



Government Dr. Shyama Prasad Mukherjee Science & Commerce College

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Affiliated to Barkatullah University, Bhopal (M.P.)

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TIME-TABLE

2021-22

TIME TABLE 2021-22

w.e.f. 18/11/2021

ROOMS	09:45am to 10:20am	10:20am to 11:00am	11:00am to 11:45am	11:45am to 12:20pm	12:20pm to 01:00pm	01:00pm to 01:40pm	01:40pm to 02:20pm	02:20pm to 03:00pm	03:00pm to 03:00pm	
F-1	O Elective	MCORNER Phy Elec. Elective	BA 2nd Year History	BA 2nd Year FC	O Elective	B.SC. 1st Year Physics	B.SC. 1st Year Maths Major	B.SC. 1st Year Maths Elective	Mon, Tue	PRACTICAL WORK Phy (2d), History (2d), Chemistry (2d), Zoology (2d), Phy (2nd), Botany (2nd), Chemistry (2d), Zoology (2nd), Phy (2nd), Botany (2nd), Chemistry (2nd), Zoology (2d)
T-1	O Elective	B.COM. 1st Year FC	B.COM. 1st Year Elective Busi. Maths	B.COM. 1st Year Major	B.COM. 1st Year Minor	BA 2nd Year Sociology	BA 2nd Year Economics	BA 2nd Year Political Science	Wed, Thurs	
F-2	MA 2nd SEM History	MA 2nd SEM History	MA 2nd SEM History	B.SC. 1st Year FC	B.SC. 1st Year Chemistry	B.SC. 1st Year Botany Major	B.SC. 1st Year Zoology Major	B.SC. O Elective	Fri, Sat	
Conference Room	MA 1st Sem Sociology	MA 1st Sem Sociology	MA 1st Sem Sociology	MA 1st Sem Sociology	MA 2nd Sem Sociology	MA 2nd Sem Sociology	BA (Arts) O Elective			
Geography Lab	MA 1st Sem History	MA 1st Sem History	MA 1st Sem History	BA 1st Year Geography	B.A. 1st Year Geography					Geography Practical
T-2	BA 1st Year History	BA 1st Year FC	BA 1st Year Economics	BA 1st Year Zoology	BA 1st Year Political Science	B.SC. 1st Year Maths	B.SC. 1st Year FC	B.SC. 1st Year Chemistry		
T-3	B.COM. 2nd Year Economics	B.COM. 2nd Year FC	B.COM. 2nd Year	B.COM. 2nd Year MGTCA	B.SC. 2nd Year Maths	B.SC. 2nd Year FC	B.SC. 2nd Year Chemistry	B.SC. 2nd Year Physics		
T-4	B.COM. 2nd Year	B.COM. 2nd Year Economics	B.COM. 2nd Year FC	B.COM. 2nd Year	BA 2nd Year Sociology	BA 2nd Year FC	BA 2nd Year History	BA 2nd Year Economics		BA 2nd Year Political Science
Virtual Class	M.COM. 2nd Sem	M.COM. 2nd Sem	M.COM. 2nd Sem	M.COM. 2nd Sem	B.SC. 2nd Year Physics	M.SC. 2nd SEM Maths	M.SC. 2nd SEM Maths	M.SC. 2nd SEM Maths	M.SC. 2nd SEM Maths	M.SC. 2nd SEM Maths
Biotech Lab			B.SC. 1st Year Biotech	B.SC. 1st Year Biotech						B.Sc. Practical 1st, 2nd, 3rd Year
Computer Lab	B.COM. 2nd Year Computer App.	B.COM. 2nd Year Computer App.	B.COM. 1st Year Computer App.	B.COM. CA PRACTICAL	B.COM. 2nd Year (B.COM. 2nd Year) B.COM. (2nd Year)	Mon, Tue, Wed, Thurs, Fri, Sat	B.SC. 2nd Year CB	B.SC. 1st Year CB	B.SC. 1st Year CB	Computer Science Practical 1st, 2nd, 3rd Year
Botany Lab					B.Sc. 1st Year Botany			B.Sc. 1st Year Botany		
Zoology Lab					B.Sc. 1st Year Zoology			B.Sc. 1st Year Zoology		
HOME SCIENCE LAB			PRACTICAL BHS: 1st Year		BHS: 1st Year FC	BHS: 1st Year Major	BHS: 1st Year Minor	BHS: 1st Year Elective		
HOME SCIENCE ROOM				BHS: 2nd Year PAPER I	BHS: 2nd Year PAPER II	BHS: 2nd Year FC	BHS: 2nd Year PAPER III			PRACTICAL BHS: 2nd Year
HOME SCIENCE ROOM				BHS: 2nd Year PAPER I	BHS: 2nd Year PAPER II	BHS: 2nd Year PAPER III	BHS: 2nd Year FC			PRACTICAL BHS: 2nd Year
Chemistry Smart Class Room			M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM		
Botany Smart Class Room			M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM		
Zoology Smart Class Room			M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM		
Maths Smart Class Room			M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM	M.Sc. 1st SEM		

Note: ऑनलाइन (Online) एवं ऑफलाइन (Offline) कक्षाएं इसी समय सारणी में अंगूठा करें।

Dr. Kiran Jain, Dr. Anita Mandloi, Dr. Asha Sharma, Dr. Meenakshi Saxena, Dr. Meenakshi Tandekar, Dr. Shivani Shukya

Sign of Principal, PRINCIPAL, Govt. Dr. Shyama Prasad Murherjee Science & Commerce P.G. College

Handwritten notes and signatures on the right margin, including dates like 17/11/21 and 17/11/2021, and names like Dr. Kiran Jain, Dr. Anita Mandloi, Dr. Asha Sharma, Dr. Meenakshi Saxena, Dr. Meenakshi Tandekar, Dr. Shivani Shukya.



ACADEMIC CALENDER 2021-22

अकादमिक कैलेंडर सत्र 2021-22 (सेमेस्टर कक्षाओं के लिए प्रभावशील)

अकादमिक कार्य	स्नातकोत्तर प्रथम/तृतीय	स्नातकोत्तर द्वितीय/चतुर्थ
आरंभिक कक्षाएँ	01 सितम्बर 2021	21 जनवरी 2022
शैक्षणिक कार्य	01 सितम्बर 2021 से 15 दिसम्बर 2021	21 जनवरी 2022 से 30 अप्रैल 2022
सी.सी. ई. कार्य	नवम्बर द्वितीय सप्ताह	मार्च द्वितीय सप्ताह
प्रायोगिक परीक्षाएँ	15 नवम्बर 2021 से 30 नवम्बर 2021 के मध्य	01 अप्रैल से 15 अप्रैल 2022 के मध्य
परीक्षा पूर्व तैयारी अवकाश	06 दिसम्बर 2021 से 15 दिसम्बर 2021	21 अप्रैल से 30 अप्रैल 2022
सेमेस्टर एवं ए.टी.के.टी. परीक्षा	16 दिसम्बर 2021 से 11 जनवरी 2022	01 मई 2022 से 21 मई 2022
सेमेस्टर अंतराल (ब्रेक) विद्यार्थियों के लिए	12 जनवरी 2022 से 20 जनवरी 2022	22 मई से 30 जून 2022 (कुल 40 दिवस)
परीक्षा परिणामों की घोषणा	31 जनवरी 2022 तक	30 जून 2022 तक

- उत्सव कार्यक्रम : अक्टूबर (प्रथम सप्ताह) 2021
- छात्रसंघ गठन : अक्टूबर - 2021
- खेलकूद/एन.सी.सी./एन.एस.एस./युवा उत्सव/दीक्षांत : माह नवम्बर तक पूर्ण कर ली जाएँ। समारोह एवं अन्य गतिविधियाँ।
- दीपावली अवकाश : दिनांक 01 नवम्बर से 06 नवम्बर 2021 तक (05 कार्य दिवस)
- रत्नेह सम्मेलन/वार्षिकोत्सव/पुरस्कार वितरण : मार्च 2022 द्वितीय सप्ताह (अधिकतम 03 कार्य दिवस)
वार्षिक पत्रिका का प्रकाशन एवं विमोचन

टीप :-

- (1) अपरिहार्य कारणवश शैक्षणिक कार्य निर्धारित मानक दिवसों से कम होने की दशा में, महाविद्यालय/विधि स्तर पर शैक्षणिक कालखण्डों की अवधि में आवश्यकतानुसार वृद्धि कर शैक्षणिक दिवसों की पूर्ति की जाये ताकि अकादमिक कैलेंडर का पालन समयानुसार सुनिश्चित किया जा सके।
- (2) स्नातकोत्तर तृतीय सेमेस्टर में प्रवेश हेतु नवीनीकरण प्रक्रिया को अपनाते हुए शैक्षणिक कार्य प्रारंभकरना सुनिश्चित किया जाये।
- (3) शैक्षणिक कार्य दिवस कम होने पर अतिरिक्त कक्षाएं संचालित कर पाठ्यक्रम पूर्ण किया जाये।



सत्र 2021-22 अकादमिक कैलेंडर
(वार्षिक पद्धति-स्नातक प्रथम/द्वितीय/तृतीय वर्ष कक्षाओं हेतु प्रभावशील)

स.क्र	विवरण	तिथि
1.	प्रवेश प्रारंभ	01 अगस्त 2021
2.	शिक्षण कार्य प्रारंभ	01 सितम्बर 2021
3.	प्रवेश उत्सव कार्यक्रम	अक्टूबर 2021
छात्र संघ/सांस्कृतिक, साहित्यिक/ खेलकूद एवं अन्य महाविद्यालयीन गतिविधियाँ		
1.	छात्रसंघ गठन	अक्टूबर 2021
2.	विश्वविद्यालयीन/महाविद्यालयीन/जिला/संभाग/राज्य स्तरीय प्रतिस्पर्धाएं	ये सभी गतिविधियाँ नवम्बर 2021 तक पूर्ण कर ली जाएं।
3.	खेलकूद/एन.सी.सी./एन.एस.एस/युवा उत्सव/दीक्षान्त समारोह एवं अन्य गतिविधियाँ	
4.	वार्षिक स्नेह सम्मेलन/वार्षिक पत्रिका का प्रकाशन एवं दिमोचन	मार्च प्रथम सप्ताह 2022 (अधिकतम 04 कार्य दिवस)
आंतरिक मूल्यांकन/वार्षिक परीक्षाएँ		
1.	पूरक परीक्षा प्रारंभ	16.10.2021 से 23.10.2021
2.	पूरक परीक्षा परिणाम की घोषणा	30.10.2021
3.	तिमाही परीक्षा आंतरिक मूल्यांकन	नवम्बर के अंतिम सप्ताह 2021
4.	छ-माही आंतरिक मूल्यांकन	फरवरी के अंतिम सप्ताह 2022
5.	सैद्धान्तिक परीक्षा कार्यक्रम की विस्तृत घोषणा	21 मार्च 2022
6.	सभी स्नातक कक्षाओं की प्रायोगिक परीक्षाओं की तिथि	01 मार्च से 25 मार्च 2022
7.	परीक्षा पूर्व तैयारी अवकाश	26 मार्च से 31 मार्च 2022
8.	वार्षिक परीक्षा प्रारंभ	01 अप्रैल 2022 से 21 मई 2022
9.	सभी परीक्षा परिणाम घोषित होने की तिथि	30 जून 2022
अवकाश		
1.	दीपावली	दिनांक 01 नवम्बर से 06 नवम्बर 2021 तक (05 कार्य दिवस)
2.	ग्रीष्म अवकाश (शिक्षकों हेतु)	22.05.2022 से 30.06.2022 (कुल 40 दिवस)

- नोट :-1. स्नातक द्वितीय/तृतीय वर्ष में प्रवेश नवीनीकरण की प्रक्रिया को अपनाते हुए शैक्षणिक कार्य प्रारंभ किया जाए।
2. कोरोना वायरस महामारी के चलते शैक्षणिक कार्य दिवस निर्धारित मानक से कम हो जाने के कारण महाविद्यालय/ विश्वविद्यालय स्तर पर शैक्षणिक काल खण्डों की अवधि में आवश्यकता अनुसार वृद्धि कर शैक्षणिक कार्य दिवसों की पूर्ति की जाये ताकि अकादमिक कैलेंडर का पालन समयानुसार हो जाये। साथ ही साथ ऑनलाईन अतिरिक्त कक्षाएँ संचालित कर पाठ्यक्रम पूर्ण किया जाए।



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TEACHING PLAN

2021-22

TEACHING PLAN

SESSION: 2021-22

NAME OF TEACHER- DR. NEETUPRIYA LACHORIA

SUBJECT- CHEMISTRY

CLASS - B.Sc. I Year (Minor) NEP

PAPER- Analytical Chemistry (2T).

UNIT	TOPIC TO BE COVERED	NO. OF PERIOD
2.	<p>Basic Analytical Chemistry: Sampling, accuracy, Precision, errors, Presentation of experimental data & results. Mean, mean deviation, median, standard deviation. Calculations used in analytical chemistry. Some important units of measurement.</p> <p><u>Solution and their concentrations</u> - Normality, molarity and molality.</p> <p>Chemical stoichiometry: Empirical and molecular formulas. Stoichiometric Calculations.</p>	(10)
6.	<p>Spectral Techniques of Analysis:</p> <p>Basis of absorption Spectroscopy: Electromagnetic radiation, absorbance, absorptivity. Lambert-Beer Law and its limitations.</p> <p>constitution and working of Photometer, Spectrometer, Colorimeter.</p> <p>Ultraviolet Absorption Spectroscopy: Presentation and analysis of UV spectra. Electronic transitions. Effect of conjugation. Chromophore and auxochrome. Shifts, UV spectra of Conjugated Polyenes.</p> <p>Infra-Red Absorption Spectroscopy: Molecular vibrations, Hooke's law, selection rules, finger point region, characteristic absorption of various functional groups and interpretation of IR spectra.</p>	(10)

TEACHING PLAN

SESSION: 2021-22

NAME OF TEACHER- DR. NEETUPRIYA LACHORIA

SUBJECT- CHEMISTRY

CLASS - B.Sc.-I Year (Major). (NEP)

PAPER- Fundamentals of chemistry (P-I) 1T.

UNIT	TOPIC TO BE COVERED	NO. OF PERIOD
1.	(a) Chemical techniques in ancient India. (b) Contribution of ancient Indian scientists in chemistry. <u>Atomic Structure</u> : Bohr's theory, De Broglie equation, Heisenberg's uncertainty principle, Quantum numbers, Pauli's exclusion principle, Aufbau principle, Hund's rule. Electronic configuration of elements. Anomalous electronic configuration.	06
2.	S & P Block elements in Periodic table: Effective atomic number, atomic radii, ionic and crystal radii, covalent radii, ionisation energies, electro-negativity, Hybridization.	06
3.	Chemical Bonding: (i) Ionic Bonding, Lattice & solvation energy. Born-Landé equation, Madelung constant, Born-Haber cycle. Polarizing power and polarizability. Fajan's rule. (ii) Covalent Bonding: Valence bond theory. Hybridization - concept and types (sp , sp^2 , sp^3 , dsp^2 , d^2sp^3) Ionic character in covalent compounds - dipole moment. VSEPR theory: Shapes of molecules on the basis of VSEPR theory.	10

TEACHING PLAN

SESSION:

NAME OF TEACHER- DR. NEETUPRIYA LACHORIA

SUBJECT- CHEMISTRY

CLASS - B. M.Sc. I semester.

PAPER- V - (opt.) Biology for Chemist

UNIT	TOPIC TO BE COVERED	NO. OF PERIOD
IV.	<p><u>Amino-Acids Peptides and Proteins</u> Hydrolysis of Proteins to Peptides, Amino acid sequencing, structure of proteins, folding and domain structure. Amino acid - metabolism - degradation and Biosynthesis. Chemistry of Tryptophan and TRH.</p>	
V.	<p><u>Nucleic Acids</u>: Purine and Pyrimidine bases of nucleic acids. Structure of RNA and DNA. Hydrolysis of nucleic acids. Replication of DNA, Transcription, Translation and Genetic code. Chemical synthesis of mono and trinucleoside.</p>	

TEACHING PLAN

SESSION:

NAME OF TEACHER- DR. NEETUPRIYA LACHORIA

SUBJECT- CHEMISTRY

CLASS - M.Sc SEMESTER...I.....

PAPER- I Inorganic Chemistry

UNIT	TOPIC TO BE COVERED	NO.OF PERIOD
I	Stereochemistry and Bonding in Main Group Compounds: VSEPR theory, Walsh diagram, d π -P π bond, Bent rule and energetics of hybridization, some simple reactions of covalently bonded molecules.	
II	Metal ligand Equilibrium in Solution: Stepwise and overall formation constants and their interaction, trends in stepwise constant, factors affecting the stability of metal complexes with reference to the nature of metal ion and ligand. Chelate effect and its thermodynamic origin, determination of binary formation constants by potentiometry & spectrophotometry.	
III	Reaction Mechanism of Transition metal complexes: Energy profile of a reaction, reactivity of metal complex, inert and labile complexes, kinetic application of valence bond and crystal field theories, kinetics of octahedral substitution, acid hydrolysis, conjugate base mechanism, anion reactions, substitution reactions in square planar complexes, the trans effect, redox reaction, outer sphere type reactions, Marcus-Hush Theory, inner sphere type reactions.	

TEACHING PLAN

SESSION

NAME OF TEACHER- DR. NEETUPRIYA LACHORIA

SUBJECT- CHEMISTRY

CLASS - B.Sc. II Year

PAPER- II Inorganic Chemistry.

UNIT	TOPIC TO BE COVERED	NO. OF PERIOD
I	Chemistry of Elements of first transition series: Characteristic properties of d-block elements. Properties of elements of first transition series, their binary compounds Carbides, Oxides and sulphides. Complexes illustrating relative stability of their oxidation states, coordination number and geometry.	
II	Chemistry of Elements of second & third transition series: General characteristics, comparative treatment with their 3-d analogues in respect of ionic radii, oxidation states, magnetic behaviour, spectral properties & stereochemistry.	
III	(A) Coordination Compounds: Werner's coordination theory and its experimental verification. effective atomic number concept, chelates, nomenclature of coordination compounds, isomerism in coordination compounds, valence bond theory of transition metal complexes. (B) Oxidation and Reduction: Use of Redox potential data: analysis of redox cycle, redox stability in water: Frost, Latimer and Pourbaix diagrams. Principles involved in the extraction of elements.	
IV	Lanthanides and Actinides: Electronic structure, ionic radii, complex formation, separation, oxidation states, magnetic and spectral properties. Lanthanide contraction.	
V	(A) Acids and Bases: Arrhenius, Bronsted-Lowry, the Lux-Flood, solvent system and Lewis concept of acids and bases. (B) Non-Aqueous solvents: Physical properties of a solvent, types of solvents and their general characteristics, reactions in non-aqueous solvents with reference to liquid NH_3 and liquid SO_2 .	

TEACHING PLAN

SESSION:

NAME OF TEACHER- DR. NEETUPRIYA LACHORIA

SUBJECT- CHEMISTRY

CLASS - M.Sc SEMESTER... II.....

PAPER- Inorganic Chemistry

UNIT	TOPIC TO BE COVERED	NO.OF PERIOD
I	Electronic Spectral Studies of Transition Metal Complexes: Spectroscopic ground states, correlation, Orgel and Tanabe-Sugano diagrams for transition metal complexes (d^1-d^9 states), selection rules for electronic spectroscopy. Electronic transitions. Calculation of $10Dq$, B and β -parameters, Charge transfer spectra.	
II	Magnetic properties of Transition Metal Complexes: Anomalous magnetic moments. Quenching of orbital contribution. Orbital contribution to magnetic moment, magnetic exchange coupling and spin crossover.	
III	Metal π -Complexes: Metal carbonyl, structure and bonding, vibrational spectra of metal carbonyls for bonding and structural elucidation, important reactions of metal carbonyls, preparation, bonding structure and important reaction of transition metal nitrosyl, dinitrogen and dioxygen complexes, tertiary phosphine as ligand.	
IV	Metal Clusters: Higher Boranes, Carboranes, Metalloboranes and metallo-carboranes compounds with metal metal multiple bonds.	
V	Optical Rotatory Dispersion and Circular Dichroism: Linearly & circularly polarised light, optical rotatory power and circular birefringence, ellipticity and circular dichroism; ORD & Cotton Effect. Faraday and Kerr Effects. Applications of ORD and CD for the determination of (i) Absolute configuration of complexes and (ii) isomerism due to non-planarity of chelate rings.	

TEACHING PLAN

SESSION:

NAME OF TEACHER- DR. NEETUPRIYA LACHORIA

SUBJECT- CHEMISTRY

CLASS - M.Sc SEMESTER...III....

PAPER- Environmental Chemistry.

UNIT	TOPIC TO BE COVERED	NO.OF PERIOD
I	<p><u>Atmosphere</u>: Atmospheric layers, Temperature inversion, Biogeochemical cycles - C, N, S, P, O. Residence Times.</p> <p><u>Atmospheric Chemistry</u>: Sources of Trace atmospheric constituents.</p> <p><u>Tropospheric Photochemistry</u>: Ozone, Reactions of OH radicals with SO₂ and NO₂. Photochemical Smog, meteorological conditions and chemistry of its formation.</p>	
II	<p><u>Air Pollution</u>: Air pollutants and their classifications. Acid Rain, Stratospheric Ozone Depletion, Green House effect, Climate change and consequences.</p> <p>Urban Air Pollution - Damaging effects of CO. Control strategies.</p>	
III	<p><u>Aquatic Chemistry and Water Pollution</u>. Redox Chemistry. DO, BOD, COD. Aerobic and Anaerobic reactions of organic Sulphur and Nitrogen compounds in water. Acid base chemistry of fresh water and sea water. Aluminium nitrate and fluoride in water. Petrification. Sources of water pollution. Treatment of waste and sewage. Purification of Drinking water.</p>	
IV	<p><u>Environmental Toxicology</u>: Hg, Pb, As & Cd. Causes of toxicity. Bioaccumulation, sources of heavy metals. Chemical separation of Hg, Pb, As and Cd. Toxic organic compounds. Polychlorinated Biphenyls. Polynuclear Aromatic Hydrocarbons.</p>	
V	<p><u>Soil and Environmental Disasters</u>: Soil composition, micro & macronutrients. Soil pollution, Remediation of soil. Bhopal Gas tragedy, Chernobyl, Three mile island, Minimata Disease, Seveso (Italy), London Smog.</p>	

TEACHING PLAN

SESSION:

NAME OF TEACHER- DR. NEETUPRIYA LACHORIA

SUBJECT- CHEMISTRY

CLASS - M.Sc SEMESTER...IV.....

PAPER- Analytical Chemistry.

UNIT	TOPIC TO BE COVERED	NO.OF PERIOD
I	<u>Introduction</u> : Role of analytical chemistry. Types of instrumental analysis. Analytical balance. Glasswares. Sample Preparation. Safety in analytical laboratory. Errors and evaluation: Types of errors. Statistical evaluation of data intermediate errors. The uses of statistics.	
II	<u>Food Analysis</u> : Moisture, ash, carbohydrates, calcium, Potassium, Sodium and phosphate. Food adulteration, contamination of foods. HPLC, GC for organophosphates Thin layer chromatography for identification of chlorinated Pesticides in food.	
III	<u>Analysis of water Pollution</u> : Water pollution and their effects. Sources of water pollution. Heavy metal pollution. Measurements of DO, BOD, COD, Pesticides as water pollutants and analysis. Water Pollution laws and standards.	
IV	<u>Analysis of soil, fuel, Body fluids and Drugs</u> : Analysis of soil fuel analysis: liquid and gas. Ultimate & Proximate Analysis Gaseous fuels - produced gas and water gas calorific values.	
V	(a) <u>Clinical Chemistry</u> - Composition of Blood - collection and preservation of samples. Clinical analysis. Immunoassay. (b) <u>Drug Analysis</u> : Narcotics and dangerous drug. Screening by Gas and TLC and Spectrophotometric measurements.	

TEACHING PLAN

SESSION 2021-22

NAME OF TEACHER- DR. ASHA VERMA

SUBJECT- CHEMISTRY

CLASS - B.S.C. IInd year. (Annual)

PAPER- Organic chemistry.

UNIT	TOPIC TO BE COVERED	NO. OF PERIOD
I	Electro. Magn. Spect. Absorption Spectroscopy, Beer Lambert Law UV Spectroscopy, Absorption Spectroscopy, Presentation, Analy. of UV spectra Molar absorptivity, Presentation, Analy. of UV spectra Types of Ele. Transition, Effect of conj. conceit of chromophore & auxochrome Bathochromic Eff. Hypsochromic, Hyperchromic & Hyp. shift Energy Enones - UV Spectroscopy, IR. spect., mole. vibr. Hookes Law Selection Rules Intensity & position of IR spec. Fingers Print tetra substitution.	12
II	(A) - Alcohols - class. & Nomen. Monohydric alch. prep. & Prop. Redu. of γ CHO, ketones, COOH, and COOR, H. Bonding, Acid nature and. Reaction of alcohols. Dihydric alcohols - Nomen. Prep. chem. react. of vicinal glycols oxidative cleavage. $Pb(OAc)_4$ and HIO_4 and pinacol - pinacolone rearrangement Tertiary alch. Nomen. Prep. Phenols. phenol Prep. alcohol Reson. Reaction of phenols SE. Fries,	12
III	Aldehyde & ketone synth. of alch. & ketone synth. of aldehyd. & ketone from acid chloride. Synth. of alch. & keto. using 1,3 dithianes Synth. of keton. nitriles & carb. acids. mechanism of Nucleo. Addition to $C=O$ Perkin, Aldol, Perkin, Knoevenagel cond. & NH_3 & derivatives. Wittig & Mannich Reac. Use of acetals as protecting gp. org. of aldehyde, Bayes, Vilsmeier, Cannizzaro Meerwein Pinner Verley react. Claisen rearrangement Wolff Kishner LiAlH ₄ & NaBH ₄ reduction, Halogenation of enolizable ketones Intro of 2, 3 unsat. alch. & ketones. Carboxylic acid. Nomen., st. Bonding, Properties. Acidity, Effect of subst. on pK_a Carboxylic acid. Prep. & Prop. Hell-Volhard, synth. of acid chloride, esters. & amide Reduc. of acid chloride mech. of decarb.	12
IV	Method of form. & chem. prop. of Halv acids Hydroxy acids malic, Tartaric & citric acid Unsaturated monocarboxylic acid - Prep & Prop. Dicarboxylic acid Prep & Properties, dehydrating agents (B). Ether - Nomen. Prep. & Prop. & chem. Re. auto-oxidation & Ziesels method org. comp. of N_2 - Nitro alkanes & Aromes Prep & Prop. SN. Mech. Reduc. in neutral & alkaline media.	12
V	Halonitroarenes - Nomen. st. reactivity of Amines Stereochemistry & Properties. Separation of mixture pri. Sec. & Ter. Amines Factors affecting the strength. Amine as phase Transfer catalyst Prep. of alkyl & aryl amines Reductive Amination of alch. & ketone comp. Gabriel phthal mide React. Hoffmann - Bromide reaction, React. of Amines. SE. in aryl amines React. of Amines & Nitrous Acids. Synth. Transformation of...	10

TEACHING PLAN

SESSION 2021-22

NAME OF TEACHER- DR. ASHA VERMA

SUBJECT- CHEMISTRY

CLASS- B.Sc. III Year. (Annual)

PAPER- Organic chem.

UNIT	TOPIC TO BE COVERED	NO. OF PERIOD
I	Spectroscopy- NMR, ¹ H NMR, shielding & deshielding, chemical shift, mol. st. Spin-spin coupling, coupling constant, Region of signals, Explanation of signals, PMR spectra of simple org. molecule. eg. C ₂ H ₅ -Br, C ₂ H ₅ -OH, CH ₃ CHO, 1,2,2-tribromoethane CH ₂ COOC ₂ H ₅ -C ₂ H ₅ -CH ₃ , C ₆ H ₅ -CO-CH ₃ , Appl. of-UV, IR, PMR, far. & org. molecules.	12
II	(A)- organometallic comp. - Gr. R, Prep. st. & properties R ₂ Zn - prep. & prop., R ₄ Li - prep. & chem. prop. (B)- organo sulphur comp - Nomen. st. characteristics Thiol, thioether, sulphonic acid, sulphonamide Sulphaguanidine - prep. & properties. (C) organic synthesis by Enolates - acidity of H, alkyl. of diethyl malonate & ethyl acetoacetal - synth, claisen condn. keto-enol taut. alkyl. of 1,3 dithiane Enamine.	12
III	(A) Carbohydrates: classif. Nomen. osazone form. conversion of glucose to fructose, Aldose - Ascending, descending series, configuration of monosaccharide, stereo isomers Erythro & Threo, glycosides, determ. of ring size of mono. ring st. of D (+) glucose mechanism of mutarotation st. of ribose, and deoxyribose, Disaccharides Intro. maltose sucrose & Lactose, polysaccharides - Intro. idea of starch & cellulose (Excluding st.) (B) oils & detergents - Natural, edible & Ind. Fatty acids glycerides Hydrogenation Saponification iodine Acid value	12
IV	(A) Amino Acids - peptide, protein & Nucleic acid. classif. of amino acid, st. & stereochem., Acid base nature, isoelectric point, electrophoresis & amino acid - prep. proper. peptides protein - Nomen. st, classif. of protein, determ. of peptide st. end gp. analysis, selective Hydrolysis, peptide synthesis Solid phase peptide synth. st. of -peptide & protein, Nucleic acid - constitution, Ribonucleotides, Ribonucleotide, double helix st. of D.N.A. (B) Synthetic Dyes - colour & constitu. classif, methyl orange congo Red, Malachite green, Cryst. violet, phenolph. fluorescein.	12
V	Heterocyclic comp. - Intro - Pyridine, furan, thiophene, C ₆ H ₅ N, Aromaticity, synthesis, chemical react. SE, Pyridine derivatives sm. reac. mecha. comparison between basicity of Pyridine Piperidine & Pyridine. Intro of 5 & 6 member. condensed heterocyclic comp. Indole, Quinoline & isoquinoline, Prep & Properties, Fischer Indole, Skraup, Bischler synthesis, Elect. subst. react. of Indole Quinoline and isoquinoline.	12

TEACHING PLAN

SESSION: 21-22.

NAME OF TEACHER- Dr. Smita verma

SUBJECT- CHEMISTRY

CLASS - B.Sc I year

PAPER- I Paper

UNIT	TOPIC TO BE COVERED		NO. OF PERIOD
III MO concept of bonding & Bond parameters	Specific objective: to clear the concept of definition, scope and Methodology. Molecular orbital theory, Bond order and bond strength. MO diagram of diatomic and simple polyatomic molecules $N_2, O_2, F_2, CO, NO,$ *XCE, Test after completed unit.	Lecture, Black board, PPT	10
IV Acid-Base Concept.	Acid-Base Concept, Bronsted-Lowry's Concept Conjugate Acids and Base, PH, Buffer soln. Indicator, Assessment of understanding. Test: objective / oral. Group discussion.	Lecture, Black board Discussion, PPT	5
V Fundamentals of organic chemistry	Electronic displacements: Inductive effect electromeric, resonance, and mesomeric effect, hyperconjugation and their application Dipole moment, Electrophillic and nucleophillic reagents, Intermediates - generation, shape, and relative stability. Test. oral.	Lecture-Black-board, Discussion.	8
VI Stereochemistry of Organic chemistry	Concept of isomerism, Geometrical isomerism cis-trans, syn-anti and E/Z notation. Elements of symmetry, chirality / Asymmetry, Enantiomers, Molecules with two or more chiral centres, Diastereoisomers, meso compounds, Relative and absolute configuration, fisher, Newman and Sawhorse, Erythrose and threose DH, d/d System, Conformational isomerism, conformation of ethane, Butene and cyclohexane. Interconversion: oral Test & Group discussions.	Lecture, Black-board, board, PPT, Discussion.	8
		Lecture, Black board, PPT.	2

TEACHING PLAN

SESSION: 2021-2022

NAME OF TEACHER- Dr. Sonita verma

SUBJECT- CHEMISTRY

CLASS - B.Sc I year

PAPER- II

UNIT	TOPIC TO BE COVERED		NO. OF PERIOD
III Computers for chemists	Introduction, History of Computer, Components Hardware and Software, Input output devices and its example: Operating system, DOS, Microsoft windows, Linux operating system, Flow charts, MS-Word, MS-Excel, MS-Power point. How to use & its applications. PDF.	Black board	08
	Assessment of understanding ① Unit Test oral/objective ② Group discussion		Chart, PPT 02
IV Chromatography	Introduction; Principle of chromatography, classification of chromatography, Development of chromatograms. Paper chromatography Principle, method, Types, Practicals. Thin layer chromatography, principle, methods, type, Practicals. Column chromatography. Types and Practicals. Gas chromatography, Practical method. HPLC chromatography. Applications, Flash chromatography & Ion Exchange chromatography. Test oral/objective.	Lecture, Black board, Chart, PPT.	10
	Introduction of IR Spectroscopy. Molecular vibrations. Hook's Law. Rotational vibrations spectra. Finger Print Region. Measurements of IR Spectrum. Test, oral/objective.		05

TEACHING PLAN

SESSION: 2021-2022

NAME OF TEACHER- Dr. Smita Verma

SUBJECT- CHEMISTRY

CLASS - B. Sc III year

PAPER- II (Inorganic chemistry)

Section : A

UNIT	TOPIC TO BE COVERED		NO. OF PERIOD
H Hard and Soft Acids and Bases (HSAB) Silicones	Classification of acids and base as hard & soft. Pearson's HSAB concept, acid-base strength and hardness and softness, symbiosis. Silicones and Phosphazenes, Silicones and Phosphazenes as examples of inorganic polymers, triphosphazenes. Group discussions	lecture, Black board, PPT	12 + 2
H Transition Metal complexes Thermodynamics Kinetics	Limitation of VBT, crystal field theory, crystal field splitting in octahedral, tetrahedral and square planar complexes - factor affecting, thermodynamic stability of metal complexes & factors affecting the stability substitution reaction planar complexes.	lecture, Black board, PPT.	12 + 2
H Magnetic properties of Transition Metal complexes	Types of magnetic behaviour, methods of determining magnetic susceptibility, spin only L-S coupling, correlation of μ_S and μ_{eff} values, Data for 3d metal complexes. Electronic spectra of transition metal complexes. unit test, oral objectives.	lecture, Black board, PPT.	14
H Electronic Spectra of Transition Metal complex.	Types of electronic transitions, selection rules for d-d transitions, spectroscopic ground states, spectrochemical series. Orgel energy level diagram for d^1 and d^2 states, discussion of electronic spectra of $[Ti(H_2O)_6]^{3+}$, metal-metal bonds & atom clusters. Group discussion.	lecture, marker board, PPT.	14
H Bio-Inorganic chemistry.	Essential and trace elements in Biological processes, metalloporphyrins with special reference to hemoglobin and myoglobin. Biological role of alkali and alkaline earth metal with special reference to Ca^{2+} , nitrogen fixation. Objective / oral Test. chart.	lecture, marker board PPT.	14

TEACHING PLAN

SESSION: 2021-2022

NAME OF TEACHER- Dr. Smita Verma

SUBJECT- CHEMISTRY

CLASS - B.Sc III year

PAPER- II (Inorganic chemistry)

Section: B

UNIT	TOPIC TO BE COVERED	NO. OF PERIOD
I Hard and Soft Acids and Bases (HSAB) Silicones	Classifications of acids and base as hard & soft. Pearson's HSAB concept, acid-base strength and hardness and softness, Symbiosis. Silicones and Phosphazenes, Silicones and Phosphazenes as examples of inorganic polymers, triphosphazenes. Group discussions	12 + 2
II Transition Metal complexes Thermodynamics Kinetics	Limitation of VBT, crystal field theory, crystal field splitting in octahedral, tetrahedral and square planar complexes. Factor affecting thermodynamic stability of metal complexes & factors affecting the stability substitution reaction planar complexes.	12 + 2
III Magnetic properties of Transition Metal complexes	Types of magnetic behaviour, methods of determining magnetic susceptibility, spin only L-S coupling, correlation of μ_S and μ_{eff} values, Data for 3d metal complexes. Electronic spectra of transition metal complexes.	14
IV Electronic Spectra of Transition Metal complexes	unit test, oral objectives. Types of electronic transitions, selection rules for d-d transitions, spectroscopic ground states, spectrochemical series. Orgel energy level diagram for d^1 and d^2 states, discussion of electronic spectra of $[Ti(H_2O)_6]^{3+}$, metal-metal bonds & atom clusters. Group Discussion.	14
V Bio-Inorganic Chemistry	Essential and trace elements in biological processes. metalloporphyrins with special reference to hemoglobin and myoglobin. Biological role of alkali and alkaline earth metal with special reference to Ca^{2+} , nitrogen fixation. Objective / oral Test. chart.	14

TEACHING PLAN

SESSION: 2021-2022

NAME OF TEACHER- Dr. Smita Verma

SUBJECT- CHEMISTRY

CLASS - M.Sc I Semester

PAPER- V Biology for chemists.

UNIT	TOPIC TO BE COVERED	Teaching method	NO. OF PERIOD
(I) Cell structure and functions	Introduction of cells, intracellular organelles and their functions. metabolic processes - catabolism and anabolism. ATP - the biological energy currency. Carbon evolution and rise of living system. Introduction of biomolecules, building blocks of biomacromolecules.	Lecture, white board, PPT	14
	Assessment of understanding: ① unit test oral / objective ② PPT presentation, quiz competitions.		
(II) Carbohydrates	Introduction of carbohydrates, conformation monosaccharides, structure & function. glycosides, deoxy sugars, myoinositol, amino sugars. N-acetylmuramic acid, sialic acid disaccharides and polysaccharides.		14
	Structural polysaccharides cellulose and chitin. Storage polysaccharides. Carbohydrates - starch and glycogen. Structure and function of glucosaminoglycans. Role of sugars in biological recognition. Blood group substance.	Lecture, PPT	

TEACHING PLAN

SESSION: 2021-2022

NAME OF TEACHER- Dr. Sonita Verma

SUBJECT- CHEMISTRY

CLASS - M.Sc I Semester

PAPER- I (Inorganic Chemistry)

UNIT	TOPIC TO BE COVERED	NO. OF PERIOD
(IV) Metal-Ligand bonding	Limitation of crystal field theory, molecular orbital theory for bonding in octahedral, tetrahedral and square planar complexes, π -bonding and molecular orbital theory.	14
	Assessment of understanding: ① unit test oral/objective. ② group discussions. ③ PPT presentation.	
(V) HSAB Theory	Classification of acids and bases as hard and soft. HSAB principle theoretical basis of hardness and softness. Lewis-acid base reactivity. donor and acceptor number. E and Δ equation. Application of HSAB concept.	12
	Assessment of understanding: ① Group discussions ② PPT test. ③ Unit test.	

TEACHING PLAN

SESSION: 2021-2022

NAME OF TEACHER- Dr. Sonita verma

SUBJECT- CHEMISTRY

CLASS - M.Sc

PAPER- Industrial Chemistry

UNIT	TOPIC TO BE COVERED	NO. OF PERIOD
(I) Water, Gases & Heavy chemicals	Water pollutants Introduction, classes & examples. Short notes- BOD, thermal pollution, fertilizers, detergents, pesticides & Industrial wastes. Water purification methods. Ion exchange, electro dialysis, Reverse osmosis, softening of Hard water. chlorination & fluoridation. Test - oral/objective, Group Discussion.	12
(II) Gases & Heavy chemicals	Large scale production, storage, hazards and uses of the industrial gases, H ₂ , O ₂ , N ₂ , CO ₂ , Cl ₂ , F ₂ , SO ₂ , Phosgens, acetylene, argon & helium. Heavy chemicals. Manufacture, Physical Properties Analysis, Hazardous & applications. HCl, H ₂ SO ₄ , MnO ₂ , NaOH, NaCl, Bleaching powder. oral test.	12+2
(III) Coal & Petroleum	Origin of coal, importance, composition, coal carbonization, Coal gasification, Coal Gas, water Gas, Producer gas, coal Tar, Coal as carcinogens, Non fuel uses of coal.	12
(IV) Coal & Petroleum	Origin & composition, Refining, Reforming, Fractionation, Cracking, knocking, & Octane number, kerosene & Napthen, liquified, Petroleum gas, synthetic gas, Synthetic Petrof, Petrochemicals.	12
(V)	Manufacture of ethylene, Propylene, Butedne, xylenes, oral. Discussions.	
Unit V Fats & Oils.	Natural fats & Oil, Industrial oils of vegetable origin common fatty acids, glycerides. Hydrogenation of unsaturated oils, Manufacture of vasopati & orargarine. Oral test/objective, Group Discussion.	12

2021

SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME	Dr. Kirti Jani			
SUBJECT	Botany			
SESSION	2021 - 22			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	B.Sc III ^{yr}	Pageant Unit I	Plant water relation - Properties of water, importance of water in plant life, Diffusion, osmosis & osmotic relation to plant cell. Water Absorption, Ascent of Sap. Transpiration: Str. & Physiology of Stomata, Mechanism of Transpiration, factors affecting the rate of Transpiration.	15
		Unit III	Photosynthesis - Chloroplast, Photosynthetic pigments, concept of two photosystem, light reaction, Red drop, Emerson's effect-dark reaction - Calvin cycle, Hatch-slack cycle, CAM cycle, factors affecting rate of photosynthesis, Photorespiration.	15
		Unit IV	Respiration - Mitochondria, aerobic & anaerobic respiration, Respiratory Quotient, mechanism of respiration, Glycolysis, Krebs' cycle, P.P.P., ET system, factors affecting rate of Resp. Redox potential.	20
		Unit V	Enzymology - Classification, Nomenclature & Characteristic of enzymes, Concept of holoenzyme, apoenzyme, Co-enzyme, Co-factors, mode of mechanism of enzyme action, factors, enzyme activity.	20
			Plant Hormones - Discovery, Str. mode of action & role of auxin, Gibberellins, Cytokinins, Abscisic acid & Ethylene.	
	M.Sc III Sem.	Pageant Unit II	The species concept, Taxonomic hierarchy, ICBN, Taxonomic evidence; Taxonomic Tools: Literalia, Flora, Kistological, Biochemical, Cytological.	17
		Unit III	System of Angiosperms classification - origin of Angio. Pheletic vs Phylogenetic System Cladistics in taxonomy Plant exploration, invasion & introduction and Sec. centres, world centre of Pri diversities & domesticated plant.	20
	M.Sc III	Unit I	Fundamentals of Enzymology	15
	III rd part	Unit II	Photochemistry & Photosynthesis. Calvin cycle, Photorespiration and its significance, C ₃ cycle.	15
		Unit III	Respiration: Overview of Plants respiration, Glycolysis, TCA cycle, Electron Transport Str. function & Synthesis ATP.	13

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GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME		Dr. Kiran Jari		
SUBJECT		Botany		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	M.Sc Sem II	Paper III	Unit I- Principles of thermodynamics, free energy, Redox potential, Water Absorption, Transpiration, Mineral Nutrition, Root-microbe interaction in facilitating nutrient uptake, Membrane Transport	15
		Unit II	Phloem Transport, Signal Transduction, Receptor and G-protein, phospholipid signalling	15
		Unit III	Plant growth regulators and elicitors, Physiological effect and mechanism of action of auxin, gibberellin, cytokinins, ethylene, abscisic acid, hormone receptors.	12
	M.Sc Sem IV	IV	Unit I Definition and scope of Ethnobotany - Historical review, Branches of ethnobotany	12
		Unit II	Preservation of Genetic diversity, Plants used in various systems of medicine- Ayurvedic, Unani and Homeopathic system. Plants used by villagers and Tribal people, Role of ethnobotany in Devt. of society	13
		Unit III	Ethnobotanical Importance of Different medicinal plants.	12
		Unit IV	Plants in mythology, Taboos and Totems in relation to plants, folklore and folk tales, wild life protection in tribal, plant domestication by tribal. Ethnobotanical Importance of medicinal Plants.	13
		Unit V	Detailed Study of the common plants & their parts used in the treatment of various fungal, viral, bacterial disease.	12

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TEACHING PLAN FORMAT

NAME	Dr. Aruna Jain			
SUBJECT	Botany			
SESSION	2021 - 22 .			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1.	B.Sc. II Paper I	IV	Embryology . Concept of flower as a modified shoot . St. of Anther Micro-sporogenesis & ♂ gametophyte . St. of Pistil/Govules Meiosisporogenesis & Dev. of ♀ gametophyte (Embryosac) & its types . Pollination - Mechanism & Agents of Pollination P-P interactions . Self incompatibility	15
		V	Embryology . Double fertilization & triple fusion . Dev. & types of endosperm & morphological nature . Dev. of Embryo in Monocot & Dicot plants . Polyembryony & Apomixis . Application of Palynology . Experimental Embryology including Pollen storage & test tube fertilization . Fruit Dev. Seed of & dispersal . Mode of vegetative propagation .	15
	B.Sc. II Paper II	V	Phytogeography . Phylogeographical regions of India . Vegetation types of MP & India . Natural resources . Holniche classification . Conservation & management of natural resources . Land resource management . Water & wetland resource management . Economic & Ethnobotany	15
2	M.Sc. Sem. I Paper III	III	Gen. characters classification origin, Telome theory, Stelar organisation, Homospory, Heterospory & Seed habit . Reproduction Indian Contribution to Pteridophyta . Palaeobotany & Geological Time Scale . Fossilisation . Types of Fossils .	15

Dr

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TEACHING PLAN FORMAT

NAME	Dr. Aruna Jain -			
SUBJECT	Botany			
SESSION	2021-22			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	M.Sc. Sem. I Paper III	IV	General characters of Psilophyta : Rhynia, Horneophyton, Zosterophyllum, Psilophyton, Asteroxylon, Psilotum, Tmesipteris. Gen. characters of Lycopsidea : Lycopodium, Protolepidodendron, Lepidodendron, Isoetes, Selaginella.	15
		V	General characters of Sphenophyta : Hyenia, Sphenophyllum, Calamites, Equisetum. Gen. characters of Filicophyta : Ophioglossum, Osmunda, Gleichenia, Filicophyta, Dryopteris, Lygodium, Marsilea, Salvinia, Azolla.	15
	M.Sc. Sem. III Paper III	IV	Structure, Classification and function of Carbohydrates. Biosynthesis of Sucrose and Starch. St. & function of Lipids. Fatty acid biosynthesis, Synthesis of membrane lipids; structural lipids & storage lipids & their catabolism, Glyoxylate cycle & alternative oxidase system.	15
		V	Nitrogen Fixation (Chemical & biological) Nodule Formation. Mechanism of Nitrate uptake & reduction → ammonium assimilation, sulphate uptake, transport and assimilation. Sulphur metabolism. Vitamins (Structure & role.)	14

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TEACHING PLAN FORMAT

NAME		Dr. Aruna Jain -		
SUBJECT		Botany -		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	M.Sc.	IV	Flowering Process. Floral induction & dev. Photoperiodism & its significance	15
	Sem II		Endogenous clock & its regulation.	
	Paper III		Movements, Phytochrome & Cryptochrome, their photochemical & biochemical properties. Molecular mechanism of action of photomorphogenetic receptors	
		V	Stress physiology. Plant response to biotic & abiotic stress, water deficit, drought resistance. Salinity stress & response	14
			concepts of freezing. Heat stress & oxidative stress.	
	M.Sc.	III	Techniques of cultivation & marketing of Chlorophytum, Guggal, Rauwolfia sp.	6
	Sem IV	IV	Plants in Entrepreneurial areas. Use of plants in earning livelihood - such as Bamboos, Rattans Raw materials of papermaking, Gums, Tannins, dyes, resins & fruits. Techniques of cultivation & marketing of Aromatic plants - Lemongrass, panna kora, Floriculture - rose & gladioli	15
	Paper III			
	Elective	V	Plants in Entrepreneurial Areas. Techniques of cultivation & marketing of Mushrooms	15
			cultivation of few plants using tissue culture techniques. Bonsai Techniques.	

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NAME		DR. S.D. Singh.		
SUBJECT		Botany.		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	B.Sc.			
2	Ist year	II	pollution, Definition, types.	14
3	Elective		& pollution, water, Air,	
4			land, Chemical pollution	
5			Effect of pollution, Awareness	
6			& pollution, Technique to	
7			reduce pollution.	
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DR

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ADYALAYA, BHO
 (MADESH)
 P. No. 2643061

CVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE, PG COLLEGE

KOLAR ROAD, BHOPAL MP

TEACHING PLAN FORMAT

For B.Sc. Classes

NAME		DR. S. D. Singh.		
SUBJECT		Botany.		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	B.Sc. II year		Ecology, concept, definition	35
2	Botany		Components of Ecology.	
3	II nd	I	Types of Ecosystem.	
4	Part		Food chain, Food web	
5			mineral cycling, Energy-	
6			flow, pyramids their.	
7			Types, Volume, Mass and	
8			numbers pyramid,	
9			Biodiversity, population ecology	
10			Distribution pattern, Density and	
11			natality, Ecotype and ecads.	
12		II	Community ecology, Frequency.	
13			Density and abundance. Hot spot	
14		V	of India, Biogeographical areas.	
15				

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NAME		DR. S. D. Singh		
SUBJECT		Botany		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	M.Sc.	III rd		
2	Sem.	IV th	pollution, introduction, definition	28 X 2 = 56
3		Unit	pollution and climate change, Types	
4			of pollution, Air, water, Land,	
5			soil pollution Green house effect,	
6			Global Warming, Bio remediation.	
7		V th	Remote Sensing, introduction	
8		Unit	definition, Applications, Resource	
9			Monitoring Remote Sensing visual,	
10			Digital interpretation, EMR,	
11			Band, satellites their types,	
12			Satellite imagery, Thematic,	
13			mapping, Radiometers, Sunsynchro	
14			nous satellite, METSAT, satellite	
15			polar satellites etc.	

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 2060262

T. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

M.Sc.(F) IVth Sem.

NAME		Dr. S.D. Singh .		
SUBJECT		Botany .		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	M.Sc.			
2	IV th Sem.	III rd	Floriculture, Mushroom cultivation.	28 x 2 = 56
3		Unit	techniques and application, Nursery management.	
4			Entrepreneurial development.	
5		IV th	microscopy. working principle and	
6		unit	applications. Types of microscopes,	
7			Spectrophotometer, Electrophoresis,	
8			calosimeter: pH meter, Centrifuge,	
9			basic knowledge.	
10		V th	Introduction to computer,	
11			fundamentals, MS. office,	
12			Usage of computer in biology,	
13			Sample graph plotting, networking	
14			of computer, basic need and	
15			application, literature search.	

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NAME		DR. S. D. Singh		
SUBJECT		Botany		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	M.Sc.		Gymnosperm. Definition, classification	35 × 2 = 70
2	I st Sem.	I st	General characters of Gymno.	
3			Different slides of gymnosperms.	
4			Types of Gymnosperms, Morphology	
5			and anatomy, Economic importance	
6			of Gymnosperms, fossil Gymnos.	
7			and their uses.	
8		II nd	General character of fossil gymnosperm,	
9			Lyginopteris, medullosa, Glossopteris.	
10			Caytonia, Pentoxylon.	
11		IV th	General characters, Morphology, anatomy	
12			Reproduction, life cycle of the	
13			following Gymnosperm members	
14			Ephedra, Gnetum and	
15			Welwitschia.	

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Page No. 01/09/2020

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GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE
KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT M.Sc. (P) IInd Sem.

NAME		Dr. S.D. Singh		
SUBJECT		Botany		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	M.Sc.			35 x 2 = 70
2	II nd Sem.	III rd Unit	Ecological stability concept (resilience and resistance). Ecological	
3			Disturbance - natural and anthropogenic and their impact on plants, and ecosystems. Ecosystem restoration	
4				
5				
6				
7		IV th Unit	fate of Energy and matter in ecosystem: Trophic organization and structure, food chain, Food web, Energy flow Path way, Ecological efficiencies, Consumption, assimilation, and Production trophic, Primary Production method of measurement, limiting factors. Litter fall, and decomposition, Recycling Path way, relation between energy flow	
8				
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SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE, PG COLLEGE
KOLAR ROAD, BHOPAL MP
TEACHING PLAN FORMAT

2

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE, PG COLLEGE
KOLAR ROAD, BHOPAL MP
TEACHING PLAN FORMAT

M.Sc. P.T. 2nd Sem.

NAME		Dr. I.D. Singh		
SUBJECT		Botany		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1			and recycling pathway nutrient cycling Global biogeochemical cycle of C, N, P, S.	
2				
3				
4				
5		IV	Major biomes, major vegetation and soil types of world. Botanical regions of India - tropical rain forest, boreal forest, grassland, desert, aquatic ecosystem. wetland, lakes, ponds, streams, rivers, marine and estuarine habitats.	
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7				
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GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE, PG COLLEGE

KOLAR ROAD, BHOPAL MP

TEACHING PLAN FORMAT

NAME		Dr. Sarla Patel		
SUBJECT		Botany (Basic botany)		
SESSION		B.Sc. I st year. (2021-2022)		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1.	B.Sc. I st year Paper II	II	Algae - General characteristics. Range of thallus organization. Reproduction.	3 2
			Types of life-cycle in algae algae.	2
			Role of Algae in nature and its economic importance.	2
			Bryophyta - General characteristics. Ecology.	3
			Range of thallus organization. morphology Anatomy (Internal and external features) and	2
			Reproduction of Any one bryophyte. Economic importance of Bryophyta.	2
	B.Sc. I st year. Paper II	IV	Fungi - General characteristics and cell wall composition. Mode of nutrition.	3 2
			Types of Reproduction. economic importance, Parasexuality and mycorrhiza.	2
			Lichens & Brief knowledge and their significance.	2

SPH

SPH

TEACHING PLAN FORMAT

NAME	Dr. Sarla Patel			
SUBJECT	Botany. (Applied Botany)			
SESSION	B.Sc. I st year. (2021-2022)			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	B.Sc. I Paper I	III	• Ancient agriculture practices.	3
			• modern agriculture practices.	3
			polyhouse, drip irrigation.	3
			hydroponics, terrace farming.	3
			• organic farming-Introduction	3
			objective and brief technique.	3
			• Horticulture	3
			• Forestry	3
			• Silviculture.	3
		IV	• Role of botany in rural development.	3
			• Ethnobotany.	2
			• Ethnomedicine.	2
			• Ethnofibers.	3
			• Ethnofood crops.	3
		V	• Plant tissue culture.	3
			• DNA Recombinant technique.	3
			• Role of recombination in present era.	3
			• Bioinformatics.	2
			• Introduction of bioinformatics	3
			software. Basic idea of BLAST	2
			and FASTA.	2

SP

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TEACHING PLAN FORMAT

NAME		Dr. Sankar Patel		
SUBJECT		Botany		
SESSION		M.Sc. I st sem (2021-2022)		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1.	M.Sc. I st sem	I	General characteristics of Algae.	4
			Diversified Habitats.	6
			Thallus organization.	
			cell ultra structure Reproduction.	6
			classification of Algae. Pigmentation.	6
			reserve food. Flagella classification.	5
			Economic importance of Algae.	
			Technique of Algal culture.	3
2.	M.Sc. I st sem	II	General characteristics of dinoflagellates and charophyta.	3
			Chlamydomonas, Sphaerella	8
			Pantodon, Eudorina, Chlorella	
			Hydrodictyon, Pedocastrum.	5
			Ulothrix, Cladophora, Spirogyra	
			Zygnema, Bryopsis and Nitella.	8

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VT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE, PG COLLEGE

KOLAR ROAD, BHOPAL MP

TEACHING PLAN FORMAT

NAME				
SUBJECT				
SESSION				
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	Dr. Sarla Patel			
	Botany (Plant Ecology)			
	M.Sc. III rd sem (2021-22)			
1	M.Sc. III rd sem	I	Plant Biodiversity concept status in India & world.	3
2			World center of primary diversity of domesticated plants.	2
3			Hot spot, Red Data book, endangered and threatened species of India.	3
4			Hot spot, Red Data book, endangered and threatened species of India.	4
5		unit II	sustainable Development.	2
6			utilization of resources from Forest, Grass land, Aquatic Habitats.	5
7			food, fodder, forage, Timber and non wood forest product.	3
8			Threats of quality and quantity of resources due to over exploitation.	3
9			speciation and extinction IUCN categories of threat.	2
10			Distribution and global pattern	3
11			Terrestrial biodiversity.	2
12				
13				

EPH

Dr.

T. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME				
SUBJECT				
SESSION				
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	BSc I P-I	I	History of applied botany & Intro, Evolution of botany, relation of plants to man, disciplines of botany & human welfare	8
		II	Pollution & types, phytoremediation & bioremediation	8
	P-II	III	Ancient agr. practices, Polyhouse, drip irrigation, hydroponics, terrace farming, Organic farming, horticulture, forestry, silviculture	15
		IV	Plant tissue culture, Recomb. DNA tech; Role of recombi. DNA tech, Bioinformatics, BLAST, FASTA	10
	BSc III Pa	I	History of Botany - Indian Contribution Morphology of lower & higher plants Cell structure, Microscope types - SEM, TEM	10

NAME	Devendra Singh Patel			
SUBJECT	Botany			
SESSION	2021-22			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	BSc III	II	Biomolecules- Carbohydrate, Proteins,	8
	Paper I		Vitamins, Mineral Nutrition - Micronutrients and macronutrients	
	MSc II	I	Structure and organi of plant cell,	8
	Pa-I		cell wall, Plasma memb, ion carriers, Channels, pumps, Receptors, ATPase	
		III	Structure and function of Nucleus,	10
			Nucleolus, Nucleosome, Chromosome, Karyotype Heterchromatin, Euchromatin, Banding	
	MSc IV	IV	Recombi. DNA Tech, gene cloning	10
	Paper I		cDNA library, genomic library, Vector, PCR, DNA fingerprinting	
		V	Genomics, Proteomics, molecular markers, Artificial chromosomes, Genome projects, bioinformatics, microarrays, Protein Profiling	12

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TEACHING PLAN FORMAT

NAME		Dr. (Mrs) Asha Sharma		
SUBJECT		Botany, Paper I, BSc II nd year		
SESSION		2021-22 (Sept to March)		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	Bsc	I	Taxonomy: Origin & Evolution of Angiosperms: Principles and Rules of Botanical Nomenclature; Museum, Herbarium and Botanical Garden; Comparative account of various system of classification of Angiosperms; Bentham & Hooker and Modern Trends in Taxonomy including molecular taxonomy, APC, LV system.	(42)
(Sept to March)	II		Taxonomy - Terminology for plant description in semi-technical language; Diagnostic characteristics & Economic importance of families - (1) Ranunculaceae, (2) Berberidaceae, (3) Malvaceae, (4) Rutaceae, (5) Falsaceae, (6) Apiaceae, (7) Magnoliaceae, (8) Rosaceae, (9) Dipsacaceae, (10) Cucurbitaceae	
		III	Taxonomy - Diagnostic characteristics & Economic importance to families: (1) Rubiaceae, (2) Asteraceae, (3) Apocynaceae, (4) Solanaceae, (5) Lamiaceae, (6) Euphorbiaceae, (7) Liliaceae, (8) Poaceae, (9) Asclpiadaceae, (10) Verbenaceae, (11) Araceae, (12) Muscaceae, (13) Orchidaceae	

AS

Asha Sharma

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE, PG COLLEGE

KOLAR ROAD, BHOPAL MP

TEACHING PLAN FORMAT

NAME	Dr (Mrs) Aasha Sharma			
SUBJECT	Botany			
SESSION	2021-22 (sept to dec.)			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	Msc	II	General characteristics, (2) Classification of fungi (3) Substrate relationship in fungi (4) Reproduction (Vegetative, Asexual, sexual) Hetero	45
	Ist		Halluc. Parasexuality, Hetero karyosis, Economic importance of fungic (fungi in industries, medicine, as food, fungal disease in plants & Humans, Fungus as biocontrol agent, Mycorrhiza	2 = 90
	Sem			
	Sept to Dec.			
7		IV	Mastigomycotina - Saprolegnia, Saprolegnia, Pythium, Phytophthora, Peronospora, Sclerospora, Zygomycotina - Rhizopus, Pilobolus	
			Ascomycotina - Yeast, Taphrina, Aspergillus, Penicillium, Erysiphe, Phyllostictia, Uncinular, Chaetomium, Peziza & Morchella	
		V	General characteristics of Basidiomycotina - Puccinia, Melampsora, Ustilago, Agaricus, Geostrom	
			General characters of Deuteromycotina - Alternaria, Curvularia, Cercospora, Colletotrichum	

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Aasha Sharma

NAME		Dr. Anu Anshu Sharma		
SUBJECT		Botany		
SESSION		2021-22 MSc Sem I (Sept. to Dec)		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	Ist sem MSc	I	General characteristics - classification, Morphology, Reproduction, Life history, Distribution	43 x 2
	(paper III)		origin, evolution & affinities, Ecology & Economic importance of Bryophytes, Contribution to Bryophytes in India	86
		II	General characteristics of Hepaticopsida - Marchantia, Taraxiopsis, Dumortiera, Cyathodium, Plagiocharisma, Sphaerocarpaceae, Pellia, Porella	
			General characteristics of Anthocerotopsida: Anthoceros, Notothylus	
			General characteristics of Bryopsida: Sphagnum, Polytrichum	

(Signature)

Anshu Sharma

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

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TEACHING PLAN FORMAT

NAME	De Aasha Sharma,			
SUBJECT	Botany / Paper II plant development & Reproduction			
SESSION	2021-22 (Jan - April)			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PREIOD
	MSC	I	1) Organization of the higher plant body: shoot & Reproductive meristem, 2) Tissue-system 3) shoot apical meristem	34x 2 =
	II Sem (Jan to April)		4) Root Apical meristem. 5) Lateral Meristem 6) Control of Tissue differentiation especially xylem & phloem. lateral root & Root hair	68
		II	Development of shoot: Secondary growth in stem. Primary & Secondary anomalous structures of stem, origin, development differentiation, arrangement diversity, venation, modifications and anatomy of leaves	
		III	Flower development: floral organ differentiation, Homeotic mutant in Arabidopsis and Antirrhinum, Androecium, Microsporangium, Microsporangogenesis, Role of Tapetum, Male gametophytes & their development, pollen storage, pollen allergy & pollen embryos, Male sterility	

De Aasha

Aasha Sharma

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME		Ms RAFAT FATMA		
SUBJECT		Botany		
SESSION		2021-22 (1 Sept - March 21) Day alloted (Wed + Thurs. day)		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PREIOD
	BSc	I	Plasma membrane structure, function	
	III rd	Sept + Oct	cell wall structure, function	(14)
			nucleus structure & function, chromatin, cell organelle, mitochondria	
			chloroplast, Golgi body, ER, Peroxisome, Eukaryotic cell; vacuole	
7		II	Chromosome morphology, ultra structure of chromosome, The special type of chromosome, polytene chromosome.	(14)
		Nov	Mitosis, Meiosis I, Meiosis II	
		15 th Dec	Variation in chromosome structure deletion duplication, Translocation, Inversion	
			DNA structure, Replication	
		III	Mendel's law, linkage analysis	(14)
		Dec - Jan 15 th	Interaction of genes, Cytoplasmic inheritance, Mutation, Transposable elements, DNA Damage & Repair	
		16 Jan 15 th Feb	Structure of gene, Genetic code, Protein synthesis, Types of RNA	(12)
		15 th Feb	Ribosome/ Regulation of Gene expression	
		15 th Feb - 15 th Mar	Biotechnology, Tissue culture, genetic Engineering, DNA libraries, Vectors, Tools, Agro biotech	(14)

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Rafat Fatma
1 Sept 2021

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME	MS RAPAT FATMA			
SUBJECT	Botany			
SESSION	2021-22 Days-allocated- Monday - 2 Theory per week 5 Saturday - 2 Theory + 6 Pr.			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	MSC	I	① Virus. characteristic - living non living	28 x
		Sept- Octo- ber	② History - classification ③ ultrastructure of Virus, Virioids, Viroids ④ Isolation & purification of Virus ⑤ Cryptogram ⑥ chemical nature of Virus ⑦ Transmission of Virus ⑧ Replication of Viruses ⑨ Economic importance	2 = 56
		unit- II	⑩ Archaeobacteria ⑪ Eubacteria - Bacterial structure, nutrition. ⑫ Asexual & Sexual Reproduction. ⑬ Cyanobacteria, classification, gene	
		Nov. +	⑭ General characters, diagrams. ⑮ Reproduction in cyanobacteria & Economic importance	
		Dec. +	⑯ Actinomyces ⑰ Mycoplasma	
		Jan. first week	⑱ Rickettsiae ⑲ Chlamydiae.	
			⑳ objectives of I st & II nd unit. ㉑ Viral & bacterial diseases.	
			㉒ General characters of Mastigomycotina, & members for practical	
			㉓ General characters of Zygomycotina for practical	
			㉔ General characters of Deuteromycotina. - for practical	
			㉕ General characters of Ascomycotina	
			㉖ General characters of Basidiomycotina. for practical.	

Rapat Fatma
12 Sept 2021

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME		MS RAFAT FATMA		
SUBJECT		Botany MSc III sem. July to Nov.		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	Msc	I	① Nuclear DNA Content, ② DNA Structure and Forms, ③ DNA Replication ④ DNA C-Value and col. curve ⑤ DNA Damage and Repair	45x2 90
	III rd		⑥ Restriction-mapping.	
	Sem.		⑦ Multigene families and their evolution.	
			⑧ Gene Concept - Allele & pseudo alleles. Cistron, recon & muton. 11 locus in T4. one gene one enzyme ^{concept}	
7		II	10- Gene fine structure 11 Cis-trans test of recombination	
			12- Introns and Exon their significance	
			13- Genetics of Bacteria - Sexual conjugation in Bacteria. Mechanism of conjugation. The F factor conjugation mapping.	
			14 Genetics of virus - Replication & recombination in virus, bacteriophage. Lysogenic bacteria. Transduction. Plasmids.	
			15- Regulation of gene expression in Eukaryotes	
		V	1. Cancer oncogene. 2. Apoptosis.	
			3. Immune innater & adaptive system	

Rafat Fatma
28/12/2021

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KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME	Ms Rafal Jahnir			
SUBJECT	Botany - Msc IV sem Paper 401 - Biotechnology & Tissue Culture - unit - I, II, III			
SESSION	2021-22 (Jan - April)			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	Msc	I	① Plant-cell & Tissue Culture: General introduction, history, scope	32x 2 =
2	IV Sem		② Concept of cellular differentiation & Totipotency	64
3			③ Establishment of Lab. ④ Aseptic technique & sterilization of glassware.	
4			⑤ Types & preparations of Media	
5			⑥ Explant technique of tissue culture	
6			⑦ Meristem ⑧ Anther, embryo culture ⑨ Organogenesis	
7		II	⑩ Somatic Hybridization, protoplast isolation, Fusion & culture.	
8			⑪ Somatic cell genetics, ⑫ Application of tissue culture.	
9			⑬ Somaclonal variation ⑭ Production of secondary metabolites	
10			⑮ Cryopreservation & germplasm storage.	
11		III	⑯ Biotechnology principle & Application of biotechnology in Agriculture, horticulture, forestry, food, and industries, health care and immunology, environment biotechnology, and ethics.	
12				
13				
14			I-P.R, Genetic engineering of plants	
15			aims, strategies of Transgenic Agro-bacterium, T-DNA & Gene tagging. Microbial genetic manipulation. Fermentation technology	

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Rafal Jahnir
28/12/2021

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KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME	MS RAFAT PATMA			
SUBJECT	Botany MSc II nd Sem cell biology			
SESSION	2021 - 22. Jan - April			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	MSc	III	Chromosome - (1) Morphology - Packaging of DNA in chromosomes Ultrastructure of chromosome, chemical composition of chromosome. (2) Nucleosome model (3) Special type of chromosome (4) Euchromatin, Hetero chromatin (5) Karyotype (6) Banding patterns, special type of chromo somes. ex - Polytene, Lampbrush, Superneumery, sex chromosome objectives of unit - III	70 periods in 35 days.
		IV	(1) Cell cycle (2) Mitosis (3) Meiosis (4) Programmed cell death. (5) Structural changes in chromosome (6) Numerical changes in chromosome (7) Objective of unit - IV	
		V	(1) Mendel's law - Mono & dihybrid cross; Terminology - Test- & back cross New mendalism. (2) Genetics of mitochondria (3) Genetics of chloroplast (4) Polygenic inheritance (5) Crossing over & linkage (6) Transposable elements (7) Southern blotting. (8) Restriction mapping	

DR

Rafat Patma
28 Dec 2021

2021-22

Teaching plan

Dr. Jyoti Panthi

Mathematics

Class - M.Sc. Sem IV

Paper - Functional Analysis - II

Unit	S.No.	Topics	No. of Lectures
I	1. 2.	Hilbert adjoint operator and its properties Self adjoint operator Unitary, Normal and positive operator	20
II	1. 2.	Adjoint Zorn's Lemma, Hahn-Banach Theorem for real linear spaces Hahn-Banach Theorem for Complex linear spaces and Normed linear spaces	25
III	1. 2. 3.	Adjoint operator on Normed spaces Relation between adjoint operator and Hilbert adjoint operator Reflexive space and Reflexivity of Hilbert space.	15
IV	1. 2. 3.	Category theorem, Baire's Category theorem Uniform Boundedness theorem and sum of its applications strong and weak convergence in Normed spaces	20
V	1. 2. 3.	Convergence of sequences of operators and functionals open mapping theorem, Closed graph theorem Contraction theorem	10

Name :- Dr. Jyoti Panthe

Subject :- Mathematics

Class :- M.Sc. I sem

Paper :- Topology - I

Teaching plan

Unit	S.No.	Topics	No. of lectures
I	1. 2. 3. 4.	Countable, Uncountable and Infinite sets Schröder-Bernstein theorem, Cantor's theorem Continuum Hypothesis Zorn's Lemma well-ordering principle	25
II	1 2 3 4	Topological spaces, Closed sets, Dense sets Interior, Exterior and boundary point Accumulation point Bases, Subbases Subspaces and Relative topology	20
III	1 2	Kuratowski closure operator continuous system and homeomorphism	10
IV	1 2 3	First and Second countable spaces Lindelöf's theorem, separable spaces Second countability and separability	15
V	1 2 3 4	Path connectedness, Connected spaces Compactness Components Locally Connected spaces	20

2021-22

Teaching plan

Name :- Dr. Jyoti Pantli

Sub :- Mathematics

Class :- B.Sc. I year

Paper :- Calculus and Differential Equation

Unit	S.No.	Topics	No. of Lecture
I.	1. 2. 3. 4.	Historical Background Successive differentiation Partial Differentiation Asymptotes	18
II	1. 2. 3.	Curvature Concavity and Convexity Tracing of curves	18
III	1. 2. 3. 4. 5.	Integration of transcendental functions Double and Triple Integral Reduction Formulae Quadrature Rectification	18
IV	1. 2. 3.	Linear differential equations Exact differential equations First order and higher degree differential Equation	18
V	1. 2. 3. 4.	Linear differential equation with constant coefficients Homogeneous linear ordinary differential Equation Linear differential equation of second order Method of variation of parameters	18

2021-22

Teaching plan

Name :- Dr. Tyoti Panthi

Subject :- Mathematics

Class :- B.Sc. II year

Paper :- I (Abstract Algebra)

Unit	S.No.	Topics	No. of lectures
I	1.	Groups	15
	2.	Subgroups	
	3.	Cyclic groups	
II	1.	Coset Decomposition	10
	2.	Lagrange's theorem, Fermat's theorem	
	3.	Normal subgroups	
	4.	Quotient groups	
III	1.	Homomorphism	10
	2.	Isomorphism	
	3.	Permutation groups	
	4.		
IV	1	Group theory - Group Automorphism	15
	2	Conjugacy relation	
	3	Centralizers, Normalizers	
	4	Cauchy theorem for finite abelian and Non-abelian group	
V	1	Rings	10
	2	Integral Domain	
	3	Field	

2021-22

Teaching plan

Name :- Dr. Jyoti Pantli

Subject :- Mathematics

Class :- B.Sc. III year

Paper :- Linear Algebra and Numerical Analysis

Unit	S.No.	Topics	No. of Lecture
I	1	Vector spaces	15
	2	Bases and Dimensions of Vector space	
II	1	Linear Transformation and their representation as Matrices	15
	2	Algebra of Linear Transformation	
	3	Rank Nullity Theorem	
	4	Linear functional, Dual space, Adjoint of linear Transformation	
	5	Eigen values and vectors	
	6	Bilinear, Quadratic and Hermitian	
III	1.	Inner product space	08
IV	1	Solution of Equation	12
	2	Interpolation	
	3	Numerical Quadrature	
V	1	Linear Equation	10
	2	Numerical Solution of Ordinary Differential	
	3	Equation	

2021-22

Teaching plan

Name :- Dr. Jyoti Pantli

Subjects :- Mathematics

class :- M.Sc. II

Paper :- Topology - II

Unit	S.No	Topics	No. of Lectures
I	1, 2, 3	separation Axiom T_1, T_2, T_3, T_4 Urysohn's Lemma Tietze Extension theorem	15
II	1, 2, 3, 4	Compactness, continuous function and Compact Set Compactness and finite intersection property sequentially and countably compact sets Local Compactness	25
III	1, 2, 3, 4, 5	Tychonoff product Topology, Projection Maps separation axioms and product spaces connectedness and product spaces Compactness and product spaces Countability and product spaces	25
IV	1, 2, 3, 4, 5, 6	Net and filters topology and convergence of net Hausdorffness and nets Compactness and nets filters and convergence Canonical way of converting nets to filters and vice versa Ultrafilters and compactness	15
V	1, 2, 3, 4	fundamental group and covering spaces Homotopy of paths fundamental group of Circle fundamental theorem of Algebra	10

2021-22

Name :- Dr. Jyoti Pantli Teaching plan
Subject - Mathematics
Class :- M.Sc. (II) Sem
Paper - Functional Analysis - I

Unit	S.No	Topics	No. of Lectures
I	1. 2.	1. Normed linear spaces, Banach spaces Properties of Banach spaces. 2. Properties of finite dimensional normed linear spaces	25
II	1. 2. 3.	1. Normed linear subspaces, Equivalent Norms 2. Riesz Lemma and Components. 3. Quotient space of Normed linear space and its components.	20
III	1. 2. 3.	1. Linear operator 2. Bounded linear operator 3. Continuous operator	10
IV	1. 2. 3.	1. Linear functional 2. Bounded linear functional 3. Dual spaces with example	15
V	1. 2. 3.	1. Hilbert space, orthogonal complements 2. Orthonormal sets and sequences 3. Representation of functional on Hilbert space	20

Teaching Plan

Name: DR. RAGINI TIWARI

SUBJECT: Physics

Session: 2021-22

B.Sc. Ist yr (P.D.) and B.Sc. IIIrd yr (Phy.)

CLASS	Paper + Unit	Topics to be covered	No. of Periods
B.Sc. I st yr (P.D.)	Unit II	Time and Stress Management and Employability Quotient	10
B.Sc. III rd yr Physical	Paper I Unit I	Nuclear Physics and Elementary Particles	15
B.Sc. III rd yr Physics	Paper II Unit II	Nano Materials	15

Ragini
(DR. RAGINI TIWARI)
HOD Physics

Teaching Plan

Name : Dr. Haasha Jalori

Subject : Physics

Session : 2021-22

B. sc. 1st yr. , IInd yr. , IIIrd yr.

S.No.	Class	Unit	Topics to be covered	No. per
(1)	B. sc. 1st Phy. Major	Unit I	Historical Background laws of Thermodynamics	1
(2)	B. sc. 1st Phy. Major	Unit -II	Entropy	15
(3)	B. sc. 1st Phy. Minor	Unit -II	Mechanics (Solid bodies)	15
(4)	B. sc. 1st Phy. Minor	Unit -III	Mechanics (Deformation)	15
(5)	B. sc. II nd Yr. Phy.	Paper -I Unit -II	Interference of light	15
(6)	B. sc. II nd Yr. Phy.	Paper -I Unit -I	Geometrical optics	15
(7)	B. sc. II nd Yr. Phy.	Paper II Unit -III	Current Electricity	15
(8)	B. sc. III rd Yr. Phy.	Paper -I Unit -I	Quantum Mechanics	15
(9)	B. sc. III rd Yr. Phy.	Paper -II Unit -III	Semiconductor device -I	15
(10)	B. sc. III rd Yr. Phy.	Paper -II Unit -IV	Semiconductor device -II	15

24

Dr. Haasha Jalori

Dr. Mamta Pandey
Deptt. of Physics.

Session - 2021-

Sr. No	Class	Unit	Topic to be Covered	No. of Pp.
1.	B.Sc. I st year.	Unit I Historical background Laws of Thermodynamics (Paper - I)	A brief historical background of thermodynamics and statistical Physics, Thermodynamical system and thermodynamical coordinates. Path and Point function. Laws of thermodynamics, Carnot's Theorem, Otto engine etc.	12
2.	B.Sc. I st year.	Unit - IV Classical statistics (Paper - I)	Probability, Accessible and non-accessible microstates, Ensemble theory, Macro and micro states with examples, Boltzmann Canonical distribution law. Derivation of law of equipartition of energy from statistics. Boltzmann partition function and derivation of expression for internal energy. Helmholtz free energy, Enthalpy and Gibbs free energy.	17
3.	B.Sc. I st year.	second Paper Unit - III Fluid-Mechanics	Surface Tension, Force of cohesion and adhesion, Surface energy, Capillary, determination of surface tension of a liquid - Capillary rise method, Jager's method. Viscosity, streamline and turbulent flow, Euler's eqn. Bernoulli's theorem and its applications, Poiseuille's formula and Stokes formula etc.	14

Sr. No	Unit.	Topic to be Covered.
1.	Paper - II Unit - V Electrodynamics.	Magnetic flux, Electrodynamics Inductance, Faraday's law, self and mutual inductance, Transformer Energy loss in transformer, Electrodynamics energy density, Maxwell's equations and its derivations. Poynting Vector, Reflection and total internal reflection. etc.
2.	Paper - I Unit - III Diffraction.	Fresnel's Half Period Zone, Diffraction at a single slit, at a circular disc Fraunhofer Diffraction, Plane Transmission grating, Resolving Power Rayleigh's Criterion for just resolution Dispersive Power of grating, etc.
3.	Paper - II Unit - I Electrostatics.	Electric Field & Potential, Laws of Conservation of Charge, Electric Field and electric intensity, Electric dipole and electric field at a point due to an electric dipole. electric quadrupole and intensity of electric field at a point. Gauss' law and its applications, Poisson's and Laplace equations etc.

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Sr.No	Unit	Topic to be Covered.
1.	First Paper Unit - IV Molecular Spectroscopy	Various topic of spectra, Isotope effect, zero point energy, Raman effect, Electronic spectra, single and triplet states, Franck-Condon principle, Born-Oppenheimer approximation, Elementary concept and applications of NMR and EPR
2.	Second Paper Unit - II Solid state Physics-2	Dulong Petit, Einstein and Debye theories of specific heat of solids Optical and acoustic modes, specific heat of electron, Hall effect, dia, para. and ferromagnetic materials, Curie's law, Weiss' theory of ferromagnetism and ferromagnetic domains, B-H hysteresis etc.
3.	First Paper Unit - II Quantum mechanics-2	One-dimensional potential well and barrier, Reflection and transmission coefficients. Free particle in one-dimensional box, Eigenfunctions and eigen values of a free particle. Rigid rotator, particle in a three dimensional box, Angular Momentum, Properties of Pauli spin matrices.

TEACHING PLAN

Dr. Dharmesh Kumar Khare

Subject : Physics

Session : 2021-22

B. Sc. I Year, B. Sc. II Year, B. Sc. III Year

S. No.	Class	Unit	Topics to be Covered	No. of Periods
1	B. Sc. I Year Major	Paper I Unit V	Maxwell-Boltzmann law of distribution of velocities and speeds, Doppler broadening of spectral lines, Canonical partition function, Maxwell-Boltzmann statistics, Bose-Einstein statistics and Fermi-Dirac statistics, Rayleigh-Jeans law, Stefan-Boltzmann law, Planck's law, Fermi level and energy, Free electron theory of Metals.	15
2	B. Sc. I Year Major	Paper II Unit IV	Conservative and Non-conservative forces, Theorem of conservative force, Potential energy, Gravitational potential energy, Gravitational potential and intensity due to uniform shell and solid sphere, Gravitational self energy, Motion under central force, Kepler's laws, Elastic and inelastic scattering.	15
	B. Sc. I Year Major	Paper II Unit V	Frame of reference, Galilean transformations, Michelson-Morley experiment, Special theory of relativity, Lorentz transformations, Length contraction, Time dilation, Addition of velocities, Variation of mass with velocity, Mass-Energy relation, Rest mass, energy and momentum of a Photon.	15
3	B. Sc. I Year Minor	Paper II Unit IV	Conservative and Non-conservative forces, Theorem of conservative force, Potential energy, Gravitational potential energy, Gravitational potential and intensity due to uniform shell and solid sphere, Gravitational self energy, Motion under central force, Kepler's laws, Elastic and inelastic scattering,	15
4	B. Sc. I Year Minor	Paper II Unit V	Frame of reference, Galilean transformations, Michelson-Morley experiment, Special theory of relativity, Lorentz transformations, Length contraction, Time dilation, Addition of velocities, Variation of mass with velocity, Mass-Energy relation, Rest mass, energy and momentum of a Photon.	15
5	B. Sc. II Year	Paper I Unit IV	Polarisation of EM Waves, Plane polarised light- Production and analysis, Propagation of EM waves in anisotropic media, Uniaxial and Biaxial crystals, Double refraction, Huygen's principle, Fresnel's formula, Nicol prism, Optical rotation,	15

	B. Sc. II Year	Paper I Unit IV	Laser and its characteristics, Einstein's prediction, Einstein's coefficients, Pumping schemes, Resonators, Ruby laser, He-Ne laser, Applications of Lasers, Principle of Holography, Photo-diodes, Photo-transistors.	15
7	B. Sc. II Year	Paper II Unit II	Force on a moving charge in a Magnetic field, Lorentz force, Force on a straight current carrying conductor in a uniform magnetic field, Magnetic dipole, Dipole moment, Biot and Savart's law, Anchor ring, Ampere's law, Field due to a magnetic dipole, Free and bound currents, Magnetisation vector, Relationship between B , H and M .	15
8	B. Sc. II Year	Paper II Unit IV	E as an accelerating field, Electron gun, Linear accelerator, E as a deflecting field-CRO, Transverse B field, 180° deflection, Mass spectrograph and velocity selector, Principle and working of Cyclotron, Principle of magnetic focusing.	15
9	B. Sc. III Year	Paper I Unit III	Quantum numbers, Bohr model, Selection rules, Stern-Gerlach experiment, Spin quantum number, Orbital angular momentum, Fine structure, Total angular momentum, Pauli's exclusion principle, Symmetric and anti-symmetric wave functions, Atomic shell model, Spectral notations for atomic states, L-S and j-j coupling, Zeeman effect, Continuous and characteristic X-rays, Moseley's law.	15
10	B. Sc. III Year	Paper I Unit V	Basic properties of Nucleus, Alfa particle spectra, Velocity and energy of alfa particles, Geiger-Nuttall law, Beta ray spectra, The neutrino and its physics, Positron emission and electron capture, Selection rules, Beta absorption, Range of beta particles, Pair production, Q-values and threshold of nuclear reactions, Compound nucleus, Shell model, Fission and fusion, Classification of elementary particles.	15
11	B. Sc. III Year	Paper II Unit I	Crystalline and amorphous solids, Lattice and basis, Unit cell, Reciprocal lattice, Bravais lattices, Miller indices, SCC, BCC and FCC lattices, Laue and Bragg's equations, X-rays, X-ray spectrometer, Ionic, covalent, metallic, vander Waals and hydrogen bonding, Band theory of solids, Periodic potential and Bloch theorem, Kronig-Penny model.	15
12	B. Sc. III Year	Paper I Unit V	Introduction to Nano technology, Structure and size dependent properties, 3D, 2D, 1D, 0D nano structure materials and their density of states, Surface and interface effects, Modelling of quantum size effect, Bottom up and Top down approach, Wet chemical method, Nano lithography, Metal and semiconducting nano materials, Applications of nano crystals.	15



Dr. Dharmesh Kumar Khare

2021

SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME	Dr. Kirti Jani			
SUBJECT	Botany			
SESSION	2021 - 22			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	B.Sc III ^{yr}	Pageant Unit I	Plant water relation - Properties of water, importance of water in plant life, Diffusion, osmosis & osmotic relation to plant cell. Water Absorption, Ascent of Sap. Transpiration: Str. & Physiology of Stomata, Mechanism of Transpiration, factors affecting the rate of Transpiration.	15
		Unit III	Photosynthesis - Chloroplast, Photosynthetic pigments, concept of two photosystem, light reaction, Red drop, Emerson's effect-dark reaction - Calvin cycle, Hatch-slack cycle, CAM cycle, factors affecting rate of photosynthesis, Photorespiration.	15
		Unit IV	Respiration - Mitochondria, aerobic & anaerobic respiration, Respiratory Quotient, mechanism of respiration, Glycolysis, Krebs' cycle, PPP, ET system, factors affecting rate of Resp. Redox potential.	20
		Unit V	Enzymology - Classification, Nomenclature & Characteristic of enzymes, Concept of holoenzyme, apoenzyme, Co-enzyme, Co-factors, mode of mechanism of enzyme action, factors, enzyme activity.	20
			Plant Hormones - Discovery, Str. mode of action & role of auxin, Gibberellins, Cytokinins, Abscisic acid & Ethylene.	
	M.Sc III Sem.	Pageant Unit II	The species concept, Taxonomic hierarchy, ICBN, Taxonomic evidence; Taxonomic Tools: Literalia, Flora, Kistological, Biochemical, Cytological.	17
		Unit III	System of Angiosperms classification - origin of Angio. Pheletic vs Phylogenetic System Cladistics in taxonomy Plant exploration, invasion & introduction and Sec. centres, world centre of Pri diversities & domesticated plant.	20
	M.Sc III	Unit I	Fundamentals of Enzymology	15
	III rd part	Unit II	Photochemistry & Photosynthesis. Calvin cycle, Photorespiration and its significance, C ₃ cycle.	15
		Unit III	Respiration: Overview of Plants respiration, Glycolysis, TCA cycle, Electron Transport Str. function & Synthesis ATP.	13

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME		Dr. Kiran Jari		
SUBJECT		Botany		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	M.Sc Sem II	Paper III	Unit I- Principles of thermodynamics, free energy, Redox potential, Water Absorption, Transpiration, Mineral Nutrition, Root-microbe interaction in facilitating nutrient uptake, Membrane Transport	15
		Unit II	Phloem Transport, Signal Transduction, Receptor and G-protein, phospholipid signalling	15
		Unit III	Plant growth regulators and elicitors, Physiological effect and mechanism of action of auxin, gibberellin, cytokinins, ethylene, abscisic acid, hormone receptors.	12
	M.Sc Sem IV	Unit IV	Unit I Definition and scope of Ethnobotany - Historical review, Branches of ethnobotany	12
		Unit II	Preservation of Genetic diversity, Plants used in various systems of medicine - Ayurvedic, Unani and Homeopathic system. Plants used by villagers and Tribal people, Role of ethnobotany in Devt. of society	13
		Unit III	Ethnobotanical Importance of Different medicinal plants.	12
		Unit IV	Plants in mythology, Taboos and Totems in relation to plants, folklore and folk tales, wild life protection in tribal, plant domestication by tribal. Ethnobotanical Importance of medicinal Plants.	13
		Unit V	Detailed Study of the common plants & their parts used in the treatment of various fungal, viral, bacterial disease.	12

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TEACHING PLAN FORMAT

NAME	Dr. Aruna Jain			
SUBJECT	Botany			
SESSION	2021 - 22 .			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1.	B.Sc. II Paper I	IV	Embryology . Concept of flower as a modified shoot . St. of Anther Micro-sporogenesis & ♂ gametophyte . St. of Prstil/Govules Meiosporogenesis & Dev. of ♀ gametophyte (Embryosac) & its types . Pollination - Mechanism & Agents of Pollination P-P interactions . Self incompatibility	15
		V	Embryology . Double fertilization & triple fusion . Dev. & types of endosperm & morphological nature . Dev. of Embryo in Monocot & Dicot plants . Polyembryony & Apomixis . Application of Palynology . Experimental Embryology including Pollen storage & test tube fertilization . Fruit Dev. Seed of & dispersal . Mode of vegetative propagation .	15
	B.Sc. II Paper II	V	Phytogeography . Phylogeographical regions of India . Vegetation types of MP & India . Natural resources . Holniche classification . Conservation & management of natural resources . Land resource management . Water & wetland resource management . Economic & Ethnobotany	15
2	M.Sc. Sem. I Paper III	III	Gen. characters classification origin , Telome theory , Stelar organisation . Homospory Heterospory & Seed habit . Reproduction Indian Contribution to Pteridophyta . Palaeobotany & Geological Time Scale . Fossilisation . Types of Fossils .	15

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TEACHING PLAN FORMAT

NAME	Dr. Aruna Jain -			
SUBJECT	Botany			
SESSION	2021-22			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	M.Sc. Sem. I Paper III	IV	General characters of Psilophyta : Rhynia, Horneophyton, Zosterophyllum, Psilophyton, Asteroxylon, Psilotum, Tmesipteris. Gen. characters of Lycopsidea : Lycopodium, Protolepidodendron, Lepidodendron, Isoetes, Selaginella.	15
		V	General characters of Sphenophyta : Hyenia, Sphenophyllum, Calamites, Equisetum. Gen. characters of Filicophyta : Ophioglossum, Osmunda, Gleichenia, Filicophyta, Dryopteris, Lygodium, Marsilea, Salvinia, Azolla.	15
	M.Sc. Sem. III Paper III	IV	Structure, Classification and function of Carbohydrates. Biosynthesis of Sucrose and Starch. St. & function of Lipids. Fatty acid biosynthesis, Synthesis of membrane lipids; structural lipids & storage lipids & their catabolism, Glyoxylate cycle & alternative oxidase system.	15
		V	Nitrogen Fixation (Chemical & biological) Nodule Formation. Mechanism of Nitrate uptake & reduction → ammonium assimilation, sulphate uptake, transport and assimilation. Sulphur metabolism. Vitamins (Structure & role.)	14

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TEACHING PLAN FORMAT

NAME		Dr. Aruna Jain -		
SUBJECT		Botany -		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	M.Sc.	IV	Flowering Process. Floral induction & dev. Photoperiodism & its significance	15
	Sem II		Endogenous clock & its regulation.	
	Paper III		Movements, Phytochrome & Cryptochrome, their photochemical & biochemical properties. Molecular mechanism of action of photomorphogenetic receptors	
		V	Stress physiology. Plant response to biotic & abiotic stress, water deficit, drought resistance. Salinity stress & response	14
			concepts of freezing. Heat stress & oxidative stress.	
	M.Sc.	III	Techniques of cultivation & marketing of Chlorophytum, Guggal, Rauwolfia sp.	6
	Sem IV	IV	Plants in Entrepreneurial areas. Use of plants in earning livelihood - such as Bamboos, Rattans Raw materials of papermaking, Gums, Tannins, dyes, resins & fruits. Techniques of cultivation & marketing of Aromatic plants - Lemongrass, panna kora, Floriculture - rose & gladioli	15
	Paper III			
	Elective	V	Plants in Entrepreneurial Areas. Techniques of cultivation & marketing of Mushrooms	15
			cultivation of few plants using tissue culture techniques. Bonsai Techniques.	

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NAME		DR. S.D. Singh.		
SUBJECT		Botany.		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	B.Sc.			
2	Ist year	II	pollution, Definition, types.	14
3	Elective		& pollution, water, Air,	
4			land, Chemical pollution	
5			Effect of pollution, Awareness	
6			& pollution, Technique to	
7			reduce pollution.	
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ADYALAYA, BHO
 (MADESH)
 P. No. 2643061

CVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE, PG COLLEGE

KOLAR ROAD, BHOPAL MP

TEACHING PLAN FORMAT

For B.Sc. Classes

NAME	DR. S. D. Singh.			
SUBJECT	Botany.			
SESSION	2021-22			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	B.Sc. II year		Ecology, concept, definition	35
2	Botany		Components of Ecology.	
3	II nd	I	Types of Ecosystem.	
4	Part		Food chain, Food web	
5			mineral cycling, Energy-	
6			flow, pyramids their.	
7			Types, Volume, Mass and	
8			numbers pyramid,	
9			Biodiversity, population ecology	
10			Distribution pattern, Density and	
11			natality, Ecotype and ecads.	
12		II	Community ecology, Frequency.	
13			Density and abundance. Hot spot	
14		V	of India, Biogeographical areas.	
15				

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NAME		DR. S. D. Singh		
SUBJECT		Botany		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	M.Sc.	III rd		
2	Sem.	IV th	pollution, introduction, definition.	28 X 2 = 56
3		Unit	pollution and climate change, Types	
4			of pollution, Air, water, Land,	
5			soil pollution Green house effect,	
6			Global Warming, Bio remediation.	
7		V th	Remote Sensing, introduction	
8		Unit	definition, Applications, Resource	
9			Monitoring Remote Sensing visual,	
10			Digital interpretation, EMR,	
11			Band, satellites their types,	
12			Satellite imagery, Thematic,	
13			mapping, Radiometers, Sunsynchro	
14			nous satellite, METSAT, satellite	
15			polar satellites etc.	

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T. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

M.Sc.(F) IVth Sem.

NAME		Dr. S.D. Singh .		
SUBJECT		Botany .		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	M.Sc.			
2	IV th Sem.	III rd	Floriculture, Mushroom cultivation.	28 x 2 = 56
3		Unit	techniques and application, Nursery management.	
4			Entrepreneurial development.	
5		IV th	microscopy. working principle and	
6		unit	applications. Types of microscopes,	
7			Spectrophotometer, Electrophoresis,	
8			calosimeter: pH meter, Centrifuge,	
9			basic knowledge.	
10		V th	Introduction to computer,	
11			fundamentals, MS. office,	
12			Usage of computer in biology,	
13			Sample graph plotting, networking	
14			of computer, basic need and	
15			application, literature search.	

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For M.Sc. Classes Ist Sem.

NAME		DR. S. D. Singh		
SUBJECT		Botany		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	M.Sc.		Gymnosperm. Definition, classification	35 x 2 = 70
2	I st Sem.	I st	General characters of Gymno.	
3			Different slides of gymnosperms.	
4			Types of Gymnosperms, Morphology	
5			and anatomy, Economic importance	
6			of Gymnosperms, fossil Gymnos.	
7			and their uses.	
8		II nd	General character of fossil gymnosperm,	
9			Lyginopteris, medullosa, Glossopteris.	
10			Caytonia, Pentoxylon.	
11		III rd	General characters, Morphology, anatomy	
12			Reproduction, life cycle of the	
13			following gymnosperm members	
14			Ephedra, Gnetum and	
15			Welwitschia.	

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GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE
KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT M.Sc. (P) IInd Sem.

NAME		Dr. S.D. Singh		
SUBJECT		Botany		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	M.Sc.			35 x 2 = 70
2	II nd Sem.	III rd Unit	Ecological stability concept (resilience and resistance). Ecological	
3			Disturbance - natural and anthropogenic and their impact on plants, and ecosystems. Ecosystem restoration	
4				
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6				
7		IV th Unit	fate of Energy and matter in ecosystem: Trophic organization and structure, food chain, Food web, Energy flow Path way, Ecological efficiencies, Consumption, assimilation, and Production trophic, Primary Production method of measurement, limiting factors. Litter fall, and decomposition, Recycling Path way, relation between energy flow	
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SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE, PG COLLEGE
KOLAR ROAD, BHOPAL MP
TEACHING PLAN FORMAT

2

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE, PG COLLEGE
KOLAR ROAD, BHOPAL MP
TEACHING PLAN FORMAT

M.Sc. P.T. 2nd Sem.

NAME		Dr. I.D. Singh		
SUBJECT		Botany		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1			and recycling pathway nutrient cycling Global biogeochemical cycle of C, N, P, S.	
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4				
5		IV	Major biomes, major vegetation and soil types of world. Botanical regions of India - tropical rain forest, boreal forest, grassland, desert, aquatic ecosystem. wetland, lakes, ponds, streams, rivers, marine and estuarine habitats.	
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GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE, PG COLLEGE

KOLAR ROAD, BHOPAL MP

TEACHING PLAN FORMAT

NAME		Dr. Sarla Patel		
SUBJECT		Botany (Basic botany)		
SESSION		B.Sc. I st year. (2021-2022)		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1.	B.Sc. I st year Paper II	II	Algae - General characteristics. Range of thallus organization.	3
			Reproduction.	2
			Types of life-cycle in algae algae.	2
			Role of Algae in nature and	2
			its economic importance.	2
			Bryophyta - General characteristics.	3
			Ecology.	
			Range of thallus organization.	2
			morphology Anatomy (Internal and external features) and	2
			Reproduction of Any one bryophyte.	
			Economic importance of Bryophyta.	2
	B.Sc. I st year Paper II	IV	Fungi - General characteristics and cell wall composition.	3
			Mode of nutrition.	2
			Types of Reproduction.	2
			Economic importance, Parasexuality and mycorrhiza.	2
			Lichens & Brief knowledge and their significance.	2

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TEACHING PLAN FORMAT

NAME	Dr. Sarla Patel			
SUBJECT	Botany. (Applied Botany)			
SESSION	B.Sc. I st year. (2021-2022)			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	B.Sc. I Paper I	III	• Ancient agriculture practices.	3
			• modern agriculture practices.	3
			polyhouse, drip irrigation.	3
			hydroponics, terrace farming.	3
			• organic farming-Introduction	3
			objective and brief technique.	3
			• Horticulture	3
			• Forestry	3
			• Silviculture.	3
		IV	• Role of botany in rural development.	3
			• Ethnobotany.	2
			• Ethnomedicine.	2
			• Ethnofibers.	3
			• Ethnofood crops.	3
		V	• Plant tissue culture.	3
			• DNA Recombinant technique.	3
			• Role of recombination in present era.	3
			• Bioinformatics.	2
			• Introduction of bioinformatics	3
			software. Basic idea of BLAST	2
			and FASTA.	2

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TEACHING PLAN FORMAT

NAME		Dr. Sankar Patel		
SUBJECT		Botany		
SESSION		M.Sc. I st sem (2021-2022)		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1.	M.Sc. I st sem	I	General characteristics of Algae.	4
			Diversified Habitats.	6
			Thallus organization.	6
			cell ultra structure Reproduction.	6
			classification of Algae. Pigmentation.	6
			reserve food. Flagella classification.	5
			Economic importance of Algae.	3
			Technique of Algal culture.	3
2.	M.Sc. I st sem	II	General characteristics of dinoflagellates and charophyta.	3
			Chlamydomonas, Sphaerella	8
			Pandorina, Eudorina, Chlorella	5
			Hydrodictyon, Pedocastrum.	8
			Ulothrix, Cladophora, Spirogyra	
			Zygnema, Bryopsis and Nitella.	

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VT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE, PG COLLEGE

KOLAR ROAD, BHOPAL MP

TEACHING PLAN FORMAT

NAME				
SUBJECT				
SESSION				
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	M.Sc. III rd sem	I	Plant Biodiversity concept status in India & world.	3
2			World center of primary diversity of domesticated plants.	2
3			Hot spot, Red Data book, endangered and threatened species of India.	3
4			Hot spot, Red Data book, endangered and threatened species of India.	4
5		unit II	sustainable Development.	2
6			utilization of resources from Forest, Grass land, Aquatic Habitats.	5
7			food, fodder, forage, Timber and non wood forest product.	3
8			Threats of quality and quantity of resources due to over exploitation.	3
9			speciation and extinction IUCN categories of threat.	2
10			Distribution and global pattern	3
11			Terrestrial biodiversity.	2
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13				

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Dr.

T. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME					Dorendra Singh Patel
SUBJECT					Bot.
SESSION					2021-22
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD	
	BSc I P-I	I	History of applied botany & Intro, Evolution of botany, relation of plants to man, disciplines of botany & human welfare	8	
		II	Pollution & types, phytoremediation & bioremediation	8	
	P-II	III	Ancient agr. practices, Polyhouse, drip irrigation, hydroponics, terrace farming, Organic farming, horticulture, forestry, silviculture	15	
		IV	Plant tissue culture, Recomb. DNA tech; Role of recombi. DNA tech, Bioinformatics, BLAST, FASTA	10	
	BSc III Pa	I	History of Botany - Indian Contribution Morphology of lower & higher plants Cell structure, Microscope types - SEM, TEM	10	

Devendra Singh Patel

Botany

2021-22

SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	M.Sc IV Sem P-II	I	Plants in daily life, Plants used in cosmetics, herbal cosmetic products, Plants used in hair care & skin care, herbal beverages	8
		II	Aromatherapy - Intro, history, Essential oil, Extraction - Soxhlet, Applied aspect of aromatherapy	8

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NAME	Devendra Singh Patel			
SUBJECT	Botany			
SESSION	2021-22			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	BSc III	II	Biomolecules- Carbohydrate, Proteins,	8
	Paper I		Vitamins, Mineral Nutrition - Micronutrients and macronutrients	
	MSc II	I	Structure and organi of plant cell,	8
	Pa-I		cell wall, Plasma memb, ion carriers, Channels, pumps, Receptors, ATPase	
		III	Structure and function of Nucleus,	10
			Nucleolus, Nucleosome, Chromosome, Karyotype Heterchromatin, Euchromatin, Banding	
	MSc IV	IV	Recombi. DNA Tech, gene cloning	10
	Paper I		cDNA library, genomic library, Vector, PCR, DNA fingerprinting	
		V	Genomics, Proteomics, molecular markers, Artificial chromosomes, Genome projects, bioinformatics, microarrays, Protein Profiling	12

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GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE, PG COLLEGE

KOLAR ROAD, BHOPAL MP

TEACHING PLAN FORMAT

NAME				
SUBJECT				
SESSION				
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
Dr. (Mrs) Asha Sharma				
Botany, Paper I, BSc II nd year				
2021-22 (Sept to March)				
1	Bsc	I	Taxonomy: Origin & Evolution of Angiosperms: Principles and Rules of Botanical Nomenclature; Museum, Herbarium and Botanical Garden; Comparative account of various system of classification of Angiosperms; Bentham & Hooker and Modern Trends in Taxonomy including molecular taxonomy, APC, LV system.	(42)
(Sept to March)	II		Taxonomy - Terminology for plant description in semi-technical language; Diagnostic characteristics & Economic importance of families - (1) Ranunculaceae, (2) Berberidaceae, (3) Malvaceae, (4) Rutaceae, (5) Fabaceae, (6) Apiaceae, (7) Magnoliaceae, (8) Rosaceae, (9) Dipsacaceae, (10) Cucurbitaceae	
		III	Taxonomy - Diagnostic characteristics & Economic importance to families: (1) Rubiaceae, (2) Asteraceae, (3) Apocynaceae, (4) Solanaceae, (5) Lamiaceae, (6) Euphorbiaceae, (7) Liliaceae, (8) Poaceae, (9) Ascladiaceae, (10) Verbenaceae, (11) Araceae, (12) Musaceae, (13) Orchidaceae	

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Asha Sharma

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE, PG COLLEGE

KOLAR ROAD, BHOPAL MP

TEACHING PLAN FORMAT

NAME		Dr (Mrs) Aasha Sharma		
SUBJECT		Botany		
SESSION		2021-22 (Sept to Dec.)		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	Msc Ist	III	General characteristics, Classification of fungi, Relationship in fungi, Vegetative, Asexual, sexual, Hetero	45 2 = 90
	Sem Sept to Dec.		Halluc, Parasexuality, Hetero karyosis, Economic importance of fungi (fungi in industries, medicine, as food, fungal disease in plants & Humans, Fungus as biocontrol agent, Mycorrhiza	
7		IV	Mastigomycotina - Saprolegnia, Zygomycotina - Rhizopus, Pilobolus, Ascomycotina - Yeast, Taphrina, Aspergillus, Penicillium, Erysiphe, Phyllostictia, Uncinular, Chaetomium, Peziza & Morchella	
		V	General characteristics of Basidiomycotina - Puccinia, Melampsora, Ustilago, Agaricus, Geostrom	
			General characters of Deuteromycotina - Alternaria, Curvularia, Cercospora, Colletotrichum	

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Aasha Sharma

NAME				
SUBJECT				
SESSION				
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	1st sem MSc	I	General characteristics - classification, Morphology, Reproduction, Life history, Distribution	43 x 2
	(paper III)		origin, evolution & affinities, Ecology & Economic importance of Bryophytes, Contribution to Bryophytes in India	86
		II	General characteristics of Hepaticopsida - Marchantia, Taraxiopsis, Dumortiera, Cyathodium, Plagiocharisma	
			Sphaerocarpaceae, Pellia, Porella	
			General characteristics of Anthocerotopsida: Anthoceros, Notothylus	
			General characters of Bryopsida	
			Sphagnum, Polytrichum	

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Ashe Sharma

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME	De Aasha Sharma,			
SUBJECT	Botany / Paper II plant development & Reproduction			
SESSION	2021-22 (Jan - April)			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PREIOD
	MSC	I	① Organization of the higher plant body: shoot & Reproductive meristem, ② Tissue-system ③ shoot apical meristem	34x 2 =
	II Sem (Jan to April)		④ Root Apical meristem. ⑤ Lateral Meristem ⑥ Control of Tissue differentiation especially xylem & phloem. lateral root & Root hair	68
		II	Development of shoot: Secondary growth in stem. Primary & Secondary anomalous structures of stem, origin, development-differentiation, arrangement-diversity, Venation, modifications and anatomy of leaves	
		III	Flower development; floral organ differentiation, Homeotic mutant in Arabidopsis and Antirrhinum, Androecium, Microsporangium, Microsporangogenesis, Role of Tapetum, Male gametophytes & their development, Pollen storage, pollen allergy & pollen embryos, Male sterility	

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Aasha Sharma

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME		Ms RAFAT FATMA		
SUBJECT		Botany		
SESSION		2021-22 (1 Sept - March 21) Day alloted (Wed + Thurs. day)		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PREIOD
	BSc	I	Plasma membrane structure, function	
	III rd	Sept + Oct	cell wall structure, function	(14)
			nucleus structure & function, chromatin, cell organelle, mitochondria	
			chloroplast, Golgi body, ER, Peroxisome, Eukaryotic cell; vacuole	
7		II	Chromosome morphology, ultra structure of chromosome, The special type of chromosome, polytene chromosome.	(14)
		Nov	Mitosis, Meiosis I, Meiosis II	
		1 st Dec	Variation in chromosome structure deletion duplication, Translocation, Inversion	
			DNA structure, Replication	
		III	Mendel's law, linkage analysis	(14)
		Dec - Jan 15 th	Interaction of genes, Cytoplasmic inheritance, Mutation, Transposable elements, DNA Damage & Repair	
		16 Jan 15 th Feb	Structure of gene, Genetic code, Protein synthesis, Types of RNA	(12)
		1 st Feb	Ribosome/ Regulation of Gene expression	
		15 Feb - 1 st Mar	Biotechnology, Tissue culture, genetic Engineering, DNA libraries, Vectors, Tools, Agro biotech	(14)

Rafat Fatma
1st Sept 2020

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME	Ms RAPAT FATMA			
SUBJECT	Botany			
SESSION	2021-22 Days-allocated- Monday - 2 Theory per week 5 Saturday - 2 Theory + 6 Pr.			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	MSC	I	① Virus. characteristic - living non living	28 x
		Sept- Octo- ber	② History - classification ③ ultrastructure of Virus, Virioids, Viroids ④ Isolation & Purification of Virus ⑤ Cryptogram ⑥ chemical nature of Virus ⑦ Transmission of Virus ⑧ Replication of Viruses ⑨ Economic importance	2 = 56
		unit- II	⑩ Archaeobacteria ⑪ Eubacteria - Bacterial structure, nutrition. ⑫ Asexual & Sexual Reproduction. ⑬ Cyanobacteria, classification, gene	
		Nov. +	⑭ General characters, diagrams. ⑮ Reproduction in cyanobacteria & Economic importance	
		Dec. +	⑯ Actinomyces ⑰ Mycoplasma	
		Jan. first week	⑱ Rickettsiae ⑲ Chlamydiae.	
			⑳ objectives of I st & II nd unit. ㉑ Viral & bacterial diseases.	
			㉒ General characters of Mastigomycotina, & members for practical	
			㉓ General characters of Zygomycotina for practical	
			㉔ General characters of Deuteromycotina. - for practical	
			㉕ General characters of Ascomycotina	
			㉖ General characters of Basidiomycotina. for practical.	

Rapat Fatma
12 Sept 2021

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME		MS RAFAT FATMA		
SUBJECT		Botany MSc III sem. July to Nov.		
SESSION		2021-22		
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	Msc	I	① Nuclear DNA content, ② DNA Structure and forms, ③ DNA Replication ④ DNA C-Value and col. curve ⑤ DNA Damage and Repair	45x2 90
	III rd		⑥ Restriction-mapping.	
	Sem.		⑦ Multigene families and their evolution.	
			⑧ Gene Concept - Allele & pseudo alleles. Cistron, recon & muton. 11 locus in T4. one gene one enzyme ^{concept}	
7		II	10- Gene fine structure	
			11 Cis-trans test of recombination	
			12- Introns and Exon their significance	
			13- Genetics of Bacteria - Sexual conjugation in Bacteria. Mechanism of conjugation. The F factor conjugation mapping.	
			14 Genetics of virus - Replication & recombination in virus, bacteriophage. Lysogenic bacteria. Transduction. Plasmids.	
			15- Regulation of gene expression in Eukaryotes	
		V	1. Cancer oncogene.	
			2. Apoptosis.	
			3. Immune innater & adaptive system	

Rafat Fatma
28/12/2021

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME	Ms Rafal Jahnir			
SUBJECT	Botany - MSc V Sem Paper 401 - Biotechnology & Tissue Culture - unit - I, II, III			
SESSION	2021-22 (Jan - April)			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
1	Msc	I	① Plant-cell & Tissue Culture: General introduction, history, scope	32x 2 =
2	IV Sem		② Concept of cellular differentiation & Totipotency	64
3			③ Establishment of Lab. ④ Aseptic technique & sterilization of glassware.	
4			⑤ Types & preparations of Media	
5			⑥ Explant- technique of tissue culture	
6			⑦ Meristem ⑧ Anther, embryo culture ⑨ Organogenesis	
7		II	⑩ Somatic Hybridization, protoplast isolation, Fusion & culture.	
8			⑪ Somatic cell genetics, ⑫ Application of tissue culture.	
9			⑬ Somaclonal variation ⑭ Production of secondary metabolites	
10			⑮ Cryopreservation & germplasm storage.	
11		III	⑯ Biotechnology principle & Application of biotechnology in Agriculture, horticulture, forestry, food, and industries, health care and immunology, environment biotechnology, and ethics.	
12				
13				
14			I-P.R, Genetic engineering of plants, animals, strategies of Transgenic Agro-bacterium, T-DNA & Gene tagging. Microbial genetic manipulation. Fermentation technology	
15				

Rafal Jahnir
28/12/2021

GOVT. DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE ,PG COLLEGE

KOLAR ROAD ,BHOPAL MP

TEACHING PLAN FORMAT

NAME	MS RAFAT PATMA			
SUBJECT	Botany MSc II nd Sem cell biology			
SESSION	2021 - 22. Jan - April			
SNO	CLASS	UNIT	TOPICS TO BE COVERED	NO. OF PERIOD
	MSc II nd Sem	III	Chromosome - (1) Morphology - Packaging of DNA in chromosomes ultra structure of chromosome, chemical composition of chromosome. (2) Nucleosome model (3) Special type of chromosome (4) Euchromatin, Heter chromatin (5) Karyotype (6) Banding patterns, special type of chromo somes. ex - Polytene, Lampbrush, Superneumery, sex chromosome objectives of unit - III	70 periods in 35 days.
		IV	(1) Cell cycle (2) Mitosis (3) Meiosis (4) Programmed cell death - (5) Structural changes in chromosome (6) Numerical changes in chromosome (7) Objective of unit - IV	
		V	(1) Mendel's law - Mono & dihybrid cross; Terminology - Test- & back cross - New mendalism. (2) Genetics of mitochondria (3) Genetics of chloroplast - (4) Polygenic inheritance (5) Crossing over & linkage (6) Transposable elements (7) Southern blotting. (8) Restriction mapping	

DR

Rafat Patma
28 Dec 2021

2

B.Com. I year
Teaching Plan

Name - DR. SHIVALI SHAKYA

Subject - ~~Business Statistics Mathematics~~

Session - 2021-22

S.No.	B.Com. Class	Unit	Topic to be Covered	No. of hrs
	B.Com I year	<u>I</u>	Brief history of Vedic Maths in Indian knowledge traditions, Methods and Practice of quick calculation of addition, Multiplication, Square & Square roots, Method of quick verification of answer	15
		<u>II</u>	Rules for sign in Algebra and practice, Rules of Calculation (BODMAS) Simultaneous Equations	15
		<u>III</u>	Theory of Indices, Logarithm & Antilogarithm, Percentage	15
		<u>IV</u>	Ratio, Proportion, Discount Brokerage	15
		<u>V</u>	Commission, Average, Profit & Loss	15
		<u>VI</u>	Simple & Compound Interest	15

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Bo:Com II year

TEACHING PLAN

NAME- DR. SHIVALI SHAKYA

SUBJECT- Principle of Statistics

SESSION- 2021-22

No.	Class	Unit	Topic to be covered	No. of Periods
01.	Bo:Com II year	I	Statistics - meaning, definition, scope & limitation, Data Collection, Methods of Sampling, Preparation of Sampling & questionnaire, Classification & tabulation of Data Preparation of Statistical Series of Data & types	06
		II	Measurement of Central Tendency - Mean, Mode, median, Quartile, geometric & Harmonic Mean Dispersion & Skewness -	10
		III	Analysis of Time Series, Longterm trends, measurement of Cyclical and Irregular Fluctuations	08
		IV	Correlation - meaning, Definition, types, Linear Regression, Regression Equation, Calculation of Coefficient of Regression	08
		V	Index number - Importance & uses, Construction of Index number, Cost of living & Fisher's Ideal Index number Diagrammatic & graphic Presentation of Data	08

Shakya

M. Com I Sem,
TEACHING PLAN

NAME- DR. SHIVALI SHAKYA
SUBJECT- Business Environment
SESSION- 2021-22

Sl. No.	Class	Unit	Topic to be covered	No. of Periods
01.	M. Com. I Sem.	I	Concept, Significance & nature of business Environment, Elements of Environment, Internal & External Env. Changing dimensions of business env. Liberalisation, Privatisation & globalisation	05
		II	Economic Env. of Business - Significance and elements of economic Env. Economic Planning in India, Govt. Policies, Industrial, licensing, fiscal, monetary and EXIM Policy	06
		III	Political & legal Env. of Business - MRTP Act, FEMA, Consumer Protection Act, Patent Laws	03
		IV	Socio cultural and International Env. - Social Responsibilities of Business. Components, Scope, Socio cultural business Env., Social group, IMF, WTO, FDI in India.	06
		V	Technological Env - Concept Online Channels, Online Services, E-Commerce, Indian Condition of E-Commerce, Electronic Banking, Franchise Business	05

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TEACHING PLAN

NAME- DR. SHIVALI SHAKYA

SUBJECT- Mo Com II Sem (Corporate legal framework)

SESSION- 2021-22

S.No.	Class	Unit	Topic to be covered	No. of Periods
01.	Mo Com. II Sem.	I	The Companies Act 1956, Types of Companies, M.O.A A.O.A, Prospectus, Share Capital, meeting & Resolutions, Company Mgt, Managerial Remuneration winding up of Corp.	07
		II	The Negotiable Instrument Act 1881 - Definition, Types, Holder & Holder in due Course, Endorsement, Crossing of Cheque, Presentation of Negotiable Instrument	06
		III	MRTP Act - Restrictive Trade practices, Unfair Trade Practices	08
		IV	The Consumer Protection Act 1986, - Salient features, Rights & Characteristics of Consumer & Cons. pro. Act, Grievance Redressal Agencies	08
		V	Regulatory Env. for Internati- onal Business - FEMA, WTO, Regulatory framework of WTO, Basic Principle & its character, regional grouping, Technical Standard, Custom Valuation & dispute Settlement, TRIP & TRIMS	09

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Date: _____

TEACHING PLAN

NAME- DR. SHIVALI SHAKYA

SUBJECT- Mo Com. III Sem. (Entrepreneurial Skill development)

SESSION- 2021-22

No.	Class	Unit	Topic to be covered	No. of Periods
01.	Mo Com.	I	Entrepreneur - Definition, emergence of Entrepreneurial Class, Theories of Entrepreneurship, Socio Economic Env. & Entpre.	05
	III Sem.	II	Promotion of Venture Opportunities analysis, External Env. forces, economic, social, Technological & Competitive factors, Establishment of a new unit	07
		III	Entrepreneurial Behaviour - Innovation & Entrepreneurship, Entrepreneurial Behaviour, Social Responsibility	08
		IV	Entrepreneurial Dev. Programme - Entrepreneurial Dev. Prog relevance and achievements, role of Govt. in Organising such Programme	07
		V	Enship and Industrial development - Planning & growth of industrial activities, Role of Industrial Estates, Role of Central & State level Promotional Services	08

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Shakya

Mo Com IV Sem.

TEACHING PLAN

NAME- DR. SHIVALI SHAKYA

SUBJECT- International Marketing

SESSION- 2021-22

Sl.No.	Class	Unit	Topic to be covered	No. of Periods
01.	Mo Com. IV sem.	<u>I</u>	International marketing - Scope, Nature & Significance, Selection of foreign market, International market, orientation, functions and qualities of an export manager	07
		<u>II</u>	Export Organization - meaning, affecting factors & types, Overseas product dev. Method of Pricing & price quotation	06
		<u>III</u>	Direct Trading & Indirect Trading - meaning & methods of Payment in International Marketing	08
		<u>IV</u>	Export Credit - meaning, Nature, Influencing factors & Significance, method of Export Credit, Export Credit & finance, Role of the Export Credit Guar- antee Corporation of India Ltd.	08
		<u>V</u>	Export & Import Procedure - Documentation in foreign trade, Bilateral & Multi- lateral Trade agreement, Its meaning Objectives, type and significance, SAARC, Role of WTO in foreign Trade	07

Shakya

TEACHING PLAN

NAME- DR. SHIVALI SHAKYA

SUBJECT- B0 Com. III year. ~~Most~~ Principle of Marketing

SESSION- 2021-22

No.	Class	Unit	Topic to be covered	No. of Periods
01.	B0 Com. III year	I	Traditional Marketing & Modern Marketing marketing mix and marketing environment	08
02.		II	Product & Goods Life Cycle Brand & Packaging, function of After sales Service	08
		III	Price, Distribution channel Types & factor affecting choice, wholesaler & Retailer, Transportation & warehousing, Promotion Method, Optimum promotion mix	09
		IV	Personal Selling, Advertisement - Limitation & Characteristics, Effective advertisement - Sales Promotion & Public Relation & publicity	08
		V	Agriculture Marketing, Consumerism, Selling As a Career, Functions of a Salesman & Qualities of a good Salesman	07

Shakya

TEACHING PLAN

NAME - DR ASAD ALI

SUBJECT - COMMERCE

SESSION :-

2021-22

CLASS	UNIT	TOPIC TO BE COVERED	NO. of periods
B. COM. III [INCOME TAX LAW & ACCOUNTS]	I	General Income Tax of Income Tax Act 1961 Basic concept - Income, Agriculture Income, Casual Income, Previous Year, Assessment Year, Gross Total Income, Person, Assessee, Residential status and Tax Liability, Exempted income.	15
	II	Income from salary, Income from House Property.	15
	III	Income from Business and Profession, Capital Gains, Income from other Sources.	15
	IV	Set off and carry forward of losses, Deductions from Gross Total Income, Clubbing of Income, Computation of Total Income and Tax Liability of an Individual.	15
	V	Assessment Procedure, Tax deducted at source, Advance Payment of Tax, Income Tax Authorities, Appeal, Revision and Penalties	15
		----- X ----- X -----	

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TEACHING PLAN

NAME - DR ASAD ALI

SUBJECT - COMMERCE

SESSION :- 2021-22

CLASS	UNIT	TOPIC TO BE COVERED	NO. of periods
B. Com. I YEAR (MACRO ECONOMICS)	I	Macro Economics - Concept, Nature Importance, Limitations, Difference between Micro and Macro Economics	15
	II	National Income - Meaning Definitions, and concept, Methods and problems of measurement of National income in India.	15
	III	Wages, Interest and theories of Employment.	15
	IV	Monetary theory - Quantity theory of money, Modern theory of Money, Keynesian theory of Money and prices.	15
	V	New Industrial Policy, Industrial progress of second and third phase, Disinvestment, Direct Foreign Investment.	15
		----- X ----- X -----	

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TEACHING PLAN

NAME - DR ASAD ALI

SUBJECT - COMMERCE

SESSION :-

2021-22

CLASS	UNIT	TOPIC TO BE COVERED	NO. of periods
B. Com II YEAR [CORPORATE ACCOUNTING]	I	Final Accounts of Companies, Declaration of Dividend, Profit and Loss Appropriation a/c, Settlement of Profit, Calculation of Profit/Loss prior and Post Incorporation.	15
	II	Valuation of Goodwill and Shares, Methods of valuation, Accounts of Public utility Companies (Electric company)	15
	III	Meaning of Holding and subsidiary company, Consolidated Balance sheet preparation of Holding Company, Accounting of Liquidation of Companies.	15
	IV	As per standard 14 accounting for Amalgamation of Companies, Internal Reconstruction (excluding Holding Co. and external Reconstruction.	15
	V	Accounts of Banking Companies, Accounts of Insurance Companies, with claim settlements.	15
		————— X ————— X —————	

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TEACHING PLAN

NAME - DR ASAD ALI

SUBJECT - COMMERCE

SESSION :- 2021-22

CLASS	UNIT	TOPIC TO BE COVERED	NO. OF PERIODS
B.COM I YEAR (MICRO ECONOMICS)	I	Micro Economics - Definition, meaning, Inductive and Deductive method, Importance and Limitations of Micro Economics.	15
	II -	Law of Demand - meaning and Definitions, characteristics, Types of Demand, Exemptions of Law of Demand.	15
	III -	Elasticity of Demand - concept, Definition, Importance, Types and measurement of Elasticity of Demand, Production Function, Savings - Internal and External.	15
	IV	Factors of Production - Land, Labour, capital, Organisation and Entrepreneur, cost and Revenue Analysis.	15
	V	Market structure - Concepts, Definitions, characteristics, Classification, Price determination under Perfect and Imperfect competition, Marginal productivity theory of Distribution.	18

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TEACHING PLAN

NAME- Dr. Pragya Ramrat

SUBJECT- English (Foundation Course)

SESSION- 2021-22

No.	Class	Unit	Topic to be covered	No. of Periods
1.	BA I - B + Blom I B + BHSC I	I	1. R. Tagore - Where the Mind is without Feel	10 + 02 = 12
			2. M.K. Gandhi - National Education	
			3. R.K. Narayan - The Axe	
			4. A.L. Bhasbhar - The Wonder that was India (12)	
			5. C. Rajgopalachari - Preface to Mahabharat (06)	
		II	Comprehension Skills - Unseen Passage (05)	
		III	Basic Language Skills - ① Suffixes, Prefix, (10) Synonyms, Antonyms, Homophones, Homonyms ② One Word Substitution (Vocabulary Building)	
			② Noun, Pronoun, Adjective, Verb, Adverb, Prepositions, Articles (Basic Grammar)	(10)
				55
2.	BA II - A + Blom II A + BHSC II	I	1. Tere - Time Machine 10	
			2. Nimmo Ezekiel - Night of the Scorpion	
			3. Premchand - Sidha	
			4. G.L.Y. Fuentes - A Letter to God	
			5. Leo Tolstoy: God Sees the Knits but Wait. Language -	
		II	Idioms, Phrases & Proverbs, Nouns, Pronoun, Tenses, Determiners, Articles, Prepositions Phrasal Verbs 10	
		III	① Short Essay ② Correspondence Skills (Formal & Informal Letters, Applications) 10	
		IV	Translation of Sentences / Passages from English to Hindi and vice-versa. 15	
		V	Drafting a CV 05	
				(50)

TEACHING PLAN

NAME- Dr. Pragya Ranat

SUBJECT- English (Foundation Course)

SESSION- 2021-22

No.	Class	Unit	Topic to be covered	No. of Periods
3.	B A II - A + B Com III B BSC III	I - 1.	Robert Frost - Stopping by Wood on a Snowy Evening	20
		2.	Ruskin Bond - Cherry Tree	
		3.	R.K. Narayan - The Axe	
		4.	Oscar Wilde - The Selfish Giant	
		5.	A.H. Cardinal - On the Lyke of the Road	
		6.	The Song of Kabir - Translation by Taseer	
		II -	Language Skills - Confusing words, Similar words, with different meanings - Proverbs, Transformation of Sentences, Direct - Indirect Speech, Active & Passive Voice	10
		III -	Report Writing - Narrator Skills, Narration of Events and Situations	08
		IV -	Drafting of Emails	07
		V -	Drafting CV	05
				(50)

4. B A I
(Personality Development)

I -

Personality Success and Failure -
 Concept of Personality. What is success?
 Musts in achieving success. Factors
 responsible for success, developing
 effective habits. What is failure?
 Factors affecting failure, learning from
 failure, overcoming failure, power
 of faith, practicing faith, SWOT analysis
 and Goal - Setting (Specific, Measurable,
 Achievable, Realistic, Time-bound) SMART Goals

TEACHING PLAN

NAME- Dr. Pragya Rawat
 SUBJECT- English (Foundation Course)
 SESSION- PD & Generic English

No.	Class	Unit	Topic to be covered	No. of Periods
	BAI (PD)	II	Time and Stress Management and Employability Project -	
		III	Communication Skills and Digital Etiquettes + Practical	T & P = 20
		+	Project / Field Trip	
5.	BSCI - (Generic English)	I - <u>Communication</u> -	Communicative needs and problems, Expansion of an Idea, Rules of use of language, Use of appropriate words.	08
		II -	Practicing Listening Skills, Reading and Understanding Skills 2.1 Listening to Radio and TV news .. Assessment and Comprehension of A-level grammar. 2.2 Reading Newspapers Parts of Speech 2.3 IPA and Phonetic symbols	108
		III -	Practicing Writing and Speaking Skills 3.1 Formal & Informal writing of Letters and Invitations, Meeting minutes official orders and appointments. Creative writing Listening to talks and presentation note-making tips. 3.3 - Report writing Story writing, Daily writing in formal English.	10

(Dr. Pragya Rawat)

Grant Dr. Shyama Prasad Mukherjee college BSR

TEACHING PLAN
2021-22

NAME- ASHA WADHWANI

SUBJECT- ENGLISH

SESSION- 2021-22

No.	Class	Unit	Topic to be covered	No. of Periods
1.	B.A.I.A B.COM.I.A B.SC.I.A	Unit I	1. R. Tagore - Where the Mind is Without Fear 2. M.K. Gandhi - National Education 3. R.K. Narayan - The Axe 4. A.L. Basham - The Wonder that was India 5. C. Raj Gopalachari - Preface to the Mahabharat.	10 + 2 = 12 10 + 2 = 12 05 + 1 = 6
		Unit II	Comprehension Skill (Unseen Passage)	05
		Unit III	Basic lg skills	
			* Vocabulary Building - Suffix, Prefix, Synonyms, Antonyms Homophones, Homonyms & one-word substitution.	10
			* Basic lg skills (grammar) Noun, Pronoun, Adjective, Verb, Adverb, Prepositions, Articles. Time & Tense.	10
				Total Periods (55)
2.	B.A.II B B.Sc.II A B.COM.II B	Unit I	1. Tree 2. Night of the scorpion 3. Edgah 4. A letter to Brad S. Goodness	10
		Unit II	Basis of Eng lg. Coping: Phrasal Preverbs - pronouns, pronouns, Tenses - Determiners, Prepositions - Articles & Phrasal verbs	10
		Unit III	(i) short-essay (ii) correspondence skills	10

Asha Wadhwani contd.

cont. Dr. Shyamra Prasad Mukherjee College, BP (2)

TEACHING PLAN

NAME- ASHA WADHWANI

SUBJECT- ENGLISH

SESSION- 2021-22

S.No.	Class	Unit	Topic to be covered	No. of Periods
		IV	Translation of sentences Passages from Eng to Hindi and Hindi to English	15
		w V	Drafting a cv.	05
				(50)
3.	Bcom III A BA III B Bsc III B B.Asc III	Unit I	<ul style="list-style-type: none"> * Stepping by words... R. Frost * Cherry Tree - Ruskin Bond * The Axe - R.K. Narayan * The selfish Giant - Oscar Wilde * On the Rule of the Road - A.G. Grandin * The Song of Kabir - Translated by Tagore 	(20)
		Unit II	Basic language skills - * confusing words, Misused words * similar words with different meanings * Prefixes, Transformation of sent. * Direct, indirect speech, Active-passive voice	(10)
		Unit III	Report Writing, Narration skills, Narration of events & situations	(08)
		Unit IV	Drafting of e-mails	(07)
		Unit V	Drafting cv.	(05)
				(50)

Asha Wadhwani

TEACHING PLAN

NAME- ASHA WADHWANI

SUBJECT- ENGLISH

SESSION- 2021-22

No.	Class	Unit	Topic to be covered	No. of Periods
4.	Generic Elective Communicative Eng.	I	* What is Communication? It's Meaning, types & its purpose in the age of globalisation * Communicative needs and problems	12
	Bsc I	II	* IPA & Phonetic symbols * Precise writing & Spelling * Vocabulary enrichment	12
		III	* Communicative approach lexical approach task based learning * Situational conversation between two persons on different topics	10+1
		IV 4.1	* Translation (from Hindi to Eng & vice-versa)	20
		4.2	* Group & Peer Discussions * Role Play	
		4.3	* Contrastive analysis between L1 and L2. At structural, Phonological and lexical levels with exam * Bilingualism, Types of Role Play * Conversational English	
			Total classes	55

Signature:
(Ashu wadhwan)

Dr. Shyama Prasad Mukherjee College, BP

(65)

TEACHING PLAN

NAME- ASHA WADHWANI

SUBJECT- ENGLISH

SESSION- 20 21-22

No.	Class	Unit	Topic to be covered	No. of Periods
5.	B.A I	III	Communication skills and Digital Etiquettes	12
	Personality Development	Practical	* SWOT Analysis	
			* Goal Setting	
			* Time management	
			* Resume Writing and Mock Interview sessions.	
			* Communication Skills	
		Project	* E-mail Writing.	
			* Successful Personality	
		III Theory	* Use of information and communication Technology in day-to-day management.	08
			* Effective use of Social Media.	
			* E mail Etiquette	
			* Netiquette	
			* Useful electronic gadgets	
			* Mobile Applications	
			Total Lectures	(20)

Total Lectures

(20)

Asks
(Asha Wadhvani)

अवसोपन काम योजना

नाम - डॉ० संगीता गुप्ता

विषय - हिन्दी

सत्र - 2021 - 22

क्र.सं.	वर्ष	इकाई	पढ़ाया जाने वाला पाठ्यक्रम	कालखंड
1.	बीएल + बीएच.एस.सी. प्रथम वर्ष	इकाई - 1 प्रेमचंद - परिचय	इकाई - 1	20
2.	बीएल - प्रथम वर्ष	पाठ - शतरंज के खिलाड़ी		
3.	बीएल.सी. प्रथम वर्ष [गणित कम्प्यूटर वायु बायोटेक]	कथन - शरद जोशी जीप पर सवार इतलियां		
		इकाई - 2 रामधारी सिंह दिनकर - परिचय	इकाई - 2	20
		पाठ - भारत एक है (संस्कृति)		
		आदि शंकराचार्य - जीवन व		
		इकाई - 3 बीजशास्त्र	इकाई - 3	18
	बीएल. प्रथम वर्ष व्यक्तित्व विकास	1. व्यक्तित्व सफलता और असफलता का सामना करना।	इकाई - 1	12 +
		2. समय और तनाव प्रबंधन	इकाई - 2	प्रायोगिक - 08
		और योजना पर कला-लाभ		20
		3. संचार कौशल और डिजिटल शिक्षा	इकाई - 3	
5.	बीएल + बीएच.एस.सी. द्वितीय वर्ष	इकाई - 1 वर मोदनी पायलट, दिवागी गुलामी, वर्ष विचार	इकाई - 1	12
6.	बीएल द्वितीय वर्ष	इकाई - 2 नारीत्व का अभिशाप	इकाई - 2	10
7.	बीएल.सी. द्वितीय वर्ष (गणित + कम्प्यूटर + वायु + बायोटेक)	चीफ की दावत, विराम चिह्न		
		इकाई - 3 चनी फ्लुनटर लोरे आप, अन्वेषण, संधि	इकाई - 3	12
		इकाई - 4 - सपनों की कुड़ियां, हजारों सौर मंडल, प्रमुख वैज्ञानिक आविष्कार	इकाई - 4	12
		इकाई - 5 - शिक्षण का अर्थ कर्म और राष्ट्रवाद, सादगी, चित्त जहाँ भगवतिर्जन	इकाई - 5	12

कक्षा	इकाई	पढ़ाया जाने वाला पाठ्यक्रम	कालखंड
8.	वी.एल. तृतीय वर्ष वी.एच.एच. सी. तृतीय वर्ष	इकाई-1. मेरे सहपाठी, म.प्र. की लोक कलाएं, लोकोक्ति, शुद्धाक्षर	इकाई - 1 10
9.	वी.एल. तृतीय वर्ष	इकाई-2 जनसंसार माध्यम, दूरभाष और मोबाइल, संविधान	इकाई - 2 12
10.	वी.एस.सी. तृतीय वर्ष कानून, गणित, जाभा, वायोटेक	इकाई-3 - पत्रकारिता के विविध आसान, म.प्र. का लोक साहित्य, पत्र लेखन	इकाई - 3 12
		इकाई-4 - राजभाषा हिन्दी की शैक्ष्य संपदा, अनुवाद	इकाई - 4 12
		इकाई-5 - विश्व के प्रमुख धर्म, सत्य के प्रयोग	इकाई - 5 12

दीप्ति

अध्यापन कार्य योजना (TEACHING PLAN)

नाम - डॉ. मीनू चतुर्वेदी

विषय - हिन्दी आधार पाठ्यक्रम - हिन्दी भाषा / व्याकरण

सत्र - 2021-22

विकास

क्रमांक	कक्षा	इकाई	पढ़ाया जाने वाला पाठ्यक्रम	कालखंड
1	बी. ए + बी. एच. एस. सी I पर.	इकाई 1 मैथिली शब्दों गुप्त परिय पाठ: मातृभूमि	इकाई 1	18
2	बी. कॉम I पर.	इकाई 2 - वैचारिक-भारतीय भाषाओं में राम, आचार्य	इकाई 2	20
3	बी. एच. एस. सी I पर. [गणित कम्प्यूटर बायो वायोटैक]	इकाई 3 - पर्यायवाची शब्द विलोम शब्द, अनेक शब्द के लिए एक शब्द, संधि और उसके प्रकार, लीज शब्द-धुं आदि, भाषा अवधारणा, उदाहरण	इकाई 3	20
4	बी. ए I पर. व्यक्तित्व विकास	1. व्यक्तित्व सफलता और असफलता का सामना करना। 2. समय और तनाव प्रबंधन और रोजगार परतता-लक्ष्य 3. संचार कौशल और डिजिटल सिखाचार	इकाई 1 इकाई 2 इकाई 3	12 + प्रोक्टिस 08 <hr/> 20
5	बी. ए + बी. एच. एस. सी II पर	इकाई 1 - वह लंबी पत्थर दिमागी गुलामी, वर्ण विचार	इकाई 1	12
6	बी. कॉम II पर.	इकाई 2 - भारीत्व का अभिशाप पीड की दावत, विरामचिन्ह	इकाई 2	10
7	बी. एच. एस. सी II पर (गणित, कम्प्यू बायो, वायोटैक)	इकाई 3 - चली फुगुनट और भाग उत्सुक, संधि इकाई 4 - सपनों की उड़ान, लभार सौर मण्डल प्रमुख वैज्ञानिक अविष्कार इकाई 5 - दिमागो व्याख्यान, धर्म और राष्ट्रवाद, माझी - चिन्त जहाँ भयविहीन	इकाई 3 इकाई 4 इकाई 5	12 12 12

2021-22

क्र.सं.	इकाई	पढ़ाया जाने वाला पाठ्यक्रम	काल (घंटे)
8.	वी.ए.सी. पर वी.ए.सी.सी. III पर.	इकाई 1 - मेरे सहायत्री, म.प्र. की लोक कलाएं, लोकोक्ति-मुहावरे इकाई 2 - जनसंचार माध्यम, इलाहाबाद और मौलाना, संस्कृतियाँ	इकाई 1 10 इकाई 2 12
9.	वी.बी.सी. पर	इकाई 3 - वन्यकारिता के विविध आयाम - म.प्र. की लोक साहित्य, पत्र-पत्रिकाएँ	इकाई 3 12
10.	वी.एस.सी. पर शान्ति, समृद्धि वापस, वापस	इकाई 4 - राजभाषा हिन्दी की शब्द संपदा, अनुवाद इकाई 5 - विश्व के प्रमुख धर्म सत्य के प्रयोग	इकाई 4 12 इकाई 5 12

@halim

कक्षावार निर्धारित पाठ्यक्रम

सत्र 2021 - 2022

कक्षा : BA I year

विषय : History

प्रश्नपत्र : Major (History)
Ideas of Bharat

DR. M. S. Prakash

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
01	अक्टूबर	01	भारतवर्ष की अवधारणा भारत वर्ष के क्षमता पर्यायों की शाश्वत समय और अन्तरिक्ष की भारतीय अवधारणा भारत इतिहास का गौरव
02	नवम्बर	02	भारतीय साहित्य का गौरव वेद वेदप्रश्न उपनिषद् महाकाव्य जैन बौद्ध साहित्य रक्षाति पुराण
03	दिसम्बर	03	भारतीय मान्य परम्परा कला एवं सांस्कृतिक भाषा और लिपि का विकास खरोष्टि प्राचीन साहित्य
04	जनवरी	04	भारतीय कला एवं सांस्कृतिक की प्रमुख विशेषताएं शिक्षा प्रणाली
05	फरवरी	05	धर्म दर्शन रक्षामिति शासन मुख्य परिवार समाज वसुधैव कुटुम्बकम् जैनपद भूमि पराज की भाषा
06	मार्च	06	विज्ञान पर्यावरण चिकित्सा विज्ञान पर्यावरण संरक्षण भारतीय चिकित्सा विज्ञान का विकास
07	अप्रैल	07	भारतीय आर्थिक परम्परा भारतीय आर्थिक विचार मूनि रवि कृषि की अवधारणा
08	मई	08	उद्योग मंडलीय व्यापार वाणिज्य समुदाय व्यापार
09	जून	09	Revision

कक्षावार निर्धारित पाठ्यक्रम

Dr. ECA PA

सन् 2021 - 2022

कक्षा : बी०ए० II वर्ष

विषय : History

प्रश्नपत्र : प्रथम एवं द्वितीय
प्रश्नपत्र

- ① भारत का इतिहास 1200 से 1730 ई तक
② विश्व इतिहास की प्रमुख धाराएं 1871 से 1945

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
	सितम्बर	Unit 3 Paper I	अकबर मुगल साम्राज्य का सुदृढीकरण एवं विस्तार उसकी धार्मिक एवं राजनैतिक नीति अहंगोर और सुदृढीकरण एवं विस्तार अखण्ड अंतर्गत मराठों का उत्कर्ष शिवाजी का विजय प्रशासन औरंगजेब और मुगल साम्राज्य पतन बादिर शाह का आक्रमण एवं प्रभाव
	-1-		
	सितम्बर	Unit 3 II	प्रथम विश्व युद्ध कारण परिणाम एवं प्रभाव 1914 की रूस की क्रांति विल्सन के पालास पेरिस का शांति सम्मेलन एवं वर्साय की संधि राष्ट्र संधि
	अक्टूबर	Unit 04 Paper	सल्तनत कालीन साम्राज्यिक व धार्मिक जीवन धूमिल एवं सुफी आन्दोलन भारत में सत परम्परा सल्तनत काल कृषि।
	नवम्बर	Unit 04 Paper	चीन और जापान में उपनिवेशवाद और साम्राज्यवाद प्रथम व द्वितीय अफ्रीम युद्ध ताइपिंग विद्रोह बाम्बर विद्रोह
			चीनी क्रांति 1911 जापान में मेरिजी पुनर्स्थापना आयुष्मिकीकरण विचारवाद का उदय चीन जापान युद्ध 1894 रूस जापान युद्ध 1905 चीन जापान युद्ध

कक्षावार निर्धारित पाठ्यक्रम

DR. GUNA PAL

सन् 2021 - 2022

कक्षा : BA II वर्ष

विषय : History

प्रश्नपत्र : प्रथम एवं द्वितीय भारत का इतिहास 1200 से 1730 AD
 प्रश्नपत्र किंवदंती इतिहास प्रमुख घाटाएँ 17-1945

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
01	जुलाई	Unit + I Paper	मध्यकालीन भारतीय इतिहास के रूप में दिल्ली सल्तनत की स्थापना सक सुदहाकरण कुतुबुद्दीन ऐबक अलतुतमिश रजिपशा लथा बलबन अलाउद्दीन खिलजी की विजय और सुधार मंगोल आक्रमण
0	1-1		
	अगस्त	Unit + I Paper II	फ्रांस का तृतीय गणतंत्र केसर विलियम प्रथम विक्टोरिया ग्लो और विदेश भित्ति केसर विलियम II
	अगस्त	Unit 2 Paper II	मुहम्मद बिन तुगलक और फिरोजशाह तुगलक दिल्ली सल्तनत का विच्छेदीक का विजयनगर तथा वैद्यनाथ साम्राज्य केसर का आक्रमण इसका प्रभाव शेरशाह सूरी भारतीय इतिहास में राणा कुमा और राणा सांगा की भूमिका
	1-1	Unit 2	अफ्रीका एवं बर्की अफ्रीका का विकास द्वीप समस्या केसर बर्की युद्ध बर्लिन कांग्रेस 1878 युवा बर्की बाल्कन युद्ध प्रथम एवं II शांति

कक्षावार निर्धारित पाठ्यक्रम

Smt. Pushpa Devi

सत्र 2021 - 2022

कक्षा : BA III year

विषय : History

प्रश्नपत्र : Histo. of India
from - 1740 to 1857 AD I Paper
1857 to 1950 AD II Paper

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
01	सितम्बर	01	18वीं शताब्दी के मध्य में राजनितिक प्रवृत्तियां, कर्नाटक में आंग्ल फ़ारसी संबंधों, प्लासी और बक्सर का युद्ध
02	अक्टूबर	02	ऑपनिगेशिल प्रशासन का विकास वारेन हेस्टिंग्स तथा लॉर्ड क्लाइव लिमिटेड रिग्यूलेशन एक्ट 1773 और आंग्ल मराठा संबंध
03	नवम्बर	03	महाराष्ट्र शासक सिद्ध और आंग्ल सिद्ध युद्धों का अर्थ और शासन की स्थापना / मराठा का पतन / अंग्रेजों
04	दिसम्बर	04	भारतीय पुनर्जागरण, सामाजिक एवं धार्मिक आन्दोलन राम राम मोहन राय तथा कृष्ण समाज शिक्षा का विकास भारत का आधुनिक
05	जनवरी	05	ब्रिटिश भूराजत्व नीति - स्थायी वन्देवत संसदवादी एवं महालक्ष्मी कृष्ण की विचार, सामाजिक सुधार एवं
06	जनवरी	06	भारत की विदेशी नीति की जांचना पत्र 1858 Indian Council Act 1861 Internal Political Association and Indian 1892
07	फरवरी	07	लॉर्ड कर्जन तथा लॉर्ड रिफॉर्म विचारों, स्वदेशी आन्दोलन नरमदल एवं गरमदल शक्तिकारी 1909 अधिनियम कृष्ण संसदीय
08	फरवरी	08	गांधी युग स्वराज्यदल साधुमनुष्यी लोको कोरेस सतिनय अवस्था आन्दोलन गालमप 1935 भारत सरकार Act
09	मार्च	09	किंग्स मिशन शिमला सम्मेलन केविनर मिशन सुभाष चन्द्र बोस
10	मार्च	10	भारतीय कृषि - ब्रिटिश अंगुल नीति उपनिवेशवाद अर्थ व्यवस्था का विकास आधुनिक उद्योगों का उदय व्यापार आर्थिक शक्ति

कक्षावार निर्धारित पाठ्यक्रम

सत्र 2021 - 2022

कक्षा : MA I & II Sem

विषय : History

प्रश्नपत्र : इतिहास लेखन अवधारणा
प्रणाली एवं उपकरण

DR. EKTA PAL

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
01	सितम्बर	01	इतिहास क्या है? इतिहास का अर्थ एवं क्षेत्र विस्तार आइजो का संग्रहण एवं आक्षेप उनका प्रेषण कारणवाद इतिहास
02	अक्टूबर	02	इतिहास एवं अन्य विषय अनुशासन पुरातत्व भूगोल मानव शास्त्र समाजशास्त्र अर्थशास्त्र राजमिति एवं साहित्य
03	नवम्बर	03	इतिहासिक लेखन की परम्पराएं ग्रीकों रोमन परम्परा चीनी इतिहास लेखन की प्राचीन परम्परा वागभट्ट कलहा
04	दिसम्बर	04	मध्य कालीन इतिहास लेखन मध्य कालीन भारत में इतिहास लेखन की समस्या भिन्नताएं उदात्त प्रियतम प्रियाउदीन
05	जनवरी	05	लेखन आधुनिक इतिहास लेखन की प्रवृत्ति आधुनिक इतिहास लेखन की प्रवृत्ति प्रत्यक्षवादी अलासिकल मार्क्सवादी
06	फरवरी	06	इतिहास के अभिगम धर्मशास्त्रीय साम्राज्यवादी राष्ट्रवादी, समाजवादी आत्मपन्न/दलितवादी एवं परम्परा
07	मार्च	07	इतिहास के प्रमुख सिद्धांत -पट्टीय इतिहासिक भौतिकवादी समाजशास्त्रीय
08	अप्रैल	08	पुलनात्मक संबंधी वैश्विक व्यवस्था इतिहास में विवाद भारतीय समाज में नारियों की स्थिति
09	मई	09	ज्या अर्थशास्त्र धर्मार्थ वेलेस भारत ब्रिटिश शासन
10	जून	10	1857 ई. का विद्रोह की प्रवृत्ति 1929 ई. की विद्रोह की आर्थिकमैदी अनुष्ठियां भारतीय राष्ट्रवाद के विकास उपकरण।

कक्षावार निर्धारित पाठ्यक्रम

सन् 2021 - 2022

कक्षा : MA I & II sem

विषय : History

प्रश्नपत्र : History of India
1757 - 1857 A.D.

Smt. Pushpa Devi

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
01	सितम्बर	01	आधुनिक भारतीय इतिहास स्रोत अभिलेखों पर आधारित समाचारपत्र पेरियाडिकल्स में एक परम्परा विभिन्न
02	अक्टूबर	02	महाराजाधरों का भारत राजनितिक आर्थिक स्थिति समाज एवं सांस्कृतिक विदेश आर्थिक का विस्तार संगठन का
03	नवम्बर	03	विस्तार के साधन के रूप में आंग्ल भारत युद्ध आंग्ल मैसूर युद्ध सिंधु का विस्तार
04	दिसम्बर	04	कूटनिति के द्वारा विस्तार सहायक संघीय रूप में भारत की औपनिवेशिक संरचना पश्चात्तक द्वारा संवैधानिक
05	जनवरी	05	विकास कूटनिति के द्वारा विस्तार सहायक संघीय रूप में भारत का औपनिवेशिक
06	फरवरी	06	कारण है किटिंग के माध्यम से पश्चात्तक सुधार कानून लिख विलियम वेट्टि एवं लॉर्ड डलहौजी
07	मार्च	07	आर्थिक मितियां विदेश आर्थिक मितियां रेलवे का विकास
08	अप्रैल	08	समाप्तिक मितियां समाप्तिक परिवर्तन विदेश समाप्तिक भारतीय महामुक्ति एवं समाज प्राच्य पश्चात्तक शिक्षा
09	मई	09	प्राच्यवादी आंग्लवादी विवाद युद्ध विदेश औपनिवेशिक शासन का विदेश औपनिवेशिक शासन के विरोध की प्रकृति एवं स्वरूप
			1857 का विद्रोह कारण स्वरूप विभिन्न तरीके से स्वरूप मांगीदारी, विद्रोह की असफलता

कक्षावार निर्धारित पाठ्यक्रम

सत्र 2021 - 2022

कक्षा : MA I sem & II sem

विषय : History

प्रश्नपत्र : Twentieth century world

Smt. Pushpa Devi

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
01	सितम्बर	01	उन्नीसवीं शदी की विरासत पुंजीवादी एवं साम्राज्यवाद का विकास उदारवाद विचारक - उदारवाद के लाभ हानि व
02	अक्टूबर	02	समाजवाद एवं मार्क्सवाद के बीच अंतरवाद श्रमसंघवाद श्रेणी समाजवाद साम्यवाद कार्ल मार्क्स का जीवन एवं कार्य
03	नवम्बर		1914 तक प्रथम विश्व युद्ध का कारण स्वरूप पेरिस शांति सम्मेलन उसके द्वारा परिणामों रुस में साम्राज्यवादी राज्य की स्थापना
04	दिसंबर		दो विश्वयुद्ध के बीच विश्व राष्ट्र संघ सामूहिक सुरक्षा 1929-1932 महान उन्मत्त संकट गांधीवाद / फासिस्मवाद
05	जनवरी		II द्वितीय युद्ध का कारण स्वरूप परिणाम साम्राज्यवाद स्वयंसेवा में स्वतंत्रता संघर्ष।
06	फरवरी		शीत युद्ध और उसके प्रभाव शीत युद्ध का वैचारिक एवं राजनितिक आधार पेंटर संधि या NATO वार्सा पेंटर
07	फरवरी मार्च		UNO तथा विश्व शांति कौन्सिल का स्थापना काश्मीर समस्या गुट मित्रपक्ष का तृतीय विश्व युद्ध
08	अप्रैल		सोवियत संघ का विघटन तथा शीत युद्ध का अन्त विघटन की प्रक्रिया साम्राज्यवाद का पतन पुंजीवाद का पुनरुत्थान
09	मई		विश्व राजनिति पर प्रभाव। वैश्वीकरण तथा उसका तृतीय विश्व देशों पर आर्थिक राजनितिक प्रभाव विमान एवं रेडियो लाषी।

कक्षावार निर्धारित पाठ्यक्रम

सत्र 2021 - 2022

कक्षा : MA III & IV sem

विषय : History

प्रश्नपत्र : Freedom Movement In
Madhya Pradesh 1857 to 1947

Dr. M. S. Prasad

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
01	सितंबर	01	प्राथमिक स्रोत अभिलेखीय निकाई निष्पन्न समाचार पत्र पीरियोडिकल मौखिक परम्परा द्वितीयक पुस्तके/जर्नलियर
02	अक्टूबर	02	19वीं शताब्दी तक ऐतिहासिक पृष्ठभूमि राष्ट्रवाद का उदय
03	सितंबर नवम्बर	03	मुन्देला विद्रोह 1842-1843 कारण एवं प्रभाव दमन
04	दिसम्बर	04	1857 का विद्रोह कारण एवं प्रभाव दमन
05	जनवरी	05	देशी राज्यों ज्वालियर इन्दौर भोपाल रीवा और मुन्देलाखण्ड।
06	फरवरी	6	असहयोग आन्दोलन अतिनय अरुण आन्दोलन एवं भारत छोड़ो सिद्धि क्षेत्र एवं महाकौशल क्षेत्र।
07	मार्च	07	देशी राज्यों में राष्ट्रीय आन्दोलन ज्वालियर इन्दौर भोपाल रीवा मुन्देलाखण्ड
08	अप्रैल	08	महिलाओं एवं आदिवासियों की स्वतंत्रता संग्राम में भूमिका
09	मई	09	स्वतंत्रता संग्राम की विरासत, विभिन्न आदर्शवादी आग्राम Revision
10	जून	10	

कक्षावार निर्धारित पाठ्यक्रम

सत्र 2021 - 2022

कक्षा : MA III & IV sem

विषय : History

प्रश्नपत्र : History of Marathas
1627-1818

Dr. M. S. Prasad

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
01	01	सितम्बर	मराठा इतिहास के स्रोत मराठों का अर्जुन शिवाजी का उत्थान छिंदवा मराठों की अवधारणा
02	02	अक्टूबर	शिवाजी के बीजापुर एवं मुगलों से संबंध
03	03	नवम्बर	शिवाजी का राज्याभिषेक शासन संबंध व्यक्तित्व
04	04	दिसम्बर	शिवाजी मराठा स्वतंत्रता संग्राम ताराबाई पेशवाओं के इतिहास के स्रोत Revision
05	05	जनवरी	पेशवा बाजीराव प्रथम, प्रमुख मराठा राज्य सिंधिया होल्कर गायकवाड़ मेसले
06	06	फरवरी	बाळाजी बाजीराव तृतीय मराठा पानीपत का युद्ध
07	07	मार्च	पेशवा भाऊव राव नारायण राव महादजी सिंधिया
08	08	अप्रैल	I & II भाग मराठा युद्ध
09	09	मई	तृतीय भाग मराठा युद्ध Revision
10	10	जून	

कक्षावार निर्धारित पाठ्यक्रम

सत्र 2021 - 2022

कक्षा : MA Part II Sem

विषय : History

प्रश्नपत्र : Modern Hist. of India
1858 to 1975

PR- ECTA PAK

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
01	सितम्बर	01	साम्राज्यवादी नियंत्रण के उपाय - ब्रिटिश शासन उसका भारतीय प्रशासन पर नियंत्रण केन्द्रीय प्रांतीय एवं जिला देशी राज्यों के साथ संबंध
02	अक्टूबर	02	वैदेशिक संबंध सिद्धान्त एवं नीतियां 1947 तक अर्थव्यवस्था विकास भारत सरकार 1949 एवं 1935 के संवत्
03	नवम्बर	03	व्यवस्था साम्राज्यवादी वैश्विक व्यवस्था में भारत शहरी पूंजी का विस्तार एवं निर्गमन कुमत्तान संकुलन और बान
04	दिसम्बर	04	निष्कासन तथा मौद्रिक समस्या कृषि संबंध विविधता और उनका प्रशासन
05	जनवरी	05	तामिळ सामाजिक और आर्थिक उत्थान धेरू एवं कुटीर उद्योग आयुक्त उद्योगों का उत्थान पुंजीपति वर्ग
06	फरवरी	06	मिठ वर्ग का उत्थान सामाजिक संरचना पारंपरिक समूह जनजाति संरचना संघर्ष का अधि
07	मार्च	07	राष्ट्रीय राष्ट्रवाद के विभिन्न आयाम स्तर राष्ट्रवाद का उदगम 1919 तक प्रमुख क्विर धाराएं।
08	अप्रैल	08	क्रांतिकारी एवं वामपंथी एवं आन्दोलन देशी राज्यों में जन आन्दोलन
09	मई	09	Communal politics & partition Subhash chandra Bose & INA
10	जून	10	सुभाषचन्द्र बोस - INA Revision

कक्षावार निर्धारित पाठ्यक्रम

सन् 2021 - 2022

कक्षा : MA पृथ्वी sem

विषय : History

प्रश्नपत्र : भारतीय इतिहास में नारी

Smt. Pushpadevi

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
01	01	सितम्बर	विचार धाराएं - उदारवादी मानसवादी समाजवादी, रेडिकल आधुनिक
02	02	अक्टूबर	अमिलेखागार सरकारी फाइले दस्तावेज संसद प्रकृतगत पत्र पान्हुग और जूर पान्हुग जैन बुद्ध इस्लाम और इसाई महिलाएं और पुरुष
03	03	नवम्बर	सुधार आन्दोलन और महिलाएं भक्ति आन्दोलन धर्म समाज कार्य समाज अनांगिक आन्दोलन शिरोसिद्धि स्त्रो
04	04	दिसम्बर	प्राचीन भारत मध्य युगीन भारत औपनिवेशिक भारत स्वतंत्रता के पश्चात् आदिवासी समाज की वैचारिक स्थिति प्रशासन धरोनु कृषि उद्योग रोजगार मजदूरी सम्पत्ति अधिकार कार्यरत महिलाएं की समस्याएं
05	05	जनवरी	शिक्षा एवं नारी प्राचीन भारत मध्य युगीन भारत औपनिवेशिक स्वतंत्रता के पश्चात् नारियां एवं शिक्षा
06	06	फरवरी	महिला संगठन औपनिवेशिक स्वतंत्रता के पश्चात् प्रांतीय राष्ट्रीय एवं स्वतंत्रता के पश्चात्
07	07	मार्च	राजनैतिक भूमिका गांधीजी कारखाना श्रमिक आन्दोलन राज्य व्यवस्थापिका और नगरपालिका परिषद
08	08	अप्रैल	महिलाएं एवं संस्कृति आदितीय मित्रकला संगीत एवं नृत्य में भागीदारी
09	09	मई	महिलाएं एवं संस्कृति आदितीय मित्रकला संगीत एवं नृत्य में भागीदारी
10	10	जून	महिलाओं एवं संस्कृति आदितीय मित्रकला संगीत एवं नृत्य में भागीदारी प्रति निहितत्व भूमिका खेल व्यवसाय

कक्षावार निर्धारित पाठ्यक्रम

सत्र 2021 - 2022

Dr. Priya Srivastava

कक्षा : B.A - 1st year

विषय : अर्थशास्त्र

प्रश्नपत्र : Major (स्पष्ट अर्थशास्त्र) (Ist Paper)

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
	January	Unit-1	अर्थ की परिभाषा, क्षेत्र एवं प्रकृति अर्थ का सामाजिक विज्ञान एवं अर्थविषय से संबंध, वास्तविक एवं आदर्श अर्थ
		अर्थशास्त्र का परिचय	आगमन, निष्पत्ति विधि, मुद्रा व्यवस्थापना वस्तु, मूल्य, मुद्रा, वित्तीय शैली एवं अर्थ की ऐच्छिक संतुष्टि - उत्पादन वित्त
	February	Unit-2	राज्यवाच्य दृष्टिकोण - UT, MU, AU विभिन्न उपसंज्ञित एकात्मिक UT, राज्यवाच्य दृष्टिकोण
		उपसंज्ञित का उपवर्ग	उपवर्गीय दृष्टिकोण - पुनः अधिप्राप्तिके साथ का निष्पत्ति, विभिन्न वस्तु- साथ की लोच - मूल्य, आर्थ, आडी
	March	Unit-3	धृति का निष्पत्ति एवं धृति की लोच उत्पादन वस्तु, परिवर्तनशील अनुपात का निष्पत्ति
		उत्पादन	पैदाश का प्रतिफल, लागतपाद एवं - अर्थ विशेषताएं, उत्पादन का संतुलन पैदाश की लोच, आगमन एवं लागत
	April	Unit-4	बाजार का अर्थ, वर्गीकरण, पूर्ण प्रति प्रति शुद्ध प्रति प्रति, मूल्य एवं उत्पादन निर्धारण
		बाजार एवं सुननिर्धारण	समाधिक्य से मूल्य व उत्पादन निर्धारण मूल्य विभेद, समाधिक्य प्रति प्रति
	May	Unit-5	वितरण का मूल्य उत्पादन वितरण वितरण का वितरण वितरण,
		साधनोन्मुख निर्धारण का वितरण	संसाधन, वितरण, वितरण वितरणकारी अर्थ की व्यवस्थापना।

कक्षावार निर्धारित पाठ्यक्रम

सत्र 2021 - 2022

(Dr. Priti Srivastava)

कक्षा : B.A - Ist year

विषय : Economics

प्रश्नपत्र : Minor and open elective (Indian Economics - 2nd Paper)

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
	January	Unit-1	भारतीय अर्थ 0 की विशेषताएं राष्ट्रीय आय की क्षेत्रीय विभाजन अर्थ शक्ति की क्षेत्रीय वितरण
		परिचय	प्राथमिक उत्पादन - श्रम, जल, पशुधन, वन, खनिज, जनानकाम विवेक जनार्थक की लक्ष्य एवं जनसंख्या नीति
	February	Unit-2	भारतीय कृषि की प्रवृत्ति, संकट व विशेषताएं श्रम उपयोग प्रवृत्ति, कृषि उत्पादन धर्म क्रांति, उद्वेग
		कृषि	कृषि वि-त एवं बीमा कृषि विपणन कृषि से जुड़े नवीन तकनीक
	March	Unit-3	भारत का औद्योगिक विकास नई औद्योगिक नीति 1991 सांख्यिक व निजी क्षेत्र की श्रमिका
		उद्योग एवं आधारभूत संरचना	श्रम, लक्ष्य एवं संरचना (MSME) समाप्ति एवं समाधान
	April	Unit-4	व्यक्तिगत श्रम, सेवा क्षेत्र इंडिया आत्मनिर्भर भारत, उर्जा परिवहन, लंचाट
		विदेशी निवेश एवं अन्य	विदेशी निवेश, व्यापार, निर्यात नीति आयोग, श्रम, बेरोजगारी क्षेत्रीय विभाजन
	May	Unit-5	M.P की विशेषताएं - श्रम, जन, वन, खनिज जीवन स्तर एवं जलवायु, संरचना व औद्योगिक विकास
		संरचना व अर्थव्यवस्था	उर्जा परिवहन एवं लंचाट परिचय विकास, राजभाट व योग्यताएं।

कक्षावार निर्धारित पाठ्यक्रम

सत्र 2021 - 2022

(Dr. Priya Srivastava)

कक्षा : B.A - IInd year

विषय : Economics

प्रश्नपत्र : 1st Paper (Macro Economics)

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
	January	Unit-1	समाहित और व्यक्तिगत आर्थिक संतुलन चक्र - संतुलन और प्रवाह
			आय का चक्रोप प्रवाह, शास्त्रीय आय समकाल शास्त्रीय उत्पाद, समकाल धरोहर उत्पाद
			शास्त्रीय आय लेखांकन, शास्त्रीय आय कोटि आर्थिक व्यवस्था के अर्थ अर्थशास्त्र
	February	Unit-2 and 3	रोजगार का प्रतिष्ठित सिद्धांत, कीमत का रोजगार सिद्धांत उपभोग, मूल्य, वचन मूल्य
			व्युत्पादन और मूल्य के सिद्धांत निवेश मूल्य एवं पूंजी की भौतिक क्षमता
			निवेश मूल्य, प्रभाविता करने वाले मूल्य, कीमत का तुलना परतुली तुलना जोले ।
	March	Unit-4 and 5	मुद्रा - आय, आय, संतुलन, माप M ₁ , M ₂ , M ₃ , M ₄ मूल्य शेष सिद्धांत
			प्रका लक्षित, संतुलन, आले धन की समागमन आर्थिक, बैंक - आय, प्रवाह
			व्यापारिक बैंक, सार्व निगम, केन्द्रीय बैंक, रिजर्व बैंक, वृत्तान्त, परिभा- णात्मक
			मॉडेल नीति के उद्देश्य और सौभाग्य प्रका एवं जन धन पैदावा ।

कक्षावार निर्धारित पाठ्यक्रम

सत्र 2021 - 2022

(Dr. Prithi Srivastava)

कक्षा : B.A - 2nd year

विषय : Economics

प्रश्नपत्र : 2nd Paper (Public Finance and International Economics)

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
	January	Unit-1	सार्वजनिक वित्त - अर्थ, प्रकृति, क्षेत्र सार्वजनिक वित्त की शुरुआत
			अधिकतम सामाजिक लाभ, आवागमन शक्ति - कर आवागमन, गैर कर आवागमन
			करों के प्रकार - वस्तु एवं सेवा कर अन्य परिचय, भारत वर्ष में करदाता शक्ति ।
	February	Unit-2 and 3	बजट - परिभाषा, राजकोषीय धार राजकोषीय नीति, दीर्घकालीन नवीकरण वित्त आपांग, अन्तर्राष्ट्रीय अर्थो सहाय, व्यापार, निरपेक्ष और उत्पन्नता का
			साधन प्रचुरता : हेतुशक्ति औद्योगिक आवागमन प्रचुरता सिद्ध
	March	Unit-4 and 5	व्यापार की शक्ति, संयोजन और प्रकार, अन्तर्राष्ट्रीय व्यापार, प्रमुख गैर प्रमुख बाधाएं, WTO
			उद्योग, व्यापार मुक्तता शक्ति, व्यापार शक्ति मुक्तता शक्ति, अंतर्गत
			से व्यापार, विदेशी व्यापार की प्रकृति एवं विशा, विनिर्माण पर-दल- आयी पर, अन्य शक्ति लाभ
			उद्योग का अन्वेषण, अन्वेषण विदेशी व्यापार, नीति विनिर्माण देश।

कक्षावार निर्धारित पाठ्यक्रम

सत्र 2021 - 2022

Dr. Priya Srivastava

कक्षा : B.A - IIIrd year

विषय : Economics

प्रश्नपत्र : 1st Paper (Development and Environment Economics)

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
	January	Unit-1	आर्थिक वृद्धि और विकास : अवधारणा, विकासशील देशों की विशेषताएं, आर्थिक वृद्धि और विकास के तत्व - पूंजी, मूलभूत और मानव संसाधन, विकास एवं तकनीक।
	February	Unit-2 and 3	गुडम रिमव, बाले मानकी शुष्कीकर, रीसटोव, निवेश मापदंड मानव संसाधन विकास। बड़े धनके बालिहान, र. लुईस एपेमें, लीविस्टोन, बुजुरा गिडेल हरोड-डोमर, कुडनेहन मॉडल
	March	Unit-4 and 5	आर्थिक विकास और लिंग असमानता, महिला संश्लेषण, लैंगिक विकास सूचकांक, पर्यावरण अनुशासन-जनसंख्या अन्तर्निबन्ध, वासात विप्लव। धारणीय विकास, पर्यावरण क्षति भूमि, जल, वायु और वन पर्यावरण प्रदूषण, खेलनाम, विवाह क्षेत्र सूचकांक की अवधारणा।

कक्षावार निर्धारित पाठ्यक्रम

सत्र 2021 - 2022

Dr. Priya Sarastha

कक्षा : B.A-IIIrd Year

विषय : Economics

प्रश्नपत्र : IInd Paper (Statistics)

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
	January	Unit-1	सांख्यिकी का अर्थ एवं परिभाषा, प्राकृतिक एवं क्षेत्र, सांख्यिकी के कार्य, महत्व एवं सीमाएं, आधारशैली, संकेत संकलन की विधियाँ, वर्गीकरण
			आश्चर्यजनक, संकेतों का विन्दुरेखीय प्रदर्शन संबंधी आश्चर्य।
	February	Unit-2	व्यंशिक प्रवृत्ति का मापन : माध्य सांख्यिकी, बहुलक, स्थानिक माध्य, विचलन, प्रमाप विचलन, विचलन गुणांक
		Unit-3	सहसंबन्ध - कोटी विपरीतता का सहसंबन्ध गुणांक, विपरीतता कोटी
			अन्तर, प्रतीपमान विश्लेषण, प्रतीपमान अन्तर, गुणांक, सहसंबन्ध।
	March	Unit-4	कोटी माला का विश्लेषण, संकलन योगात्मक, गुणात्मक, सूचकांक, महत्व
			संकेत-पाठ एवं सीमाएं कोटी-पाठ, पाठ्य एवं पिथर का सूचकांक।
		Unit-5	प्राप्यता : निम्न, अक्षत प्राप्यता प्रकाश अनुलेखन की लक्षणा
			परिचालना - अवधारणा एवं प्रकाश प्रतिवेदन लेखन।

S.No.	Class Unit	Unit	Topic to be covered	No. of Periods
1	I st		मानव भूगोल का परिचय परिभाषा, प्रकृति, दूरय एवं नियम-क्षेत्र मानव भूगोल का विकास अन्य विज्ञानों से मानव भूगोल का संबंध क्षेत्रीय विभिन्नता की संकल्पना भारतीय मानचित्र-बिचार एवं मूल्य	2 6 4 6 3 3
2	II nd		मानव, वातावरण एवं संस्कृति मानव एवं वातावरण संबंध निश्चयवाद, संभववाद, एवं नवनिश्चयवाद क्षेत्रवाद एवं संस्कृतिवाद भूगोल में डेटवाद कमलधन वनाम प्रादेशिक भौतिक वनाम मानव संस्कृति वनाम प्रायोगिक परिवर्तनवाद एवं व्यवहारिक संकल्पना मानव संस्कृति के बदलते प्रतिरूप	2 4 4 3 1 2 2 2 2 2
3	III rd		वातावरण एवं मानवीय अनुकूलन विश्व के बृहद पर्यावरणीय प्रश्न मानव प्रयासों का वर्गीकरण, भारत के विशेष संदर्भ में।	2 6 4

S.No	class Unit	Unit	Topic to be covered	No. of Per
	III rd	III rd	मानव वातावरण अनुभूतन एरिकमों - शीत प्रदेश कुशमैनन - उष्ण प्रदेश भारतीय अरावा अजमाति. भूमध्यरेखीय मध्य प्रदेश के, भील, गोंड एवं सहारिया जनजाति	2 3 3 3 3
4.	IV th		जनसंख्या एवं मानव विकास विश्व जनसंख्या की वृद्धि, घनत्व व वितरण जनसंख्या वितरण को प्रभावित करने वाले भौतिक एवं सांस्कृतिक कारण जनसंख्या स्थानांतरण एवं अप्रवासन के कारण जनसंख्या विस्तार एवं अनुकूलन जनसंख्या की संकल्पना मानव विकास की संकल्पना	2 4 6 4 5 3
5	V th		मानव अधिवास एवं सांस्कृतिक प्रक्रियाएं ग्रामीण एवं नगरीय अधिवास के प्रकार एवं परिणाम ग्रामीण अधिवास की पारिवारिक संरचनाएं नगरीय अधिवास का पर्यावरण भारतीय नगरों एवं ग्रामों की निर्माण विशेषताएं सांस्कृतिक प्रक्रिया : मानव समूहों की भंगकियां.	2 4 6 3 4 6

Teaching Plan

Format

Physical Geography

B.A. Ist Year

Subject - Geography

College - Poojari Wasnik

Session - 2021-22

S.No.	Unit	Topic to be covered	No of Periods
1.	Ist	• भौतिक भूगोल और पृथ्वी	2
		• भौतिक भूगोल की प्रकृति एवं विषय वस्तु	6
		• क्रमांक और सौर मंडल	1
		• किंग डोंग सिद्धांत	2
		• प्राचीन भारतीय ग्रंथों में क्रमांक और पृथ्वी की उत्पत्ति संबंधी विचार	3
		• पृथ्वी की उत्पत्ति संबंधी परिकल्पनाएं	3
		• भारोश्मिड की धूल और वादलक्षणात्मिक परिकल्पना	3
		• पृथ्वी की आयु	2
		• भूगर्भिक समय सादगी	2
		• पृथ्वी	1
IInd.		• पृथ्वी की आंतरिक संरचना	6
		• स्थाने - उत्पत्ति प्रकार एवं संघटन	6
		• महाद्वीप एवं महासागरों की उत्पत्ति	6
		• समस्थिति सिद्धांत	5
		• पृथ्वी की गतिशीलता	2
IIIrd		• वेगनर का महाद्वीपीय विस्थापन सिद्धांत	4
		• प्लेट विवर्तनिकी	6
		• पर्वत निर्माण के सिद्धांत	6
		• अंतर्जात एवं बाह्यतः उत्पन्न	6
			6

S.No.	Class Unit	Unit	Topic to be covered	No. of Per
4	IV th	<p>भू-आकृतिक प्रक्रम</p> <p>अपक्षय: नियंत्रक कारक प्रवास एवं भूआकृतिक प्रक्रम महत्व</p> <p>वृक्षधारण: प्रभावित करने वाले कारक, कार्यविधि एवं भूआकृतिक महत्व</p> <p>ठला विकास संकल्पना</p>	<p>2</p> <p>6</p> <p>6</p> <p>10</p>	
5	VII th	<p>स्थलरूपों का विकास</p> <p>अपरदन, परिवहन एवं निक्षेपणकार्य एवं राजमित्र स्थलरूप - नदी, पवन, सागर, बार्ड एवं हिमानी</p> <p>भू-आकृतिक अनुप्रयोग - जल विज्ञान, आर्किटेक्चर</p> <p>भू-विज्ञान एवं प्राकृतिक आपदाएँ</p>	<p>2</p> <p>12</p> <p>10</p>	

Dr. Poojita Wasnik

Teaching Plan Format

13th Year

Subject - Geography

Session - 2021-22

Physical Geography Atmosphere and Hydrosphere

S.No	Unit	Topic to be covered	No. of Periods
1.	I st	मौसम एवं जलवायु	2
		जलवायु विज्ञान की परिभाषा एवं महत्व	3
		मौसम एवं जलवायु के तत्व	2
		वायुमंडल का संघटन, परतें, विशेषताएं	6
		सौर्यताप एवं उष्ण किरणों का प्रभावित करने वाले कारक	6
		ऊष्मा संतुलन,	4
		तापमान का हॉरिजेंटल एवं उर्वरधर किरणों का प्रभावित करने वाला	3
	II nd	वायुमंडलीय दाब	3
		वायुदाब पेटियां एवं पेटियों का विस्थापन	2
		वायुमंडलीय परिसंचरण	2
		ग्रहीय पवने	2
		मौसमी पवने	2
		स्थानीय पवने	2
		जेट स्ट्रीम, वायुमंडलीय अ	2
		वायुमंडलीय आर्द्रता, निरपेक्ष, सापेक्ष, निक्षेप आदि	6
III rd	संघटन एवं उष्ण रूप, वाष्पीकरण, वृष्टि	3	
	वर्षा - प्रकार एवं वितरण।	3	
	वायुराशियाँ, वायुमंडल उत्पत्ति एवं कमी	2	
		वातांग : उत्पत्ति एवं वर्गीकरण	4
		वायुमंडलीय अ	11

S.No.	Unit.	Topic to be covered	Marks
		विश्व की जलवायु का वर्गीकरण - कोपेन, थॉर्नथ्वेट एवं ट्रिवाथी	6
		विश्वक जलवायु परिवर्तन	2
		जलवायु परिवर्तनों में मनुष्य की भूमिका तथा प्रतिष्ठिमा ।	3
		व्यावहारिक जलवायु विज्ञान तथा नगरीय जलवायु	3
	IV	जलमंडल: उच्चतमदशी वक्र	2
		उच्चतमदशी वक्र	2
		प्रशांत महासागर एवं हिंद महासागर को उत्पाक्य महासागरीय निक्षेप	4
		प्रवाल भित्तियां एवं उनकी उत्पत्ति संबंधित सिद्धांत	5
		प्रवाल विवेजन की संकल्पना	4
	V	समुद्री तापमान	2
		लवणता	3
		समुद्री जल का संचरण : लहरें, धाराये एवं ज्वार-भाटा ।	6
		ज्वार-भाटा संबंधित सिद्धांत	6
		महासागर भावी संसाधन के स्रोत के रूप में	6
		समुद्र के नियम तथा समुद्र प्रदूषण	3.

Name - Poonam blawik Teaching Plan

B.A. IInd year

Session - 2021-22.

Format

Subject - Geography

Economic Geography

S.No.	Unit	Topic to be covered	Nr. of Periods.
1	I st	आर्थिक भूगोल की परिभाषा एवं विषयवस्तु	6
		अर्थव्यवस्था के खंड - प्राथमिक, द्वितीयक एवं तृतीयक।	4
		प्राथमिक उत्पादन का भूगोल.	2
		कृषि उत्पादन एवं व्यापार - गेहूँ	10
		-- चावल	
		-- जन्त	
		-- जूट	
		-- ऊन	
		-- रबर	
		-- मत्स्य	
		विविध आर्थिक विभाग : मापन एवं समन्वय	64
II nd		प्रमुख खनिज एवं ऊर्जा संसाधन	2
		खनिजों के खनन को प्रभावित करने वाले कारक	4
		लोहा, मैंगनीज, बॉक्साइट खनिजों का उत्पादन वितरण एवं व्यापार	8
		कोयला, पेट्रोलियम, प्राकृतिक गैस, जलविद्युत एवं परमाणु ऊर्जा का उत्पादन एवं विश्व वितरण	10

S.No.	Unit-	Topic to be covered.	No. of Pgs
	III rd	<p>प्रदेशिक विकास एवं नियोजन : भारत में प्रदेशीय विकास की अनुभूति ,</p> <p>पंचवर्षीय योजना</p> <p>समाह्वित ग्रामीण विकास कार्यक्रम ,</p> <p>पंचायतीराज एवं ग्रामीण विद्युतीकरण कार्यक्रम</p> <p>अधिराज्य एवं विकास</p> <p>जल संग्रहण प्रबंधन, अविद्युत क्षेत्र के लिए विकास</p> <p>मत्स्यपंजीय , सूखेग्रस्त , पर्वतीय , जनजातीय क्षेत्रों के विकास हेतु योजना</p>	<p>4</p> <p>3</p> <p>3</p> <p>3</p> <p>2</p> <p>3</p> <p>4</p>
	IV	<p>विनिर्माण उद्योग : स्थानीयकरण को प्रभावित करने वाले कारक</p> <p>जोटा उत्पादन उद्योग का संयुक्त राज्य अमेरिका , रूस , ग्रेट ब्रिटेन , जर्मनी , तथा भारत ।</p> <p>विश्व में एल्युमिनियम उद्योग का स्थानीयकरण एवं वितरण</p> <p>सूती वस्त्रोद्योग का संयुक्त राज्य अमेरिका , ग्रेट ब्रिटेन , चीन , जापान तथा भारत में वृद्धि एवं वितरण</p> <p>विश्व में इस्पात उद्योग का स्थानीयकरण एवं वितरण</p>	<p>2</p> <p>7</p> <p>8</p> <p>2</p>
	V	<p>परिवहन: परिवहन के निम्नलिखित साधनों का सापेक्षित, स्थल, जल एवं वायु परिवहन</p> <p>विश्व के महासागरीय मार्ग , महत्वपूर्ण नहरें , रेलमार्ग</p> <p>वैश्वीकरण के संदर्भ में विश्व भू-व्यवस्था में परिवर्तन</p>	<p>8</p> <p>8</p>

भारत का भूगोल - Ist Paper

Sno.	Units	Topics to be covered	No. of Per
1	I st	रिजिजनल विशेषताएं भौतिक स्वरूप भौतिक संरचना धरातलीय बनावट अपवाह तंत्र नदी संयोजन जलवायु एवं वनस्पति	4 6 4 4 6 4 6
2	II nd	प्राकृतिक संसाधन: जल संसाधन जल संसाधन खनिज संसाधन - तांबा, आयरन, बॉक्साइट वन संसाधन प्रकार एवं वितरण शक्ति संसाधन कोयला, पेट्रोलियम प्राकृतिक गैस अपरंपरागत ऊर्जा स्रोत एवं ऊर्जा सुरक्षा वन्य जीव संसाधन एवं उनका संरक्षण	2 3 6 3 6 6 4
3	III rd	भारत का सांस्कृतिक भू-दृश्य जनसंख्या एवं उसकी विशेषताएं भारतीय भू-विकास - कृषि विशेषताएं प्रमुख फसलें - गेहूँ, चावल, कपास, सब्जि, तथा जलवायु हरित तथा श्वेत क्रांति	2 5 5 6 3

S.No	Units	Topic to be covered	No. of Pgs
		<p>औद्योगिक विकास - जोटा इन्साप एवं सूती वस्त्र उद्योगों अवधिपरिचलन एवं उत्पादन </p> <p>अंतर्राष्ट्रीय व्यापार</p>	5
	IV	<p>अर्थप्रदेश - भौतिक एवं सांस्कृतिक स्वरूप भौतिक स्वरूप - स्थिति, संरचना, भौतिक विकास अपवाह, जलवायु जलवायु, मृदा, प्राकृतिक वनस्पति कृषि, खनिज उद्योग एवं व्यापार</p> <p>सांस्कृतिक स्वरूप - जनसंख्या संरचना, वितरण घनत्व, वृद्धि, लिंगानुपात, साक्षरता ग्रामीण एवं नगरीय प्रवास, जनप्रतीकात्मक परिवर्तन</p>	10
	V	<p>राज्यनैतिक स्वरूप - भारतीय गठन के भौगोलिक आधार राज्यों का पुनर्गठन नवीन राज्यों का उद्भव भारत की अंतर्राष्ट्रीय सीमा और संबंधित मुद्दे सीमा पार आतंकवाद विश्व मुद्दों पर भारत की भूमिका, दक्षिण एशिया और भारतीय महासागरीय क्षेत्र की भूराजनीति।</p>	6 2 2 3 6 4 6 4

~~पर्यावरण~~
पर्यावरण एवं संसाधन संबंधन

Sl. No.	Units	Topics to be covered	No. of Periods
1	I st	पर्यावरण - अर्थ, परिभाषा, प्रकृति एवं कृत्रिमता	6
		प्राकृतिक एवं मानवीय पर्यावरण का मूलसंबंध	6
		पर्यावरण एवं परिवर्धन	6
		पर्यावरण संवर्धन, आपदा प्रबंधन एवं संरक्षण	6
	II nd	जैव विविधता एवं संपादित विकास	6
		मानव जीवन की गुणवत्ता एवं पर्यावरण	6
		पर्यावरण नीति	6
		पर्यावरणीय शिक्षा एवं विधान	6
	III rd	संपादित विकास - अर्थ, आवश्यकता एवं संकल्पनाएं	4
		पर्यावरण एवं मानव जीवन की गुणवत्ता	4
		पर्यावरण विधि एवं नीतियां	4
		समसामयिक पर्यावरणीय मुद्दे	6
जल संकट		4	
जनसंख्या एवं खाद्य सुरक्षा		4	
वैश्विक भू-तापन		6	
हरित गृह प्रभाव		4	
नगरीकरण, वनन एवं औद्योगिकीकरण		6	
IV		मृदा - उत्पत्ति, कृषिकरण एवं वितरण	4
	मृदा परिवर्धन	2	
	मृदा संवर्धन एवं संरक्षण	3	
	वनस्पति एवं जीवों के वितरण का प्रभावित करने वाले कारक	3	

Salo.	Unit	Topic to be covered	No. of Period
		निर्वनीकरण वे-पजीव सामाजिक कृषि। प्रमुख जीव समुच्चय केंद्र !	2 2 3 3
	V	पर्यावरण संरक्षण एवं प्रबंधन अर्थ, परिभाषा एवं उद्देश्य संकल्पनाएं भारत के संसाधन प्रयोग संसाधन संरक्षण तकनीक-भूमि जल, वायु, खनिज एवं वन पर्यावरण के विशेष संदर्भ में संसाधन प्रबंधन एवं योजना	2 6 4 6 8

कक्षावार निर्धारित पाठ्यक्रम

नीतिशास्त्र

सन् 2021 से- 2022 तक

कक्षा : B.O.A. प्रथम वर्ष

विषय : समाजशास्त्र

प्रश्नपत्र : प्रथम भूखण्ड विषय समाजशास्त्र भारतीय समाज एवं संस्कृति

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
1	सितम्बर	1	विषय एवं प्रश्न-पत्र का सामान्य परिचय भारतीय समाज का आधार लोक ग्राम एवं नगर
	दिसम्बर		ऐतिहासिक पृष्ठ भूमि: प्राचीन काल, म
			काल आधुनिक काल भारतीय समाज
			शास्त्रीय विशेषताएँ वर्ण, आश्रम एवं पुरुषार्थ सृष्टि एवं यज्ञ कर्म का सिद्धान्त।
2	जनवरी	1+2	पार-परिवर्तन: अरण्याक लोक (ग्राम और नगर) वस्तियाँ जनजातियाँ एवं सांस्कृतिक पृष्ठभूमि जनजाति की ऐतिहासिक रूपरेखा जनजाति क्षेत्र वर्गीकरण सामाजिक संस्थाएँ: परिवार, जातिदारी जनजाति दार्शनिक जनजाति समस्याएँ सामाजिक भूदे जनजाति संवैधानिक प्रावधान।
3	फरवरी	2+3	ग्रामीण विकास: नीतियाँ कार्यक्रम पुनौत्थिता ग्रामीण समाज अर्थ एवं विशेषताएँ ग्रामीण जीवन लोक संस्कृति लघु एवं वृहद परम्पराएँ जाति व्यवस्था

कक्षावार निर्धारित पाठ्यक्रम

नीलिमा चर्जी

सन् 2011-2012
2021 - 2022

कक्षा : B०A० प्रथम

विषय : समाजशास्त्र

प्रश्नपत्र : प्रमुख विषयसमाजशास्त्र प्रथम भारतीय समाज एवं संस्कृति

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
4	फरवरी + मार्च	III, IV	जाति व्यवस्था का इतिहास एवं परिवर्तन प्रतिमान कार्यक्रम एवं चुनौतियाँ
			नगर समाज - ऐतिहासिक रूपरेखा कस्बा, नगर एवं महानगर भारतीय नगर एवं उसका विकास
			नगरीय समाज में परिवर्तन एवं नगरीय समाज की चुनौतियाँ
			पैदाइश सामाजिक सांस्कृतिक निरन्तरता, अरण्यक, लोक एवं नगर
			नगर नियोजन एवं प्रबंध
5		IV + V	सामाजिक मुद्दे : राष्ट्रीय एकीकृत मुद्दे एवं चुनौतियाँ भारतीय पाठ्य
			व्यवस्था : मूल्य प्रतिमान मुद्दे बालक, युवा एवं बुजुर्गों के मुद्दे

कक्षावार निर्धारित पाठ्यक्रम

जीलिंगाचरणी

सन् 201 - 201

2021 - 2022

कक्षा : B0A0 I

विषय :
व्यावसायिक

प्रश्नपत्र : व्यावसायिक पाठ्यक्रम (व्यक्तित्व - विकास)

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
1	फरवरी	I	विजय का सामान्य परिचय व्यक्तित्व की अवधारणा, सफलता क्या है? सफलता प्राप्त करने में बाधाएं सफलता के लिये जिम्मेदार कारण
	मार्च	I	प्रभावी आदतें विकसित करना, असफलता के कारण असफलता क्या है? असफलताओं को प्रभावित करने वाले कारक एवं असफलताओं से सीखना, असफलताओं पर काबू पाना विश्वास की शक्ति विश्वास का अभ्यास शॉर्ट विश्लेषण और लक्ष्य निर्धारण (स्पेशलिक, मापन योग्य प्राप्ति योग्य वस्तुविक, समयबद्ध SMART लक्ष्य

कक्षावार निर्धारित पाठ्यक्रम

नीतिमान्वर

सन् 201 - 201

2021 - 2022

कक्षा : M.A. IV

विषय :

समाजशास्त्र

प्रश्नपत्र : राजनीतिक समाजशास्त्र III

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
1	27/1/22 जनवरी	I	प्रश्न-पत्र का सामान्य परिचय राजनीतिक समाजशास्त्र क्या है ?
2	फरवरी	I	राजनीतिक समाजशास्त्र - परिभाषा विषयवस्तु एवं अध्ययन क्षेत्र
			प्राडियाएँ - राजनीति विकास राजनीति सामाजिकरण , राजनैतिक सहभागिता
			राजनैतिक अवधारणा प्रणाली
		II	राजनैतिक प्रणाली परिभाषा एवं वर्गीकरण राजनीतिक अभिजन
			पैरेटों मोस्का एवं मिल्स राजनीतिक संस्कृति
		III	प्रजातांत्रिक प्रणाली परिभाषा लक्षण एवं गुण (लाभ) एवं प्रकार
			भारत में प्रजातंत्र अधिनायकवादी प्रणाली परिभाषा एवं प्रकार शीर्षस्थ एवं शीर्षहीन प्रणाली

कक्षावार निर्धारित पाठ्यक्रम

सत्र 201 - 201

2021 - 2022

कक्षा : M.A. IV

विषय :

प्रश्नपत्र : समाजशास्त्र (औद्योगिक समाजशास्त्र)

समाजशास्त्र

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
1	जनवरी +	I	औद्योगिकी समाजशास्त्र : प्रकृति महत्व एवं अध्ययन क्षेत्र औद्योगिकी संरचना
	फरवरी		का विकास औपचारिक एवं अनौपचारिक उद्योग श्रमविभाजन विद्युत्कर्म श्रमिक असंतोष एवं कर्म संघर्ष
	मार्च	II	औद्योगिक अधिकारीतंत्र
			श्रम संगठन श्रमिक आन्दोलन
		III	कार्य की अवधारणा : प्रकृति एवं कार्य की नैतिकता के मापदण्ड आंगिक
			पलायन भारत में श्रम संघर्ष
		IV	औद्योगिक समाज
			महिला एवं बाल श्रमिक
			जनजाति क्षेत्रों में उद्योग
		V	समकालीन औद्योगिक चर्चा
			शक्ति, उद्योग एवं प्रौद्योगिक
			श्रम सुरक्षा एवं समाजकल्याण

कक्षावार निर्धारित पाठ्यक्रम

सन् 201 - 201

2021 - 2022

कक्षा : M.A. II SEM

विषय : समाजशास्त्र

प्रश्नपत्र : II भारत में ग्रामीण समाज

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
1	21/22 से कक्षा प्रारंभ - फरवरी + मार्च	1	<u>ग्रामीण विकास :- अर्थ एवं समाज में</u> <u>ग्रामीण विकास का महत्व</u> पंचायती राज संस्था 73वें संशोधन के पहले व बाद में पंचायती. पंचायत अध्ययन में पंचायती राज
2	मार्च	2+	<u>माध्यम प्रदेश में पंचायत</u> <u>ग्रामीण पुनर्निर्माण एवं नियोजन,</u> <u>सामुदायिक विकास कार्यक्रम पंच</u> <u>वर्षीय योजनाएँ सामुदायिक विकास</u> <u>कार्यक्रम सहकारी प्रयास स्व सहाय</u> <u>समूह लिंग एवं विकास</u>
3		3	<u>ग्रामीण विकास की रणनीति एवं</u> <u>मुद्दे।</u> ग्रामीण सामाजिक संरचना एवं संस्कृति और उनमें परिवर्तन के कारक विकास एवं सामाजिक
4		4	<u>आर्थिक विषमता और उसके कारक</u> <u>भारत में ग्रामीण अध्ययन :- का महत्व</u> ग्रामीण समाज में परिवर्तन हरित क्रांति एवं सामाजिक परिवर्तन
5		5	<u>ग्रामीण भारत में :- सामाजिक परिवर्तन</u>

कक्षावार निर्धारित पाठ्यक्रम

नीतिशास्त्र
(150.51)

सन् 2011 - 20122

कक्षा : B0A0 II

विषय :

सामाजिकशास्त्र

B0A0 III

प्रथम-प्रश्न-पत्र सामाजिक विचारक सितम्बर

प्रश्नपत्र :

प्रथम-प्रश्न-पत्र सामाजिक प्रक्रियाएँ एवं परिवर्तन (अभू 02)

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
1	1/11/21 से सितम्बर कक्षा प्रारंभ	प्रथम I B0A0 III	विषय का सामान्य परिचय विचारक क्या है। अंग्रेजों का जीवन परिचय तीन स्तरों का नियम प्रत्यक्षवाद मानव चिन्तन के स्तर और सामाजिक संगठन प्रत्यक्षवाद की मान्यताएँ।
	अक्टूबर 2021	B0A0 II प्रथम	सामाजिक संगठन की प्रक्रियाएँ। अध्ययन एवं व्यवस्थापन सामूहिकता एवं अनुकूलता।
	2021 नवम्बर	प्रथम + द्वितीय	सामाजिक विभिन्न प्रकार के सामाजिकों में कार्य का सामाजिक संगठन द्वारा सामाजिक औद्योगिक पुंजीवाद। सामाजिक विघटन की अवधारणाएँ। विशेषताएँ। सामाजिक विघटन की प्रक्रियाएँ प्रतिस्पर्धा संघर्ष विचार व्यवहार एवं युद्ध।
	दिसम्बर 2021	II एवं III	
	जनवरी 2022	IV	सामाजिक विधान धरे हुए विधानों अधिनियम 2005 अनुसूचित जातों एवं अल्पसंख्यक निरोधक अधिनियम 1989 मानव अधिकार अधिनियम

2

कक्षावार निर्धारित पाठ्यक्रम

नीलिमाथ रजॉ
(कक्षा 10)

सन् 2011 - 2012

कक्षा : BODOT

विषय :

समाजशास्त्र

प्रश्नपत्र : प्रथम-प्रश्न-पत्र सामाजिक उत्तियाँ एवं परिवर्तन

क्र.	माह	इकाई	प्रस्तावित पाठ्यक्रम
	जनवरी + फरवरी	IV	सूचना का अधिकार अधिनियम 2005 भारतीय संविधान एवं अपराधिक नियमों के अन्तर्गत महिलाओं को प्राप्त सुरक्षा पर्यवेक्षण संरक्षण अधिनियम 1986 उपश्रोक्ता संरक्षण अधिनियम 1986 सूचना प्रौद्योगिकी अधिनियम-2000 म.उ. लोकसेवाओं को उदान की गारटी अधिनियम 2000
	मार्च	V	सामाजिक परिवर्तन की उत्तियाँ सामाजिक आन्दोलन, नियोजन नगरीकरण औद्योगीकरण आदिमिकी करण /

2021 - 2022

Dr Meenakshi Saxena

Home sc.

BSC (Home Sc.) I Year

Personality Development

S.No.	Class.	Unit	Topic to be covered	No. of period.
01	B.H.Sc. I year.	I	Personality, success and facing failures Concept of Personality Success Habitus Development Failure - meaning Factors affecting failure Faith - Power SWOT Goal setting SMART Goals	02 -02 02 02 02 01 03 03 06
2	BHSCI	II	Time and stress Management and Employability Quotient. Time - Resource Time-wasters Techniques for better Time Management Stress - Introduction causes - and effect Interview	02 02 03 02 02 02

S.No.	Class.	Unit	Topic to be covered	No. of period.
03	B.H.S.C. I year.	III	<p>Communication Skill and Digital EQ Etiquettes</p> <p>communication skills</p> <p>Stagefear</p> <p>Visuals in Presentation</p> <p>Social etiquettes</p> <p>ICT in Day-to-day management.</p> <p>Social Media</p> <p>Email etiquette</p> <p>Netiquette, useful</p> <p>Electronic gadgets and mobile application.</p>	<p>02</p> <p>03</p> <p>02</p> <p>02</p> <p>04</p> <p>02</p> <p>01</p> <p>01</p> <p>02</p>

ॐ विद्या विधा

Dr. Meenikshi Saxena

Dr. Ruchi Soni

सत्र - 2021-22

Home Science
Department

Subject - Yoga and Meditation.

S.No.	Class.	Unit	Topic to be covered	No. of period.
01	B.H.Sc. I Year.	01	- yoga Etymology, definition, aim, objective and misconceptions - Rules and Regulations to be followed by yoga practitioners - yoga its origin, history and development. - Introduction to yoga. - shatkaema - meaning, purpose and their significance in yoga sadhana. - Introduction to yogic loosening practices and Surya Namaskar.	02 02 02 02 02 02
02			- sectional Breathing (Abdo- minal, Thoracic and clavicular) - Yogic Deep Breathing - Concept of Puraaka Rechaka and Kumbhaka - concept of Bandha and mudra.	02 02 02 02

S.No.	Class.	Unit	Topic to be covered	No. of period.
01	B.H.Sc. I year.	02	<ul style="list-style-type: none"> - Anulmoaviloma/ Madishodhana. - Shitali - Bheamaei 	<p>02</p> <p>02</p> <p>02.</p>
		03.	<ul style="list-style-type: none"> - Recitation of Pranava Mantra. - Recitation of Hymns in vocations and Prayers - Antra Moun - Breath meditation - Om Dhyana 	<p>03</p> <p>02</p> <p>02</p> <p>02</p> <p>02</p>

Session - 2021-22

Home Science

TEACHING PLAN

Bhauhi Goswami

Asst. Prof.

Home Science

SN.	CLASSES	UNITS	TOPICS TO BE COVERED	NO. OF PERIODS
01.	Bsc(H.Sc) - I year (Environmental Education)	I	Environment and Natural Resources : → Multidisciplinary nature, scope and importance of Environment. → Components of Environment: Atmosphere, Hydrosphere, Lithosphere, and Biosphere. → Brief account of Natural Resources and associated problems: Land Resources, water Resources, Energy Resources → Concept of Sustainability and sustainable Development.	02 02 05
		II	Biome, Ecosystems & Biodiversity: → Major Biomes - Tropical, Temperate forest, Grassland, Desert, Tundra, Wetland, Estuarine and Marine. → Ecosystems:- Structure function and types their Preservation → Biodiversity and its conservation practices.	03 03

CLASSES	UNITS	TOPICS TO BE COVERED	NO OF PERIODS
B.Sc (H.Sc) - I year	III	<p>Environmental Pollution, Management of social issues:</p> <ul style="list-style-type: none"> - Pollution:- Types, Control measures, Management and associated problems. = Environmental Law and legislation: Protection and Conservation Acts. = International Agreement & Programme. = National and International organizations related to environment conservation and monitoring. = Role of information technology in environment and human health. 	<p>03</p> <p>02</p> <p>01</p> <p>02</p> <p>02</p>

सत्र - 2021 - 22

subject - Fundamentals of Textiles

S.No.	Class.	Unit	Topic to be covered	No. of period.	
01	B.H.Sc. I year.	01	1. Introduction -		
			1.1 - A brief historical background of textiles in context of India and Indian culture.	01	
			1.2 - Definition of Textile and Textile terminology	03	
			1.3 - Classification of Textile fibres	01	
			1.4 - Introduction to polymerization - and molecular arrangement of fibres	02	
			1.5 - physical properties of fibres	01	
			Chemical properties of fibres	02	
			02	Fibres -	
			1.1 - Natural fibres cotton, linen, Jute	06	
			1.2 - Silk, wool	05	
2. - Man made fibres					
2.1 - Rayon	03				
2.2 - Nylon	02				
2.3 - Polyester	02				
2.4 - Acrylic	02				

S.No.	Class.	Unit	Topic to be covered	No. of period.
	B.H.S.C. I year.	03	<p>Yarn and fabric</p> <p>1. Yarn</p> <p>1.1 - process of yarn making: mechanical spinning, chemical spinning</p> <p>1.2 - Classification of yarn:</p> <p>1.3 - Properties of yarn</p> <p>1.4 - Blends: Types and blending</p> <p>2 - woven fabrics</p> <p>2.1 - Loom - parts and motion of loom</p> <p>2.2 - Classification - basic weaves - plain, Twill, satin, sateen</p> <p>2.3 - Novelty - weaves - pile, Leno - Gouze, Honey Comb, Huckaback, Bird's eye</p> <p>3 - knitted fabrics -</p> <p>3.1 - Terminology used.</p> <p>3.2 - Types of knitting - Hand knitting, Machine knitting</p> <p>4 - Non woven and felts -</p> <p>4.1 - construction, Properties and usage</p>	<p>01</p> <p>01</p> <p>01</p> <p>02</p> <p>-02</p> <p>02</p> <p>-02</p> <p>01</p> <p>- 01</p> <p>02</p>

S.No.	Class.	Unit	Topic to be covered	No. of period.
	B.H.Sc. I year.	04	<p>Coloration and finishing of Textile</p> <p>1.1 - Classification of dyes</p> <p>1.2 - Methods of dyeing - Simple, Pad, Dope, Top, Union dyeing</p> <p>1.3 - Components of dyeing and its relation to dye material (Auxiliaries, Temperature and dye bath)</p> <p>2.1 - Types of printing - Block, stencil, screen, Roller, Resist printing - Block, stencil, screen, Roller, Resist printing (Tie & Dye, Batik)</p> <p>2.2 - Modern methods of printing - Duplex, Discharge, Flock, Blotch, Extract printing.</p> <p>2.3 - Pre-preparation for printing (Printing paste, Printing table)</p> <p>3.1 - Basic finishes - Singeing, Scouring, Bleaching, Sizing, Weighting, Degumming, Mercerizing</p>	<p>01</p> <p>01</p> <p>02</p> <p>02.</p> <p>02</p> <p>01</p> <p>03</p>

S.No.	Class.	Unit	Topic to be covered	No. of period.
	B.H.Sc I Year.		and Calendaring. 3.2 - special finishes - wrinkle resistance, water resistance and repellent, flame retardant, flame durable press. soil release, Anti pilling	03
			<i>Suhita</i>	

Session - 2021 - 22

HOME SCIENCE

TEACHING PLAN

Bhauki Goswami
Asst. Prof.
Home Science

S.No.	Class.	Unit	Topic to be covered	No. of period.
01	B.H.Sc. I year. (Family Resource Management)	Unit = 01	Family Resource Management: Introduction to FRM, concept, definition, importance, philosophy, universality and scope of family Resource Mgt. 1.2) family life cycle - stages and sub stages. 1.3) factor affecting Mgt. 1.4) The family Mgt. System 1.5) Motivational factors 1.6) FRM - value, Goals and standards :- Meaning, characteristics and classification.	03 03 03 03
		Unit - 02	Introduction of Resources :- 1.1 - Concept 1.2 - Classification 1.3 - characteristics of FR. 1.4. - factor affecting the Utilization of Resources. 1.5. Maximizing use of	03 03

S.No.	Class.	Unit	Topic to be covered	No. of period.
01	B.H.S.C. I Year. Family Resource Management	01	1.6- Demand of Time, Energy and money in different stages and sub stages of family life cycle. 1.7) - Natural Resources - Renewable, Non Renewable.	05 01
		Unit- 03	1. Management process; Definition and step of Management process. Planning: Nature, import- ance, Characteristics, types of planning, & steps organizing:- Importance and process of organizing. stages. Controlling:- Meaning, Importance, steps, factors affecting, Direction & Guidance Evaluation:- Meaning, types, Importance & Techniques.	01 03 04 02 02

S.No.	Class.	Unit	Topic to be covered	No. of period.
01	B.H.Sc. I year. (Family Resource Management)	01	Decision making: 21 concept, Definition, Types, factor affecting and steps of D.M. Event Management: Concept, classification & stages of EM.	02 01
		Unit - 04	Time Management - Concept, Tools, steps of TM Money Management - Types, Sources of Income Steps of MM - Budget making, controlling & Evaluating Energy Management - Concept, types of Efforts Concept of Body Mechanism Classification of activities according to the energy cost, fatigue. fatigue: - types, method of eliminating fatigue work simplification - Def. importance, principles, methods class of changes.	04 04 04

Early Childhood & Childhood Education

S.No.	Class.	Unit	Topic to be covered	No. of period.
01	B.H.Sc. II year. Human Development. (Early child hood care & Education)	I	Early childhood. Meaning. Definition. Characteristics Developmental task. Late childhood	04 02 03
		Unit II	Physical development of Early childhood - Physical development Posture Development	03 03
		Unit II	Motor Development of Early childhood - activities to improve motor skill Effects of delayed develop ment	06 02
		Unit III	Socialization - social Development. Play	04 04
		Unit III	Emotional development. Positive and Negative Emoti ons.	04
		Unit III	Language Development	04
		Unit III	Moral development	03
		Unit III	Improving moral develop ment.	06
		Unit IV	Personality Development	06
		Unit IV	Determinants of Personality	05
		Unit IV	Parental control.	06
		Unit IV	Discipline	04
		Unit IV	Parental attitude and its effect on child's personality	06

S.No.	Class.	Unit	Topic to be covered	No. of period.
	B.H. Sc. II year. Early Child Hood Educati on.	V	Significance and deter minents of Personality, Behaviour Problems, Parent, child and teacher relationship,	06 06 06

2021-2022
 BHSC. II
 Preschool Education

Dr. Meenakshi Saxena
 Home Sc. Dept.

S.No.	Class.	Unit	Topic to be covered	No. of period.
01	B.H.Sc. II year.	I	Nursery School Education - meaning, Aims	04
			Kindergarten Education Aims, Objectives, Methods	04
	" "	II	Planning and Management of Nursery School Buildings	06
			Budget of N. School	03
			Curriculum of N. School	04
	" "	III	Activities of Cognitive development .	03
			Concept formation Activities for Mathematical concept, Sc. Concept, colour, size, Shape, Time, weight, Length .	08
	" "	IV	Role of National and International agencies, in the development of Early Childhood	05

S.No.	Class.	Unit	Topic to be covered	No. of period.
04	B.H.Sc. II year.	<u>IV</u>	INHO CARE ICDS	03 02 04
	— " —	<u>V</u>	Play. - Play material and Methods of Preschool Education - Significance of Play. - values of Play, Types of Play and Play Equipments.	03 04 02 02 04

Subject - Housing and Interior Decoration

S.No.	Class.	Unit	Topic to be covered	No. of period.
03	B.H.Sc. II Year.	01	1. Meaning and definition of decoration	01
			2. Aims and objective of decoration	01
			3. Beauty, Expressiveness & functionalism.	02
			4. Application of decoration in home.	01
			5. Introduction of elements of Art.	01
			6. Line, form, texture, pattern, space, and light	02
			7. Application of element of art in decoration	01
02			1. origin, theory and source of colour.	01
			2. characteristics, effect of colour.	02
			3. Colour. wheel and colour. Schemes	02
			4. definition, types, structural and decorative design.	01
			5. Principle of design: proportion, balance, harmony, rhythm & emphasis	03

S.No.	Class.	Unit	Topic to be covered	No. of period.
	B.H.Sc II year.		6. Traditional, Regional and Contemporary art	01
			7. Floor decoration, Alpana, Rangoli and Floor Carpet	02
		03	1. Family housing needs	01
			2. Protective, economic, affectional, educational Social, Cultural, Religious, Prestige, Recreational	02
			3. Selection at site: physical feature, soil Condition Sanitary, practical practical; Consideration.	01
			4. Family Requirement; Legal Aspect	01
		04.	1. principles of house plan. Aspects, Prospect furniture requirement for business.	02
			2. Grouping Circulation, Privacy, Sanitation, elegance, economy.	02

S.No.	Class.	Unit	Topic to be covered	No. of period.
			3. Allocation of space in the house	01
			4. Planning of different Rooms: living room, dining room, bed room, kitchen, store room, Bath room, Passage and Stair case.	02
			5. Arrangement of furniture for living, sleeping, dining and multipurpose room	01
		05	1. Planning types of kitchen, work centre, storage and safety.	02
			2. Landscape planning, meaning + objective	01
			3. Principle of landscape planning	01
			4. Landscaping of plot area	01
			<i>Signature</i>	

Subject - Rural development

S.No.	Class.	Unit	Topic to be covered	No. of period.
02	B.H.Sc. II year.	01	1. Rural development - Importance, and scope.	01
			2. Rural leadership - meaning characteristics of leadership.	02
			3. Extension work	01
			4. Leadership	02
02			1. National policy on women	02
			2. Changing status and role of women in family and society	02
			3. objective of community development programme	01
			4. Scope of community development programme	01
			5. Importance of community development programme.	01
03			1. process of community organization	01
			2. principles and philosophy of community development	02

S.No.	Class.	Unit	Topic to be covered	No. of period.
	B.H. SC. II year.	03	3. Role of community organizers in govt. and non govt. organizations 4. steps in group formation of community organizations	01 01
		04	1. Target achievement of community development programme 2. Administration and management of community development programme	01 02.
		05	1. Relationship between Extension education and community development programme. 2. similarity and difference between community its development and extension. 3. planning & evaluation of community development programme.	01 01 03

S.No.	Class.	Unit	Topic to be covered	No. of period.
1	B.H.Sc. III year.	<u>I</u>	<p><u>Puberty</u> - Meaning definition, Characteristics</p> <p>Criteria of Puberty</p> <p>Physical Changes.</p> <p>Common Concerns of Puberty</p>	<p>6</p> <p>02</p> <p>05</p> <p>04</p>
2	BHSC III	<u>II</u>	<p>Adolescence -</p> <p>- Concept, definition, Characteristics</p> <p>- Developmental tasks</p> <p>- Physical Changes</p> <p>- Problems of Adolescence</p> <p>- Emotionality during Adolescence.</p>	<p>06</p> <p>02</p> <p>03</p> <p>04</p> <p>04</p>
3	BHSC III	<u>III</u>	<p>Stamly Hall's views</p> <p>social development</p> <p>- Strains and Stress</p> <p>- Family Relationship</p> <p>- Adjustment To Parenthood</p> <p>- Adjustment to vocation</p> <p>- Family Problems</p> <p>- Juvenile delinquency</p>	<p>05</p> <p>06</p> <p>06</p> <p>04</p> <p>03</p> <p>03</p> <p>06</p> <p>05</p>
4	BHSC III	<u>IV</u>	<p>Development of Sex Role</p> <p>- Sex Role development</p>	04

S.No.	Class.	Unit	Topic to be covered	No. of period.
04	B.H. SC. III year.	<u>IV</u>	Theories of Sexrole development - Psychanalytic Theory - Social theories - Sex Education - Interest and Hazards of Adolescence	04 05 04 07 08
5	BHSC <u>III</u> Year	<u>V</u>	Adulthood - Concept, Meaning - Characteristics of Adulthood, - Middle Adulthood - Vocational adjustment - Mental adjustment - Late Adulthood characteristics - Problem of Late Adulthood - Retirements,	03 03 05 04 04 03 04 05

Guidance and Counseling

S.No.	Class.	Unit	Topic to be covered	No. of period.
06	B.H.Sc. III year.	01	01. principles, objectives, types and characteristics of Guidance and Counseling 02. Techniques/methods of Guidance and Counseling 03. Meaning and differences between advice, Counseling and Guidance. 04. need for Counseling, Goals of Counseling.	04 02 01 01
		02	1. Qualities and role of a Counselor 2. Role of Parents in Guidance Programmes - (a) Childhood period 6-12 3. Role of Teacher in Guidance and Counseling - (a) Role of Teacher in school Adjustment 4. Role of Teacher in academic achievement	01 02 02 01

S.No.	Class.	Unit	Topic to be covered	No. of period.
	B.H.Sc. III year.	03	1. Counselling during Adolescence 2. vocational counselling 3. counselling during old age 4. Guidance and counselling for parenthood. 5. Pre - marital and post marital counselling	01 01 02. 01 02
		04	1. Behavioural Problem during early childhood - Related to physical Social, Emotional and interrelated development. 2. Guidance programme for parents of nursery school children - with child adjustment; Academic Achievement.	04 02

सत्र - 2021-22

Subject - Household equipment + furnishing

S.No.	Class.	Unit	Topic to be covered	No. of period.		
01	B.H.Sc. III year.	01	1. Home Appliances - Definition of Home Appliances	01		
			2. Importance of Appliances in daily life	01		
			3. Classification of Household equipment.	01		
			4. Mixer	01		
			5. oven	01		
			6. Refrigerator.	02		
		02			1. washing machine	02
					2. vacuum cleaner.	02
					3. Study of materials used in construction of household equipment.	03
					04. Base material - Aluminium, Brass, Steel, Copper, Glass etc.	04
		03			1. Classification of furniture	01
					2. Arrangement and requirement of furniture for different room	01
3. Furniture finishes	01					

S.No.	Class.	Unit	Topic to be covered	No. of period.	
	B.H.S.C. III year.		4. varnishes, polishes	02	
			5. Care and maintenance of furniture	01	
04				1. furnishing - definition, classification, factors influencing furnishing selection.	02
				2. Family needs, preferences, financial limit	01
				3. furnishing selection on the basis of - Cost, climate, use and principle of design and element of art.	04
05			1. Lighting in interior-decoration	01	
			2. Types and selection of lighting	02	
			3. Arrangement in different rooms	01	

Signature

Subject -

Communication & Extension.

S.No.	Class.	Unit	Topic to be covered	No. of period.
05	B.H.Sc. III year.	01	1. Analysis of family as a social unit.	01
			2. Family definition types, function	04
			3. Analysis of social relation to environment, customs, mores, rules, and regulation in relation to eco-friendliness.	02
		02	1. Empowerment of women.	01
			2. Women development - Personal, familial, societal, and national perspectives	01
			3. Awareness on legal issues	01
			4. Gender Analysis, concept of gender distinct from sex.	01
			5. Gender issues: Inequalities & Discrimination.	

S.No.	Class.	Unit	Topic to be covered	No. of period.
01	B.H.Sc. III year.	03	1. Personal Growth and 2. Personality development, Meaning, Definition, Types, Factors, influencing Personality development.	01 05
		04	1. Conflicts & stress Coping strategies. 2. Understanding one self - strengths & weakness. methods of solving these problems.	04 02
		05	1. Home science Education as empowerment. 2. The role of Home science Education for Personal growth and Professional development 3. The inter disciplinary of Home science Education with science, arts, commerce and other discipline	01 01 01

Eshwari