

Doon School Srinagar

[HMT, Opposite Hokarsar, National Highway 1A, Srinagar, J&K, India] Ph: +91 9103155601, 9103155603, Email: info@doonsrinagar.com, www.doonsrinagar.com Affiliated to CBSE New Delhi, Affiliation No. 730082

SYLLABUS BREAKUP – 2025/26

[Grade: X]

ENGLISH

MARCH		
CHAPTER/TOPIC		TEACHINGPERIODS
		23
1 ST WEEK	A Letter to God A Triumph of Surgery	
2 ND WEEK	Dust of Snow Fire and Ice	
3 RD WEEK	Nelson Mandela –Long Walk to Freedom Formal Letter Writing (Letter to the Editor)	
4 TH WEEK	Tenses	

APRIL

CHAPTER/TO	OPIC	TEACHING PERIODS
1ST WEEK	Two Stories About Flying	27
1 ST WEEK	Part1 Part2	
2 ND WEEK	The Thief's Story Subject-Verb Agreement	
3 RD WEEK	A Tiger in the Zoo How to Tell Wild Animals	
4 TH WEEK	Revision	
5 TH WEEK	Pre Mid Examination	

MAY

CHAPTER/TOPIC		TEACHING PERIODS
		26
1 ST WEEK	From the Diary of Anne Frank	
IS WEEK	The Ball Poem	
2 ND Week The Midnight Visitor		
2 rd week	Amanda	
3 RD Week	Glimpes of India Part 1, 2	
	Glimpes of India Part 3	
4 TH WEEK	Analytical Paragraph (Map/Chart/Graph/Cues)	

JUNE

JUNE		
CHAPTER/TOPIC		TEACHING PERIODS
CHAFTEN/IC		22
	A Question of Trust	
1 st Week	Modals	
	Mijbil, the Otter	
2 ND WEEK	The Trees	
ard where	Madam Rides the Bus	
3 RD WEEK	Fog	
4 TH WEEK	Revision	
5 th WEEK	MID-TERM EXAMINATION (25 JUNE-5JULY)	

JULY

CHAPTER/TOPIC		TEACHING PERIODS 27
1 ST WEEK	MID-TERM EXAMINATION	27
2 ND WEEK	The Sermon at Benaras	
	The Tale of Custard, the Dragon	
3 RD WEEK	Reported Speech	
4 TH WEEK	Reported Speech	
5 TH WEEK	(Summer Break)	

AUGUST

CHAPTER/TOPIC		TEACHING PERIODS
		24
1 ST WEEK	Footprints Without Feet	
1 WEEK	Determiners	
2 ND WEEK	The Proposal	
3 RD WEEK	The Making of a Scientist	
4 TH WEEK	Letter of Order/Complaint	

SEPTEMBER

CHAPTER/TOPIC		TEACHING PERIODS
		24
1 ST WEEK	The Making of a Scientist	
2 ND WEEK	For Anne Gregory	
3 RD WEEK	Revision	
4 TH WEEK	(22 nd Sept -27th Sept POST MID EXAMINATION)	

OCTOBER

CHAPTER/TOPIC		TEACHING PERIODS
		23
1 ST WEEK	The Necklace	
2 ND WEEK	Bholi	
3 RD WEEK	The Book that Saved the Earth	

4 TH WEEK	Discursive passage & Case-based factual passage
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NOVEMBER

CHAPTER/TOPIC		TEACHING PERIODS
		23
1 ST WEEK	Integrated Grammar	
2 ND WEEK	Revision	
3 rd WEEK	FINAL TERM EXAMINATION(24th NOV-6th DECEMBER	
4 th WEEK	FINAL TERM EXAMINATION(24th NOV-6th DECEMBER	
5 th WEEK		



ماداپريل	

عملی کام:املاء	مطلوبه دروس
اسباق	
سوانح اوراد بې خدمات (نظیرا کبرآبادی)	پہلا ہفتہ
نظم: نیکی اور بدی(د ورپاس: ڈائیری ککھیے)	دوسراہفتہ
تعارف: غزل(غزل: ہستیا پنی حباب کی سی ہے) سوائح اوراد بی	تيسرابهفته
خدمات(میر تقی میر)	
پری <u>ب</u> د ٹرم امتخان	چو تھا ہفتہ

مادمتى

عملی کام: بلندخوانی	مطلوبه دروس
اسباق	
سبق: زبانوں کاگھر ہند دستان سوانح اور ادبی خدمات (سید احتشام)	پېرلا ہفتہ
سبق: خداکے نام خط	دوسراہفتہ
متضادالفاظ۔واحد جمع(دور پاس:کاٹھ کے بونے)	تيسرابهفته
قواعد: خطوط نگاری	چو تھا ہفتہ
سبق: ڈاکٹر بھیم رادامبیڈ کر قواعد: فعل ماضی، فعل حال، فعل مستقبل	پانچوا <i>ل ہفتہ</i>

	ماہ جو ن
مملی کام: مشاعرہ	مطلوبه دروس
سباق	1
سبق : آد می کی کہانی سواخ اوراد بی خدمات (محمد م جیب)	يبهلا مفته
فزل: کوئیامید بر نہیں آتی	دوسرا ہفتہ
مواخحاوراد بې خدمات(مر زاغالب)	
واعد: رموزاو قاف	تيسرا ہفتہ
زطرم امتحان	چو تھا ہفتہ 🕴

ماہ جو لائی	<u>ئ</u>
مطلوبہ دروس	عملی کام: تحریری مقابلیہ
	اسباق
پېلا <i>ہفت</i> ہ	مِدِثر م امتحان
د وسرا ہفتہ	سبق:انٹرنیٹ

	ماه ستمبر
عملی کام: مشکل الفاظ کی مشق	مطلوبه دروس
اسباق	
نظم: اے شریف انسانو سوائح اور ادبی خدمات (ساحر آمد هیانوی)	پېلا ہفتہ
تعارف: دُراماسوانح اوراد بې خدمات (حبيب تنوير) (دور پاس: نالنده)	د وسراہفتہ
سبق : کار توس	تيسرابهفته
پوسٹ فرٹر مامتخان	چو تھا ہفتہ

مطلوبه در وس عملی کام: اسباق کی پیتکش مطلوبه در وس اسباق پہلاہفتہ نظم: قدم بڑھاود وستو سواخ اور ادبی خدمات (بشر نواز) دوسراہفتہ (دور پاس: بڑے لوگوں کی دلچ سپ با تیں، قرت العین حیدر میر ی پیار ی چڑیوا بھی اور گاو) تیسر اہفتہ قواعد: متر ادفات، محاوار ات، کہاو تیں

ماداكتوبر

(دور پاس:دل نادان تخصے)

چوتھاہفتہ

ماەنومبر

	مطلوبه دروس
اسباق	
اعاده	پېرلابمفته
اعاده	د وسر اہفتہ
سالاندامتحان	تيسرا هفته
سالاندامتحان	چوتھاہفتہ



DOON SCHOOL SRINAGAR

HMT, OPP. HOKARSAR NATIONAL HIGHWAY, 1A, SRINAGAR, JAMMU AND KASHMIR 190012

SYLLABUSBREAKUP-2025/26 {Grade-X} HINDI MARCH **CHAPTER/TOPIC TEACHINGPERIODS** साखी (कबीर दास) 1ST WEEK बड़े भाई साहब 2ND WEEK अपठित गद्यांश, पदबंध 3RD WEEK 4TH WEEK Activity (□□□□□□□□□ पढ़ने की प्रतियोगिता)

APRIL

CHAPTER/TOPIC		
		TEACHINGPERIODS
0.000		
1 st WEEK	पद (००००), ०००० ००००	
2 ND WEEK	_ж मनुष्यता, मुहावरे	
3 RD WEEK		
4 TH WEEK		
5 th WEEK		

MAY

	TEACHINGPERIODS
CHAPTER/TOPIC	

0.00000		
1 ST WEEK	पर्वत प्रदेश में पावस	
2 ND WEEK		
3 RD WEEK	समास	
4 TH WEEK	त 🗆 🗆 रा वामीरो कथा	

JUNE

CHAPTER/TO	OPIC	
		TEACHINGPERIODS
1 ST WEEK	कर चले हम फिदा, 🗆 🗆 🗆 🗠 लेखन	
2 ND WEEK	डायरी का एक पन्ना, 💷 💷 💷 💷 💷	
3 RD WEEK	Revision	
4 TH WEEK	Mid Term Examination	
5 th WEEK		

JULY

CHAPTER/TOPIC		
0.0000000		TEACHINGPERIODS
		<u>TEACHINOPENIODS</u>
1 ST WEEK	Mid Term Examination	
2 ND WEEK	हरिहर काका	
3 RD WEEK	विज्ञापन लेखन, आत्मत्राण	

4^{TH}	WEEK
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AUGUST

CHAPTER/TO	CHAPTER/TOPIC		
1 ST WEEK	तीसरी कसम के शिल्पकार शैलेंद्र		
2 ND WEEK	आप कहां दूसरों के दुख से दुखी होने वाले		
3 RD WEEK	_{3RD WEEK} अपठित गद्यांश		
4 TH WEEK	लघु कथा लेखन		
5 TH WEEK	Activity (

SEPTEMBER

CHAPTER/TOPIC		
0.00000		TEACHINGPERIODS
]	
1 ST WEEK	कारतूस	
2 ND WEEK	ईमेल लेखन	
3 RD WEEK	Revision	
4 TH WEEK	Post Mid Examination	

OCTOBER		
CHAPTER/TOPIC	TEACHINGPERIODS	
	TEACHINOFERIODS	

1 ST WEEK	सपनों के से दिन	
2 ND WEEK	पतझड़ में टूटी पत्तियां	
3 RD WEEK	रचना के आधार पर वाक्य रूपांतरण	
4 TH WEEK	Activity (□□□□ -लेखन की प्रतियोगिता)	

NOVEMBER

CHAPTER/TOPIC		TEACHINCDEDIODS
0.000000		TEACHINGPERIODS
1 ST WEEK	टोपी शुक्ला, ००००० ०००००००	
2 ND WEEK	Revision	
3 RD WEEK	Revision	
4 TH WEEK	Pre Board	

DECEMBER

CHAPTER/TOPIC		TEACHINGPERIODS
1 ST WEEK		
2 ND WEEK		
3 RD WEEK		
4 TH WEEK		



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SYLLABUS BREAKUP - 2025/26

[Grade: X]

MATHEMATICS

MARCH

CHAPTER/ TOPIC chapter 1		TEACHINGPERIODS
		20
1 ST WEEK	Real numbers: Introduction to number system, prime & composite numbers, Fundamental theorem of Arithmetic, Prime factorisation, HCF & LCM (related exercise), $HCF(a, b)xLCM(a, b) = product of a \& b$.	
2 ND WEEK	Rational & Irrational numbers, Proofs of $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$ related exercise (1.2).	
3 RD WEEK	Chapter 2: Polynomials, Types of polynomials, degree of a polynomials, zeros of a polynomial, Geometrical meaning of zero of a polynomial, Relationship between zeros of a polynomial & their coefficients.	
4 TH WEEK	Chapter 3: Pair of Linear equations in two variables(Introduction), solution of Linear equations, Graphical method.	

APRIL

CHAPTER/TOPIC		TEACHINGPERIODS
		10
1 ST WEEK	Types of equations (Consistency & inconsistency), Algebraic conditions for number of solutions, (Related exercise)	
2 ND WEEK	Solution of a pair of linear equations in two variables by substitution, by elimination Simple situational problems.	
3 RD WEEK	REVISION	
4 TH WEEK	PRE-MID EXAMINATION	

MAY

CHAPTER/TOPIC		TEACHING PERIODS
		22
1 ST WEEK	EK Chapter 4 : Quadratic Equations(introduction), Standard form of a quadratic equations, solutions of a quadratic equations (only real roots) by factorisation method, by using quadratic formula.	
2 ND WEEK	Relationship between discriminant & nature of roots, situational problems based on quadratic equations related to day to day activities to be incorporated.	
3 RD WEEK	Chapter 5: Triangles(Introduction), Basic proportionality Theorem & it's converse (related exercise)	
4 TH WEEK	similar Triangles, Various Criteria of similarity of triangles (AAA, SSS, SAS)	
5 TH WEEK	Chapter 6:Introduction to Trigonometry, Trigonometric ratios of angled triangle, Values of Trigonometric ratios between 0° to 9	• •

JUNE		
CHAPTER/TOPIC		TEACHING PERIODS
		10
1 ST WEEK	Chapter7: Applications of Trigonometry (Introduction)	
2 ND WEEK	Exercise based on Application of Trigonometry.	
3 RD WEEK	REVISION	
4 TH WEEK	MID-TERM EXAMINATION	

JULY

CHAPTER/TOPIC		TEACHING PERIODS
		10
1 ST WEEK	ST WEEK MID-TERM EXAMINATION	
2 ND WEEK	Chapter 8: Circles (introduction), Tangent to a circle, Point of contact (related exercise), Lengths of tangents drawn from an external point to a circle are equal.	
3 RD WEEK	The tangent at any point of a circle is perpendicular to the radius through the point of contact (related exercise)	
4 TH WEEK	Chapter 9: Areas related to Circles, Area of sectors and segments of a circle.	
5 th WEEK	WEEK SUMMER BREAKS	

AUGUST

CHAPTER/TOPIC		TEACHING PERIODS
		18
1 ST WEEK Chapter 10: Surface area and volumes, volumes of		
I WEEK	combination of cubes, cuboids.	
2 ND WEEK	Surface area and volumes, volumes of combination of any two spheres, hemispheres and right circular	
	cylinders / cones.	
3 RD WEEK	Exercise bases on Suface area & volumes.	
4 TH WEEK	Chapter 11: Arithmetic progression, motivation for studying AP, General form of an AP(related	
4 ^{···} WEEK	exercise 1)	

SEPTEMBER

CHAPTER/TOPIC		TEACHING PERIODS
		10
1 ST WEEK	Derivation of the nth term & sum of the first n terms of an A.P.	
2 ND WEEK	Application in solving daily life problems.(related exercise)	
3 RD WEEK	REVISION	
4 TH WEEK	POST-MID EXAMINATION	

OCTOBER

CHAPTER/TOPIC		TEACHING PERIODS
CHAFTEN IO		18 + 4
1 ST WEEK	Chapter 12: Coordinate Geometry: Distance formula (related exercise	2)
2 ND WEEK	Section formula (internal division only) (related exercise).	
3 RD WEEK	Chapter 13: Statistics, Mean, median (related exercise)	
4 TH WEEK	Mode of grouped data (related exercise).	

NOVEMBER

CHAPTER/TOPIC		
1ST WEEKChapter 14: Probability, classical definition of probability, simple pr probability of an event.	Chapter 14: Probability, classical definition of probability, simple problems based on finding the probability of an event.	
2 ND WEEK REVISION		

3 RD WEEK	FINAL TERM EXAMINATION
4 TH WEEK	FINAL TERM EXAMINATION



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SYLLABUS BREAKUP - 2025/26

[Grade: X]

PHYSICS

MARCH

CHAPTER/TOP	IC	TEACHINGPERIODS
1 ST WEEK	Reflection of light by curved surfaces; centre of curvature, principal axis, principal focus, focal length	
2 ND WEEK	Images formed by spherical mirrors, mirror formula.	
3 RD WEEK	Numericals on mirror formula.	
4 TH WEEK	Magnification, numericals	

APRIL

CHAPTER/TOPIC		TEACHINGPERIODS
1 ST WEEK	Refraction; Laws of refraction, refractive index.	
2 ND WEEK	Numericals and competency based questions	
3 RD WEEK	REVISION	
4 TH WEEK	PRE-MID EXAMINATION	

MAY

CHAPTER/TOPIC		TEACHING PERIODS
1 ST WEEK	Refraction of light by spherical lens;	
2 ND WEEK	Image formed by spherical lenses.	
3 RD WEEK	Lens formula, numericals	
4 TH WEEK	Numericals and competency based questions	
5 TH WEEK	Group discussion and doubt clearence	

JUNE

CHAPTER/TOPIC		TEACHING PERIODS
1 ST WEEK	Magnification. Power of a lens.	
2 ND WEEK	Combination of lenses.	
3 RD WEEK	REVISION	
4 TH WEEK	MID-TERM EXAMINATION	

JULY

CHAPTER/TOPIC TEACHING PERIOD		TEACHING PERIODS
1 ST WEEK	MID-TERM EXAMINATION	
	Functioning of a lens in human eye, defects of vision and their correct	tions, applications of
2 ND WEEK		
	spherical mirrors and lenses.	
3 RD WEEK	Refraction of light through a prism, dispersion of light.	
	scattering of light, applications in dailylife	
4 TH WEEK		
	(excluding colour of the sun at sunrise and sunset).	
5 th WEEK	SUMMER BREAKS	

AUGUST

CHAPTER/TOP	PIC	TEACHING PERIODS
1 ST WEEK	Effects of Current. Electric current, potential difference and electric current	
2 ND WEEK	Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends.	
3 RD WEEK	Series combination of resistors, parallel combination of resistors and its applications in daily life.	
4 TH WEEK	Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P,	V, I and R.

SEPTEMBER

CHAPTER/TOPIC		TEACHING PERIODS
1 ST WEEK	Numericals and competency based questions	
2 ND WEEK	Group Discussion	
3 RD WEEK	REVISION	
4 TH WEEK	POST-MID EXAMINATION	

OCTOBER

CHAPTER/TOPIC TEACHING PERIODS		TEACHING PERIODS
1 ST WEEK	WEEK Magnetic effects of current: Magnetic field, field lines, field due to a current carrying conductor,	
2 ND WEEK	Field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule	
3 RD WEEK	Direct current. Alternating current: frequency of AC.	
4 TH WEEK	Advantage of AC over DC.Domestic electric circuits.	

NOVEMBER

CHAPTER/TOPIC	
1 ST WEEK Group discussion and numericals.	
2 ND WEEK REVISION	

3 RD WEEK	FINAL TERM EXAMINATION
4 TH WEEK	FINAL TERM EXAMINATION

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CLASS-X BIOLOGY

/		
MARCH		
CHAPTER/TOP	IC Chapter 1	TEACHINGPERIODS
	TT '/ T XX7 11 CT''	20
1 ST WEEK Unit I: World of Living Life processes: Living Being, Basic concept of nutrition, respiration, t and excret		rition respiration t and averation in plants and animals
2 ND WEEK	Respiration in Plants	Thion, respiration, i and excretion in plants and annuals
3 RD WEEK	Transportation in Plants	
4 TH WEEK	Excretion in Plants	
APRIL		
CHAPTER/TOP	IC	TEACHINGPERIODS
		08
1 ST WEEK	Respiration in Animals	N0
2 nd WEEK	Transportation in Animals	
3 RD WEEK	REVISION	
4 th WEEK	PRE-MID EXAMINATION	
MAY		
CHAPTER/TOP	IC	TEACHING PERIODS
		22
1 ST WEEK	Excretion in Animals	
2 ND WEEK	Excretion in Animals	
3 RD WEEK	Unit II:Control and Co-ordination in Plants and A	nimals
4 th WEEK	Tropic movements in plants; Introduction of plant	hormones; and
5 th WEEK	co-ordination in animals	
JUNE		
CHAPTER/TOP	IC	TEACHING PERIODS
1 ST WEEK	Nervous system;	10
2 ND WEEK	Voluntary, involuntary and reflex action	
3 RD WEEK	Chemical co-ordination	
4 TH WEEK	MID-TERM EXAMINATION	
JULY		
		TEACHING PERIODS
CHAPTER/TOP	IC	10
1 ST WEEK	MID-TERM EXAMINATION	I
2 ND WEEK	Animal hormones.	
3 RD WEEK	Unit III:Reproduction: How Do Organisms Repro	duce?
4 TH WEEK	Asexual Reproduction	
5 th WEEK	SUMMER BREAKS	
AUGUST		
CHAPTER/TOP		TEACHING PERIODS
		18
1 ST WEEK	sexual Reproduction	
2 ND WEEK	reproductive health need and methods of family pl	lanning
3 RD WEEK	Safe sex vs HIV/AIDS	
4 TH WEEK	Child bearing and women's health.	
SEDTEM		

SEPTEMBER

CHAP	TER/TOPIC	TEACHING PERIODS
		08
WEEN	Unit IV: Heredity and Evolution:	
2 ND WEEK	Heredity; Mendel's contribution-	
3 RD	REVISION	
WEEK 4 TH	POST-MID EXAMINATION	
WEEK		
-	OCTOBER	
СНАРТ	'ER/TOPIC	TEACHING PERIODS 13
1 st WEEK	Laws for inheritance of traits:	
2 ND	Sex determination:	
WEEK	Unit V: Our environment: Eco-system,	
⊿TH	Environmental problems, Ozone depletion, waste production and their solutions.	
	NOVEMBER	
	CHAPTER/TOPIC	TEACHING PERIODS
		04
	1 ST WEEK Biodegradable and non-biodegradable substances	
	2 ND REVISION	
	Z REVISION WEEK	
	3 RD FINAL TERM EXAMINATION	
	WEEK	
	4 TH FINAL TERM EXAMINATION	

4TH **FINAL TERM EXAMINATION** WEEK



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SYLLABUS BREAKUP – 2024/25

[Grade: X]

Chemistry

March		
UNIT1: Chemical reactions and equations.		TEACHING PERIODS
		20
1 ST WEEK	A brief introduction to elements and their symbols. Definition of chen a chemical reaction. Significance of arrows, + sign and physical state in	
2 ND WEEK	Balancing of a chemical reaction, methods of balancing of a reaction. Practice problems on balancing chemical reactions.	
3 RD WEEK	Types of chemical reactions combination, combustion, redox, single displacement rxn, double displacement rxn.	
4 TH WEEK	Precipitation rxns, Exothermic and endothermic reactions, importance	of reactions in everyday life.

April (pre-mid term examination)

UNIT 2: Acids bases and salts:		TEACHING PERIODS
		21
1 ST WEEK	WEEK Introduction to acids and bases. Classification of acids and bases.	
2 ND WEEK	WEEK Naturally occurring acids. Difference between acids and bases. General properties of acids and bases, examples and uses.	
3 RD WEEK	Neutralization, PH Concept and PH scale. Acids types on the basis of PH scale.	
4 TH WEEK	TH WEEK Preparation, properties and uses of sodium hydroxide.	

May

UNIT 3: Carbon and it's compounds		TEACHING PERIODS
		12
1 ST WEEK	Preparation, properties and uses of bleaching powder, washing soda.	
2 ND WEEK	preparation, properties and uses of washing soda and P. O. P;	
3 RD WEEK	REVISION	
4 TH WEEK	Pre-MID-TERM EXAMINATION (21-25 April)	
5 th WEEK	MID-TERM EXAMINATION (25 June July)	

UNIT : Carbon and it's compounds:		TEACHING PERIODS
		25
1 ST WEEK	MID-TERM EXAMINATION	
2 ND WEEK	MID-TERM EXAMINATION	
3 RD WEEK	Introduction to carbon, types of bonds, covalent bonding in carbon compounds, versatile nature of carbon, homologous series	
4 TH WEEK	Nomenclature of carbon compounds containing functional groups halogens, alcohol, ketonesAldehydes, alkanes, alkynes, difference between saturated and unsaturated hydrocarbons,	

5TH WEEK Chemical properties of carbon compounds, combustion, oxidation,

SEPTEMBER

		TEACHING PERIODS
		21
1 ST WEEK	Addition and substitution reaction	
2 ND WEEK	Ethanol and Ethanoic acid properties and uses	
3 RD WEEK	Soaps and detergents preparation and properties	
4 TH WEEK	Cleaning action of soaps, micele and micelle formation.	

OCTOBER

Metals and non- metals:		TEACHING PERIODS
		23
1 ST WEEK	YEEK Properties of metals and non-metals, difference between metals and non-metals,	
2 ND WEEK	Reactivity series, Lewis structure, ionic compounds definition	
3 RD WEEK	Formation of ionic compounds with examples, properties of ionic compounds	
4 TH WEEK	Basic metallurgical processes, concentration of ore	

NOVEMBER

		TEACHING PERIODS
		15
1 ST WEEK	Methods of concentration, extraction of metals methods	
2 ND WEEK	Refining of metals methods	
3 RD WEEK	POST-MID EXAMINATION (16 th NOVEMBER-25 th NOVEMBER)	
4 TH WEEK	POST-MID EXAMINATION	

DECEMBER

		TEACHING PERIODS
		05
1 ST WEEK	Corrosion and it's prevention	
2 ND WEEK	Revision and exam orientation	



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SYLLABUS BREAKUP - 2025/ 2026

[Grade: X]

SOCIAL SCIENCE

MARCH

CHAPTER/TOPIC		TEACHINGPERIODS
THE RISE OF NATIONALISM IN EUROPE		30
RESOUECE AI	ND DEVELOPMENT	
POWER SHAR	RING	
	Federic Sourie Imagination On Statue of Liberty	
1 ST WEEK	Overview on Resources	
	• What is Power Sharing?	
	Liberalism and its Various aspects	
2 ND WEEK	Resource on the basic of Origin	
	Moral and Prudential reasons of Power Sharing	
	Greek war of Independence and treaty of Constantinople	
3 RD WEEK	Resource Planning	
	Forms of Power Sharing	
	Soil formation	
4 TH WEEK	Importance of Power Sharing	
	Provisions of Conservatism	

AFNIL			
CHAPTER/TOPIC		TEACHINGPERIODS	
THE RISE OF NATIONALISM IN EUROPE		28	
FOREST AND WILDLIFE			
FEDERALISM			
	Unification of Germany		
1 ST WEEK	Unification of Italy		
	Importance of Resources		
2 ND WEEK	Strange case of Britain		
2 WEEK	Balkan States and nationalist Tension in Balkans		
3 RD WEEK	REVISION		
4 TH WEEK	PRE-MID EXAMINATION		

MAY

CHAPTER/TOPIC		TEACHING PERIODS	
THE RISE OF NATIONALISM IN INDIA		30	
FOREST AND WILDLIFE (CONTINUE)			
POLITICAL PARTIES			
Nationalism and Imperialism			
1 ST WEEK	• Forests, types and their Importance		
Formation of Political parties			
Factors responsible for the rise of Nationalism Across Europe			
Functions of Political Parties			

	Biodiversity and wild life
3 RD WEEK	 Reforms to Improve Political parties Uses and Utility of Forests Notion of Nation States
4 TH WEEK	 Conservation of forests and resources National parties and regional Parties World war I and Balkan States
5 TH WEEK	 Resource development, resource utility Types of Soils Stock and reserve Role of Opposition and list of various regional and National parties.

JUNE

CHAPTER/TOP	PIC	TEACHING PERIODS	
THE RISE OF N	NATIONALISM IN INDIA	25	
WATER RESOURCES			
DEVELOPMENT (ECONOMICS)			
1 ST WEEK	• Factors responsible for the emergence of nationalism In India.		
2 ND WEEK	• Overview on Water resources, uses of water and Important River	Valley Projects.	
3 RD WEEK	3 RD WEEK REVISION		
4 TH WEEK	MID-TERM EXAMINATION		

JULY				
CHAPTER/TOPIC		TEACHING PERIODS		
THE MAKING OF GLOBAL WORLD		20		
WATER RESOURCES (Continue)				
OUTCOMES C	DF DEMOCRACY			
1 ST WEEK	MID-TERM EXAMINATION			
2 ND WEEK	Globalization and its impact			
3 RD WEEK	• Factors responsible for making the global world.			
5 WEEK	Elucidate Various outcomes of democracy			
4 TH WEEK	Map practice on important dams of India.			
4 WEEK	Difference between accountable and legitimate government			
5 th WEEK	SUMMER BREAKS			

AUGUST

CHAPTER/TOPIC		TEACHING PERIODS		
PRINT CULTURE AND THE MODERN WORLD(Continue)		30		
SECTORS OI	F INDIAN ECONMY			
AGRICULTU	RE			
1 ST WEEK	Woodblock printing			
	Marco Polo and Print world			
2 ND WEEK	Agriculture and it's Various types			
	Institutional and Technological reforms			
3 RD WEEK	Indian Economy and its Important Sectors			
5 WEEK	Role of Service Sector			
4 TH WEEK	• Distinguish between tertiary and Service Sector			

SEPTEMBER

CHAPTER/TOPIC	TEACHING PERIODS
PRINT CULTURE AND THE MODERN WORLD(Continue)	20

MONEY AND CREDITS		
1 ST WEEK	Johannes Guttenberg Printing Press	
2 ND WEEK	Money as a medium of Exchange	
	Formal and Informal Sources of Credit	
	• Types of Money	
	Modern forms of Money	
3 RD WEEK	REVISION	
4 TH WEEK	POST-MID EXAMINATION	

OCTOBER

CHAPTER/TOPIC TEACHING			
PRINT CULTURE AND THE MODERN WORLD(Continue) 30			
MINRALS AND ENERGY RESOUCES			
GENDER CASTE AND REFORMS			
1 ST WEEK	Spread of Print Culture		
2 ND WEEK	2 ND WEEK • Mineral and Energy resources with proper explanation and Difference between Metallic and Non- Metallic minerals. Explanation of coal and Various sources of energy		
3 RD WEEK	Gender, caste and reform		
4 TH WEEK	• Social diversity and Division of society on various grounds		

NOVEMBER			
CHAPTER/TOPIC		TEACHING PERIODS	
MANUFACTURING INDUSTRIES		15	
GLOBALIZATION			
LIVELIHOOD A	AND ECOMNY (Only Map Work)		
1 ST WEEK	• Manufacturing industries and how world has become Global vil	llage	
2 ND WEEK	REVISION		
3 RD WEEK	FINAL TERM EXAMINATION		
4 TH WEEK	FINAL TERM EXAMINATION		

CBSE | DEPARTMENT OF SKILL EDUCATION CURRICULUM FOR SESSION 2024-2025

INFORMATION TECHNOLOGY (SUB. CODE – 402)

JOB ROLE: DOMESTIC DATA ENTRY OPERATOR

CLASS – X

COURSE TITLE: DOMESTIC DATA ENTRY OPERATOR

Domestic Data Entry Operator in the IT-ITeS Industry is also known as Data Entry Operator. Individuals are responsible to provide daily work reports and work on daily hour basic. The individual is responsible for electronic entry of data from the client side to the office site or viceversa. Individual tasks vary depending on the size and structure of the organization. This job requires the individual to have a thorough knowledge of various technology trends and processes as well as have updated knowledge about database management systems and IT initiatives. The individual should have fast and accurate typing/data encoding. This job involves working in a personal computer, and appropriate software to enter accurate data regarding different issues like retrieving data from a computer or to a computer

COURSE OUTCOME:

On completion of the course, students should be able to:

- Apply effective oral and written communication skills to interact with people and customers;
- Identify the principal components of a computer system; Demonstrate the basic skills of using computer;
- Demonstrate self-management skills;
- Demonstrate the ability to provide a self-analysis in context of entrepreneurial skills and abilities;
- Demonstrate the knowledge of the importance of green skills in meeting the challenges of sustainable development and environment protection;
- Work safely on the computer.
- Start the computer.
- Open and use the related software.
- Exit from the software.
- Shut down the computer.
- Use the computer for data entry process.
- Collect all necessary information about the query.
- Log any decision about the query on the data entry tracking form.
- Follow Rules and guidelines for data entry.
- Handle queries.
- Undertake data entry with speed and accuracy.
- Identify and control hazards in the workplace that pose a danger or threat to their safety or health, or that of others.

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COURSE OBJECTIVES:

In this course, the students will be introduced to the fundamental concepts of digital documentation, digital spreadsheet, digital presentation, database management and internet security.

The following are the main objectives of this course:

- To familiarize the students with the world of IT and IT enabled services.
- To provide in-depth training in use of data entry, internet and internet tools.
- To develop practical knowledge of digital documentation, spreadsheets and presentation.
- To enable the students to understand database management systems and have updated knowledge about digital record keeping.
- To make the students capable of getting employment in Private Sector, Public Sector, Ministries, Courts, House of Parliament and State Legislative Assemblies.
- To develop the following skills:
 - Data Entry and Keyboarding skills
 - The concept of Digital Documentation
 - The concept of Digital Presentation
 - The concept of Electronic Spreadsheet
 - The concept of Databases
 - Internet Technologies

SALIENT FEATURES:

To be a data entry operator/analyst, one requires a lot of hard work and practical hands-on experience. One should have an intensive knowledge of Office applications, computer operations, and knowledge of clerical, administrative techniques and data analysis. Along with this, as a data entry operator/analyst, you will be expected to have high typing speed, accuracy and efficiency to perform tasks.

As a data entry operator/analyst, one should improve their computer skills, numerical and literacy skills. These skills can help one expand into a new career path in the future.

SCHEME OF UNITS

Total Marks: 100 (Theory-50+Practical-50)

This course is a planned sequence of instructions consisting of units meant for developing employability and vocational competencies of students of Class X opting for skill subject along with other subjects.

The unit-wise distribution of hours and marks for class X is as follows:

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INFORMATION TECHNOLOGY (SUBJECT CODE - 402)

CLASS – X (Session 2024-2025)

	UNITS	for Th	F HOURS beory and actical	MAX. MARKS for Theory and Practical
	Employability Skills			_
4	Unit 1: Communication Skills-II		10	2
	Unit 2: Self-Management Skills-II		10	3
Part	Unit 3: ICT Skills-II		10	1
a	Unit 4: Entrepreneurial Skills-II		15	3
Δ_	Unit 5: Green Skills-II		05	1
	Total		50	10
	SUBJECT SPECIFIC SKILLS	Theory	Practical	Marks
Ш	Unit 1: Digital Documentation (Advanced)	12	18	8
	Unit 2: Electronic Spreadsheet (Advanced)	15	23	10
	Unit 3: Database Management System	18	27	12
Part	Unit 4: Maintain Health, Safety and Secure Working Environment	15	22	10
	Total	60	90	40
	PRACTICAL WORK			
	Practical Examination			
C	Advanced Documentation	5 Marks		20
Ť.	Advanced Spreadsheets	5 Marks		
Part	Databases	10	Marks	
ŭ	Viva Voce	10 Marks		10
_	Total			30
Dr	PROJECT WORK/FIELD VISIT Any Interdisciplinary Real World Case Study to be taken. Summarized data reports of same can be presented in base. Input should be taken using forms and output should be done using reports using base. Documentation of the case study should be presented using writer.			10
Part	PORTFOLIO/ PRACTICAL FILE: (Portfolio should contain printouts of the practical done using Writer, Calc and Base with minimum 5 problems of each)			10
	Total			20
	GRAND TOTAL		200	100

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DETAILED CURRICULUM/ TOPICS:

Part-A: EMPLOYABILITY SKILLS

S. No.	Units	Duration in Hours
1.	Unit 1: Communication Skills-II	10
2.	Unit 2: Self-management Skills-II	10
3.	Unit 3: Information and Communication Technology Skills-II	10
4.	Unit 4: Entrepreneurial Skills-II	15
5.	Unit 5: Green Skills-II	05
	TOTAL	50

Note: The detailed curriculum/ topics to be covered under Part A: Employability Skills can be downloaded from CBSE website.

Part-B – SUBJECT SPECIFIC SKILLS

- Unit 1: Digital Documentation (Advanced)
- Unit 2: Electronic Spreadsheet (Advanced)
- Unit 3: Database Management System
- Unit 4: Web Applications and Security

UNIT 1: DIGITAL DOCUMENTATION (ADVANCED)

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	ApplyStyles in the document	 Styles/ categories in Writer Styles and Formatting window Using Fill Format. Creating and updating new style from selection Load style from template or another document. Creating a new style using drag-and-drop. Applying styles. 	 List style categories in Writer. Select the style from the Styles and Formatting window. Use Fill Format to apply a style to many different areas quickly. Create and update a new style from a selection. Load a style from a template or another document. Create a new style using drag-and drop.
2.	Insert and use images in document	 Options to insert image to document from various sources. Options to modify, resize, crop and delete an image. Creating drawing objects, setting or changing its properties. Resizing and grouping drawing objects. Positioning image in the text. 	 Insert an image to document from various sources. Modify, resize, crop and delete an image. Create drawing objects Set or change the properties of a drawing object Resize and group drawing objects Position the image in the text

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S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
3.	Create and use template	 Templates in Writer. Using predefined templates. Creating a template. Set up a custom template. Using a template Changing to a different template. Updating a Document 	 Create a template. Use predefined templates. Set up a custom default template. Update a document. Change to a different template. Use the Template. Update the document.
4.	Create table of contents	 Table of contents. Hierarchy of headings. Customization of table of contents. Character styles. Maintaining a table of contents. 	 Create a table of contents. Definea hierarchy of headings. Customize a table of contents. Apply character styles. Maintain atable of contents.

UNIT 2: ELECTRONIC SPREADSHEET (ADVANCED)

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Analyse data using scenarios and goal	 Using consolidating data. Creating subtotals. 	Use consolidating dataCreate subtotals
	seek.	 Using "what if" scenarios. Using "what if" tools Using goal seek and solver. 	 Use "what if" scenarios Use "what if" tools Use goal seek and solver
2.	Link spreadsheets data	 Setting up multiple sheets. Creating reference to other sheets by using keyboard and mouse. Creating reference to another document by using keyboard and mouse. 	 Setup multiple sheets by inserting new sheets. Create reference to other sheets by using keyboard and mouse. Create references to other documents by using keyboard and mouse.

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S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
		 Relative and absolute hyperlinks Hyperlinks to the sheet. Linking to external data. Linking to registered data sources. 	 Create, Edit and Remove hyperlinks to the sheet. Link to external data. Link to registered data source.
3.	Share and review a spreadsheet	 Setting up a spreadsheet for sharing. Opening and saving a shared spreadsheet. Recording changes. Add, Edit and Format the comments. Reviewing changes – view, accept or reject changes. Merging and comparing. 	 Set up a spreadsheet for sharing. Open and save a shared spreadsheet. Record changes. Add, Edit and Format the comments. Review changes – view, accept or reject changes. Merge and compare sheets.
4.	Use Macros in spreadsheet	 Using the macro recorder. Creating a simple macro. Using a macro as a function. Passing arguments to amacro. Passing the arguments as values. Macros to work like built-in functions. Accessing cells directly. Sorting the columns using macro. 	 Demonstrate the use of a macro recorder. Create a simple macro. Use a macro Pass arguments to a macro Pass the arguments as values Write the macros that act like built – in functions Access cells directly Sort the columns using macro.

UNIT 3: DATABASE MANAGEMENT SYSTEM

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Appreciate the concept of Database Management System	 Concept and examples of data and information, Concept of database, Advantages of database, Features of database, Concept and examples of Relational database, Concept and examples of field, record, table, database, Concept and examples of Primary key, composite primary key, foreign key, Database management system (DBMS) software 	 Identify the data and information, Identify the field, record, table in the database, Prepare the sample table with some standard fields. Assign the primary key to the field, Identify the primary key, composite primary key, foreign key.

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S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
		Relational Data base management system (RDBMS) software.	
2.	Create and edit tables using wizard and SQL commands	 Introduction to LibreOffice Base Database objects – tables, queries, forms, and reports of the database, Terms in database – table, field, record, Steps to create a table using table wizard Data types in database., Option to set primary key Table Data View dialog box 	 Start the Libre Office Base and observe the parts of mainwindow, Identify the data base objects Create the sample table in any category using wizard, Practice to create different tables from the available list and choosing fields from the available fields. Assign data types of fields, Setprimary key, Edit the table in design view, Enter the data in the fields.
3.	Perform operations on table	 Inserting data in the table, Editing records in the table, Deleting records from the table, Sorting data in the table, Referential integrity, Creating and editing relationships – one to one, one to many, many to many Field properties 	 Demonstrate to: Insert data in the table, Edit records in the table, Delete records from table, Sort data in the table, Create and edit relationships one to one, one to many,many to many, Enter various field properties.
4.	Retrieve data using query	 Database query, Defining query, Query creation using wizard, Creation of query using design view, Editing a query, Applying criteria in query – single field, multiple fields, using wildcard, Performing calculations, Grouping of data, Structured Query Language (SQL). 	 Prepare a query for given criteria, Demonstrate to create query using wizard, and using design view, Edit a query, Demonstrate to apply various criteria in query – single field, multiple fields, using wild card, Performing calculations using query in Base, Demonstrate to group data, Use basic SQL commands,

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S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
5.	Create Forms and Reports using wizard	 Forms in BASE. Creating form using wizard, Steps to create form using Form Wizard, Options to enter or remove data from forms Modifying form, Changing label, background, Searching record using Form, Inserting and deleting record using Form, Concept of Report in Base, Creating Report using wizard, Steps to create a Report using Wizard. 	 Illustrate the various steps to create Form using Form Wizard, Enter or remove data from Forms, Demonstrate to modify Forms, Demonstrate to change label, background, Search record using Form, Insert and delete record using Form View, Illustrate the various steps to create Report using Report Wizard, Demonstrate various examples of Report.

UNIT 4: MANAGING HEALTH AND SAFETY

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Maintain workplace safety	 Basic safety rules to follow at workplace – Fire safety, Falls and slips, Electrical safety, Use of first aid. Case Studies of hazardous situations. 	 Practice to follow basic safety rules at workplace to prevent accidents and protect workers – Fire safety, Falls and slips, Electrical safety, Use of first aid.
2	Prevent Accidents and Emergencies	 Accidents and emergency, Types of Accidents, Handling Accidents Types of Emergencies. 	 Illustrate to handle accidents at workplace, Demonstrate to follow evacuation plan and procedure in case of an emergency.
3.	Protect Health and Safety at work	 Hazards and sources of hazards, General evacuation procedures, Healthy living. 	 Identify hazards and sources of hazards, identify the problems at workplace that could cause accidents, Practice the general evacuation procedures in case of an emergency.

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ORGANISATION OF FIELD VISITS:

In a year, at least 3 field visits/educational tours should be organised for the students to expose them to the activities in the workplace.

Visit a data entry centre and observe the following: Location, Site, Office building, Computer Systems, Tools and Equipment, Printer, Scanner. During the visit, students should obtain the following information from the owner or the supervisor of the Data Centre:

- 1. Data Entry Centre.
- 2. Computer Infrastructure.
- 3. Sitting Posture of data entry operators.
- 4. Assistive technology.
- 5. Man power engaged.
- 6. Total expenditure of Data Entry Centre.
- 7. Total annual income.
- 8. Profit/Loss (Annual).
- 9. Any other information.

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LIST OF EQUIPMENT/ MATERIALS:

The list given below is suggestive and an exhaustive list should be compiled from the feedback given by various by the teachers teaching the subject. Only basic tools, equipment and accessories should be procured by the Institution so that the routine tasks can be performed by the students regularly for practice and acquiring adequate practical experience.

S. No.	ITEM NAME, DESCRIPTION & SPECIFICATION	QUANTITY
Α	HARDWARE	
1.	Computer with latest configuration or minimum Pentium Processor with minimum 2GB RAM, 512 GB HDD, 17" LED Monitor, NIC Card, 3 button Mouse, 105 keys key board and built-in speakers and mic.	15
2.	Laser Printer - Black	01
3.	Inkjet Printers (Colour and Black & White)	01
4.	Scanner	01
5.	Online UPS 5 KVA	01
6.	16 Port Switches	01
7.	Air Conditioner 1.5 tonne	02
8.	Telephone line (For Internet)	01
9.	Fire extinguisher	01
В	SOFTWARE	
1.	Operating System Linux and Windows	
2.	Anti-Virus Latest version	
3.	Productivity Suite, Example – LibreOffice, etc.	
С	FURNITURE	
1.	Class room chairs and desks	25
2.	Computer Tables	15
3.	Straight back revolving & adjustable chairs (Computer Chairs)	15
4.	Printer Tables	02
5.	Trainers Table	01
6.	Trainers Chair	01
7.	Steel cupboards drawer type	02
8.	Cabinet with drawer	01
9.	Steel Almira - big size	01
10.	Steel Almira- small size	01

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TEACHER'S/ TRAINER'S QUALIFICATIONS:

Qualification and other requirements for appointment of teachers/trainers for teaching this subject, on contractual basis should be decided by the State/ UT. The suggestive qualifications and minimum competencies for the teacher should be as follows:

Qualification		Minimum Competencies		Age Limit
Diploma in Computer Science/ Information	•	The candidate should have	•	18-37 years
Technology		a minimum of 1 year of work		(as on Jan. 01
OR		experience in the same job		(year))
Bachelor Degree in Computer Application/		role.		Age relaxation to
Science/ Information Technology (BCA, B.				be provided
Sc. Computer Science/ Information	•	S/He should be able to		as per Govt.
Technology)		communicate in English and		rules
OR		local language.		
Graduate with PGDCA OR				
DOEACC A Level Certificate.	•	S/He should have		
		knowledge of equipment,		
The suggested qualification is the minimum		tools, material, Safety,		
criteria. However higher qualifications will		Health & Hygiene.		
also be acceptable.				

Teachers/Trainers form the backbone of Skill (Vocational) Education being imparted as an integral part of Rashtriya Madhyamik Shiksha *Abhiyan* (RMSA). They are directly involved in teaching of Skill (vocational) subjects and also serve as a link between the industry and the schools for arranging industry visits, On-the-Job Training (OJT) and placement.

These guidelines have been prepared with an aim to help and guide the States in engaging quality Teachers/Trainers in the schools. Various parameters that need to be looked into while engaging the Vocational Teachers/Trainers are mode and procedure of selection of Teachers/ Trainers, Educational Qualifications, Industry Experience and Certification/ Accreditation.

The State may engage Teachers/Trainers in schools approved under the component of scheme of Vocationalisation of Secondary and Higher Secondary Education under RMSA in following ways:

 Directly as per the prescribed qualifications and industry experience suggested by the PSS Central Institute of Vocational Education (PSSCIVE), NCERT or the respective Sector Skill Council (SSC).

OR

(ii) Through accredited Vocational Training Providers accredited under the National Quality Assurance Framework (NQAF*) approved by the National Skill Qualification Committee on 21.07.2016. If the State is engaging Vocational Teachers/Trainers through the Vocational Training Provider (VTP), it should ensure that VTP should have been accredited at NQAF Level 2 or higher.

* The National Quality Assurance Framework (NQAF) provides the benchmarks or quality criteria which the different organizations involved in education and training must meet in order to be accredited by competent bodies to provide government- funded education and training/skills activities. This is applicable to all organizations offering NSQF-compliant qualifications.

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The educational qualifications required for being a Teacher/Trainer for a particular job role are clearly mentioned in the curriculum for the particular NSQF compliant job role. The State should ensure that teachers/ trainers deployed in the schools have relevant technical competencies for the NSQF qualification being delivered. Teachers/Trainers preferably should be certified by the concerned Sector Skill Council for the particular Qualification Pack/Job role which S/he will be teaching. Copies of relevant certificates and/or record of experience of the teacher/trainer in the industry should be kept as record.

To ensure the quality of the Teachers/Trainers, the State should ensure that a standardized procedure for selection of (Vocational) Teachers/Trainers is followed. The selection procedure should consist of the following:

- (i) Written test for the technical/domain specific knowledge related to the sector;
- (ii) Interview for assessing the knowledge, interests and aptitude of trainer through a panel of experts from the field and state representatives; and
- (iii) Practical test/mock test in classroom/workshop/laboratory.

In case of appointment through VTPs, the selection may be done based on the above procedure by a committee having representatives of both the State Government and the VTP.

The State should ensure that the Teachers/ Trainers who are recruited should undergo induction training of 20 days for understanding the scheme, NSQF framework and Vocational Pedagogy before being deployed in the schools.

The State should ensure that the existing trainers undergo in-service training of 5 days every year to make them aware of the relevant and new techniques/approaches in their sector and understand the latest trends and policy reforms in vocational education.

The Head Master/Principal of the school where the scheme is being implemented should facilitate and ensure that the (Vocational) Teachers/Trainers:

- Prepare session plans and deliver sessions which have a clear and relevant purpose and which engage the students;
- Deliver education and training activities to students, based on the curriculum to achieve the learning outcomes;
- Make effective use of learning aids and ICT tools during the classroom sessions;
- Engage students in learning activities, which include a mix of different methodologies, such as project based work, team work, practical and simulation based learning experiences;
- Work with the institution's management to organise skill demonstrations, site visits, on job trainings, and presentations for students in cooperation with industry, enterprises and other workplaces;
- Identify the weaknesses of students and assist them in up-gradation of competency;
- Cater to different learning styles and level of ability of students;
- Assess the learning needs and abilities, when working with students with different abilities
- Identify any additional support the student may need and help to make special arrangements for that support;
- Provide placement assistance

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Assessment and evaluation of (Vocational) Teachers/Trainers is very critical for making them aware of their performance and for suggesting corrective actions. The States/UTs should ensure that the performance of the (Vocational) Teachers/Trainers is appraised annually. Performance based appraisal in relation to certain pre-established criteria and objectives should be done periodically to ensure the quality of the (Vocational) Teachers/Trainers.

Following parameters may be considered during the appraisal process:

- Participation in guidance and counseling activities conducted at Institutional, District and State level;
- · Adoption of innovative teaching and training methods;
- Improvement in result of vocational students of Class X or Class XII;
- Continuous up-gradation of knowledge and skills related to the vocational pedagogy, communication skills and vocational subject;
- Membership of professional society at District, State, Regional, National and International level;
- Development of teaching-learning materials in the subject area;
- Efforts made in developing linkages with the Industry/Establishments;
- Efforts made towards involving the local community in Vocational Education
- Publication of papers in National and International Journals;
- Organisation of activities for promotion of vocational subjects;
- Involvement in placement of students/student support services.

CAREER OPPORTUNITIES:

The job of a data entry operator/ analyst is to work for a wide variety of public and private organisations. A data entry operator/analyst is responsible to input data in a quick and efficient manner, create data storage and should possess knowledge about the methods for recovering useful data when needed, organizing and analyzing data in a clear and effective way, navigating computer and database systems proficiently, editing and preparing reports based on the information they have put into the system. They also help the organisations to keep up with recording and analyzing the abundance of information received on a daily basis.

Some of the top sectors that require a data entry operator/analyst are listed below:

- Banks and Public Sector
- Marketing Companies
- Accounting Companies
- Human Resources
- Corporate Businesses
- MNCs
- Study Centers
- Schools and Universities
- Hospitals or Healthcare Service Providers
- Insurance Firms
- Small-scale Businesses

VERTICAL MOBILITY

- Students can pursue Polytechnic/Diploma/Certificate courses in IT fields.
- Can work as DEO
- Data Entry/Analysis work from home for different companies

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CBSE | DEPARTMENT OF SKILL EDUCATION CURRICULUM FOR SESSION 2025-2026

ARTIFICIAL INTELLIGENCE (SUB. CODE 417) CLASS – X

OBJECTIVES OF THE COURSE:

The objective of this module/curriculum - which combines both Inspire and Acquire modules is to develop a readiness for understanding and appreciating Artificial Intelligence and its application in our lives. This module/curriculum focuses on:

- 1. Helping learners understand the world of Artificial Intelligence and its applications through games, activities and multi-sensorial learning to become AI-Ready.
- 2. Introducing the learners to three domains of AI in an age-appropriate manner.
- 3. Allowing the learners to construct the meaning of AI through interactive participation and engaging hands-on activities.
- 4. Introducing the learners to the AI Project Cycle.
- 5. Introducing the learners to programming skills Basic python coding language.
- 6. To equip students with the skills to develop AI solutions addressing societal challenges.

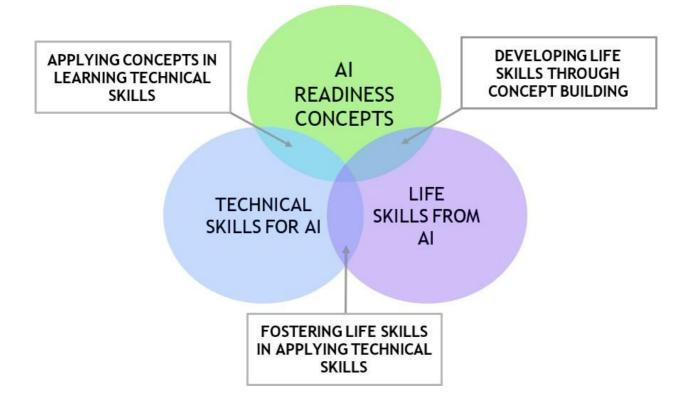
LEARNING OUTCOMES:

Learners will be able to

- 1. Identify and appreciate Artificial Intelligence and describe its applications in daily life.
- 2. Relate, apply and reflect on the Human-Machine Interactions to identify and interact with the three domains of AI: Data, Computer Vision and Natural Language Processing and Undergo assessment for analysing their progress towards acquired AI-Readiness skills.
- 3. Imagine, examine and reflect on the skills required for futuristic job opportunities.
- 4. Unleash their imagination towards smart homes and build an interactive story around it.
- 5. Understand the impact of Artificial Intelligence on Sustainable Development Goals to develop responsible citizenship.
- 6. Research and develop awareness of skills required for jobs of the future.
- Gain awareness about AI bias and AI access and describe the potential ethical considerations of AI.
- 8. Develop effective communication and collaborative work skills.
- 9. Get familiar and motivated towards Artificial Intelligence and Identify the AI Project Cycle framework.
- 10. Learn problem scoping and ways to set goals for an AI project and understand the iterative nature of problem scoping in the AI project cycle.
- 11. Brainstorm on the ethical issues involved around the problem selected.

- 12. Foresee the kind of data required and the kind of analysis to be done, identify data requirements and find reliable sources to obtain relevant data.
- 13. Use various types of graphs to visualize acquired data.
- 14. Understand, create and implement the concept of Decision Trees.
- 15. Understand and visualize the computer's ability to identify alphabets and handwriting.
- 16. Understand and appreciate the concept of domains through gamification and learn basic programming skills through gamified platforms.
- 17. Acquire introductory Python programming skills in a very user-friendly format.
- 18. Empower students to create positive change through AI-driven social impact projects.

SKILLS TO BE DEVELOPED:



SCHEME OF STUDIES:

This course is a planned sequence of instructions consisting of units meant for developing employability and vocational competencies of students of Class X opting for skill subjects along with other education subjects.

The unit-wise distribution of hours and marks for class X is as follows:

CBSE | DEPARTMENT OF SKILL EDUCATION

ARTIFICIAL INTELLIGENCE (SUBJECT CODE 417) CLASS – X (SESSION 2025-2026)

Total Marks: 100 (Theory-50 + Practical-50)

	UNITS	for Th	F HOURS eory and actical	MAX. MARKS for Theory and Practical
	Employability Skills			
	Unit 1: Communication Skills-II	10		2
Α.	Unit 2: Self-Management Skills-II		10	2
PART A	Unit 3: ICT Skills-II		10	2
ΡA	Unit 4: Entrepreneurial Skills-II		10	2
	Unit 5: Green Skills-II		10	2
	Total		50	10
	Subject Specific Skills	Theory (hours)	Practical (hours)	Marks
	Unit 1: Revisiting AI Project Cycle & Ethical Frameworks for AI	11	4	7
m	Unit 2: Advanced Concepts of Modeling in Al	18	7	11
PART B	Unit 3: Evaluating Models	21	4	10
٩	Unit 4: Statistical Data	_	28	_
-	Unit 5: Computer Vision	10	20	4
	Unit 6: Natural Language Processing	20	7	8
	Unit 7: Advance Python		10	-
	Total	160		40
	Practical & Project Work:			Marks
	Practical File with minimum 15 Programs			15
PART C	 Practical Examination Unit 4: Statistical Data Unit 5: Computer Vision Unit 6: Natural Language Processing Unit 7: Advance Python 			15
PAF	Viva Voce			5
	Project Work / Field Visit / Student Portfolio (Anyone to be done)			10
	Viva Voce (related to project work)			5
	Total			50
	GRAND TOTAL		210	100

DETAILED CURRICULUM/TOPICS FOR CLASS X

Part-A: EMPLOYABILITY SKILLS

S. No.	Units	Duration in Hours
1.	Unit 1: Communication Skills-II	10
2.	Unit 2: Self-management Skills-II	10
3.	Unit 3: Information and Communication Technology Skills-II	10
4.	Unit 4: Entrepreneurial Skills-II	10
5.	Unit 5: Green Skills-II	10
	TOTAL	50

<u>Note:</u> The detailed curriculum/ topics to be covered under Part A: Employability Skills can be downloaded from CBSE website

Part-B – SUBJECT SPECIFIC SKILLS

- Unit 1: Revisiting AI Project Cycle & Ethical Frameworks for AI
- Unit 2: Advanced Concepts of Modeling in AI
- Unit 3: Evaluating Models
- Unit 4: Statistical Data
- Unit 5: Computer Vision
- Unit 6: Natural Language Processing
- Unit 7: Advance Python

UNIT 1: Revisiting AI Project Cycle & Ethical Frameworks for AI

SUB-UNIT	LEARNING OUTCOMES	ACTIVITY/ PRACTICAL
Al Project Cycle	Understand the stages of the AI Project Cycle.	Session: Revisiting AI Project Cycle
Introduction to AI Domains	Understand the concept of Artificial Intelligence (AI) domains and the illustrations of practical applications within each AI domain.	Session : The three domains of AI and their applications.

SUB-UNIT	LEARNING OUTCOMES	ACTIVITY/ PRACTICAL
Ethical Frameworks of Al	Learn about the ethical framework for AI and its category. Explore Bioethics, a popular framework that is used in the healthcare	Session: Frameworks, Ethical Framework and need of Ethical Frameworks for AI. Activity: My Goodness https://www.my-goodness.net/
	industry.	Session: Types of Ethical Frameworks.
		Session : Bioethics and a case study in bioethics.

UNIT 2: Advance Concepts of Modeling in Al

SUB-UNIT	LEARNING OUTCOMES	SESSION/ ACTIVITY/ PRACTICAL
Revisiting AI, ML,	Understand AI, ML and DL	Session: Differentiate between AI, ML, and DL
DL		Session: Common terminologies used with data
Modeling	 Familiarize with supervised, unsupervised and reinforcement learning based approach Understand subcategories of Supervised, Unsupervised and deep learning models 	Session: Types of AI Models: Rule Based Approach, Learning Based Approach Session: Categories of Machine learning based models: Supervised Learning (https://teachablemachine.withgoogle.com/), Unsupervised Learning (https://experiments.withgoogle.com/ai/drum- machine/view/), Reinforcement Learning Session: Subcategories of Supervised Learning Model: Classification Model, Regression Model Session: Subcategories of Unsupervised Learning Model: Clustering, Association Session: Subcategories of Deep Learning: Artificial Neural networks (ANN), Convolutional Neural Network (CNN)
Artificial Neural Networks	 Understand Neural Networks Understand how AI makes a decision 	Session: What is Neural Network? Session: How does AI make a Decision?
		Activity: Human Neural Network – The Game
		Suggested Neural Network Activity: https://playground.tensorflow.org/

UNIT 3: Evaluating Models

SUB-UNIT	LEARNING OUTCOMES	SESSION/ ACTIVITY/ PRACTICAL
Importance of	Understand the role of evaluation in the development and implementation of AI	Session: What is evaluation?
Evaluation	systems.	Session: Need of model evaluation

Splitting the training set data for Evaluation	Understand Train-test split method for evaluating the performance of a machine learning algorithm	Session: Train-test split
Accuracy and Error	Understand Accuracy and Error for effectively evaluating and improving AI models	Session: Accuracy Session: Error Activity: Find the accuracy of the Al model
Evaluation metrics for classification	Learn about the different types of evaluation techniques in AI, such as Accuracy, Precision, Recall and F1 Score, and their significance.	Session: What is Classification? Session: Classification metrics Activity: Build the confusion matrix from scratch Activity: Calculate the accuracy of the classifier model Activity: Decide the appropriate metric to evaluate the AI model
Ethical concerns around model evaluation	Understand ethical concerns around model evaluation	Session: Bias, Transparency, Accuracy

UNIT 4: Statistical Data (To be assessed through Practicals)

SUB-UNIT	LEARNING OUTCOMES	SESSION/ ACTIVITY/ PRACTICAL
Introduction & No code AI tool	Define the concept of Statistical Data and understand its applications in various fields. Define No-Code and Low- Code AI. Identify the differences between Code and No-Code AI concerning Statistical Data.	Session: No code Al tool •Introduction to Data Science & its applications •Meaning of No-Code Al • No-Code and Low-Code. • Some no-code tools Orange Data Mining Tool: https://orangedatamining.com/download/
Statistical Data: Use Case Walk through		Session •Important concepts in Statistics. • Orange data mining • Al project cycle in Orange data mining (Palmer penguins case study) Activity: MS Excel for Statistical Analysis. Link: <u>https://docs.google.com/spreadsheets/d/1f5</u> G- JXyP7EV2fy1hax47YVaH5gyq8KZy/edit?usp=dri ve_link&ouid=109928090180926267402&rtpof=tr ue&sd=true Case study using Orange data mining (Palmer Penguins). Link: https://drive.google.com/drive/u/0/folders/1fmcRVb- ilTyUhmUv4DWT1BFsaCoQ2BmF

UNIT 5: Computer Vision (To be assessed through Theory)

SUB-UNIT	LEARNING OUTCOMES	SESSION/ ACTIVITY/ PRACTICAL
Introduction	Define the concept of Computer Vision and understand its	Session: Introduction to Computer Vision
	applications in various fields.	Session: Applications of CV
Concepts of Computer Vision	Understand the basic concepts of image representation, feature extraction, object detection, and segmentation.	 Session: Understanding CV Concepts Computer Vision Tasks Basics of Images-Pixel, Resolution, Pixel value Grayscale and RGB images Activities: Game- Emoji Scavenger Hunt https://emojiscavengerhunt.withgoogle.com/ RGB Calculator: https://www.w3schools.com/colors/colors_r gb.asp Create your own pixel art: www.piskelapp.com Create your own convolutions: http://setosa.io/ev/image-kernels/

UNIT 5: Computer Vision (To be assessed through Practicals)

SUB-UNIT	LEARNING OUTCOMES	SESSION/ ACTIVITY/ PRACTICAL
No-Code Al Tools	To demonstrate proficiency in using no-code AI tools for computer vision projects. To deploy models, fine-tune parameters, and interpret results. Skills acquired include data preprocessing, model selection, and project deployment.	Introduction to Lobe: https://www.lobe.ai/ Teachable Machine: https://teachablemachine.withgoogle.com/ • Activity: Build a Smart Sorter Orange Data Mining Tool: https://orangedatamining.com/download/ • Activity: Build a real-world Classification Model: Coral Bleaching (Use Case Walkthrough) • Link to the steps involved in project development and dataset: https://drive.google.com/drive/folders/1ppJ 4d- 8yOFJ2G22rHHpjNrK0ejdIAe5Q?usp=shar ing
Image Features & Convolution Operator	Apply the convolution operator to process images and extract useful features.	Session: Understanding Convolution operator Activity: Convolution Operator
Convolution Neural Network	Understand the basic architecture of a CNN and its applications in computer vision and image recognition.	Session: Introduction to CNN Session: Understanding CNN • Kernel • Layers of CNN Activity: Testing CNN

SUB-UNIT	LEARNING OUTCOMES	SESSION/ ACTIVITY/ PRACTICAL
Introduction	Comprehend the complexities of natural languages. and elaborate on the need for NLP techniques for machines to understand various natural languages effectively.	Session: Features of natural languages. Session: Introduction to Natural Language Processing
Applications of Natural Language Processing	Explore the various applications of NLP in everyday life, such as , voice assistants, auto generated captions, language translation, sentiment analysis, text classification and keyword extraction.	Session: Various real-life applications of NLP Activity: Keyword Extraction https://cloud.google.com/natural-language
Language	Understand the concepts like lexicon, syntax, semantics, and logical analysis of input text.	Session: Explore the various stages of NLP that involve in understanding and processing human language.
Chatbots	Understand the concept of chatbot and the differences between smartbots and script bots.	Activity: Play with chatbots Elizabot - <u>https://www.masswerk.at/elizabot/</u> Mitsuki - <u>https://www.kuki.ai/</u> Cleverbot - <u>https://www.cleverbot.com/</u> Singtel - <u>https://www.singtel.com/personal/support</u>
Concepts of Natural Language Processing: Text Processing	Learn about the Text Normalization technique used in NLP and the popular NLP model - Bag-of-Words	

UNIT 6: Natural Language Processing (To be assessed through Theory)

UNIT 6: Natural Language Processing (To be assessed through Practicals)

SUB-UNIT	LEARNING OUTCOMES	SESSION/ ACTIVITY/ PRACTICAL
Natural Language Processing:	Explore the sentiment analysis process using real-life datasets with the Orange Data Mining	Session: Examples of Code and No-code NLP Tools
Use Case	tool.	Session: Applications of NLP-
Walkthrough		Introduction to Sentiment Analysis
		Hands-on: Case Walkthrough – Steps involved in
		project development
		Link to steps and dataset:
		https://drive.google.com/drive/u/2/folders/1geFLXx
		V5890kfcakMfEg_KsH1LPcS_Iz

UNIT 7: ADVANCE PYTHON (To be assessed through Practicals)

SUB-UNIT	LEARNING OUTCOMES	SESSION/ ACTIVITY/ PRACTICAL
Recap	Understand to work with Jupyter Notebook, creating virtual environments, installing Python Packages.	Session: Jupyter Notebook
	Able to write basic Python programs using fundamental concepts such as variables, data types, operators, and control structures.	Session: Introduction to Python
	Able to use Python built-in functions and libraries.	Session: Python Basics

PART-C: PRACTICAL & PROJECT WORK

Practical Work:

Suggested Programs List	 Write a program to add the elements of the two lists. Write a program to calculate mean, median and mode using Numpy Write a program to display line chart from (2,5) to (9,10). Write a program to display a scatter chart for the following points (2,5), (9,10),(8,3),(5,7),(6,18). Read the csv file saved in your system and display 10 rows. Read csv file saved in your system and display its information Write a program to read an image and display using Python Write a program to read an image and identify its shape using Python 	
Important Links	Link to AI Activities & steps to AI project development considering real life problem statement along with the required dataset <u>https://docs.google.com/spreadsheets/d/1ZQCTT8RM-I7QfeTzH0n-</u> <u>5wJLBAoiXu7TFM0Pcp31cX0/edit?usp=sharing</u>	
* relate it to Sust	eld Visit / Student Portfolio ainable Development Goals ects/ Field Visit / Portfolio (any one activity to be one)	
Sample Projects	AI Project Development Using 1. Statistical Data for AI: Prediction of palmer penguin species 2. Computer Vision: Early detection of coral bleaching 3. Natural Language Processing: Sentiment Analysis	
Field Work	 Students' participation in the following- AI for Youth Bootcamp AI Fests/ Exhibition Participation in any AI training sessions Virtual tours of companies using AI to get acquainted with real-life usage 	
Student Portfolio (to be continued from class IX)	 Maintaining a record of all AI activities Hackathons Competitions (CBSE/Inter School) Note: Portfolio should contain minimum 5 activities 	

LIST OF ITEMS/ EQUIPMENT'S (MINIMUM REQUIREMENTS):

The equipment / materials listed below are required to conduct effective hands-on learning sessions while delivering the AI curriculum to class 10 students. The list below consists of minimal configuration required to execute the AI curriculum for class 10 and create social impact real time solutions/ projects. The quantities mentioned here are recommended for a batch of 20 students keeping the human-machine ratio as 2:1. An exhaustive list may be compiled by the teacher(s) teaching the subject.

S. NO.	ITEM NAME, DESCRIPTION & SPECIFICATION
Α	SYSTEM SPECIFICATIONS
1	Processor: Intel® Core™ i5-7300U Processor or equivalent with minimum SYSmark® 2018 Rating of 750 or higher
2	Graphic Card: Integrated graphics
3	Form Factor: - USFF (Ultra Small Form factor) System chassis volume less than One Litre
4	RAM: 8GB DDR4 – 2400MHz or above
5	Storage: 500 GB HDD – 7200 rpm
6	Display: 18.5" LED Monitor with HDMI, in-built-speaker,
7	Keyboard: Keyboard with numerical keypad (recommended)
8	Mouse: Optical Mouse
9	Webcam: Full HD Camera
10	Headphones with Mic
11	Dual Band Wireless Connectivity Min 800 Mbps
12	Bluetooth V4.2 or Higher
13	Ports: 4 USB 3.0 ports, dual high-definition display ports (HDMI 2.0/DP/thunderbolt 3.0 ports), High definition 8-channel audio through HDMI interface or through audio jack.
14	VPU: - Integrated or support for VPU - vision processing unit to accelerate AI machine vision applications.
В	SOFTWARE SPECIFICATIONS
1	Operating System: Any
2	Anti-Virus Activated
3	Internet Browser: Google Chrome
4	Productivity Suite: Any (Google+ Suite recommended)
5	Anaconda Navigator Distribution (https://bit.ly/AI-installation-guide)
6	Conceptual installations (https://bit.ly/AI-installation-guide)
7	Intel Open VINO tools
8	Python

<u>NOTE</u>: In keeping with the spirit of Recycle, Upcycle and Reuse, it is recommended to make use of any equipment/ devices/ accessories from the existing inventory in school.

TEACHER'S/ TRAINER'S QUALIFICATIONS:

Qualification and other requirements for appointment of teachers/trainers for teaching this subject, on contractual basis should be decided by the State/ UT. The suggestive qualifications and minimum competencies for the teacher should be as follows:

Teachers/Trainers form the backbone of Skill (Vocational) Education being imparted as an integral part of Rashtriya Madhyamik Shiksha *Abhiyan* (RMSA). They are directly involved in teaching of Skill (vocational) subjects and also serve as a link between the industry and the schools for arranging industry visits, On-the-Job Training (OJT) and placement.

These guidelines have been prepared with an aim to help and guide the States in engaging quality Teachers/Trainers in the schools. Various parameters that need to be looked into while engaging the Vocational Teachers/Trainers are mode and procedure of selection of Teachers/ Trainers, Educational Qualifications, Industry Experience, and Certification/ Accreditation.

The State may engage Teachers/Trainers in schools approved under the component of scheme of Vocationalisation of Secondary and Higher Secondary Education under RMSA in following ways:

 Directly as per the prescribed qualifications and industry experience suggested by the PSS Central Institute of Vocational Education (PSSCIVE), NCERT or the respective Sector Skill Council (SSC).

OR

(ii) Through accredited Vocational Training Providers accredited under the National Quality Assurance Framework (NQAF*) approved by the National Skill Qualification Committee on 21.07.2016. If the State is engaging Vocational Teachers/Trainers through the Vocational Training Provider (VTP), it should ensure that VTP should have been accredited at NQAF Level 2 or higher. * The National Quality Assurance Framework (NQAF) provides the benchmarks or quality criteria which the different organizations involved in education and training must meet in order to be accredited by competent bodies to provide government-funded education and training/skills activities. This is applicable to all organizations offering NSQF-compliant qualifications.

The educational qualifications required for being a Teacher/Trainer for a particular job role are clearly mentioned in the curriculum for the particular NSQF compliant job role. The State should ensure that teachers/ trainers deployed in the schools have relevant technical competencies for the NSQF qualification being delivered. Teachers/Trainers preferably should be certified by the concerned Sector Skill Council for the particular Qualification Pack/Job role which he will be teaching. Copies of relevant certificates and/or record of experience of the teacher/trainer in the industry should be kept as record.

To ensure the quality of the Teachers/Trainers, the State should ensure that a standardized procedure for selection of (Vocational) Teachers/Trainers is followed. The selection procedure should consist of the following:

- (i) Written test for the technical/domain specific knowledge related to the sector;
- (ii) Interview for assessing the knowledge, interests and aptitude of trainer through a panel of experts from the field and state representatives; and
- (iii) Practical test/mock test in classroom/workshop/laboratory.

In case of appointment through VTPs, the selection may be done based on the above procedure by a committee having representatives of both the State Government and the VTP.

The State should ensure that the Teachers/ Trainers who are recruited should undergo induction training of 20 days for understanding the scheme, NSQF framework and Vocational Pedagogy before being deployed in the schools.

The State should ensure that the existing trainers undergo in-service training of 5 days every year to make them aware of the relevant and new techniques/approaches in their sector and understand the latest trends and policy reforms in vocational education.

The Headmaster/Principal of the school where the scheme is being implemented should facilitate and ensure that the (Vocational) Teachers/Trainers:

- Prepare session plans and deliver sessions which have a clear and relevant purpose, and which engage the students;
- Deliver education and training activities to students, based on the curriculum to achieve the learning outcomes;
- Make effective use of learning aids and ICT tools during the classroom sessions;
- Engage students in learning activities, which include a mix of different methodologies, such as project-based work, teamwork, practical and simulation-based learning experiences;
- Work with the institution's management to organise skill demonstrations, site visits, on-job trainings, and presentations for students in cooperation with industry, enterprises and other workplaces;
- Identify the weaknesses of students and assist them in up-gradation of competency;
- Cater to different learning styles and level of ability of students;
- Assess the learning needs and abilities, when working with students with different abilities
- Identify any additional support the student may need and help to make special arrangements for that support;
- Provide placement assistance

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Assessment and evaluation of (Vocational) Teachers/Trainers is very critical for making them aware of their performance and for suggesting corrective actions. The States/UTs should ensure that the performance of the (Vocational) Teachers/Trainers is appraised annually. Performance based appraisal in relation to certain pre-established criteria and objectives should be done periodically to ensure the quality of the (Vocational) Teachers/Trainers.

Following parameters may be considered during the appraisal process:

- Participation in guidance and counseling activities conducted at Institutional, District and State level;
- Adoption of innovative teaching and training methods;
- Improvement in result of vocational students of Class X or Class XII;
- Continuous up-gradation of knowledge and skills related to the vocational pedagogy, communication skills and vocational subject;
- Membership of professional society at District, State, Regional, National and International level;
- Development of teaching-learning materials in the subject area;
- Efforts made in developing linkages with the Industry/Establishments;
- Efforts made towards involving the local community in Vocational Education
- Publication of papers in National and International Journals;
- Organisation of activities for promotion of vocational subjects;
- Involvement in placement of students/student support services.