Application of Computer in various field, Revision.		
4.	August Week 1	Introduction to Number System, Binary, Decimal, Octal and Hexadecimal and their Inter conversion.		
5.	Week 2	Introduction to Operating System, Types of Operating System, Functions of Operating System,		
6.	Week 3	Features of Windows Operating System, Creating Files and Folders, Managing File and Folders.		
7.	Week 4	Computer Software, Types of Software, Proprietary and Open Source Software.		
8.	Week 5	Basics of Windows:- Basic Components of Windows, Icons, Type of Icons, Taskbar, Activating Windows.		
9.	September Week 1	Input Devices, Mouse, Keyboards, Light Pen, Track Ball, Joystick, MICR, Optical Mark Reader and Optical Character reader, Scanners, Voice system, Web Camera, Title bar		
10.	Week 2	Output Devices, Hard Copy, Output Devices, Line Printers, Character Printers, Chain Printers, Dot-Matrix Printers, Daisy Wheel Printer, Laser Printer, Inkjet Printers, Plotters,	Assignment – I	
11.	Week 3	Soft Copy Device – Monitor, Sound Card and Speakers, Revision.	Class Test - I	
12.	Week4	Memory and Mass Storage Devices, Characteristics of Memory Systems, Memory Hierarchy,		
13.	October Week 1	Types of Primary Memory, RAM and ROM, Secondary and Back-up, Magnetic Disks,		

		Characteristics and Classification of Magnetic Disk, Optical Disk, Magnetic Tape.		
14.	Week 2	Overview of Networking:- Introduction to Network, Type of Network, Network Topologies, Mode of Data Transmission, Transmission Media.		
15.	Week 3	Introduction to Internet, Application of Internet, Hardware and Software requirement for internet,	Assignment – II	
16.	Week 4	Create personal E-mail account, working with E-mail, Application of Intranet, World wide web, Web Browsers. Search engines, Understanding URL, Domain Name,	Class Test – II	
17.	Week 5	Computer Viruses:- Definition, Type of Viruses, Characteristics of virus, antivirus software's, password policies.		
18.	November Week 1	MS Word Basics, Toolbars, Menus, creating, editing, formatting, Auto Spell and Correct, Format Painter, Mail Merge, Header Footer, Macro.		
19.	Week 2	MS Excel Basics, Cell, Creating, editing, working in Worksheets, Formulas, Pivot Table and Chart, sorting , filtering, conditional formatting, validating.		
20.	Week 3	Diwali Vaction		
21.	Week 4	MS PowerPoint Basics, Presentation creating, formatting, charts, animations and sounds, animated pictures and objects.		
22.	December Week 1	Revision of syllabus.		

Lesson Plan – Fundamentals of Information Technology

Class: MA History

Semester: 1st Semester (July 2023- November 2023)

Name of Teacher: Sh. Lalit Singh, Computer Instructor

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1.	July Week 3	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 4	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 5	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.	August Week 1	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.	Week 2	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 3	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.		
7.	Week 4	Memory and Mass Storage Devices, Characteristics of Memory Systems, Memory Hierarchy,		

8.	Week 5	Types of Primary Memory, RAM and ROM,		
9.	September Week 1	Secondary and Back-up, Magnetic Disks, Characteristics and Classification of Magnetic Disk, Optical Disk, Magnetic Tape.		
10.	Week 2	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,	Assignment – I	
11.	Week 3	Create personal E-mail account, working with E-mail, Application of Intranet, World wide web, Web Browsers. Search engines,	Class Test - I	
12.	Week4	Understanding URL, Domain Name, Social Media Tools & Marketing Strategies, E-Commerce: Types, Tools, Electronic Payment System		
13.	October Week 1	Concept of Database, Architecture of Database, Types of Database Introduction to Data Processing, Data Storage, Data Hierarchy,		
14.	Week 2	Methods of Organizing Data Various Data Processing Files, File Organizing,		
15.	Week 3	Various Utilities of Files Various Applications of Commerce, Accounting, Purchase, Healthcare, Mathematics, Humanities Videoconferencing: Tools of Videoconferencing, Types of videoconferencing	Assignment – II	
16.	Week 4	MS Word Basics, Toolbars, Menus, creating, editing, formatting, Auto Spell and Correct,	Class Test – II	
17.	Week 5	Format Painter, Mail Merge, Header Footer, Macro.		
18.	November Week 1	MS Excel Basics, Cell, Creating, editing, working in Worksheets, Formulas, Pivot Table and Chart, sorting , filtering, conditional formatting, validating.		
19.	Week 2	MS PowerPoint Basics, Presentation creating, formatting, charts, animations and sounds, animated pictures and objects.		
20.	Week 3	Diwali Vaction		
21.	Week 4	MS Access Basics, Entering and editing data, Data Operations, Introduction to tables, Data Analysis.		
22.	December Week 1	Revision		

Lesson Plan – Fundamentals of Computer

Class: B.Com.

Semester: 1st Semester (July 2023- November 2023)

Name of Teacher: Sh. Lalit Singh, Computer Instructor

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1.	July Week 3	Introduction and Organization 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 4	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 5	MS-DOS Internal Commands: chdir, cls, path, prompt, label, ver, bol, echo, set. External Commands: scandisk, discopy, diskcomp, format, backup, restore.		
4.	August Week 1	Introduction to Operating System, Types of Operating System,		
5.	Week 2	Functions of Operating System, Features of Windows Operating System, Creating Files and Folders, Managing File and Folders.		
6.	Week 3	Computer Software, Types of Software, Proprietary and Open Source Software.		
7.	Week 4	Basics of Windows:- Basic Components of Windows, Icons, Type of Icons, Taskbar, Activating Windows.		
8.	Week 5	Input Devices, Mouse, Keyboards, Light Pen, Track Ball, Joystick, MICR, Optical Mark Reader and Optical Character reader, Scanners, Voice system, Web Camera, Title bar		
9.	September Week 1	Output Devices, Hard Copy, Output Devices, Line Printers, Character Printers, Chain Printers, Dot-Matrix Printers, Daisy Wheel Printer, Laser Printer, Inkjet Printers, Plotters,		
10.	Week 2	Soft Copy Device – Monitor, Sound Card and Speakers, Revision.	Assignment – I	
11.	Week 3	Memory and Mass Storage Devices, Characteristics of Memory Systems, Memory Hierarchy, Types of Primary Memory, RAM and ROM	Class Test - I	

12.	Week4	Secondary and Back-up, Magnetic Disks, Characteristics and Classification of Magnetic Disk, Optical Disk, Magnetic Tape.		
13.	October Week 1	Overview of Networking:- Introduction to Network, Type of Network, Network Topologies, Mode of Data Transmission, Transmission Media.		
14.	Week 2	Introduction to Internet, Application of Internet, Hardware and Software requirement for internet		
15.	Week 3	Create personal E-mail account, working with E-mail,	Assignment – II	
16.	Week 4	Application of Intranet, World wide web, Web Browsers. Search engines, Understanding URL, Domain Name,	Class Test – II	
17.	Week 5	MS Word Basics, Toolbars, Menus, creating, editing, formatting, Auto Spell and Correct,		
18.	November Week 1	Format Painter, Mail Merge, Header Footer, Macro.		
19.	Week 2	MS Excel Basics, Cell, Creating, editing, working in Worksheets, Formulas,		
20.	Week 3	Diwali Vaction		
21.	Week 4	Pivot Table and Chart, sorting , filtering, conditional formatting, validating.		
22.	December Week 1	Revision of syllabus.		

Teaching Plan –Core Course 1A English

Class: B.A. Semester – I (July–Nov, 2023)

Name of Teacher: Dr. Gunpal Singh

Sr. No.	Month	Topics to be covered	Academic Activity	
1	July Week3	Introduction to syllabus and examination pattern		
2	Week 4	The Homecoming (Unit-1) Text & Exercise	---	
3	August Week 1	Playing the English Gentleman (Unit-1) Text & Exercise	---	
4	Week 2	The Prospects of Democracy in India (Unit-1) Text & Exercise	---	
5	Week 3	Tenses (Unit-3)	---	
6	Week 4	My Grandmother's House (Unit-2) Text & Exercise	--	
7	Week 5	The Village Schoolmaster (Unit-2)	---	
8	September Week 1	Clauses (Unit-3) (Relative or Adjective Clause)	---	
9	Week 2	If Text & Exercise	---	
10	Week 3	Question Tag	Class Test 1	Textual questions (Unit-1)
11	Week 4	Articles & Paragraph Writing	Class Test 2	Textual questions (Unit-2)

12	October Week 1	Voices and Tenses (Revised)	--	
13	Week 2	Modals Verb & Paragraph Writing	Submission of Assignment	Subordinate Clauses- Relative
14	Week 3	Homonyms & Homophones One-word Substitution	Class Test 3	Grammatical Concepts
15	Week 4	Letter Writing (Formal) Email Writing	---	
16	November Week 1	Revision & Problem Solving	---	
17	Week 2	Revision & Problem Solving	Group Discussion	Selected topics to be given on the spot in the classroom
18	Week 3	Diwali Vacation		
19	Week 4	Examination		

Teachings Plan- Geography / Economic Geography Theory

Class:- M.Sc – I

Semester – First (July – November – 2023)

Name:- SANJAY KUMAR

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1.	July Week 3	Discuss of the syllabs and meaning and definition of Economic Geography		
2.	Week 4	Nature , Scope, approaches, Relationship of economic Geography with others		
3.	August Week 1	World Economics – Classifcation, Pattern of developed, developing of the word		
4.	Week 2	Functional classification of economic Activities – primary, secondary, Tertiary and knowledge of quaternary		
5.	Week 3	World production and Distributtion of energy resources- Coal, Petroleum		
6.	Week 4	World production,Distributtion of mineral Resourcs – Iron ore, Bauxide		
7.	Week 5	Network Structure and economic activities, impact of transport on Economic activites		
8.	September Week 1	Classfication of resource based and footloose industries		

9.	Week 2	Theories of industrial Location- Ullman, Alfred weber	Assignment – I	
10.	Week 3	Theories of industrial Location- Ullman, Alfred weber	Class Test - I	
11.	Week4	Theories of industrial Location- Ullman, Alfred weber		
12.	October Week 1	Theories of industrial Location Isard, Iosch		
13.	Week 2	Theories of industrial Location Isard, Iosch		
14.	Week 3	Concept of economic growth, Development, Globalization and pattern of economic development	Assignment – II	
15.	Week 4	Emergence of a new global Economy Transnational-integration and its spatial outcomes	Class Test – II	
16.	November Week 1	Major Regional trade blocks of the world		
17.	Week 2	Major Regional trade blocks of the world		
18.	Week 3	Diwali Vaction		
19.	Week 4	Free trade initiatives GATT,UNCTAD,WTO		
20.	December Week 1	Revision of first and second unit		

Teaching Plan –

Class: B.A 1st sem - 1

Semester – (July – November 2023)

Name of Teacher: Usha Rani

Sr. No.	Month	Topics to be covered GEOGRAPHY OF INDIA	Academic Activity	Remark
1	July Week 3	**INDIA : LOCATION** Location and extent of india India- space and relation Factors responsible for diversity in india Strategic importance on india Geographical division of india		
2	Week 4	The plain of northern india The peninsular plateau The indian desert The costal plains and islands Meaning and major drainage pattern Classification of indian drainage system	---	
3	August Week 1	**DRAINAGE SYSTEM** Evolution of drainage systems in india The indus river system The ganga river system The brahmaputra river system Peninsular rivers	test---	

4	Week 2	**CLIMATE** Elements of weather and climate Factors determining the climate of india The nature of indian monsoon The rhythm of seasons Characterstits of monsoon rainfall Climate regions of india	---	
5	Week 3	**SOILS** Silent features of climate of india Definition and soil profile Classification of indian solis Soil erosion and type of soil erosion Causes and conservation of soil erosion	test	
6	Week 4	**NATURAL VEGETATION** Meaning and types of forests Benefits of forests Problems before indian forests Forest conservation Disaster meaning and types		
8	September Week 1	 Earthquake Causes of floods Drought Landslides Cyclones Tsunami		

9	Week 2	**POPULATON** Size of population and density Distribution and population in india Factors affection distribution population **TEST** Growth of population	Assignment 1	
10	Week 3	**POPULATION COMPOSITOIN** Sex composition Literary rate Lingustic composition Religious composition Occupational compostiton Definition and importance of migration	Class Test 1	
11	Week 4	**MIGRATION** Types of migration Causes of migration Types of settlement Rural settlement patterns Definition and growth of town in india Classification of town		

12	October Week 1	**LAND RESOURCES** Urban growth in the last century Land use categories Land use changes in india Meaning and necessity of irrrigation Irrigations by canals Irrigations by walls and tubewells	test	
13	Week 2	Irrigation by tanks Cropping patterns - rice Wheat and cotton Sugercane and tea Green revolution in india		
14	Week 3	**GREEN REVOLUTION** Effects of green revolution Demerits or problems of green revolution Problems of india agriculture Meaning and definition and types,of minral resources Iron ore	Assignment 2	
15	Week 4	Mice Coal **TEST** Petroleum and natural gas Hydro electricity	Class Test 2	

16	November Week 1	**MANUFACTRING** **INDUSTRIES** Meaning and types of industries Location of industries Iron and steel industry Cotton and textile industries Sugar industries Petrochemical industries Industries regions in india		
17	Week 2	Transport meaning and importance Land transport -Roads Rail transport Water transport Air transport	test	
18	Week 3	**Diwali Vacation**		
19	Week 4	Oil and gas pipelines Communication network International trade Composition of india's import; export Direction of india's foreign trade	test	
20	December Week 1	road and rail transport Revision of important chapter Revision of important chapter Revision of important chapter Revision of important chapter Revision of important chapter	test	

पाठ – योजना

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

सेमेस्टर – **(जुलाई - नवंबर 2023)**

नाम : - मीना, सहायक प्रोफेसर, हिन्दी

क्रम सं.	महीना	प्रकरण	शैक्षणिक गतिविधियाँ	टिप्पणी
1	जुलाई सप्ताह तृतीय	भाषा की परिभाषा भाषा की विशेषताएँ भाषा के विविध रुप		
2	सप्ताह चतुर्थ	क्रिया,विभक्ति,सर्वनाम	---	
3	अगस्त सप्ताह प्रथम	विशेषण,अव्यय,उपसर्ग,प्रत्यय	---	
4	सप्ताह द्वितीय	पर्यायवाची शब्द, विलोम शब्द, वाक्य शुद्धि	---	
5	सप्ताह तृतीय	स्वर की परिभाषा स्वर के प्रकार		
6	सप्ताह चतुर्थ	व्यंजन की परिभाषा व्यंजन के प्रकार		
7	सप्ताह पंचम	वर्णों का उच्चारण स्थान	---	
8	सिंतबर सप्ताह प्रथम	संधि की परिभाषा और भेद		
9	सप्ताह द्वितीय	मुहावरे और लोकोक्तियाँ	असाइनमेंट - 1	

10	सप्ताह तृतीय	समास की परिभाषा और भेद	टैस्ट-1	
11	सप्ताह चतुर्थ	अलंकार की परिभाषा अलंकार के भेद- अनुप्रास,यमक,श्लेष,उपमा,रूपक, उत्प्रेक्षा		
12	अक्टूबर सप्ताह प्रथम	सम्प्रेषण का अर्थ,परिभाषा एंव प्रक्रिया भाषा सम्प्रेषण के चरण- श्रवण,अभिव्यक्ति		
13	सप्ताह द्वितीय	भाषा सम्प्रेषण के चरण- वाचन, लेखन		
14	सप्ताह तृतीय	वाक्य की परिभाषा वाक्य के अंग रचना के आधार पर वाक्य के प्रकार	असाइनमेंट - 2	
15	सप्ताह चतुर्थ	अर्थ के आधार पर वाक्य के प्रकार वाक्य रुपांतरण क्या हैं वाक्य रुपांतरण के नियम	टैस्ट - 2	
16	नवंबर सप्ताह प्रथम	भावार्थ , व्याख्या और आशय लेखन		

17	सप्ताह द्वितीय	पुनरावृति		
18	सप्ताह तृतीय	दिवाली अवकाश		
19	सप्ताह चतुर्थ	पुनरावृति		

पाठ – योजना

कक्षा:- प्रथम वर्ष (प्रथम सत्र)हिन्दी साहित्य का इतिहास

सेमेस्टर – **(जुलाई - नवंबर 2023)**

नाम : - मीना, सहायक प्रोफेसर, हिन्दी

क्रम सं.	महीना	प्रकरण	शैक्षणिक गतिविधियाँ	टिप्पणी
1	जुलाई सप्ताह तृतीय	हिन्दीसाहित्यकेआदिकालकानामकरणएंवकालविभाजन आदिकालीनहिन्दीसाहित्यकीपरिस्थितियाँ आदिकालकीविशेषताएं		
2	सप्ताह चतुर्थ	रासोकाव्यपरंपरा आदिकालीनकाव्यधाराएँ:- सिद्ध,नाथ,जैनसाहित्य	---	
3	अगस्त सप्ताह प्रथम	पृथ्वीराजरासोकीप्रामाणिकताऔरअप्रामाणिकता लघूत्तरात्मकप्रश्न-उत्तर मध्यकालीनभक्तिआंदोलनकीपृष्ठभूमि कबीरदासकासाहित्यिकपरिचय/योगदान	---	

4	सप्ताह द्वितीय	गुरुनानकदेवकासाहित्यिकपरिचय रविदासकासाहित्यिकपरिचय तुलसीदासकासाहित्यिकपरिचय मीराबाईकासाहित्यिकपरिचय	---	
5	सप्ताह तृतीय	भक्तिकालकीविशेषताएँ संतकाव्यधाराकीविशेषताएँ सूफीकाव्यधाराकीविशेषताएँ रामकाव्य धाराकीविशेषताएँ		
6	सप्ताह चतुर्थ	कृष्णकाव्य धाराकीविशेषताएँ लघूत्तरात्मकप्रश्न-उत्तर रीतिकालकीविशेषताएँ रीतिकालकीपरिस्थितियाँ		
7	सप्ताह पंचम	रीतिमुक्तकाव्यधाराकीविशेषताएँ रीतिसिद्धकाव्यधाराकीविशेषताएँ बिहारीसतसईकेकाव्यसौष्ठवकापरिचय रीतिकालकानामकरण	---	
8	सिंतबर सप्ताह प्रथम	रीतिबद्धकाव्यधाराकीविशेषताएँ लघूत्तरात्मकप्रश्न-उत्तर हिन्दीनवजागरणमे1857केस्वतंत्रतासंघर्षकीभूमिका		

9	सप्ताह द्वितीय	भारतेंदुसाहित्यकीप्रमुखविशेषताएँ महावीरप्रसाददद्विवेदीकापरिचय	असाइनमेंट - 1	
10	सप्ताह तृतीय	मैथिलीशरणगुप्तकासाहित्यिकपरिचय द्विवेदीयुगकीविशेषताएँ छायावादीकाव्यकीविशेषताएँ	टैस्ट-1	
11	सप्ताह चतुर्थ	लघूत्तरात्मकप्रश्न-उत्तर प्रयोगवादकाव्यकीविशेषताएँ प्रगतिवादकाव्यकीविशेषताएँ		
12	अक्टूबर सप्ताह प्रथम	द्विवेदीयुगीनप्रमुखगद्यलेखकोंएंवकवियोंकापरिचय हिन्दीउपन्यासकाउद्भवएंवविकास		
13	सप्ताह द्वितीय	हिन्दीनिबंधकाउद्भवएंवविकास नईकविताकापरिचय,प्रमुखविशेषताएँ		

14	सप्ताह तृतीय	द्विवेदीयुगीनराष्ट्रीयकाव्यधाराके फलने- फूलनेमेंमैथिलीशरणगुप्तकीभूमिका	असाइनमेंट - 2	
15	सप्ताह चतुर्थ	लघूत्तरात्मकप्रश्न-उत्तर	टैस्ट - 2	
16	नवंबर सप्ताह प्रथम	हिन्दीकहानीकाउद्भवऔरविकास हिन्दीनाटककाउद्भवएंवविकास		
17	सप्ताह द्वितीय	पुनरावृत्ति		
18	सप्ताह तृतीय	दिवाली अवकाश		
19	सप्ताह चतुर्थ	पुनरावृत्ति		

Teaching Plan –2023-2024

Class: B.Sc. II **Semester: 3rd (July–Nov2023)**

Subject: Chemistry PracticalPaper: 20UCHE303

Name of Teacher: Pardeep Kumar Jangra

Sr. No.	Month	Experiments
1	July Week 3	General discussion on topics of Chemistry Practical.
2	Week 4	**Complexometrictitrations:**DeterminationofMg^{2+} byEDTA.
3	August Week 1	**Complexometrictitrations:**Determinationof Zn^{2+}byEDTA.
4	Week 2	**Gravimetric Analysis:** Quantitative estimations of Cu^{2+} ascopperthiocyanate.
5	Week 3	**Gravimetric Analysis:** Quantitative estimations Ni^{2+}asNi-dimethylglyoxime.
6	Week 4	**Preparationandpurificationthroughcrystallizationordistillationa ndascertainingtheir puritythroughmeltingpointorboilingpoint:** i. m-Dinitrobenzenefromnitrobenzene
7	Week 5	**Preparationandpurificationthroughcrystallizationordistillationa ndascertainingtheir puritythroughmeltingpointorboilingpoint:** ii. Dibenzalacetonefromacetoneandbenzaldehyde
8	Sept. Week 1	**Preparationandpurificationthroughcrystallizationordistillationa ndascertainingtheir puritythroughmeltingpointorboilingpoint:** iii. Aspirinfromsalicylicacid
9	Week 2	**Preparationofsolidderivativesofthefollowingorganic compounds:** Naphthalene, anthracene, acenaphthene**.**
10	Week 3	**Preparationofsolidderivativesofthefollowingorganic compounds:** p-dichlorobenzene,m-dinitrobenzene.
11	Week 4	**Preparationofsolidderivativesofthefollowingorganic compounds:**α-naphthol,β-naphthol, benzyl chloride
12	October Week 1	**Preparationofsolidderivativesofthefollowingorganic compounds:** oxalicacid,succinic acid, benzoic acid,salicylic acid.
13	Week 2	**Preparationofsolidderivativesofthefollowingorganic compounds:** benzamide, urea, acetanilide, benzanilide.

14	Week 3	**Preparationofsolidderivativesofthefollowingorganic compounds:** aspirin, phthalic acid, cinnamic acid.
15	Week 4	**Preparationofsolidderivativesofthefollowingorganic compounds:** p-nitrotoluene,resorcinol, hydroquinone.
16	Nov. Week 1	**Preparationofsolidderivativesofthefollowingorganic compounds:**benzophenone,ethylmethylketone,benzaldehyde
17	Week 2	**Diwali Vacation**
18	Week 3	**Revision**
19	Week 4	**Revision**

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

Class: B.A.

Semester: 3rd Semester (July 2023- November 2023)

Name of Teacher: Sh. Lalit Singh, Computer Instructor

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1.	July Week 3	Introduction of Computers, Definition of Computer, Block Diagram of Computer, Get familiar with computer parts and use of keyboard and mouse.		
2.	Week 4	Components of Computer, Characteristics of Computers, Limitation of Computer.		
3.	Week 5	Human being VS Computer, Change Date and Time Setting.		
4.	August Week 1	Classification of Computers-According to Purpose, According to Technology, According to Size and Storage Capacity, Application of Computer in various field, Revision.		
5.	Week 2	Introduction to Windows Operating System, Types of Operating System, Functions of Operating System, Features of Windows Operating System, Creating Files and Folders, Managing File and Folders.		
6.	Week 3	Computer Software, Types of Software, Proprietary and Open Source Software. Basics of Windows:- Basic Components of Windows, Icons, Type of Icons, Taskbar, Activating Windows.		
7.	Week 4	Input Devices, Mouse, Keyboards, Light Pen, Track Ball, Joystick, MICR, Optical Mark Reader and Optical Character reader, Scanners, Voice system, Web Camera, Title bar, exploring Computer, managing files and folders, copying and moving files and folders.		
8.	Week 5	Output Devices, Hard Copy, Output Devices, Line Printers, Character Printers, Chain Printers, Dot-Matrix Printers, Daisy Wheel Printer, Laser Printer, Inkjet Printers,		
9.	September Week 1	, Plotters, Soft Copy Device – Monitor, Sound Card and Speakers, Revision.		
10.	Week 2	Control Panel:- Display Property, Adding and removing hardware and software, Setting date and time, Screensaver and appearance, using windows accessories.	Assignment – I	

11.	Week 3	Memory and Mass Storage Devices, Characteristics of Memory Systems, Memory Hierarchy, Changing Desktop Wallpaper and also applying Screen Saver, Create a document with formatting.	Class Test - I	
12.	Week4	Types of Primary Memory, RAM and ROM, Secondary and Back-up, Magnetic Disks,		
13.	October Week 1	Characteristics and Classification of Magnetic Disk, Optical Disk, Magnetic Tape. Program to create folder on desktop. Revision and Test.		
14.	Week 2	Computer Viruses:- Definition, Type of Viruses, Characteristics of virus, antivirus software's,		
15.	Week 3	Change desktop icon setting using windows, Program to manage files and folders.	Assignment – II	
16.	Week 4	Overview of Networking:- Introduction to Network, Type of Network,	Class Test – II	
17.	Week 5	Network Topologies, Mode of Data Transmission, Transmission Media.		
18.	November Week 1	Introduction to Internet, Application of Internet, Hardware and Software requirement for internet,		
19.	Week 2	Create personal E-mail account, working with E-mail, setup sleep mode in windows.		
20.	Week 3	Diwali Vaction		
21.	Week 4	Application of Intranet, World wide web, Web Browsers. Search engines, Understanding URL, Domain Name,		
22.	December Week 1	Revision of syllabus.		

Govt. College For Women ,Badhra

Teaching Plan – Differential Equations

Class:BA/B.ScII

Semester:III(July – November 2023-24)

Name of Teacher: Mr Kamal

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Geometrical meaning of a differential equation, Exact differential equation.		
2	Week 4	Integrating factor and equation reducible to Exact differential equation.	---	
3	August Week 1	First order higher degree differential equation solvable for x,y,dy/dx.	---	
4	Week 2	Lagrange's equation, Clairaut's equation, equation reducible to clairaut's, singular solution	---	
5	Week 3	Orthogonal trajectories in cartesian Coordinates and polar coordinates.		
6	Week 4	Self orthogonal family of curve.Linear differential equation with constant coefficients.		
7	Week 5	Solution by variation of parameters. Homogeneous linear differential equation.	---	
8	September Week 1	Equation reducible to homogeneous linear ODEs		
9	Week 2	Partial differential equation formation ,order, degree.	Assignment 1	

10	Week 3	Linear and non-linear PDEs of first order	Class Test 1	
11	Week 4	Complete solution, singular solution, general solution.		
12	October Week 1	Solution of Lagrange's linear equation. Charpit's general method of solution.		
13	Week 2	Jacobi's method		
14	Week 3	Linear PDEs of second and higher orders.	Assignment 2	
15	Week 4	Linear and Non-linear Homogeneous and Non-homogeneous Equations.	Class Test 2	
16	November Week 1	Solution of wave equation , heat equation by separation of variables		
17	Week 2	revision		
18	Week 3	Diwali Vacation		
19	Week 4	revision		

Teaching Plan –

Class: B.sc 2nd year

Semester –3rd (July – November 2023)

Name of Teacher:Ms. Priynka

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Zeroth law of thermodynamics and temp,1st law of thermodynamics and internal energy, conversion of heat into work, various thermodynamical processes,		
2	Week 4	Applications of 1st law, general relation between CP and CV, workdone during isothermal and adiabatic processes, compressibility and expansion coefficient , second law and entropy,	---	
3	August Week 1	Carnot cycle and theorem , entropy change in reversible and irreversible processes, entropy - temp diagrams,3rd law of thermodynamics,	---	

4	Week 2	Attentability of absolute zero, thermodynamics potential, enthalpy, gibbs , helmhotz and internal energy functions, Maxwell's relations and applications : joule Thomson experiment, classicus clapeyron equation, expression for CP-CV, CP/CV ,TDS equation	---	
5	Week 3	Kinetic theory of gases, derivation of Maxwell's law of distribution of velocities and experimental verification,mean free path , brownian motion,		
6	Week 4	Real gases,Vander walls equation, law of equipartition of energy and it's applications to specific heat of gases, monoatomic and diatomic gases,		
7	Week 5	Black body radiation, spectral distribution , concept of energy density, derivation of Plancks law, deduction of wein distribution law,	---	
8	September Week 1	Rayleigh jeans law, Stefan boltzman law and weins displacement law from Plancks law .		

9	Week 2	Electromagnetic nature of light, definition and properties of wave front,huygens principle, division of amplitude and division of wavefront, Young's double slit experiment,	Assignment 1	
10	Week 3	Lloyd mirror and Fresnel biprism,phase change on reflection, stoke’s theorem, interference in thin films: thin and wedge shaped film,film of equal inclination,	Class Test 1	
11	Week 4	Fringes of equal thickness, Newton's rings, Michelson interferometer fringes formation		
12	October Week 1	Fresnel applications , Fresnel half period zones for plane wave, rectilinear propagation of light, theory of zone plate and it's applications,		
13	Week 2	Multiple foci of a zone plate, qualitative discription for Fresnel diffraction pattern of a straight edage,a slit and a wire		
14	Week 3	Frunhoffer diffraction of a single slit, double slit and multiple slits, various kinds of diffraction gray,	Assignment 2	
15	Week 4	Resolving power of grating, Rayleigh criteria of the limit of resolution and resolving power of an optical instruments	Class Test 2	

16	November Week 1	Polarization: double refraction, plane polarized light-production and analysis, circular and optical polarization,		
17	Week 2	Half and Full wave plates, optical activity, specific rotation, optical fibre: construction and working , advantages and applications of optical fibres,		
18	Week 3	Diwali Vacation		
19	Week 4	Critical angle of polarization,modes of propagation, acceptance angle,attuntation		

Teaching Plan – 20UCHE504: Environmental Chemistry (SEC- III)

Class: B.Sc. Final Year

Semester – Fifth Semester (July – November 2023)

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

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	• Introduction to Air Pollution • Major region of atmosphere		
2	Week 4	• Chemical and photochemical reactions in atmosphere • Air pollution: types, sources, particle size and chemical nature	Group Discussion	
3	August Week 1	• Photochemical smog: its constituents and photochemistry • Environmental effects of Ozone	---	
4	Week 2	• Major sources of air pollution	---	
5	Week 3	• Pollution by SO2, CO2 • Pollution by CO, NOx, H2S and other foul-smelling gases		
6	Week 4	• Methods of estimation of estimation of CO, NOx, SOx and control procedures		

7	Week 5	• Effects of air pollution on living organisms and vegetation • Greenhouse effect and Global warming	Group Discussion	
8	September Week 1	• Ozone depletion by oxides of nitrogen, chlorofluorocarbons and halogens		
9	Week 2	• Introduction to water pollution • hydrological cycle • Water resources	Assignment 1	
10	Week 3	• Aquatic ecosystems	Class Test 1	
11	Week 4	• Sources and nature of water pollutants		
12	October Week 1	• Techniques for measuring water pollution		
13	Week 2	• Impacts of water pollution on hydrological and ecosystem		
14	Week 3	• Water purification methods	Assignment 2	
15	Week 4	• Effluent treatment plants (primary, secondary and tertiary treatment)	Class Test 2	

16	November Week 1	• Industrial effluents from the following industries and their treatment: Electroplating, textile, tannery, dairy, petroleum and petrochemicals , agro, fertilizer etc.		
17	Week 2	• Industrial waste management • Incineration of waste • Water treatment and purification (reverse osmosis, electrodialysis, ion exchange)		
18	Week 3	Diwali Vacation		
19	Week 4	• Water quality parameters for waste water • Industrial water and domestic water • Revision	Group Discussion	

Teaching Plan – Geography / Geomorphology Theory

Class: B.A- III

Semester – (July – November 2023) Fifth

Name of Teacher: SANJAY KUMAR

Sr. No.	Month	Topics to be covered	Acasemic Activity	Remark
1.	July Week 3	Discuss of the syllabus and definitions of geomorphology		
2.	Week 4	Discuss of the syllabus and nature of geomorphology		
3.	August Week 1	Discuss the meaning and definitions of geomorphology		
4.	Week 2	Nature and scope of geomorphology		
5.	Week 3	Fundamental concepts of plate tectonics and geologicall time scale		
6.	Week 4	Theory of isotasy – pratt and airy		
7.	Week 5	Theory of isotasy – pratt and airy		
8.	September Week 1	Endogenetic forces – folds and associaled topography		
9.	Week 2	Endogenetic forces – folds and associated topography	Assignment – I	
10.	Week 3	Endogentic force – volcanoes earthgyakes and associated topography	Class Test – I	
11.	Week 4	Exogenetic force:-		

		weathering and mas wasting erosional and depositional landforms associated with of fluvial processes		
12.	October Week 1	Erosional and depositional landforms associated with of Aeolian and gfacial		
13.	Week 2	Cycle of erosion:- Davis and penck		
14.	Week 3	Cycle of erosion:- Davis and penck	Assignment – II	
15.	Week 4	Application of geomorphology and natural hazards landslides, floods	Class Test –II	
16.	November Week 1	Natural hazards earthquakes and tsunamis		
17.	Week 2	Hydrofogy engineesing geofogy constluction activities and regional planning		
18.	Week 3	Diwali Vacation		
19.	Week 4	Revision of first and second unit		
20.	December Week 1	Revision of thirds and fourth unit		

Teaching Plan – Geography / Remote Sensing and GIS Practical

Class: B.A- III

Semester – (July – November 2023) Fifth

Name of Teacher: SANJAY KUMAR

Sr. No.	Month	Topics to be coverd	Academic Activity	Remark
1.	July Week 3	Discuss of the syllabus and working principal of remote sensing		
2.	Week 4	Discuss of the syllabus remote sensing and GIS		
3.	August Week 1	Working principal of remote sensing		
4.	Week 2	Working principal of remote sensing		
5.	Week 3	Working principal of remote sensing		
6.	Week 4	Working principal of remote sensing		
7.	Week 5	Basic characteristics and interpretation of aerial photographs		
8.	September Week 1	Basic characteristics and interpretation of aerial photographs		
9.	Week 2	Identification and interpretation of various features on satellite images	Assignment – I	
10.	Week 3	Identification and interpretation of various features on satellite images	Class Test – I	
11.	Week 4	Identification and interpretation of various features on satellite images		
12.	October Week 1	Identification and interpretation of		

		various features on satellite images		
13.	Week 2	GIS georeferencing digitization layout MAP		
14.	Week 3	GIS georeferncing digitization layout MAP	Assignment – II	
15.	Week 4	GIS georeferncing digitization layout MAP	Class Test – II	
16.	November Week 1	MAP making and choropfeth MAPS		
17.	Week 2	MAP making and choropfeth MAPS		
18.	Week 3	Diwali Vacation		
19.	Week 4	MAP making and choropfeth MAPS		
20.	December Week 1	Completion of practical work		

Teaching Plan – Linear Algebra

Class:BA/B.ScIII

Semester:V (July – November 2023)

Name of Teacher: Mr Kamal

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Vector spaces, Sub spaces, sum and direct sum of sub spaces		
2	Week 4	Linear dependence and linear independence of vectors in vector space, Spanning set, Basis and dimension.	---	
3	August Week 1	Identical spaces, Quotient space,	---	
4	Week 2	Linear transformations, Vector spaces Isomorphism,	---	
5	Week 3	Null space and Range space of linear transformation, Sylvester's law,		
6	Week 4	Algebra of linear transformation.		
7	Week 5	Matrix of a linear transformation relative to ordered basis.	---	
8	September Week 1	Change of basis, dual space		
9	Week 2	Eigen values and Eigen vectors, DIAGONALISATION,	Assignment 1	
10	Week 3	Minimal polynomial, definition of Inner product space examples and norm.	Class Test 1	
11	Week 4	Cauchy Schwarz inequality , triangle inequality		

12	October Week 1	Normed linear space.		
13	Week 2	Orthogonal vectors and orthogonal complements.		
14	Week 3	Orthonormal set, Bessel's inequality,	Assignment 2	
15	Week 4	Gram-Schmidt orthogonalization process	Class Test 2	
16	November Week 1	Linear operators on inner product spaces		
17	Week 2	Revision		
18	Week 3	Diwali Vacation		
19	Week 4	Revision		

Teaching Plan – Linear Algebra

Class:BA/B.ScIII

Semester:V (July – November 2023)

Name of Teacher: Mr Kamal

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Vector spaces, Sub spaces, sum and direct sum of sub spaces		
2	Week 4	Linear dependence and linear independence of vectors in vector space, Spanning set, Basis and dimension.	---	
3	August Week 1	Identical spaces, Quotient space,	---	
4	Week 2	Linear transformations, Vector spaces Isomorphism,	---	
5	Week 3	Null space and Range space of linear transformation, Sylvester's law,		
6	Week 4	Algebra of linear transformation.		
7	Week 5	Matrix of a linear transformation relative to ordered basis.	---	
8	September Week 1	Change of basis, dual space		
9	Week 2	Eigen values and Eigen vectors, DIAGONALISATION,	Assignment 1	
10	Week 3	Minimal polynomial, definition of Inner product space examples and norm.	Class Test 1	
11	Week 4	Cauchy Schwarz inequality , triangle inequality		

12	October Week 1	Normed linear space.		
13	Week 2	Orthogonal vectors and orthogonal complements.		
14	Week 3	Orthonormal set, Bessel's inequality,	Assignment 2	
15	Week 4	Gram-Schmidt orthogonalization process	Class Test 2	
16	November Week 1	Linear operators on inner product spaces		
17	Week 2	Revision		
18	Week 3	Diwali Vacation		
19	Week 4	Revision		

Teaching Plan – 20UCHE 102: States of Matter and Aliphatic Hydrocarbons

20UCHE 101: Atomic Structure and General Organic Chemistry -1

Class: B.Sc. First Year

Semester – First Semester (July – November 2023)

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

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	● Introduction to Kinetic Theory of Gases ● Postulates of kinetic theory of gases and derivation of the kinetic gas equation ● Derivation of real gases from ideal behaviour ● Compressibility factor, Causes of deviation ● Vander Waals equation of state for real gases ● Boyle temperature ● Critical Phenomena, Critical constants and their calculation from Van der Waals equation ● Andrews isotherms of Carbon dioxide.		

2	Week 4	• Maxwell Boltzmann distribution laws of molecular velocities and molecular energies and their importance • Temperature dependence of these distributions • Most probable, average and root mean square velocities • Collision cross section, Collision number, Collision frequency, Collision diameter and mean free path of molecules • Viscosity of gases and effect of temperature and pressure on coefficient of viscosity (qualitative treatment only)	Group Discussion	

3	August Week 1	• Introduction to liquids and solids • Surface tension and it's determination using stalagmometer • Viscosity of a liquid and determination of coefficient of viscosity using Ostwald's viscometer • Effect of temperature on surface tension and coefficient of viscosity of a liquid	Group Discussion	
4	Week 2	• Forms of solids • Symmetry elements • Unit cells, Crystal systems • Bravais lattice types and identification of lattice planes • Law of Crystallography Law of constancy of interfacial angles, law of rational indices, Miller indices	---	

5	Week 3	• X-Ray diffraction by crystals, Bragg's law • Structure of NaCl, KCl and CsCl • Defects in crystals • Glasses and liquid crystals	Group Discussion	

6	Week 4	• Introduction to Alkanes • (Up to 5 carbons) Preparation: Catalytic hydrogenation Wurtz reaction Kolbe's synthesis from Grignard reagent • Reactions: Free radical Substitution: Halogenation • Introduction to cycloalkanes • Nomenclature • Synthesis of cycloalkanes and their derivatives- photochemical (2+2) cycloaddition reactions • Dehalogenation of dihalides • Pyrolysis of calcium or bariumsalts of dicarboxylic acids • Baeyer's strain theory and it's limitations • Theory of strainless rings	Group Discussion	

7	Week 5	• Introduction to Alkenes • (Up to 5 carbons) Preparation: Elimination reactions: Dehydration of alkenes and dehydrohalogenation of alkyl halides(Saytzeff's rule) • Cis alkenes (partial Catalytichydrogenation) and trans alkenes (Birch reduction)	---	
8	September Week 1	• Alkenes: Reactions: cis-addition (alk KMnO4) and trans- addition (bromine) • Addition of HX (Markownikoff's and anti- Markownikoff's addition) • Hydration, Ozonolysis • Oxymercuration-demercuration • Hydroboration-oxidation	Group Discussion	

9	Week 2	• Introduction to Alkynes • (Up to 5 carbons) Preparation: Acetylene from CaC2 and conversion in to higher Alkynes; by dehalogenation of tetra halides and dehydrohalogenation of vicinal- dihalides • Reactions: formation of metal acetylides • Addition of bromine and alkaline KMnO4 • Ozonolysis and oxidation with hot alk. KMnO4	Assignment 1	

10	Week 3	• Introduction to Atomic Structure • Review of Bohr's theory and it's limitations • Dual behaviour of matter and radiation • Debroglie's relation • Heisenberg Uncertainty Principle • Hydrogen atom spectra • Introduction to Quantum mechanics • Time independent Schrodinger equation and meaning of various terms in it • Significance of ψ and $\psi 2$ • Schrodinger equation for hydrogen atom • Radial and angular parts of the hydogenic wave functions(atomic orbitals) and their variation for 1s, 2s, 2p, 3s, 3p and 3d orbitals(only graphic representation)	Class Test 1	

11	Week 4	• Radial and angular nodes and their significance • Radial distribution functions and the concept of the most probable distance with special reference to 1s and 2s atomi orbitals • Significance of quantum numbers • Orbital angular momentum and quantum numbers ml and ms • Shape of s, p and d atomic orbitals, nodal planes • Discovery of spin, spin quantum numbers (s) and magnetic spin quantum numbers (ms)	Group Discussion	

12	October Week 1	• Introduction to Chemical bonding • Review of ionic bonding: General characteristics and energy consideration in ionic bonding • Lattice energy and solvation energy and their importance in the context of stability and solubility of ionic compounds • Statement of Born-Lande equation for calculation of lattice energy • Born-Haber cycle and it's applications • Polarizing power and polarizibility • Fajan's rules, ionic character in covalent compounds • Bond moment, dipole moment and percentage ionic character	Group Discussion	

13	Week 2	● Introduction to Covalent bonding: VB Approach: shape of some inorganic molecules and ions on the basis of VSEPR and hybridization with suitable examples of linear, trigonal planar, square planar, tetrahedral, trigonal bipyramidal and octahedral arrangements	Group Discussion	

14	Week 3	• Introduction to MO Approach: Rules for the LCAO method • Bonding and antibonding MOs and their characteristics for s-s, s-p and p-p combination of atomic orbitals, non bonding combination of orbitals • MO treatment of homonuclear diatomic molecules of 1st and 2nd periods (including idea of s-p mixing) and heteronuclear diatomic molecules such as CO, NO, and NO+ • Comparison of VB and MO approaches	Assignment 2	
15	Week 4	• Introduction to Organic Chemistry: Physical effects, electronic displacements • Inductive effect, electrometric effect • Resonance and hyperconjugation • Cleavage of bonds : Homolysis and heterolysis	Class Test 2	

16	November Week 1	• Structure, shape and reactivity of organic molecules: Nucleophiles and Electrophiles • Reactive intermediates: Carbocations, Carbanions and Free radicals • Strength of organic acids and bases: Comparative study with emphasis on factors affecting pK values • Aromaticity: Benzenoids and Huckel's rule	Group Discussion	

17	Week 2	• Introduction to Stereochemistry: Conformation with respect to ethane, butane and cyclohexane • Interconversion of Wedge by Formula, Newmann, Sawhorse and Fischer representations • Concept of chirality(up to two carbon atoms) • Configuration: Geometrical and Optical isomerism • Enantiomerism, Diastereomerism and Meso Compounds • Threo and erythro, D and L, cis-trans nomenclature • CIP rules: R/S(for up to 2 chiral carbon atoms) • E/Z nomenclature (for up to two C=C systems	Group Discussion	
18	Week 3	Diwali Vacation		
19	Week 4	• Revision of syllabus	Group Discussion	

Teaching Plan –

Class: B.A. III Sem- V

Semester – (July – November 2023) सम्पादन प्रक्रिया और साज-सज्जा

Name of Teacher: डॉ. पूनम

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	सम्पादन का अर्थ, स्वरूप सम्पादन की योग्यता, दायित्व, महत्व		
2	Week 4	सम्पादन कला के सिद्धान्त एवं उद्देश्य		
3	August Week 1	अच्छे समाचार पत्र की विशेषताएँ सम्पादकीय लेखन - तत्व एवं प्रविधि		
4	Week 2	सम्पादकीय का सामाजिक प्रभाव		
5	Week 3	समाचार-पत्र और पत्रिकाओं में सम्पादन		
6	Week 4	साहित्य और कला जगत की		
7	Week 5	सामग्री में सम्पादन की विशेषताएँ		
8	September Week 1	हिन्दी में राष्ट्रीय व प्रांतीय समाचार-पत्रों की सूची		
9	Week 2	सम्पादकीय लेखन, तत्व, प्रविधि	Assignment 1	
10	Week 3	सम्पादन कला के सिद्धान्त	Class Test 1	
11	Week 4	छायाचित्र, कार्टून।		
12	October Week 1	रेखाचित्र का सम्पादन साज- सज्जा का अर्थ		
13	Week 2	स्वरूप एवं अवधारणा।		
14	Week 3	सम्पादन कला के सिद्धान्त	Assignment 2	
15	Week 4	साज - सज्जा का अर्थ, स्वरूप	Class Test 2	
16	November Week 1	मुद्रण के प्रयोग		
17	Week 2	दैनिक समाचार पत्र का पृष्ठ निर्माण		
18	Week 3	Diwali Vacation		
19	Week 4	पत्रिका की साज-सज्जा और रंग संयोजन		
20	December Week 1	पुनरावृत्ति		

Class: B.A. IInd Sem- III **Teaching Plan –**

Semester – (July – November 2023)

Name of Teacher: डॉ० पूनम आधुनिक हिन्दी कविता

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	भारतेन्दु हरिश्चन्द्र का व्यक्तित्व कविताएँ – निज भाषा उन्नति है		
2	Week 4	प्रेम – माधुरी अयोध्यासिंह उपाध्याय हरिऔध जीवन परिचय		
3	August Week 1	कविता – पवनदूती मैथिलीशरण गुप्त – सामान्य परिचय,		
4	Week 2	यशोधरा, भारत – भारती, नर हो मैं यहाँ स्वर्ग का लाया, जयद्रथ वध पुनर्पाठ का जीवन परिचय		
5	Week 3	सखि वसंत, हिमाद्रि तुंग शृंग, बीती विभावरी जाग री		
6	Week 4	सूर्यकान्त त्रिपाठी निराला का जीवन परिचय		
7	Week 5	कविताएँ – विधवा, वीणावादिनी ... जागो फिर एकबार		
8	September Week 1	महादेवी वर्मा का जीवन परिचय कहदे माँ अब क्या देखूँ जो तुझ मेरे हृदय में		
9	Week 2	मैं नीर भरी दुख की बदली	Assignment 1	
10	Week 3	वे मुस्काते फूल – व्याख्या	Class Test 1	
11	Week 4	नागार्जुन का जीवन परिचय		
12	October Week 1	कविताएँ – उनको प्रणाम मुलाकाती-चूड़ियाँ – व्याख्या		
13	Week 2	नरेश मेहता जीवन परिचय		
14	Week 3	नागार्जुन का साहित्यिक परिचय	Assignment 2	
15	Week 4	महादेवी वर्मा की कविता –	Class Test 2	
16	November Week 1	नरेश मेहता की कविताएँ – समय देवता, अरण्यानी सेवापत्नी		
17	Week 2	लघूत्तरात्मक प्रश्न-उत्तर		
18	Week 3	Diwali Vacation		
19	Week 4	दीर्घात्मक प्रश्न-उत्तर		
20	December Week 1	पुनरावृत्ति		

23-24 ODD

Teaching Plan –

Class: BSc / BA IIIrd Year Paper- Statistical Inference-I

Semester – V th **(July – November 2023)**

Name of Teacher: Dr. Ritu

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Parameter and Statistics, Sampling Distribution.		
2	Week 4	Point and Interval Estimation. Unbiasedness	---	
3	August Week 1	Efficiency, Consistency and Sufficiency.	---	
4	Week 2	Method of Maximum Likelihood Estimation.	---	
5	Week 3	Null and alternate Hypothesis Simple and Composite Hypothesis		
6	Week 4	Critical Region, level of significance.		
7	Week 5	one tailed and two-tailed tests.	---	
8	September Week 1	Types of Errors, Neyman Pearson lemma.		
9	Week 2	Chi-square test.	Assignment 1	
10	Week 3	Student's t-distribution	Class Test 1	
11	Week 4	Properties of t-distribution		
12	October Week 1	Snedecor's F-statistics Testing for mean and variance.		
13	Week 2	Related Confidence Intervals.		
14	Week 3	Anova for One-way	Assignment 2	
15	Week 4	ANOVA for two-way	Class Test 2	
16	November Week 1	Revision.		
17	Week 2	Revision		
18	Week 3	Diwali Vacation		
19	Week 4	Examinations.		
20	December Week 1			

Ritu

23-24 ODD

Teaching Plan – Algebra

Class: B.Sc + BA Ist Year

Semester – I (July – November 2023)

Name of Teacher: Dr. Ritu

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Review of Matrices, L.I and L.D. of rows and columns. Eigen values and Eigen vectors		
2	Week 4	Minimal polynomial	---	
3	August Week 1	Cayley Hamilton theorem	---	
4	Week 2	Applications of Matrices to linear equations	---	
5	Week 3	Consistency of linear eqn		
6	Week 4	Unitary and Orthogonal Matrices		
7	Week 5	Bilinear, quadratic forms	---	
8	September Week 1	Relation Between roots and coefficients of general polynomial		
9	Week 2	Common roots, Multiple roots	Assignment 1	
10	Week 3	Transformation of equations	Class Test 1	
11	Week 4	Nature of roots, Descartes's Rule of Sign		
12	October Week 1	Solution of Cubic equation (Cardan's Method)		
13	Week 2	Biquadratic equations		
14	Week 3	Revision	Assignment 2	
15	Week 4	Problem discussion	Class Test 2	
16	November Week 1	Characteristic polynomial (Revision)		
17	Week 2	Test.		
18	Week 3	Diwali Vacation		
19	Week 4	Examination.		
20	December Week 1			

2324 ODD Sem

Teaching Plan –

Class: B.A.I (Micro Economics) (Semester-I)

Semester – **(July – November 2023)**

Name of Teacher: Parangjeet Saikia

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Nature of Economics		
2	Week 4	Scope of Economics	---	
3	August Week 1	Problem of Scarcity and choice	---	
4	Week 2	Economic organisation	---	
5	Week 3	Micro Economics		
6	Week 4	Macro Economics		
7	Week 5	Law of Demand	---	
8	September Week 1	Elasticity of Demand		
9	Week 2	Cardinal Utility	Assignment 1	
10	Week 3	Ordinal utility	Class Test 1	
11	Week 4	Firm as Agent		
12	October Week 1	Producing Function		
13	Week 2	Laws of Production		
14	Week 3	Isoquant Curves	Assignment 2	
15	Week 4	Producer's Equilibrium	Class Test 2	
16	November Week 1:	Concept of Supply		
17	Week 2	Law of Supply		
18	Week 3	Diwali Vacation		
19	Week 4	Theory of Costs		
20	December Week 1	Concept of Revenue		

Teaching Plan –

Class: B.A. II (Macro Economics)

Semester – (July – November 2023) (Semester – III)

Name of Teacher: Paramjit Singh

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Introduction to Macro Economics		
2	Week 4	Basic Concepts of Income	---	
3	August Week 1	Measurement of National Income	---	
4	Week 2	Introduction of CSO	---	
5	Week 3	Measurement of National		
6	Week 4	Classical Theory of Income		
7	Week 5	Theory of Employment	---	
8	September Week 1	Say's Law of Market		
9	Week 2	Keynesian Theory of Income	Assignment 1	
10	Week 3	Employment Theory	Class Test 1	
11	Week 4	Consumption Function		
12	October Week 1	Investment Function		
13	Week 2	Marginal Efficiency of Captial		
14	Week 3		Assignment 2	
15	Week 4	Meaning of Multiplier	Class Test 2	
16	November Week 1	Working of Multiplier		
17	Week 2	Circular flow of National Income		
18	Week 3	Diwali Vacation		
19	Week 4	National Income determination		
20	December Week 1	in an open Economy		

Teaching Plan –

Class: B.A. III (Indian Economy)

Semester – (July – November 2023) Semester - V

Name of Teacher: Parayeer Sanjay

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Nature of Indian Economy		
2	Week 4	Economic Planning in India		
3	August Week 1	Natural Income of India	---	
4	Week 2	Agriculture in India	---	
5	Week 3	Land Reforms		
6	Week 4	Agricultural Marketing		
7	Week 5	Agricultural Policy	---	
8	September Week 1	Sustainable Agriculture Growth		
9	Week 2	Agricultural Finance	Assignment 1	
10	Week 3	Agricultural Price Policy	Class Test 1	
11	Week 4	Industrial Growth		
12	October Week 1	Industrial Growth		
13	Week 2	Industrial Policy		
14	Week 3	Service Sector in India	Assignment 2	
15	Week 4	Monetary Policy of India	Class Test 2	
16	November Week 1			
17	Week 2	Money Market in India		
18	Week 3	Diwali Vacation		
19	Week 4	Capital Market in India		
20	December Week 1	Banking Sector Reforms		

Teaching Plan –

Class: Bcom-I (Business Economics)

Semester – (July – November 2023) Semester-I

Name of Teacher: Paramjeet Singh

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Basic Problem of Economics		
2	Week 4	Law of Demand	---	
3	August Week 1	Working of Price Mechanism	---	
4	Week 2	Elasticity of Demand	---	
5	Week 3	Concept of Supply		
6	Week 4	Elasticity of Supply		
7	Week 5	Production function	---	
8	September Week 1	Isoquant Curves Optimum factor Combination		
9	Week 2	Theory of Costs.	Assignment 1	
10	Week 3	Cardinal utility	Class Test 1	
11	Week 4	Ordinal Utility		
12	October Week 1	Market Classifications and structure		
13	Week 2	Perfect Competition		
14	Week 3	Equilibrium of Firm	Assignment 2	
15	Week 4	Under Perfect Competition	Class Test 2	
16	November Week 1	Monopoly		
17	Week 2	Equilibrium of Monopoly		
18	Week 3	Diwali Vacation		
19	Week 4	Monopolistic Competition		
20	December Week 1	Oligopoly		

Lesson Plan 2023-2024 (Odd Semester)

Class: B.Sc. III Semester – V

Session: 2023-2024 (July - November 2023) Name of Teacher: Dr. Meena Kumari

20UCHE504: ENVIRONMENTAL CHEMISTRY (SEC-III)

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	• Introduction to Energy & Environment		
2	Week 4 & 5	• Sources of energy: Coal, petrol and natural gas	---	
3	**August** Week 1	• Sources of energy: Nuclear Fusion/Fission.	---	
4	Week 2	• Sources of energy: Solar energy	---	
5	Week 3	• Sources of energy: Hydrogen energy		
6	Week 4	• Sources of energy: geothermal energy		
7	Week 5	• Sources of energy: Tidal energy	---	
8	**September** Week 1& 2	• Sources of energy: Hydel energy		
9	Week 3	• Nuclear Pollution: Disposal of nuclear waste, nuclear disaster and its management.	Assignment 1	
10	Week 4	• Question -answers from Section -III of Environmental Chemistry (Energy & Environment)		
11	Week 5	• Students doubts	Class Test 1	
12	**October** Week 1	• Introduction to Biocatalysis		

Lesson Plan 2023-2024 (Odd Semester)

13	Week 2	• Biocatalysis, examples and Importance		
14	Week 3	• Green Chemistry and its principles	Assignment 2	
15	Week 4& 5	• Importance of biocatalysis in "Green Chemistry"		
16	**November** Week 1	• Importance of biocatalysis in "Industrial Chemistry"	Class Test 2	
17	Week 2	• Revision		
18	Week 3	Diwali Vacation Diwali break -9-16 November		
19	Week 4& 5	• Revision		Exams will start

Lesson Plan 2023-2024 (Odd Semester)

Class: B.Sc. III **Semester – V**

Session: 2023-2024 (July - November 2023) **Name of Teacher: Dr. Meena Kumari**

20UCHE501: CHEMISTRY OF HETEROCYCLIC COMPOUNDS (Theory)
20UCHE502: ORGANIC SPECTROSCOPY-I (Theory)

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	**July** Week 3	• *UV Spectroscopy:* Ultraviolet (UV) absorption spectroscopy-absorption laws (Beer-Lambert law), molar absorptivity, presentation and analysis of UV spectra, • types of electronic transitions,		
2	Week 4 & 5	• effect of conjugation • concept of chromophore and auxochrome. • Bathochromic, hypochromic, hyperchromic and hypsochromic shifts. • UV spectra of conjugated enes and enones.	---	
3	**August** Week 1	• *IR Spectroscopy:* Infra Red (IR) absorption spectroscopy- molecular vibrations, Hook's Law, • selection rules, intensity and position of IR bands	---	
4	Week 2	• measurement of IR spectrum, • finger print region, • characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds.	---	

Lesson Plan 2023-2024 (Odd Semester)

5	Week 3	• NMR Spectroscopy-I • Principle of nuclear magnetic resonance, the PMR spectrum, number of signals, peak areas, • equivalent and nonequivalent protons positions of signals		
6	Week 4	• chemical shift, shielding and deshielding of protons • proton counting • splitting of signals		
7	Week 5	• coupling constants, • magnetic equivalence of protons.	---	
8	**September** Week 1& 2	• Problems of the students from Section-I, section-II and section-III of organic Spectroscopy -I		
9	Week 3	• NMR Spectroscopy-II • Discussion of PMR spectra of the molecules: ethyl bromide, npropyl bromide, isopropyl bromide, 1,1-dibromoethane, 1,1,2-tribromoethane, ethanol, acetaldehyde, ethyl acetate, toluene, benzaldehyde and acetophenone.	Assignment 1	
10	Week 4	• Simple problems on PMR spectroscopy for structure determination of organic compounds.	Class Test 1	

Lesson Plan 2023-2024 (Odd Semester)

11	Week 5	• **Nomenclature of Heterocyclic compounds:** Nomenclature of heterocyclic compounds- Trivial, Hantzch-Widman, Replacement. Nomenclature of mono and polycyclic compounds. • Polarity, tautomerism, aromaticity, electrophilic substitution.		
12	**October** Week 1	• **Three Membered Heterocyclic Compounds :** Synthesis and reactions of aziridines, oxiranes and thiiranes		
13	Week 2	• **Four Membered Heterocyclic Compounds :** Synthesis and reactions of azetidines, oxetanes and thietanes.		
14	Week 3	• **Five membered heterocyclic compounds:** ntroduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan and thiophene. • Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution	Assignment 2	
15	Week 4& 5	• Comparative study of three-membered , four-membered and five-membered heterocyclic compounds • Problems of the students from Section-I and section-II of heterocyclic compounds	Class Test 2	

Lesson Plan 2023-2024 (Odd Semester)

16	November Week 1	• *Six membered heterocyclic compounds:* Introduction: Molecular orbital picture and aromatic characteristics of pyridine, Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine derivatives. • Comparison of basicity of pyridine, piperidine and pyrrole.		
17	Week 2	• *Fused heterocyclic compounds:* Introduction of condensed five- and six membered heterocycles. Preparation and reactions of quinolene and isoquinolene with special reference to Fischer-Indole synthesis, Skraups synthesis and Bischler-Napieralski synthesis. Mechanism of electrophilic substitution reactions of quinolene and isoquinolene • Revision		
18	Week 3	Diwali Vacation Diwali break -9-16 November		
19	Week 4& 5	Revision		Exams will start

Teaching Plan – Chemistry practical

Class: B.Sc. IIISession 2023-2024

Semester:5th (July – November 2023)Name of Teacher: Dr. Meena Kumari

S. No.	Month	Topics to be covered	Academic Activity	Remarks
1	July Week 3	• Introduction to chemistry practical syllabus, marking pattern • About precautions to be taken in lab, common equipments to be used, name of various glass wares and common instructions for practicals		
2	Week 4	• Introduction to students about Inorganic preparation • To prepare a pure sample of tetrammine copper (II) sulphate. • File preparation		
3	August Week 1	• To prepare a pure sample of acetylacetonate complexes of Cu2+/Fe3+. • File preparation		
4	Week 2	• File checking • Preparation of tetramminecarbonatocobalt(III) nitrate. • File preparation		
5	Week 3	• Preparation of potassium tri(oxalato) ferrate(III). • File preparation		
6	Week 4	• File checking • Preparation of viva- voce from inorganic section.	Viva-voce mock test 1	
7	Week 5	• Conductometric titrations of strong acjd versus strong base. • File preparation		

Teaching Plan – Chemistry practical

Class: B.Sc. IIISession 2023-2024

Semester:5th (July – November 2023)Name of Teacher: Dr. Meena Kanwari

S. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	• Introduction to chemistry practical syllabus, marking pattern • About precautions to be taken in lab, common equipments to be used, name of various glass wares and common instructions for practicals		
2	Week 4	• Introduction to students about Inorganic preparation • To prepare a pure sample of tetrammine copper (II) sulphate. • File preparation		
3	August Week 1	• To prepare a pure sample of acetylacetonate complexes of Cu^{2+}/Fe^{3+}. • File preparation		
4	Week 2	• File checking • Preparation of tetramminecarbonatocobalt(III) nitrate. • File preparation		
5	Week 3	• Preparation of potassium tri(oxalato) ferrate(III). • File preparation		
6	Week 4	• File checking • Preparation of viva- voce from inorganic section.	Viva-voce mock test 1	
7	Week 5	• Conductometric titrations of strong acid versus strong base. • File preparation		

8	September Week 1	• Conductometric titrations of weak acid versus strong base. • File preparation		
9	Week 2	• File checking • Preparation of viva- voce from conductometric titrations.		
10	Week 3	• Determination of cell constant. • File preparation		
11	Week 4	• Determination of equivalent conductance, degree of dissociation and dissociation constant of a weak acid. • File preparation		
12	October Week 1	• File checking • Preparation of viva- voce from conductance.		
13	Week 2	• Introduction about systematic identification of organic compounds	Viva-voce mock test 2	
14	Week 3	• Detection of extra elements (N, S and halogens). • File preparation		
15	Week 4	• Qualitative analysis of unknown organic compounds containing following functional groups: • Alcohol, phenol, carboxylic acid and carbonyl groups		
16	November Week 1	• Nitro, ammine and amide group • File preparation		
17	Week 2	• Preparation of viva- voce from organic section • File checking		
18	Week 3	• Diwali Vacation		
19	Week 4	• Revision • Students doubts		

Teaching Plan –

Class: B.A I History

Semester – **(July – November 2023)**

Name of Teacher: Anita

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Reconstructing and Interpreting Ancient India		
2	Week 4	Pre Historic Age	---	
3	August Week 1	Harappa Culture	---	
4	Week 2	Vedic Culture	---	
5	Week 3	The Vedic Age		
6	Week 4	Territorial States		
7	Week 5	Rise of Magadha	---	
8	September Week 1	Achamedian and Masedonian Invasions		
9	Week 2	Jainism	Assignment 1	
10	Week 3	Buddhism	Class Test 1	
11	Week 4	Mauryan Empire		
12	October Week 1	Mauryan Empire		
13	Week 2	Shunga Dynasty		
14	Week 3	Post Mauryan Period: Kusharas and Satvaharas	Assignment 2	
15	Week 4	Sargan Age	Class Test 2	
16	November Week 1	Shakas and Parthians		
17	Week 2	Shakas and Parthians		
18	Week 3	Diwali Vacation		
19	Week 4	Revision		
20	December Week 1	Revision		

Teaching Plan –

Class: B.A II History

Semester – **(July – November 2023)**

Name of Teacher: Ankita

Sr. No.	Month	Topics to be covered	Academic Activity	Remark
1	July Week 3	Foundation and consolidation of Delhi Sultanate		
2	Week 4	Iqta and Nobility System	---	
3	August Week 1	Military and Administration under Khiljis and Tughlaqs	---	
4	Week 2	Economic Reforms under Khiljis and Tughlaqs	---	
5	Week 3	Bhakti Movement		
6	Week 4	Sufi Movement		
7	Week 5	Provincial Kingdoms	---	
8	September Week 1	Vijayanagar		
9	Week 2	Second Afghan Empire	Assignment 1	
10	Week 3	Emergence : Mughal Empire	Class Test 1	
11	Week 4	Consolidation : Mughal Empire		
12	October Week 1	Resistance of Local Powers : Delhi Sultanate		
13	Week 2	Resistance of Local Powers : Mughal Empire		
14	Week 3	Administrative Structure : Mughal Empire	Assignment 2	
15	Week 4	Ad. structure : Mughal Empire	Class Test 2	
16	November Week 1	Administrative Structure: Mughal Empire		
17	Week 2	Revision		
18	Week 3	Diwali Vacation		
19	Week 4	Revision		
20	December Week 1	Revision		