

RATIONALISED SYLLABUS COMPARISON

CLASS XII

SESSION - 2021-22 vs 2022-23

SUBJECT: ENGLISH CORE

S.No.	Unit/ Chapter	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalization in Practicals/ IA (2022-23)
1.	Reading section	Reading : note making deleted	Reading : note making deleted	Same as the previous academic session
2.	Writing Section	Writing section : ADDITION :Advertisement, Poster Business or Official letters for making enquiries, registering complaints , asking for giving information , placing orders and sending replies added	DELETED :Advertisement, Poster, Debate, Speech	
3.	Literature Section	LIT LESSONS :DELETED : Poets and Pancakes The Interview• •Going Places•The Tiger King •Journey to the end of the Earth Memories of Childhood	LIT LESSONS :ADDITION :Poets and Pancakes The Interview• Going Places•The Tiger King • Journey to the end of the Earth • Memories of Childhood	
4	Lit (Poetry)	POETRY: DELETED : A Roadside Stand	POETRY: ADDITION : A Roadside Stand	
	CHANGE IN MARKS ALLOTMENT	Writing Skill : Notice, Advertisement , Poster Making , Invitation comprised of 3 marks each in 2021-22academic session . Literature: Total marks allotted to Multiple Questions from Flamingo and Vistas in 2021-22 was 20(8+4=8)	Writing Skill : Notice, Advertisement , Poster Making , Invitation comprised of 5 marks each. <i>*short writing task should have been allotted less marks .</i> Literature: Total marks allotted to Multiple Questions from Flamingo and Vistas In 2022-23 it is 16 (6+4+6)	
Percentage of Rationalization		30%	5%	

SUBJECT – MATHEMATICS (041)

S.No.	Unit/ Chapter	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1	Relations and Functions	DELETED: Composition and inverse of functions, Binary operations	DELETED: Composition and inverse of functions, Binary operations	2 practicals added
2	Inverse Trigonometric Functions	DELETED: Properties of inverse trigonometric function	ADDITION: Graphs of inverse trigonometric functions. DELETED: Properties of inverse trigonometry function.	
3	Matrices	DELETED: Elementary transformation	DELETED: Elementary transformation	
4	Determinants	DELETED: Properties of Determinants. Consistency, inconsistency and number of solutions of system of linear equations by examples	DELETED: Properties of Determinants ADDITION: Consistency, inconsistency and number of solutions of system of linear equations by examples	
5	Continuity and Differentiability	DELETED: Mean value theorem and Rolle's theorem	DELETED: Mean value theorem and Rolle's theorem	
6	Applications of Derivatives	DELETED: Rate of change, Approximation	DELETED: Approximation, Tangent & Normal ADDITION: Rate of change	
7	Integrals	DELETED: Limit as sums	DELETED: Limit as sums	
8	Applications of the Integrals	DELETED: Area bounded by two curves	DELETED: Area bounded by two curves	
9	Differential Equations	DELETED: Formation of Differential equation, Homogeneous and linear form type 2	DELETED: Formation of Differential equation ADDITION: Homogeneous and linear form type 2	

10	Vectors	DELETED: Scalar triple product	DELETED: Scalar triple product	
11	Three - dimensional Geometry	DELETED: Angles between two lines, line and plane and two planes .	DELETED: Planes	
12	Linear Programming	DELETED: Mathematical formation of LPP and unbounded region concept	DELETED: Mathematical formation of LPP.	
13	Probability	DELETED: Mean variance and standard deviation of random variable .	DELETED: Variance and standard deviation of random variable. ADDITION: Mean of a random variable.	
Percentage of Rationalisation		Approx. 30%	Approx. 30%	

SUBJECT - PHYSICS

S.No.	Unit/ Chapter	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1	Electrostatics	Uniformly charged thin spherical shell (field inside and outside) - Deleted	Uniformly charged thin spherical shell (field inside and outside)- Added	<ul style="list-style-type: none"> • 8 experiments (4 from each section A and B) • 6 activities (3 from each section A and B) • Investigatory project (included this year) • One activity has to be performed during exam which was not earlier
2	Current Electricity	Carbon resistors, colour code for carbon resistors; series and parallel combinations of resistors Deleted	metre bridge. Potentiometer - principle and its applications to measure potential difference and for comparing EMF of two cells; measurement of internal resistance of a cell. Deleted	
3	Moving Charges and Magnetism	Cyclotron Deleted	Cyclotron Deleted	
4	Magnetism and Matter	magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis, torque on a magnetic dipole (bar magnet) in a uniform magnetic field; etic elements. Para-, dia- and ferro - magnetic substances, with examples. Electromagnets and factors affecting their strengths, permanent magnets. Deleted	magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis, torque on a magnetic dipole (bar magnet) in a uniform magnetic field; etic elements. Para-, dia- and ferro - magnetic substances, with examples. Electromagnets and factors affecting their strengths, permanent magnets Added	
5	Alternating Current	Power factor, wattless current. Deleted	Power factor, wattless current. Added	
6	Electromagnetic Waves	Basic idea of displacement current Deleted	Basic idea of displacement current Added	

7	Ray Optics	Reflection of light, spherical mirrors, mirror formula, Scattering of light -blue colour of sky and reddish appearance of the sun at sunrise and Sunset. Deleted	Reflection of light, spherical mirrors, mirror formula Added	
8	Wave Optics	resolving power of microscope and astronomical telescope, polarisation, plane polarised Light, Brewster's law, uses of plane polarised light and Polaroids. Deleted	resolving power of microscope and astronomical telescope, polarisation, plane polarised Light, Brewster's law, uses of plane polarised light and Polaroids. Deleted	
9	Dual Nature of Radiation and Matter	Davisson-Germer experiment Deleted	Davisson-Germer experiment Deleted	
10	Nuclei	Radioactivity, alpha, beta and gamma particles/rays and their properties; radioactive decay law, half-life and mean life, binding energy per nucleon and its variation with mass number Deleted	Binding energy per nucleon and its variation with mass number Added	
11	Electronic Devices	Zener diode and their characteristics, zener diode as a voltage regulator. Deleted	Special purpose p-n junction diodes: LED, photodiode, solar cell. Zener diode and their characteristics, zener diode as a voltage regulator Deleted	
Percentage of Rationalisation		30%	15%	

SUBJECT – CHEMISTRY

S.No.	Unit/ Chapter	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1.	Solid State	Deletion: Electrical and magnetic properties, Band theory of metals, conductors, semiconductor s and insulators, n and p type semiconductors	ENTIRE UNIT – DELETED	Addition: 1. Surface Chemistry (a) Preparation of one lyophilic and one lyophobic sol Lyophilic sol - starch, egg albumin and gum Lyophobic sol - aluminium hydroxide, ferric hydroxide, arsenous sulphide. (b) Dialysis of sol-prepared in (a) above. (c) Study of the role of emulsifying agents in stabilizing the emulsion of different oils. 2. Chemical Kinetics (a) Effect of concentration and temperature on the rate of reaction between Sodium Thiosulphate and Hydrochloric acid.
2.	Solutions	Deletion: Abnormal molecular mass, Van't Hoff factor.	Addition: Abnormal molecular mass, Van't Hoff factor.	
3.	Electrochemistry	Deletion: Law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion.	Addition: Law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion.	
4.	Chemical Kinetics	Deletion: Concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation.	Addition: Concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation.	

5.	Surface Chemistry	Deletion: Emulsion - types of emulsions, catalysis: homogenous and heterogeneous, activity and selectivity of solid catalysts; enzyme catalysis	ENTIRE UNIT – DELETED	(b) Study of reaction rates of any one of the following: (i) Reaction of Iodide ion with Hydrogen Peroxide at room temperature using different concentrations of Iodide ions. (ii) Reaction between Potassium Iodate, (KIO ₃) and Sodium Sulphite: (Na ₂ SO ₃) using starch solution as an indicator (clock reaction).
6.	General Principles and Processes of Isolation of Elements	ENTIRE UNIT – DELETED	ENTIRE UNIT – DELETED	
7.	p-Block Elements	Deletion: Preparation and properties of Phosphine. Sulphuric Acid: industrial process of manufacture, Oxides of Nitrogen (Structure only); Phosphorus - allotropic forms, compounds of Phosphorus: Preparation and properties of Halides and Oxo acids (elementary idea only)	ENTIRE UNIT – DELETED	3. Thermochemistry Any one of the following experiments (a) Enthalpy of dissolution of Copper Sulphate or Potassium Nitrate. (b) Enthalpy of neutralization of strong acid (HCl) and strong base (NaOH).
8.	d and f Block Elements	Deletion: Preparation and properties of K ₂ Cr ₂ O ₇ and KMnO ₄ . Chemical reactivity of lanthanoids	Addition: Preparation and properties of K ₂ Cr ₂ O ₇ and KMnO ₄ . Chemical reactivity of lanthanoids	(c) Determination of enthalpy change during interaction (Hydrogen bond formation) between Acetone and Chloroform.

		Actinoids - Electronic configuration, oxidation states and comparison with lanthanoids	Actinoids - Electronic configuration, oxidation states and comparison with lanthanoids	4. Electrochemistry Variation of cell potential in Zn/Zn^{2+} Cu^{2+}/Cu with change in concentration of electrolytes (CuSO_4 or ZnSO_4) at room temperature. 5. Preparation of Organic Compounds Preparation of any one of the following compounds i) Acetanilide ii) Di-benzalAcetone iii) p-Nitroacetanilide iv) Aniline yellow or 2 - Naphthol Anilinedye.
9.	Coordination Compounds	Deletion: Structure and stereoisomerism, importance of coordination compounds (in qualitative analysis, extraction of metals and Biological system).	Addition: Structure and stereoisomerism, importance of coordination compounds (in qualitative analysis, extraction of metals and Biological system).	
10.	Haloalkanes and Haloarenes	Deletion: Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.	Addition: Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.	
11.	Alcohols, Phenols and Ethers	Deletion: Uses with special reference to methanol and ethanol.	Addition: Uses with special reference to methanol and ethanol.	
12.	Aldehydes, Ketones and Carboxylic Acids	No deletions	No deletions	
13.	Amines	Deletion: Diazonium salts: Preparation, chemical reactions and	Addition: Diazonium salts: Preparation, chemical reactions and	

		importance in synthetic organic chemistry	importance in synthetic organic chemistry	
14.	Biomolecules	Deletion: Oligosaccharides (sucrose, lactose, maltose), Polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates; Enzymes; Hormones - Elementary idea excluding structure. Vitamins - Classification and functions	Addition: oligosaccharides (sucrose, lactose, maltose), Polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates; Enzymes; Hormones - Elementary idea excluding structure. Vitamins - Classification and functions	
15.	Polymers	ENTIRE UNIT – DELETED	ENTIRE UNIT – DELETED	
16.	Chemistry in Everyday Life	ENTIRE UNIT – DELETED	ENTIRE UNIT – DELETED	
Percentage of Rationalisation		Deleted: 30%	Deleted: 37.5%	Addition : 12% (5 practicals added in content based experiments)

SUBJECT – BIOLOGY

S.No.	Unit/ Chapter	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1.	Unit VI (Reproduction)	DELETION – CH -1 (Reproduction in organisms)	DELETION – CH -1 (Reproduction in organisms)	<p>Total no. of five practical's in SECTION A (two practical's are deleted 1. To collected water sample4s from water bodies and study them for ph clarity etc 2.collect and study soil from two different samples for ph and water holding capacity)</p> <p>In SECTION B Two new practical's are added, which are introduced for the first time in the curriculum (New practical's are - 1. Models/ specimen showing symbiotic association in root nodules of leguminous plants , Cuscuta on host , lichens 2 Flash card/ models showing examples of homologous and analogous organs)</p>
2	Unit VII (Genetics and Evolution)	DELETION – CH- 7(Evolution)	ADDITION CH- 7(Evolution)	
3	Unit VIII (Biology and human welfare)	DELETION CH- 9 (Strategies for food enhancement)	DELETION CH- 9 (Strategies for food enhancement)	
4	Unit IX (Biotechnology and its applications)	NO DELETION	NO DELETION	
5	Unit X (Ecology and Environment)	DELETION CH- 14(ecosystem) CH- 16(Environmental issues)	DELETION CH-16(Environmental issues)	
		Total chapters – 16 No. of chapters deleted -5	ADDITION – CH- 14(Ecosystem) Total chapters – 16 No. of chapters deleted -3	
Percentage of Rationalisation		30%	20%	

SUBJECT – COMPUTER SCIENCE

S.No.	Unit/ Chapter	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1	Unit I: Computational Thinking and Programming - 2	Deletion <ul style="list-style-type: none"> • Python libraries: creating python libraries • Recursion: simple programs with recursion: sum of first n natural numbers, factorial, Fibonacci series • Idea of efficiency: number of comparisons in Best, Worst and Average case for linear search • Introduction to queue, operations on queue (enqueue, dequeue, is empty, peek, is full), implementation of queue using list. 	Addition Python libraries: Import Python libraries	No Change
Percentage of Rationalisation		20%	15%	

SUBJECT – ACCOUNTANCY

S.No.	Unit	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1.	Unit 1:- Accounting for Non Profit Organisation	No Change	Entire Unit deleted	No change
2.	Unit 2:- Accounting for Partnership Firm	DELETED Admission of Partner :- Adjustment of capital accounts and preparation of Balance sheet Retirement and Death of a Partner :- Adjustment of Capital accounts ,Preparation of loan account of the retiring partner, Preparation of deceased capital account and his executor's account	All the deleted topics added	
3	Unit 3:- Accounting for Companies	Redemption of Debentures deleted	No change , still deleted	
4.	Unit 4:- Analysis of Financial Statement	No change	<ul style="list-style-type: none"> Comparative and Common Size Statement deleted Ratios :- Debt to Capital Employed Ratio & Net Assets Turnover Ratio Added 	
5	Unit 5 :- Cash Flow Statement	No change	No Change	
Percentage of Rationalisation		Approx 12% - 15% deleted	17.5% deleted	

SUBJECT –BUSINESS STUDIES

S.No.	Units	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1	Unit 1:- Nature and Significance of Management	No Change	No Change	No change
2	Unit 2:- Principles of Management	No Change	No Change	
3	Unit 3:- Business Environment	Following topics deleted <ul style="list-style-type: none"> • Demonetization – concept • Impact of Govt policy changes on business with special reference to liberalization , privatization and globalization in India 	ADDED Demonetization – concept Deleted Impact of Govt policy changes on business with special reference to liberalization , privatization and globalization in India	
4	Unit 4:- Planning	Types of plans deleted	Added	
5	Unit 5:- Organising	Formal and informal organisation concept deleted	Added	
6	Unit 6:- Staffing	Staffing as part of human resource management deleted	Added	
7	Unit 7:- Directing	Following topics deleted <ul style="list-style-type: none"> • Barriers to effective communication 	Added	

		<ul style="list-style-type: none"> How to overcome barriers 		
8	Unit 8:- Controlling	Relationship of planning and controlling deleted	Added	
9	Unit 9:- Financial Management	No Change	No Change	
10	Unit 10:- Financial Markets	No Change	No Change	
11	Unit 11:- Marketing Management	Physical Distribution – Components and channels of distribution deleted	Added	
12	Unit 12:- Consumer Protection	Following topics deleted <ul style="list-style-type: none"> Consumer Awareness - role of consumer organisations and NGOs 	Added	
Percentage of Rationalisation		Approx 10%-12% deleted	Approx 10%-12% added back	

SUBJECT – ECONOMICS

S.No.	Unit/ Chapter	Rationalised portion Deletion/ Addition (2021-22)	Rationalised portion Deletion/ Deletion (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1.	I.E.D Ch 4- Human Capital Formation	Deleted Education Sector	Addition- Education Sector	
2.	I.E.D Ch-6 Rural Development	Deleted Organic Farming	Addition Organic Farming	
3.	Macro Economics Ch 6- Banking	Deleted Central Bank function of-controller of credit and money supply	Addition - Central Bank function - controller of credit and money supply	
4.	Macro Economics Ch-12 Foreign Exchange Rate	Deleted Determination of foreign exchange rate.	Addition - Determination of foreign exchange rate.	
Percentage of Rationalisation		Approx 10% (as Chapter wise weightage is not mentioned)	Approx. 10% (as Chapter wise weightage is not mentioned)	

SUBJECT –ENTREPRENEURSHIP

S.No.	Chapters	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1	Chapter 1:- Entrepreneurial Opportunity	No Change	No Change	ADDITION 2 projects to be done in place of one project (as in 2021-22)
2	Chapter 2:- Enterprise Planning	No Change	No Change	
3	Chapter 3:- Enterprise Marketing	Following topics deleted <ul style="list-style-type: none"> • Negotiation • Customer Relationship • Vendor Management 	No Change , still deleted	
4	Chapter 4:- Enterprise growth strategies	Following topic deleted <ul style="list-style-type: none"> • Reasons for failure of Mergers and acquisitions 	No Change , still deleted	
5	Chapter 5:- Business Arithmetic	No Change	No Change	
6	Chapter 6:- Resources Mobilization	Following topic deleted <ul style="list-style-type: none"> • SEBI • Secondary market and importance 	No Change , still deleted	
Percentage of Rationalisation		30%	30%	

SUBJECT – SOCIOLOGY

S.No.	Unit/ Chapter	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1.	Book-1-Indian Society Ch 4- Market as Social Institution	Deleted	Deleted	No change
2.	Book 2- Social Change & Development in Indian Society Ch 3- The story of Indian Democracy	Deleted	Deleted	
3.	Book 2- Social Change & Development in Indian Society Ch 6- Globalisation and Social Change	Deleted	Deleted	
4.	Book 2- Social Change & Development in Indian Society Ch 7- Mass Media and Communication	Deleted	Deleted	
Percentage of Rationalisation		30%	30%	No change

SUBJECT – POLITICAL SCIENCE

S.No.	Unit/ Chapter	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1.	<u>Book 1- World Politics-</u> Cold War Era and NAM	Added	Deleted	No change
2.	US Hegemony	Deleted	Deleted	
3.	Security in Contemporary World	Deleted	Added	
4.	Environment and Natural Resources	Deleted	Added	
5.	<u>Book 2- Indian Politics since Independence</u> Popular Movements	Deleted	Deleted	
6.	Regional Aspirations	Deleted	Added	
Percentage of Rationalisation		30%	15%	No change

SUBJECT – LEGAL STUDIES

S.No.	Unit/ Chapter	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1.	Unit 2- Ch.5- Administrative Law	Deleted	Deleted	2 case laws deleted
2.	Unit 4. Human Rights in India	<u>Deleted-</u> History and International Context	<u>Deleted-</u> History and International Context	
2.	Unit 5- Legal Profession	<u>Deleted-</u> <ul style="list-style-type: none"> History of Legal Profession in India Classification Of Lawyers in British India Legal Profession in Other Jurisdicstions 	<u>Deleted-</u> <ul style="list-style-type: none"> History of Legal Profession in India Classification Of Lawyers in British India Legal Profession in Other Jurisdicstions 	
3.	Unit 6- Legal Services	<u>Deleted-</u> <ul style="list-style-type: none"> History of Legal Services Hierarchy and Funding of Legal Aid Services 	<u>Deleted-</u> <ul style="list-style-type: none"> History of Legal Services Hierarchy and Funding of Legal Aid Services 	
Percentage of Rationalisation		30%	30%	

SUBJECT – GEOGRAPHY (029)

S.No.	Unit/ Chapter	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1	BOOK 1 (Fundamentals of Human Geography) Ch. 3 Population Composition	Deleted	Deleted	Ch. 4 Use of computer in Data processing (Deleted) Ch 5 Field Survey (Deleted) Ch. 6 Spatial Information Technology (was optional and now it is compulsory)
2	Ch. 9 International Trade	Deleted	Added	
3	Ch. 10 Human settlement	Deleted	Deleted	
4	Book 2 India people and Economy Ch. 2 Migration	Added	Deleted	
5	Ch. 3 Human Development	Deleted	Deleted	
6	Ch 5 Land Resource and Agriculture	Deleted	Added	
7	Ch. 8 Manufacturing	Deleted	Deleted	
8	Ch.11 International Trade	Deleted	Added	
Percentage of Rationalisation		7/22 deleted (31.81%)	5/22 Deleted (22.7%)	

SUBJECT – HISTORY

S.No.	Unit/ Chapter	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1	Bricks,Beads,Bones	No Change	No Change	No change
2	Kings,Farmers, & Towns	No Change	No Change	
3	Kinship,Caste & Class	No Change	No Change	
4	Thinkers,Believers & Buildings	No Change	No change	
5	Through the eyes of the traveller	Deleted	Added	
6	Bhakti-Sufi Traditions	No Change	No Change	
7	An Imperial Capital-Vijaynagar	No Change	No Change	
8	Peasants Zamindars & the State	Deleted	Added	
9	Kings & Chronicles	Added	Deleted	
10	Colonialism and the countryside	(HALF)pg-275-287 Deleted	Added completely	
11	Rebels & the Raj	No Change	No Change	
12	Colonial Cities	Deleted	Deleted	
13	Mahatma Gandhi & the Nationalist Movement	No Change	No Change	
14	Understanding Partition	Deleted	Deleted	
15	Framing the constitution	No Change	No Change	
Percentage of Rationalization		30%	20%	

SUBJECT –PHYSICAL EDUCATION

S.No.	Unit/ Chapter	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalisedportion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1	Chapter 1- Planning in SPorts	Deletion <ul style="list-style-type: none"> • Intramurals • Extramurals • Specific Sports Program 	Addition <ul style="list-style-type: none"> • Chapter Name changed • Staffing, Directing, Controlling Deletion <ul style="list-style-type: none"> • Combination Tournament 	Addition <ul style="list-style-type: none"> • SAI khelo India Fitness Test • Brockport Fitness Test Deletion <ul style="list-style-type: none"> • Fitness Test (AAPHERD) • Barrow three items fitness Test
2	Chapter-2 Sports and Nutrition	No Deletion	Deletion <ul style="list-style-type: none"> • Eating for Weight Control • Pitfalls of dieting <ul style="list-style-type: none"> • Food myths • Food Intolerance 	
3	Chapter-3 Yoga and Lifestyle	Deletion <ul style="list-style-type: none"> • Back Pain 	Deletion <ul style="list-style-type: none"> • Importance of Asanas <ul style="list-style-type: none"> • Back Pain 	
4	Chapter 4 Physical Education and Sports for CWSN	Deletion <ul style="list-style-type: none"> • Advantages of physical activities for CWSN 	Addition <ul style="list-style-type: none"> • Organizing and promoting Disability Sports • Advantages of physical activities for CWSN Deletion <ul style="list-style-type: none"> • Types of Disability and Disorders 	
5	Chapter-5 Children and	Deletion	Addition	

	women in sports	<ul style="list-style-type: none"> • Special consideration(Menarch and Mentrual Dysfunction) • Female Athlete Triad 	<ul style="list-style-type: none"> • Special consideration(Menarch and Mentrual Dysfunction) • Female Athlete Triad Deletion <ul style="list-style-type: none"> • Sports participation of women in India • Motor development and its factors • Exercise guidelines at different stages of growth 	
6	Chapter-6 Test and Measurement	Deletion <ul style="list-style-type: none"> • Barrow three items Test 	Addition <ul style="list-style-type: none"> • SAI khelo India fitness test in school • Computing BMR Deletion <ul style="list-style-type: none"> • Motor Fitness test • Cardiovascular fitness Test • Computation of fitness Index 	
7	Chapter-7 Physiology and Injuries in sports	Deletion <ul style="list-style-type: none"> • Physiological changes due to Aging 	Deletion <ul style="list-style-type: none"> • First Aid 	
8	Chapter-8 Biomechanics and Sports	Deletion <ul style="list-style-type: none"> • Friction and Sports 	Addition <ul style="list-style-type: none"> • Equilibrium • Friction and sports • Projectile in sports Deletion	

			<ul style="list-style-type: none"> • Meaning and Importance of Biomechanics in sports • Types of Movement 	
9	Chapter-9 Psychology and Sports	Deletion <ul style="list-style-type: none"> • Exercise Adherence 	Addition <ul style="list-style-type: none"> • Psychological attribute in sports Deletion <ul style="list-style-type: none"> • Personality Dimensions • Motivation • Personality types 	
10	Chapter-10 Sports Training	Deletion <ul style="list-style-type: none"> • Circuit Training 	Addition <ul style="list-style-type: none"> • Concept of talent identification and talent development in sports • Introduction to sports training cycles 	
Percentage of Rationalisation		30% Deleted	20% Changed	

Note: Chapter 2 and Chapter 5 have been interchanged

SUBJECT –PSYCHOLOGY

S.No.	Unit/ Chapter	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalisedportion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1.	Ch-5	Deleted portion Psychodynamic therapy Biomedical therapy	Deleted portion Psychodynamic therapy Biomedical therapy	MID TERM EXAMINATION 1.Case Profile 2.Two Psychological tests
2.	Ch-6	Deleted portion Social Cognition	Deleted portion Social Cognition	
3.	Ch-7	Deleted portion Conformity, compliance, cooperation Social Identity and conflict resolution	Deleted portion Conformity, compliance, cooperation Social Identity and conflict resolution	
4.	Ch-8	Deleted	Deleted	
5.	Ch-9	Deleted	Deleted	
Percentage of Rationalisation		30%	30%	

SUBJECT – FINE ARTS (PAINTING-049)

S.No.	Unit/ Chapter	Rationalised portion (Addition/ Deletion) (2021-22)	Rationalised portion (Addition/ Deletion) (2022-23)	Rationalisation in Practicals/ IA (2022-23)
1.	Unit:1 Rajasthani School of miniature painting	<ul style="list-style-type: none"> • Raja Anirudh Singh Hara - Deleted 	<ul style="list-style-type: none"> • Raja Anirudh Singh Hara- Deleted 	No change
2.	Unit:2 The Mughal&Deccan school of miniature painting	<ul style="list-style-type: none"> • Birth of Salim • Ragini Pathamsika - Deleted 	<ul style="list-style-type: none"> • Birth of Salim • Ragini Pathamsika - Deleted 	
3.	Unit:3 The Bengal school of Art	<ul style="list-style-type: none"> • Raslila - Deleted 	<ul style="list-style-type: none"> • Raslila - Deleted 	
	The Modern trends of Art	<ul style="list-style-type: none"> • Vulture • Whirlpool • Chaturmukhi - Deleted 	<ul style="list-style-type: none"> • Vulture • Whirlpool • Chaturmukhi - Deleted 	
Percentage of Rationalisation		20%	20%	