

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

[Grade: IX]

	ENGLISH	
MARCH		
CHAPTER/TO	OPIC:	TEACHING PERIODS
1 ST WEEK	The Fun They Had	
2 nd Week	Work book	
2 WCCR	WOLK BOOK	
3 rd Week	The Wind	
4 th Week	Workbook	
APRIL		-
CHAPTER/TO	OPIC	TEACHINGPERIODS
	The Road not taken,	
1 ST WEEK	,	
2 ND WEEK	The sound of music	
3 RD WEEK	The little girl	
4 TH WEEK	A truly beautiful mind	
MAY		
CHAPTER/TO	OPIC	TEACHING PERIODS
1 ST WEEK	Modals	- · ·
2 ND WEEK	Rain on the roof	
3 RD WEEK	PRE-MID EXAMINATION(13 TH MAY-18 th MAY)	
4 TH WEEK	The lake Isle of innisfree	
5 TH WEEK	A legend of the North land	
JUNE		
CHAPTER/TO	OPIC .	TEACHING PERIODS
1 ST WEEK	Determines	
	Iswaran the story teller	
2 ND WEEK		
3 RD WEEK	Reported Speech	

4 TH WEEK		
JULY		
CHAPTER/TOPI	Γ	TEACHING PERIODS
1 ST WEEK 2 ND WEEK	T 4 1' 1 CC 1	
3 RD WEEK	In the kingdom of fools REVISION	
4 TH WEEK	MID-TERM EXAMINATION(27 JULY-07 AUGUST)	
5 th WEEK	MID-TERM EXAMINATION (27 JUL 1-07 AUGUST) MID-TERM EXAMINATION	
5 WEEK	WID-TERM EXMINATION	
AUGUST		
CHAPTER/TOPI	C	TEACHING PERIODS
1 ST WEEK	MID-TERM EXAMINATION	
2 ND WEEK	MID-TERM EXAMINATION MID-TERM EXAMINATION	
3 RD WEEK	MID-TERM EXAMINATION	
4 TH WEEK	Snake and the mirror	
5 TH WEEK	My childhood	
J WEEK	Wry Childhood	
SEPTEMBER		
CHAPTER/TOPI	C	TEACHING PERIODS
CHAFTER/TOFI		
1 ST WEEK	Reach for the top	
2 ND WEEK	Cubicat youh concord	
3 RD WEEK	Subject verb concord Kathmandu	
4 TH WEEK	Kanmandu	
4 WEEK		
OCTOBER		
CHAPTER/TOPI	C	TEACHING PERIODS
1 ST WEEK	No men are foreign	
2 ND WEEK	On killing a tree	
3 RD WEEK	Tenses	
4 TH WEEK	If I were you	
4 WEEK	I I were you	
NOVEMBER		
		TEACHING PERIODS
CHAPTER/TOPI	C	
1ST XXXDDX		
1 ST WEEK	A slumber did my spirit seal	
2 ND WEEK	Story writing	
	DOST MID EVAMINATION(12th NOVEMBER 25th NOVEMBER)	
3 RD WEEK	POST-MID EXAMINATION(16 th NOVEMBER-25 th NOVEMBER)	
4 TH WEEK	POST-MID EXAMINATION	
+ WEEK		
DECENT TO TO		
DECEMBER		
		TEACHING PERIODS
01.1.1.	<u> </u>	TEACHING FERIODS
@lp look/TOPIC		
1 ST WEEK		
2 ND WEEK		



دون اسکول سرینگر

ایجایم ٹی ہو کر سر نیشنل ہائی وے، سرینگر، جموں تشمیر،انڈیا

+91 9103155601, 9103155603 رابطه نمبر: Affiliated to CBSE New Delhi, Affiliation No. 730082

تقسيم نصاب بابيت سال ۲۰۲۵ ۲۰۲۵

جماعت: تنم

تضمون:اردو

ماه مار<u>چ</u>

	مطلوبه دروس
اسباق	
اردوز بان کا تعارف (آغاز وار نقاء)	پېلا مفته
تعارف نظم، سواخ حیات واد بی خدمات: تلوک چند محروم	د وسراہفتہ
نظم: مندومسلمان - قواعد: تعارف اسم	تيسر اہفتہ
تعارف مضمون: سوانح حیات اوراد بی خدمات: میر باقر علی	چو تھا ہفتہ
تعارف: واحد جمع مع بيس مثاليس	پانچوال ہفتہ

ماه ایریل

مطلوبه دروس	عملی کام: نظم ترنم
-1	اسباق
پېلامفته	مضمون: بهادر شاه کا ہاتھی
دوسراهفته ت	تعارف کہانی۔ سوانح حیات اور ادبی خدمات منشی پریم چند
تيسرا ہفتہ	کهانی: نادان دوست ـ کتاب دور پاس: ترانه مهندی
چو تقاہفتہ پ	پری مُدامتخان

ماه مئی

مطلوبه دروس	عملی کام: ایڈسن کا کر دار (کر داروں کے ذریعے کہانی کی پیشکش)
	اسباق
پېلامفته	تعارف گیت۔ سوائح حیات اور ادبی خدمات اختر شیر انی
د وسر اہفتہ	خطوط نگاری: نجی، د فتری، کار و باری
تيسراهفته	خطوط نگاری: نجی، د فتری، کار و باری _ ضمیر کی تعریف
چو تھاہفتہ	گیت: دیبهاتی لڑکی کاایک گیت

کتاب د وریاس: پیل پیول

يإنجوال هفته

ماه جون

عملی کام: بلندخوانی	مطلوبه دروس
اسباق	
سوائح حیات اوراد بی خدمات: سورج نرائن مهر: نظم: بهادر بنو	پېلا ہفتہ
مضمون نویسی: مختلف مضامین: متضادالفاظ	د و سراهفته
سوانح حیات اور ادبی خدمات: ڈاکٹر ذاکر حسین: کہانی احسان کابد لہ احسان	تيسراهفته
سوائح حیات اوراد بی خدمات: اسمعیل میر تھی: نظم ایک بود ااور گھاس	چو تھا ہفتہ

ماه جولائی

مطلوبه دروس	عملی کام: نظم کی پیشکش کر داروں کے ذریعے
	اسباق
پېلامفته	مذرم امتحان
د و سر اہفتہ	سند باد جهازی کاایک سفر (کتاب دوریاس: کفایت شعاری)

سوائح حیات اور اد بی خدمات: فرقت کا کوری: کہاوتوں کی کہانی	تيسراهفته
سوائح حیات اوراد بی خدمات: محمد مجیب: تنکا تھوڑی ہواسی اڑ جاتا ہے	چو تھا ہفتہ

ماه اگست

عملی کام: سبزیوں کاالبم	مطلوبه دروس
اسباق	
سابقه،لاحقه،تذ كيروتانيث، تشبيه،	پېلا مفته
(کتاب دوریإس: ایک پرانی کهانی: برسات اور پیسلن)	دوسرا ہفتہ
سوائح حیات اور اد بی خدمات: کبیر داس تعارف: صنف دوہے	تيسراهفته
دوہے: تشر تح	چو تھا ہفتہ

ماه ستمبر

عملی کام بینشکش	مطلوبه دروس
اسباق	
سوائح حیات اوراد بی خدمات: افسر میر تھی: نظم بہار کے دن	يبهلا مفته

سوائح حيات اوراد بې خدمات: احمد جمال پاشا: ملانصرالدين	د وسراهفته
اعاده: واحد جمع متضاد متراد فات (دوریاس: ایک انو کھاعجائب گھر)	تبسرا ہفتہ
پوسٹ مڈٹر م امتحان	چو تھا ہفتہ

ماهاكتوبر

مطلوبه دروس	عملی کام: ترانه
1	اسباق
پېلامفته	سوائح حیات اوراد بی خدمات: ڈپٹی نظیر احمد
د وسراہفتہ	خطوط نویسی اعاده (دوریاس جگنواوریچبه)
تيسرا بهفته	مضمون نویسی اعاده (دوریاس: هندوستان کی چندمشهور خواتین)
چو تھا ہفتہ	کتاب دور پاس: ار دو کی کہانی۔ بالغون کے لیے تیسری کتاب۔ گیت

ماه نومبر

: اسباق کی پیشکش	عملی کام	مطلوبه دروس
	اسباق	

پېلا ہفتہ	دوریاس:زیروناٹآوٹ۔عالمی حرارت
د وسرا ہفتہ	د وریاس: اے شریف انسانو۔ جلوہ در بار دہلی
تبسراهفته	اعاده
چو تھا ہفتہ	سالاندامتخان

ماه د سمبر

	مطلوبه دروس
اسباق	
سالاندامتحان	پېلاہفتہ
	د وسر اہفتہ
	تيسراهفته
	چو تھاہفتہ



DOON SCHOOL SRINAGAR

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

SYLLABUSBREAKUP-2025/26 {Grade-IX} HINDI

MARCH CHAPTER/TOPIC 0.000 00 000000 **TEACHINGPERIODS** दुख का अधिकार 1ST WEEK q_{\square} 2ND WEEK अपितत गद्यांश 3RD WEEK 4TH WEEK Activity (□□□□□□□□□- पढ़ने की प्रतियोगिता) **APRIL** CHAPTER/TOPIC

CHAPTER/TOPIC TEACHINGPERIODS 1ST WEEK एवरेस्ट: मेरी शिखर यात्रा 2ND WEEK शब्द और पद 3RD WEEK Revision 4TH WEEK Pre Mid Examinaton 5TH WEEK

CHAPTER/TO	PIC		
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O. OOOO(OOOO)		TEACHINGPERIODS	
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	,		
1 ST WEEK	तुम कब जाओगे,अतिथि		
2 ND WEEK	दोहे(रहीम)		
3 RD WEEK	अनुस्वार व अनुनासिक, उपसर्ग एवं प्रत्यय		
4 TH WEEK	Activity (क्रियाकलाप- 🗆 🗆 🗆 की प्रतियोगिता)		
JUNE			
CHAPTER/TO	PIC	TEACHINGPERIODS	
		TEACH TO EXTODS	
1 ST WEEK	_{EK} गीत □गीत		
2 ND WEEK	पत्र लेखन		
3 RD WEEK	Revision		
4 TH WEEK	Mid Term Examination		
5 TH WEEK			
JULY			
CHAPTER/TO	PIC		
		TEL CHINADEDIODA	
TEACHINGPERIODS		<u>TEACHINGPERIODS</u>	
<u></u>			
1 ST WEEK	Mid Term Examination		
2 ND WEEK	००ल्लू,०००० ०००० ०० ००००		

3 RD WEEK	संधि, 🗆 🗆 🗎 💮		
4 TH WEEK	Activity(क्रियाकलाप -अनुच्छेद लेखन की प्रतियोगिता)		
AUGUST			
CHAPTER/T	OPIC		
0.00000			
0.00000		<u>TEACHINGPERIODS</u>	
	10.00,00000 0000		
1 ST WEEK	अग्निपथ		
2 ND WEEK	स्मृति		
3 RD WEEK	विराम चिन्ह		
4 TH WEEK	संवाद लेखन		
5 TH WEEK	5 TH WEEK Activity (□□□□ प्रतियोगिता)		
SEPTEMBE	R		
CHAPTER/T	OPIC		
O. 00000		TEACHINGPERIODS	
	10,0000 0000		
1 ST WEEK	क□□□□ कुमार की उनाकोटी		
2 ND WEEK	वाक्य भेद, 🗆 🗆 🗆 🗆 💮		
3 RD WEEK	Revision		
4 TH WEEK	Post Mid Examination		
OCTOBER			
CHAPTER/T	OPIC		
O . 00000		TEACHINGPERIODS	

	_		
1 ST WEEK	मेरा छोटा सा निजी पुस्तकालय		
2 ND WEEK	अपठित गद्यांश		
3 RD WEEK	पत्र लेखन, चित्र वर्णन		
4 TH WEEK	Activity (□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□		
NOVEMBER			
CHAPTER/TO	PIC	THE A CHANGE PROPERTY OF C	
0.000000		<u>TEACHINGPERIODS</u>	
]		
1 ST WEEK	न□ इलाके में खुशबू रचते हैं हाथ		
2 ND WEEK	Revision		
3 RD WEEK	Revisions		
4 TH WEEK	Final Term Examination		
DECEMBER			
CHAPTER/TO	PIC	<u>TEACHINGPERIODS</u>	
1 ST WEEK			
2 ND WEEK			
3 RD WEEK			
4 TH WEEK			



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SYLLABUS BREAKUP – 2025/ 26 [Grade: IX]

MATHEMATICS

MARCH

CHAPTER/TOPIC TEACHINGPERIO		TEACHINGPERIODS	
1 ST WEEK	Chapter 1: Number system (introduction), brief review of numbers, decimal representation of numbers, irrational numbers, representing irrational numbers on the number line.		
2 ND WEEK	Real numbers & real number line, visualisation of representation of real numbers by using the process of successive magnification.		
3 RD WEEK	Chapter 2: Polynomials(introduction), types of polynomials, zeros of polynomials, Remainder theorem (related exercis		
4 TH WEEK Factor theorem, Factorisation of polynomials by using factor theorem, Expansion of polynomials using Identities.			

APRIL

CHAPTER/TO	CHAPTER/TOPIC TEACHINGPERIOD		
1 ST WEEK	Chapter 3: Coordinate geometry (introduction), Rectangular or Cartesian coordinates of a point, plotting of points.		
2 ND WEEK	Chapter 4: Introduction to Euclid's Geometry (introduction), Axioms(postulates) & theorems, parallel lines & interesting lines.		
3 RD WEEK	REVISION		
4 TH WEEK	PRE-MID EXAMINATION		

MAY

CHAPTER/TOPIC TEACHING PERIO		TEACHING PERIODS
1 ST WEEK	Chapter 5: Linear equations in two variables (introduction), solution of a linear equations, graph of a linear equations in two variables, equations of lines parallel to the coordinate axes.	
2 ND WEEK	Chapter 6: Lines & angles(introduction), Angle, types of angle, Measure of an angles.	
3 RD WEEK	WEEK Angle relations, Angles made by a transversal with two lines.	
4 TH WEEK	WEEK Interesting & non - interesting lines, pair of angles, lines parallel to same line.	
5 TH WEEK	Chapter 7:Triangles (introduction), congruence of triangles, criteria for congruence.	

JUNE

CHAPTER/TOPIC	TEACHING PERIODS

1 ST WEEK	Some properties of a triangle (related exercise).
2nd WEEK	Chapter 8: Heron's formula: Area of a triangle by Herons formula.
3 RD WEEK	REVISION
4 TH WEEK	MID-TERM EXAMINATION

JULY

CHAPTER/TO	PIC TEACHING PERIODS	
1 ST WEEK	MID-TERM EXAMINATION	
2nd WEEK	Chapter 9: Quadrilaterals: Properties of a parallelogram.	
3 RD WEEK	The mid- point theorem)	
4 TH WEEK	Quadrilaterals (related exercise)	
5 th WEEK	SUMMER BREAKS	

AUGUST

CHAPTER/TOP	PIC	TEACHING PERIODS
1 ST WEEK	Chapter 10: Circles(introduction), terms related to a circle, chord & arc properties of circles.	
2 ND WEEK	Arcs & angles subtended by them, (related exercise)	
3 RD WEEK	Properties of a cyclic quadrilaterals (related exercise).	
4 TH WEEK	Chapter 11: Statistics (introduction.	_

SEPTEMBER

CHAPTER/TOPIC		TEACHING PERIODS
1 ST WEEK	Brief introduction of measures of central tendency (mean, mode & median)	
2 ND WEEK	Graphical representation of data.	
3 RD WEEK	REVISION	
4 TH WEEK	POST-MID EXAMINATION	

OCTOBER

CHAPTER/TOPIC		TEACHING PERIODS
1 ST WEEK	Chapter 13: Surface area & volumes (introduction), units of measurer a right circular cone.	ment of area & volume, surface area of
2 ND WEEK	Surface area of a sphere (related exercise)	
3 RD WEEK	Volume of a right circular cone(related exercise).	
4 TH WEEK	Volume of sphere (related exercise).	

NOVEMBER

		TELL GIVELG PERIOR C
CHAPTER/TOPIC		TEACHING PERIODS
1 ST WEEK	Chapter 14: Probability, various approaches to probability (related exercise)	
2 ND WEEK	REVISION	
3 RD WEEK	FINAL TERM EXAMINATION	
4 TH WEEK	FINAL TERM EXAMINATION	
4 WEEK		

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CLASS-X BIOLOGY

MARC	H	
CHAPTER/	TOPIC Chapter 1	TEACHINGPERIODS
	•	20
1 ST WEEK	Unit I: ORAGANIZATION IN THE LIVING WO	RLD
1 WEEK	Cell as a basic unit of life	
2 ND WEEK	Prokaryotic and eukaryotic cells	
3 RD WEEK	Unicellular and multicellular organisms	
4 TH WEEK	Plant cells and Animal cells	
APRIL		
CHAPTER/T	OPIC	TEACHINGPERIODS
		08
1 ST WEEK	Cell wall and cell membrane	
2 ND WEEK	Plasmolysis and deplasmolysis	
3 RD WEEK	REVISION	
4 TH WEEK	PRE-MID EXAMINATION	
MAY		
CHAPTER/T	OPIC	TEACHING PERIODS 22
1 ST WEEK	Cell organelles and cell inclusions	
2 ND WEEK	Nucleus and cytoplasm	
3 RD WEEK	Chromosomes: Basic structure and number	
4 TH WEEK	Organelles: Endoplasmic reticulum	
5 TH WEEK	Mitochondria	
JUNE		
CHAPTER/T	OPIC	TEACHING PERIODS 10
1 ST WEEK	Gogi apparatus, Ribosomes	10
2 ND WEEK	Mitochondria	
3 RD WEEK	Chloroplasts and vacuoles	
4 TH WEEK	MID-TERM EXAMINATION	
JULY		
CHAPTER/T	OPIC	TEACHING PERIODS 10
1 ST WEEK	MID-TERM EXAMINATION	**
	Unit II: TISSUES	
2 ND WEEK	Basic concepts	
3 RD WEEK	Difference between plant and animal tissues	
4 TH WEEK	Plant tissues : Meristematic and permanent tissues	
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AUGUST CHAPTER/TOPIC TEACHING PERIODS 18	5 th WEEK	SUMMER BREAKS		
CHAPTER/TOPIC ST WEEK				
2ND WEEK				
3RD WEEK	1 ST WEEK	Meristematic tissues and its types		
3RD WEEK	2 ND WEEK	Permanent tissues and its types		
SEPTEMBER CHAPTER/TOPIC TEACHING PERIODS 08 1ST WEEK Muscular tissues and Nervous tissues 2ND WEEK WITH II: FOOD PRODUCTION Plant and Animal breeding 3RD WEEK REVISION 4TH WEEK POST-MID EXAMINATION OCTOBER CHAPTER/TOPIC TEACHING PERIODS 13 1ST WEEK Selection for quality, improvement and management 2ND WEEK Use of manures 3RD WEEK Use of fertilizers 4TH WEEK Potection from pests and diseases. NOVEMBER CHAPTER/TOPIC TEACHING PERIODS 04 1ST WEEK Potection from pests and diseases.		Xylem and phloem		
CHAPTER/TOPIC TEACHING PERIODS 08 1ST WEEK Muscular tissues and Nervous tissues 2ND WEEK Plant and Animal breeding 3RD WEEK 4TH WEEK POST-MID EXAMINATION OCTOBER CHAPTER/TOPIC TEACHING PERIODS 13 1ST WEEK Selection for quality, improvement and management 2ND WEEK Use of manures 3RD WEEK Use of fertilizers 4TH WEEK Potection from pests and diseases. NOVEMBER CHAPTER/TOPIC TEACHING PERIODS 10 10 1EACHING PERIODS 10 10 1EACHING PERIODS 10 1EACHING PERIODS 10 1EACHING PERIODS 10 1EACHING PERIODS 1EACHING PERIODS	4 TH WEEK	Animal tissues: Epithelial tissues, Connect	ive tissues	
1ST WEEK Muscular tissues and Nervous tissues 2ND WEEK Plant and Animal breeding 3RD WEEK REVISION 4TH WEEK POST-MID EXAMINATION OCTOBER CHAPTER/TOPIC TEACHING PERIODS 13 1ST WEEK Selection for quality, improvement and management 2ND WEEK Use of manures 3RD WEEK Use of fertilizers 4TH WEEK Potection from pests and diseases. NOVEMBER CHAPTER/TOPIC TEACHING PERIODS 04 1ST WEEK Organic farming Organic farming Organic farming	SEPTE	MBER		
2 ND WEEK Plant and Animal breeding 3 RD WEEK REVISION 4 TH WEEK POST-MID EXAMINATION OCTOBER CHAPTER/TOPIC TEACHING PERIODS 13 1 ST WEEK Selection for quality, improvement and management 2 ND WEEK Use of manures 3 RD WEEK Use of fertilizers 4 TH WEEK Potection from pests and diseases. NOVEMBER CHAPTER/TOPIC TEACHING PERIODS 04 1 ST WEEK Potection from pests and diseases .	CHAPTER/T	OPIC		
Plant and Animal breeding 3RD WEEK REVISION 4TH WEEK POST-MID EXAMINATION OCTOBER CHAPTER/TOPIC 1ST WEEK Selection for quality, improvement and management 2ND WEEK Use of manures 3RD WEEK Use of fertilizers 4TH WEEK Potection from pests and diseases. NOVEMBER CHAPTER/TOPIC TEACHING PERIODS 04 1ST WEEK Potection from pests and diseases.	1 ST WEEK	Muscular tissues and Nervous tissues		
Plant and Animal breeding 3 RD WEEK REVISION 4 TH WEEK POST-MID EXAMINATION OCTOBER CHAPTER/TOPIC TEACHING PERIODS 13 1 ST WEEK Selection for quality, improvement and management 2 ND WEEK Use of manures 3 RD WEEK Use of fertilizers 4 TH WEEK Potection from pests and diseases. NOVEMBER CHAPTER/TOPIC TEACHING PERIODS 04 1 ST WEEK Organic farming Organic farming	OND WEEK	UNIT III: FOOD PRODUCTION		
ATH WEEK POST-MID EXAMINATION OCTOBER CHAPTER/TOPIC TEACHING PERIODS 13 1ST WEEK Selection for quality, improvement and management 2ND WEEK Use of manures 3RD WEEK Use of fertilizers 4TH WEEK Potection from pests and diseases. NOVEMBER CHAPTER/TOPIC TEACHING PERIODS 04 1ST WEEK Organic farming 2ND WEEK REVISION				
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CHAPTER/TOPIC TEACHING PERIODS 13 1ST WEEK Selection for quality, improvement and management 2ND WEEK Use of manures 3RD WEEK Use of fertilizers 4TH WEEK Potection from pests and diseases. NOVEMBER CHAPTER/TOPIC TEACHING PERIODS 04 1ST WEEK Organic farming 2ND WEEK REVISION				
13 1 ST WEEK Selection for quality, improvement and management 2 ND WEEK Use of manures 3 RD WEEK Use of fertilizers 4 TH WEEK Potection from pests and diseases. NOVEMBER CHAPTER/TOPIC 1 ST WEEK Organic farming 2 ND WEEK REVISION				
1 ST WEEK Selection for quality, improvement and management 2 ND WEEK Use of manures 3 RD WEEK Use of fertilizers 4 TH WEEK Potection from pests and diseases. NOVEMBER CHAPTER/TOPIC 1 ST WEEK Organic farming Organic farming 2 ND WEEK REVISION	CHAPTER/TO	OPIC		
2 ND WEEK Use of manures 3 RD WEEK Use of fertilizers 4 TH WEEK Potection from pests and diseases . NOVEMBER CHAPTER/TOPIC 1 ST WEEK Organic farming 2 ND WEEK REVISION			13	
3 RD WEEK Use of fertilizers 4 TH WEEK Potection from pests and diseases . NOVEMBER CHAPTER/TOPIC 1 ST WEEK Organic farming 2 ND WEEK REVISION	1 ST WEEK	Selection for quality, improvement and man	nagement	
ATH WEEK Potection from pests and diseases . NOVEMBER CHAPTER/TOPIC TEACHING PERIODS 04 1ST WEEK Organic farming 2ND WEEK REVISION	2 ND WEEK	Use of manures		
NOVEMBER CHAPTER/TOPIC 1ST WEEK Organic farming 2ND WEEK REVISION TEACHING PERIODS 04 04		Use of fertilizers		
CHAPTER/TOPIC TEACHING PERIODS 04 1ST WEEK Organic farming 2ND WEEK REVISION	4 TH WEEK	Potection from pests and diseases .		
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1 ST WEEK Organic farming 2 ND WEEK REVISION	CHAPTER/TO	OPIC		
2 ND WEEK REVISION		Ousania famaina	04	
	1 ST WEEK	Organic farming		
2RD WEEV FINAL TEDM EVAMINATION	2 ND WEEK	REVISION		
D WEEK FINAL IEKWEAAMINATION	3 RD WEEK	FINAL TERM EXAMINATION		
4 TH WEEK FINAL TERM EXAMINATION	4 TH WEEK			



Doon School Srinagar

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SYLLABUS BREAKUP – 2025/ 26

[Grade: IX]

PHYSICS

MARCH

CHAPTER/TOPIC		TEACHINGPERIODS
1 ST WEEK	Motion: Distance and displacement.	
2 ND WEEK	velocity; uniform and non-uniform motion along a straight line.	
3 RD WEEK	Numericals and competency based questions.	
4 TH WEEK	acceleration, distance-time and velocity-time graphs for uniform motivation	on and uniformly accelerated motion.

APRIL

CHAPTER/TOPIC TEACHINGPERIOD		TEACHINGPERIODS
1 ST WEEK	elementary idea of uniform circular motion.	
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	Force and Motion, concept of inertia.	
2 ND WEEK	Newton's 1st law of motion. Concept of momentum,	
3 RD WEEK	Newton's 2nd law of motion. Acceleration from Newton's 2nd law,	
4 TH WEEK	law of conservation of momentum. Application of the concept.	
5 TH WEEK	Newton's 3rd law of motion.	

JUNE

CHAPTER/TOPIC		TEACHING PERIODS
1 ST WEEK	Numericals and competency based questions.	
2 ND WEEK	group discussion.	
3 RD WEEK	REVISION	
4 TH WEEK	MID-TERM EXAMINATION	

JULY

CHAPTER/TOPIC		TEACHING PERIODS
1 ST WEEK	MID-TERM EXAMINATION	
2 ND WEEK	Gravitation; Universal Law of Gravitation, Force of Gravitation of the earth (gravity).	
3 RD WEEK	Acceleration due to Gravity; Mass and Weight; Free fall.	
4 TH WEEK	Numericals.	·
5 th WEEK	SUMMER BREAKS	

AUGUST

CHAPTER/TOPIC		TEACHING PERIODS
	Thrust and Pressure. Archimedes' Principle,	
1 ST WEEK Buoyancy.		
2 ND WEEK	Practical	
3 RD WEEK	Work done by a Force, Energy, power.	
4 TH WEEK	Kinetic and Potential energy; Law of conservation of energy	

SEPTEMBER

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

OCTOBER

OCIOBER		
CHAPTER/TOPIC		TEACHING PERIODS
1 ST WEEK	Nature of sound and its propagation in various media, speed of sound.	
and week	Dange of beging in hymens, ultresound	
2 ND WEEK	EK Range of hearing in humans; ultrasound.	
3 RD WEEK	Reflection of sound; echo.	
3 WEEK	refrection of sound, eeno.	
4 TH WEEK	Practical.	
	r ractical.	

NOVEMBER

CHAPTER/TOPIC		TEACHING PERIODS
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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SYLLABUS BREAKUP – 2025/26

[Grade: IX]

Chemistry

MARCH

Unit 1: Matter nature and behaviour.		TEACHINGPERIODS
		20
1 ST WEEK	A brief introduction of matter. Solid, liquid, gas characteristics : shape, volume, density	
2nd WEEK	Change of state melting, freezing, evaporation	
3 RD WEEK	Condensation, sublimation	
4 TH WEEK	Numericals and problem solving	

APRIL

AIKIL		
Nature of matter		TEACHINGPERIODS
		18
1 ST WEEK	Elements, compounds and mixtures definitions, properties and different	itiation.
2 ND WEEK	Heterogeneous and homogeneous mixtures	
3 RD WEEK	REVISION	
4 TH WEEK	PRE-MID EXAMINATION	

MAY

		TEACHING PERIODS
		18
1 ST WEEK	Colloids and suspensions definition, properties and uses.	
2 ND WEEK	Physical and chemical changes concept. Examples and difference.	
3 RD WEEK		
4 TH WEEK		
5 TH WEEK		

JUNE

00112	
particle nature and their basic units	TEACHING PERIODS
	15

1 ST WEEK	Concept of atoms and molecules, homoatomic and heteroatomic molecules examples
2 ND WEEK	Laws of chemical combination: law of conservation of mass
3 RD WEEK	REVISION
4 TH WEEK	MID-TERM EXAMINATION

JULY

CHAPTER/TOPIC		TEACHING PERIODS
		18
1 ST WEEK	MID-TERM EXAMINATION	
2 ND WEEK	Law of definite proportion, law of multiple proportion	
3 RD WEEK	Numericals based on laws of chemical combination	
4 TH WEEK Practice problems.		
5 th WEEK	SUMMER BREAKS	

AUGUST

		TEACHING PERIODS
		20
1ST WEEK	Elements and symbols, writing chemical formula of	
I WEEK	common compounds.	
2 ND WEEK	Method for writing chemical formula.	
3 RD WEEK	Examples of writing chemical formulas	
4 TH WEEK	Atomic and molecular masses	

SEPTEMBER

Structure of atoms.		TEACHING PERIODS
		14
1 ST WEEK	Sub-atomic particles electron, proton and neutrons	
2 ND WEEK	Parameters of sub atomic particles.	
3 RD WEEK	REVISION	
4 TH WEEK	POST-MID EXAMINATION	

OCTOBER

Atomic structure		TEACHING PERIODS
Atomic structure		18
1 ST WEEK	Valence electrons, valency, Atomic number, average atomic number, relative mass number.	
2 ND WEEK	Mass number, molecular mass.	
3 RD WEEK	Atomic models: Thomsons model and it's drawbacks, Rutherford's model and it's draw backs	
4 TH WEEK	Bohrs model advantages and disadvantages. Numericals.	

NOVEMBER

		TEACHING PERIODS
1 ST WEEK	Isobars and isotopes, applications of isotopes.	
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 - IX

COURSE OVERVIEW:

A Data Entry Operator/Analyst is a person who is responsible for entering data into different applications and computer databases, manage and maintain effective record keeping. In addition, S/he is responsible for organizing files, collecting and managing data to be entered into the computer. S/he is also responsible for security of data and safeguard of the computer network.

With every office and organization seeking to become computerized, the demand for data entry operators/analysts is on a rise. Data entry operators/analysts usually work in an indoor, office setting using a computer and other electronic machines. To be in the profession of data entry/analysis, one has to have computer literacy, high typing speed, organization skills, concentration skills, communication skills and an ability to sit for long periods of time entering and computing data.

OBJECTIVES OF THE COURSE:

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 an 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 system 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 fast 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

This course is a planned sequence of instructions consisting of units meant for developing employability and vocational competencies of students of Class IX opting for skill subject along with other education subjects. The unit-wise distribution of hours and marks for class IX is as follows:

INFORMATION TECHNOLOGY (SUBJECT CODE - 402)

CLASS - IX (Session 2024-2025)

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

	UNITS	for	F HOURS Theory Practical	MAX. MARKS for Theory and Practical
	Employability Skills			
	Unit 1 : Communication Skills-I		10	2
<	Unit 2 : Self-Management Skills-I		10	3
Part A	Unit 3 : ICT Skills-I		10	1
<u> </u>	Unit 4 : Entrepreneurial Skills-I		15	3
	Unit 5 : Green Skills-I		05	1
	Total		50	10
	Subject Specific Skills	Theory	Practical	Marks
r B	Unit 1: Introduction to IT- ITeS industry	2	4	4
Part	Unit 2: Data Entry & Keyboarding Skills	4	10	6
	Unit 3: Digital Documentation	10	26	10
	Unit 4:Electronic Spreadsheet	18	35	10
	Unit 5: Digital Presentation	10	31	10
	Total	44	106	40
S	Practical Work			
Part	Practical Examination			15
۵	Written Test			10
	Viva Voce			10
	Total			35
۵	Project Work/ Field Visit			
Part	Practical File/ Student Portfolio			10
~	Viva Voce			05
	Total			15
	GRAND TOTAL	2	200	100

DETAILED CURRICULUM/TOPICS:

Part-A: EMPLOYABILITY SKILLS

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

NOTE: Detailed Curriculum/ Topics to be covered under Part A: Employability Skills can be downloaded from CBSE website.

Part-B - SUBJECT SPECIFIC SKILLS

- Unit 1: Introduction to IT- ITeS industry
- Unit 2: Data Entry & Keyboarding Skills
- Unit 3: Digital Documentation
- Unit 4: Electronic Spreadsheet
- Unit 5: Digital Presentation

UNIT 1: INTRODUCTION TO IT-ITeS INDUSTRY

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1	Appreciate the applications of IT	 Introduction to IT and ITeS, BPO services, BPM industry in India, Structure of the IT-BPM industry, Applications of IT in home computing, everyday life, library, workplace, education, entertainment, communication, business, science and engineering, banking, insurance, marketing, health care, IT in the government and public service 	Identify and list the various IT enabled services, Observe the application of IT in various areas.

UNIT 2: DATA ENTRY AND KEYBOARDING SKILLS

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Use keyboard and mouse for data entry	 Keyboarding Skills, Types of keys on keyboard, Numeric keypad, Home keys, Guide keys, Typing and deleting text, Typing ergonomics, Positioning of fingers on the keyboard, Allocation of keys to fingers on four different rows, Pointing device – Mouse, Mouse operations. 	 Identify the keys and its use on the keyboard, Demonstrate to use various keys on the keyboard, Demonstrate to type the text, numbers, special character using appropriate keys on the keyboard, Practice the correct typing ergonomics, Practice to place fingers on correct key in four different row of keyboard, Practice various mouse operations.
2.	Use typing software	 Introduction to Rapid Typing Tutor, Touch typing technique, User interface of Typing Tutor, Typing text and interpret results, Working with lesson editor, Calculating typing speed, Typing rhythm. 	 Identify the user interface of typing tutor, Practice to type text in typing tutor software and interpret the results, Practice to work in lesson editor, Calculate the typing speed Practice to improve typing Using typing tutor software.

UNIT 3: DIGITAL DOCUMENTATION

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Create a document using a word processor	 Introduction to word processing, Word processing applications, Introduction to Word Processing tool Creating a document, Parts of a Word Processor Window, 	 List the available word processing applications. Introduce with the parts of the main window. Change document views. Start a new document. Open an existing document. Save a document. Close a document.
2.	Apply Editing features	 Text editing – Undo and Redo, Moving and copying text, Copy and Paste, Selecting text, Selection criteria, 	 Editing of text in a document Demonstrate to use undo and redo option, Use the keyboard and mouse options to select, cut, copy, paste, and move text.

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
		 Selecting non-consecutive text items, Selecting a vertical block of text, Find and replace option, Jumping to the page number, Non-printing characters, Checking spelling and grammar, Using Synonyms and Thesaurus. 	 Demonstrate to select nonconsecutive text items, vertical block of text, Search and replace text in a document. Jump to the given page number in a document, Insert non-printing characters in a document, Apply Spelling and grammar option of document. Demonstrate to use Synonyms and Thesaurus.
3.	Apply formatting features	 Page style dialog Formatting text – Removing manual formatting, Common text formatting, Changing text case, Superscript and Subscript Formatting paragraph – Indenting paragraphs, Aligning paragraphs, Font colour, highlighting, and background colour, Using bullets and numbering, Assigning colour, border and background to paragraph. Page formatting – setting up basic page layout using styles, Inserting page break, Creating header/footer and page numbers, Defining borders and backgrounds, Inserting images shapes, special characters in a document, Dividing page into columns, Formatting the shape or image. 	 Apply various text formatting options for the text, Demonstrate to format paragraphs – indent/align paragraphs, assign font colour, highlighting, and background colour, Assign number or bullets to the lists items Demonstrate to assign colour, border and background to paragraph Demonstrate the page formatting – set up basic page layout using styles, Insert page break, Create header/footer and page numbers Define borders and backgrounds Insert images, shapes, special characters in a document
4.	Create and work with tables	 Creating table in Word Processor Inserting row and column in a table Deleting rows and columns Splitting and merging tables Deleting a table Copying a table Moving a table. 	 Demonstrate and do the following in Word Processor: Create table, Insert and delete rows and column in a table, Split and merge tables, Delete a table, Copy or move from one location to another location of document.

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
5.	Use Print Options	 Printing options in Word Processor. Print preview, Controlling printing, Printing all pages, single and multiple pages. 	 Demonstrate to print the document, selected pages in the document Print the document with various options, Preview pages before printing.
6.	Understand and apply mail merge	Introduction to mail merge Concept of data source for mail merge.	 Demonstrate to print the letters using mail merge, Do the following to achieve Create a main document, Create the data source, Enter data in the fields, Merge the data source with main document, Edit individual document, Print the merged letter, Save the merged letter.

UNIT 4: ELECTRONIC SPREADSHEET

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Create a Spreadsheet	 Introduction to spreadsheet application Starting a spreadsheet Parts of a spreadsheet Worksheet – Rows and Columns, Cell and Cell Address, Range of cells – column range, row range, row and column range. 	 Start the spreadsheet, Identify the parts of Calc, Identify the rows number, column number, cell address, Define the range of cell, Identify row range, column range, row & column range
2.	Apply formula and functions in spreadsheet	 Different types of data, Entering data – Label, Values, Formula Formula, how to enter formula, Mathematical operators used in formulae, Simple calculations using values and operators, Formulae with cell addresses and operators, Commonly used basic functions in a spreadsheet – SUM, AVERAGE, MAX, MIN, Count Use of functions to do calculations. 	 Demonstrate to enter the text, numeric data in a cell, Identify the label, values and formula in the cell, Demonstrate to enter formula in a cell, Construct the formula using mathematical operators, Identify formulae with cell addresses and operators, Identify the correct syntax of formula, Use the basic functions to perform calculations on data.

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
3.	Format data in the spreadsheet	 Formatting tool, Use of dialog boxes to format values, Formatting a range of cells with 	 Identify the formatting tool, Demonstrate to use of dialog boxes to format values, Demonstrate to format range of
		decimal places, • Formatting a range of cells to be seen as labels,	cells with decimal places, • Demonstrate to format a range of cells to labels,
		 Formatting of a cell range as scientific, 	Demonstrate to format of a cell range as scientific,
		 Formatting a range of cells to display times, 	Demonstrate to format a range of cells to display time,
		 Formatting alignment of a cell range, 	Demonstrate to align cell data range,
		Speeding up data entry using the fill handle,	Demonstrate to createnumber series using fill handle,
		 Uses of fill handle to copy formulae. 	 Copy formula by dragging the formula using fill handle.
4.	Understand and apply Referencing	Concept of referencing,Relative referencing,Mixed referencing,Absolute referencing.	 Demonstrate to use Relative referencing in spreadsheet, Demonstrate to use Mixed referencing in spreadsheet, Demonstrate to use Absolute referencing in spreadsheet.
5.	Create and insert different types of charts in a spreadsheet	Importance of chart in spreadsheetTypes of chart	 Create different types of charts supported by a spreadsheet, Illustrate the example of chart in a spreadsheet.

UNIT 5: DIGITAL PRESENTATION

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Understand features of an effective presentation	 Concept of presentation, Elements of presentation, Characteristics of an effective presentation 	 Identify and list the elements of presentation, List the characteristics of an effective presentation.
2.	Create a presentation	 Introduction to presentation software, Opening a presentation software Parts of presentation window, Closing a presentation Creating a presentation using template, Selecting slide layout, Saving a presentation, Running a slide show, Save a presentation in PDF, Closing a presentation, Using Help. 	 Start the presentation application various components of main Impress window Observe the different workspace views. Create a new presentation using wizard. Run the presentation, Save the presentation, Close the presentation, Demonstrate to use Help in presentation.

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
3.	Work with slides	 Inserting a duplicate slide, Inserting new slides, Slide layout, Copying and moving slides, Deleting and renaming slides Copying, moving and deleting contents of slide, View a presentation, Controlling the size of the view, Workspace views – Normal, Outline, Notes, Slide sorter view. 	 Demonstrate to insert a new slide and duplicate slide in a presentation, Change the slide layout, Demonstrate to copy and move slides in the presentation, Demonstrate to copy, move and delete contents of the slide, Demonstrate to view a presentation in different views.
4.	Format text and apply animations	 Formatting toolbar, Various formatting features, Text alignment, Bullets and numbering. Custom Animation 	 Identify and list the various options in formatting toolbar, Apply the appropriate formatting option Align the text in presentation, Apply bullets and numbering to the list items in presentation. □ Apply Animation
5.	Create and use tables	 Inserting tables in presentation, Entering and editing data in a table, Selecting a cell, row, column, table, Adjusting column width and row height, Table borders and background 	 Demonstrate the following: Insert table in presentation, Enter and edit data in a table, Select a cell, row, column, table, Adjust column width and row height, Assign table borders and background.
6.	Insert and format image in presentation	 Inserting an image from a file, Inserting an image from the gallery, Formatting images, Moving images, Resizing images, Rotating images, Formatting using the Image toolbar, Drawing graphic objects – line, shapes, Grouping and un-grouping objects 	 Demonstrate to insert an image from file, gallery in presentation, Apply formatting options to image in presentation, Demonstrate to move, resize and rotate images, Apply formatting options of Image toolbar, Drawing line, shapes using graphic objects, Demonstrate to group and ungroup objects.
7.	Work with slide master	 Slide masters, Creating the slide masters, Applying the slide masters to all slide, Adding transitions. 	 Create the slide masters, Apply the slide masters to the presentation, Add transitions to presentation.

LIST OF EQUIPMENT/ MATERIALS:

The list given below is suggestive and an exhaustive list should be compiled by the teacher(s) 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 & Black)	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 –Libre Office	
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

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

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:

(i) 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 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

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;
- · Organization of activities for promotion of vocational subjects;
- Involvement in placement of students/student support services.



Doon School Srinagar

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SYLLABUS BREAKUP – 2025/ 2026

[Grade: IX]

SOCIAL SCIENCE

MARCH

CHAPTER/TOPIC		TEACHINGPERIODS	
THE FRENCH REVOLUTION 30		30	
INDIA SIZE AN	ND LOCATION		
WHAT IS DEM	IOCRACY WHY DEMOCRACY		
	✓ French Society during the late 18 th century		
1 ST WEEK	✓ Outbreak of French revolution		
1 WEEK	✓ Location and Size of India		
✓ Features of Democracy			
	✓ France Abolished Monarchy and Becomes Republic		
2 ND WEEK	✓ India and the World		
2 WEEK	✓ Overview of Democracy		
	✓ Abolition of Slavery		
3 RD WEEK	✓ India and its Neighbors		
→ Outcomes of French Revolution			
	✓ The Revolution and Everyday Life		
4 TH WEEK	✓ Map Work of India size and Location		
4 WEEK	✓ Democratic Setup in World		

APRIL

CHAPTER/TOP	CHAPTER/TOPIC TEACHINGPERIODS	
NAZISM AND I	NAZISM AND RISEW OF HITLER 25	
PHYSICAL FEA	ATURES OF INDIA	
	✓ Rise of Adolf Hitler	
1 ST WEEK	✓ Various Physiographic divisions of India	
	✓ Outbreak of World War I	
	✓ Treaty of Versailles	
2 ND WEEK	Formation of Northern Plains and Himalayan Mountain's	
	·	
3 RD WEEK	REVISION	
4 TH WEEK	PRE-MID EXAMINATION	

MAY

CHAPTER/TOPIC		TEACHING PERIODS
PHYSICAL FEATURES OF INDIA		30
CONSTITUTIONAL DESIGN		
NAZISM AND O	OF HITLER (continue)	
	✓ Enabling Act of 1933	
1 ST WEEK	✓ Establishment of Democracy	
1 WEEK	✓ Making of Indian Constitution	
	✓ Formation Peninsula Plateau	

2 ND WEEK	 ✓ Features of Nazism ✓ Nazi Cult of Motherhood ✓ Apartheid in South Africa ✓ Island groups of India
3 RD WEEK	 ✓ Outbreak of world war II ✓ Making of South African Constitution ✓ Indian Desert
4 TH WEEK	 ✓ Cold War ✓ Difference Between Island and Peninsula Plateau ✓ Ideals of Indian Constitutions
5 TH WEEK	 ✓ Downfall of Adolf Hitler ✓ Map Work ✓ Preamble of India

JUNE

001,2		
CHAPTER/TOPIC		TEACHING PERIODS
DRAINAGE		18
ELECTORIAL POLITICS		
STORY OF VIL	LAGE PALAMPUR	
	✓ Drainage. Water divide, Types of Drainage in India	
1 ST WEEK	✓ Elections and Steps of Election in India	
	✓ Modern Amenities in Palampur Village	
2 ND WEEK	✓ Himalayan rivers and Peninsular Rivers of India	
3 RD WEEK	REVISION	
4 TH WEEK	MID-TERM EXAMINATION	

JULY

CHAPTER/TOPIC TEACHING PERIODS		TEACHING PERIODS	
SOCIALISM IN	EUROPE AND RUSSIAN REVOLUTION	15	
ELECTORIAL I	ELECTORIAL POLITICS (Continue)		
DRAINAGE (Co	ntinue)		
1 ST WEEK	MID-TERM EXAMINATION		
	✓ Causes of Russian Revolution		
2 ND WEEK	✓ Prepositional Representation		
	✓ Map Work		
	✓ February Revolution and October Revolution		
3 RD WEEK	3 RD WEEK ✓ Election manifesto		
	✓ Election petition		
4 TH WEEK	✓ April Thesis of Lenin		
✓ West Flowing Rivers of India			
5 th WEEK	SUMMER BREAKS		

AUGUST

CHAPTER/TOPIC		TEACHING PERIODS
SOCIALISM IN EUROPE AND RUSSIAN REVELOUTION(Continue)		30
PEOPLE AS A RESOURCE		
DRAINGE(Cont	inue)	
	✓ Provisional Governments	
1 ST WEEK	✓ Collectivization of Stalin	
	✓ West Flowing Rivers of India	
2 ND WEEK	✓ Human resources	
2 WEEK	✓ Civil war in Russia	

	✓ Map work of Narmada and Godavari River
	✓ Economic Activities by Men and women
3 RD WEEK	✓ Quality of Population
	✓ Formation Of USSR
	✓ Unemployment and its Types
4 TH WEEK	✓ Overview Of Resources
	✓ Introduction Climate and its Difference

SEPTEMBER

CHAPTER/TOPIC		TEACHING PERIODS
CLIMATE		14
POVERTY AS CHALLENGE		
RUSSIAN REVO	RUSSIAN REVOLUTION	
	✓ Global Impact of Russian Revolution	
1 ST WEEK	✓ Two typical cases of poverty	
1 WEEK	✓ Causes of Poverty	
	✓ Elements of Weather and Climate of India	
2 ND WEEK	✓ Factors Influencing Indian climate	
Z WEEK	✓ Cold Weather Season and Hot Weather Season	
3 RD WEEK	REVISION	
4 TH WEEK	POST-MID EXAMINATION	

OCTOBER

CHAPTER/TO	PIC	TEACHING PERIODS
NATURAL VE	ATURAL VEGETATION AND WILDLIFE 30	
FOREST SOCI	ETY AND COLONIALISM (PRESENTATION)	
DEMOCTARIO	CRIGHTS	
	✓ Distribution of Natural vegetation of India	
1 ST WEEK	✓ Rights In a Democracy	
1 WEEK	✓ Rights in Indian Constitution	
	✓ Expanding Scope Of Rights	
	✓ Types of forests	
2 ND WEEK	✓ Life without rights	
	✓ Evergreen forests	
	✓ Tropical evergreen forests of India	
3 RD WEEK	✓ Rights and duties	
	✓ Project on forest society and colonialism	
	(
4 TH WEEK	✓ Distribution of wildlife of India	
T WEEK	✓ Why rights and duties are called the two sides of a coin	
	✓ Conservation of natural vegetation and wildlife of India	a

NOVEMBER

CHAPTER/TOPIC		TEACHING PERIODS
PROJECT WORK AND PRACTICE OF MAPS		15
1 ST WEEK	Map work of India and the world Projects on Various Essentials topics which have National Significance.	
2 ND WEEK	REVISION	
3 RD WEEK	FINAL TERM EXAMINATION	
4 TH WEEK	FINAL TERM EXAMINATION	

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

ARTIFICIAL INTELLIGENCE (SUB. CODE 417)

CLASS - IX

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. Revisiting AI domains, project cycle and Ethics
- 5. Introducing the learners to the importance of Math for AI, data literacy and generative AI
- 6. Introducing the learners to programming skills Basic python coding language.

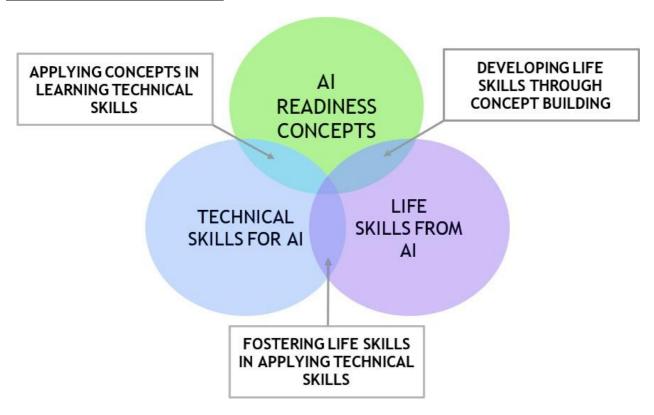
LEARNING OUTCOMES:

Learners will be able to

- Identify and appreciate Artificial Intelligence and describe its applications in daily life.
- 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.
- 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 types of modeling.
- 15. Understand the importance of Math for Al.
- 16. Learn the concept of data literacy and generative Al
- 17. Acquire introductory Python programming skills in a very user-friendly format.

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 IX opting for skill subject along with other education subjects.

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

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

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

	UNITS	for The	HOURS ory and ctical	MAX. MARKS for Theory and Practical
	Employability Skills			
	Unit 1: Communication Skills-I	1	0	2
<	Unit 2: Self-Management Skills-I	1	0	2
R	Unit 3: ICT Skills-I	1	0	2
PAR	Unit 4: Entrepreneurial Skills-I	1	5	2
	Unit 5: Green Skills-I	C	5	2
	Total	5	0	10
	Subject Specific Skills		T	
		Theory	Practical	
m	Unit 1: Al Reflection, Project Cycle and Ethics	30	25	10
<u> </u>	Unit 2: Data Literacy	22	28	10
AR	Unit 3: Math for AI (Statistics & Probability)	12	13	07
Δ.	Unit 4: Introduction to Generative AI	08	12	05
	Unit 5: Introduction to Python	01	09	08
	Total	10	60	40
	Practical Work			
	Unit 5: Introduction to Python Practical File (minimum 15 programs)			15
PARTC	 Practical Examination Simple programs using input and output function Variables, Arithmetic Operators, Expressions, Data Types Flow of control and conditions Lists * Any 3 programs based on the above topics 			15
	Viva Voce			5
	Total			35
PART D	Project Work / Field Visit / Student Portfolio * relate it to Sustainable Development Goals			15
P	Total			15
	GRAND TOTAL	2.	10	100

DETAILED CURRICULUM/TOPICS FOR CLASS IX:

PART-A: EMPLOYABILITY SKILLS

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

NOTE: Detailed curriculum/ topics to be covered under Part A: Employability Skills can be downloaded from CBSE website.

PART-B - SUBJECT SPECIFIC SKILLS

- Unit 1: Al Reflection, Project Cycle and Ethics
- Unit 2: Data Literacy
- Unit 3: Math for AI (Statistics & Probability)
- Unit 4: Introduction to Generative AI
- Unit 5: Introduction to Python

UNIT 1: AI REFLECTION, PROJECT CYCLE AND ETHICS

SUB-UNIT	LEARNING OUTCOMES	SESSION / ACTIVITY / PRACTICAL
Al Reflection	To identify and appreciate Artificial Intelligence and describe its applications in daily life.	Session: Introduction to AI and setting up the context of the curriculum Recommended Activity: Make a statement about lighting and LUIS will interpret and adjust the house accordingly https://aidemos.microsoft.com/luis/demo
	To recognize, engage and relate with the three realms of AI: , Computer Vision, Data Statistics and Natural Language Processing.	 Recommended Activity: The AI Game Learners to participate in three games based on different AI domains. Game 1: Rock, Paper and Scissors (based on data) https://next.rockpaperscissors.ai/ Game 2: Semantris (based on Natural Language Processing - NLP) https://research.google.com/semantris/ Game 3: Quick Draw (based on Computer Vision - CV) https://quickdraw.withgoogle.com/

SUB-UNIT	LEARNING OUTCOMES	SESSION / ACTIVITY / PRACTICAL
AI PROJECT CYCLE	Identify the AI Project Cycle framework.	Session: Introduction to AI Project Cycle Problem Scoping Data Acquisition Data Exploration Modeling Evaluation Deployment
	Learn problem scoping and ways to set goals for an Al project.	Session: Problem Scoping Activity: Brainstorm around the theme provided and set a goal for the Al project. Discuss various topics within the given theme and select one. Fill in the 4Ws problem canvas and a problem statement to learn more about the problem identified in the community/ society List down/ Draw a mind map of problems related to the selected topic and choose one problem to be the goal for the project.
	Identify stakeholders involved in the problem scoped. Brainstorm on the ethical issues involved around the problem selected.	 Activity: To set actions around the goal. List down the stakeholders involved in the problem. Search on the current actions taken to solve this problem. Think around the ethics involved in the goal of your project.
	Understand the iterative nature of problem scoping for in the Al project cycle. Foresee the kind of data required and the kind of analysis to be done.	 Activity: Data and Analysis What are the data features needed? How will the features collected affect the problem? Where can you get the data? How frequent do you have to collect the data? What happens if you don't have enough data? What kind of analysis needs to be done? How will it be validated? How does the analysis inform the action?
	Share what the students have discussed so far.	Presentation: Presenting the goal, actions and data. Teamwork Activity: Brainstorming solutions for the problem statement.
	Identify data requirements and find reliable sources to obtain relevant data.	Session: Data Acquisition Activity: Introduction to data and its types. Students work around the scenarios given to them and think of ways to acquire data. Activity: Data Features Identifying the possible data features affecting the problem. Activity: System Maps Creating system maps considering data features identified.

SUB-UNIT	LEARNING OUTCOMES	SESSION / ACTIVITY / PRACTICAL
	To understand the purpose of Data Visualisation	Session: Data Exploration/ Data Visualisation
	Use various types of graphs to visualise acquired data.	Recommended Activities: Let's use Graphical Tools Selecting an appropriate graphical format and presenting the graph sketched. Understanding graphs using https://datavizcatalogue.com/ Listing of newly learnt data visualization techniques. Top 10 Song Prediction: Identify the data features, collect the data and convert into graphical representation. Collect and store data in a spreadsheet and create some graphical representation to understand the data effectively.
	Understand modeling (Rule- based & Learning-based)	Session: Modeling Introduction to modeling and types of models (Rule-based & Learning-based)
	Understand various evaluation techniques.	Session: Evaluation Learners will understand about new terms True Positive False Positive True Negative False Negative
	Challenge students to think about how they can apply their knowledge of deployment in future AI projects and encourage them to continue exploring different deployment methods.	Session: Deployment Recommended Case Study: Preventable Blindness. Activity: Implementation of AI project cycle to develop an AI Model for Personalized Education.
	To understand and reflect on the ethical issues around AI.	Session: Ethics Video Session: Discussing about Al Ethics Recommended Activity: Ethics Awareness Students play the role of major stakeholders, and they have to decide what is ethical and what is not for a given scenario. Students to explore Moral Machine (https://www.moralmachine.net/) to understand more about the impact of ethical concerns
	To gain awareness around AI bias and AI access.	 Session: Al Bias and Al Access Discussing about the possible bias in data collection Discussing about the implications of Al technology

SUB-UNIT	LEARNING OUTCOMES	SESSION / ACTIVITY / PRACTICAL
	To let the students analyse the advantages and disadvantages of Artificial Intelligence.	 Recommended Activity: Balloon Debate Students divide in teams of 3 and 2 teams are given same theme. One team goes in affirmation to AI for their section while the other one goes against it. They have to come up with their points as to why AI is beneficial/ harmful for the society.

UNIT 2: DATA LITERACY:

SUB-UNIT	LEARNING OUTCOMES	SESSION / ACTIVITY / PRACTICAL
Basics of data literacy	 Define data literacy and recognize its importance Understand how data literacy enables informed decision-making and critical thinking Apply the Data Literacy Process Framework to analyze and interpret data effectively Differentiate between Data Privacy and Security Identify potential risks associated with data breaches and unauthorized access. Learn measures to protect data privacy and enhance data security 	Session: Basics of data literacy Introduction to Data Literacy Impact of data Literacy How to become Data Literate? What are data security and privacy? How are they related to AI? Best Practices for Cyber Security Recommended Activity: Impact of News Articles Reference Videos: https://www.youtube.com/watch?v =yhO_t-c3yJY https://www.youtube.com/watch?v =aO858HyFbKI https://www.cbse.gov.in/cbsenew/documents/Cyber%20Safety.pdf
Acquiring Data, Processing, and Interpreting Data	 Determine the best methods to acquire data. Classify different types of data and enlist different methodologies to acquire it. Define and describe data interpretation. Enlist and explain the different methods of data interpretation. Recognize the types of data interpretation. Realize the importance of data interpretation 	Session: Acquiring Data, Processing, and Interpreting Data
Project Interactive Data Dashboard & Presentation	Recognize the importance of data visualization Discover different methods of data visualization	Session: Project Interactive Data Dashboard & Presentation • Data visualization Using Tableau Reference Links • https://public.tableau.com/en-us/s/download • https://www.datawrapper.de/ Video Links: • https://www.youtube.com/watch?v=NLCzpPRCc7U • https://www.youtube.com/watch?v=M 8BnosAD78

UNIT 3: MATH FOR AI (Statistics & Probability)

SUB-UNIT	LEARNING OUTCOMES	SESSION / ACTIVITY / PRACTICAL
Importance of Math for AI	Analyzing the data in the form of numbers/images and find the relation/pattern between the them. Use of Math in Al.	Session: Importance of Math for AI Finding Patterns in Numbers and images. Uses of Math - Statistics Linear Algebra Probability Calculus
	Number Patterns Picture Analogy	 Activity: observe the number pattern and find the missing number. To find connections between sets of images and use that to solve problems,
Statistics	Understand the concept of Statistics in real life.	Session: Definition of Statistics Applications Disaster Management Sports Diseases Prediction Weather Forecast
	Application in various real life scenarios	 Activity: Uses of Statistics in daily life Students will explore the applications of statistics in real life .They collect data and can apply various statistical measures to analyze the data. Activity:Car Spotting and Tabulating Purpose:To implement the concept of data collection , analysis and interpretation. Activity Introduction: In this activity, Students will be engaged in data collection and tabulation. Data collection plays a key role in Artificial Intelligence as it forms the basis of statistics and interpretation by AI. This activity will also require students to answer a set of questions based on the recorded data.
Probability	Understand the concept of Probability in real life and explore various types of events.	 Session: Introduction to Probability How to calculate the probability of an event Types of events understand the concept of Probability using a relatable example. Exercise: Identify the type of event.
	Application in various real-life scenarios	Session: Applications of Probability

UNIT 4: INTRODUCTION TO GENERATIVE AI:

LEARNING OUTCOMES	SESSION / ACTIVITY / PRACTICAL
Students will be able to define Generative AI & classify different kinds.	Recommended Activity: • Activity: Guess the Real Image vs. the Al-generated image
Students will be able to explain how Generative AI works and recognize how it learns.	Session: Introduction to Generative AI Generative AI vs Conventional AI Session: Types of Generative AI Examples of Generative AI
 Applying Generative AI tools to create content. Understanding the ethical considerations of using Generative AI. 	Session: Benefits of using Generative AI Limitations of using Generative AI Recommended Activities: Hands-on Activity: GAN Paint Generative AI tools Session: Ethical considerations of using Generative AI

UNIT 5: INTRODUCTION TO PYTHON:

LEARNING OUTCOMES	SESSION / ACTIVITY / PRACTICAL
Learn basic programming skills through gamified platforms.	Recommended Activity: Introduction to programming using Online Gaming portals like Code Combat.
Acquire introductory Python programming skills in a very user-friendly format.	Session: Introduction to Python language Introducing python programming and its applications
	 Theory + Practical: Python Basics Students go through lessons on Python Basics (Variables, Arithmetic Operators, Expressions, Comparison Operators, logical operators, Assignment Operators, Data Types - integer, float, strings, type conversion, using print() and input() functions) Students will try some simple problem-solving exercises on Python Compiler.
	Practical: Flow of control and conditions 1. Students go through lessons on conditional and iterative statements (if, for and while) 2. Students will try some basic problem-solving exercises using conditional and iterative statements on Python Compiler.
	Practical: Python Lists 3. Students go through lessons on Python Lists (Simple operations using list) 4. Students will try some basic problem-solving exercises using lists on Python Compiler.

PART-C: PRACTICAL WORK

UNIT 5: INTRODUCTION TO PYTHON: Suggested Program List

PRINT

- To print personal information like Name, Father's Name, Class, School Name.
- To print the following patterns using multiple print commands-



- To find square of number 7
- To find the sum of two numbers 15 and 20.
- To convert length given in kilometers into meters.
- To print the table of 5 up to five terms.
- To calculate Simple Interest if the principle_amount = 2000 rate_of_interest =
 4.5 time = 10

INPUT

- To calculate Area and Perimeter of a rectangle
- To calculate Area of a triangle with Base and Height
- To calculating average marks of 3 subjects
- To calculate discounted amount with discount %
- To calculate Surface Area and Volume of a Cuboid

LIST

- Create a list in Python of children selected for science quiz with following names- Arjun, Sonakshi, Vikram, Sandhya, Sonal, Isha, Kartik
 Perform the following tasks on the list in sequence-
 - Print the whole list
 - Delete the name "Vikram" from the list
 - Add the name "Jay" at the end
 - Remove the item which is at the second position.
- Create a list num=[23,12,5,9,65,44]
 - print the length of the list
 - print the elements from second to fourth position using positive indexing
 - print the elements from position third to fifth using negative indexing
- Create a list of first 10 even numbers, add 1 to each list item and print the final list.
- Create a list List_1=[10,20,30,40]. Add the elements [14,15,12] using extend function. Now sort the final list in ascending order and print it.

IF,	FOR,
W	HILE

- Program to check if a person can vote
- To check the grade of a student
- Input a number and check if the number is positive, negative or zero and display an appropriate message
- To print first 10 natural numbers
- To print first 10 even numbers
- To print odd numbers from 1 to n
- To print sum of first 10 natural numbers
- Program to find the sum of all numbers stored in a list

Important Links

- https://drive.google.com/drive/folders/1qRAckDculA5i164OUFDlilxb8mT65MMb

PART-D: Project Work / Field Visit / Student Portfolio

* relate it to Sustainable Development Goals

Suggested Projects/ Field Visit / Portfolio (Any one has to be done)

Suggested Projects

- 1. Create an Al Model using tools like-
 - Teachable Machine (https://teachablemachine.withgoogle.com/)
 - Machine Learning For Kids (https://machinelearningforkids.co.uk/)
- 2. Choose an issue that pertains to the objectives of sustainable development and carry out the actions listed below.
 - To understand more about the problem identified, create a 4Ws problem canvas.
 - Identify the data features and create a system map to understand relationship between them
 - Visualize the data collected graphically (Spreadsheet software to be used store and visualize the data)
 - Suggest an AI enabled solution to it (Prototype/Research Work)

Suggested Field Visit

Visit to an industry or IT company or any other place that is creating or using AI applications and present the report for the same. Visit can be on physical or virtual mode.

Suggested Student Portfolio

Maintaining a record of all AI activities and projects (For Example Letter to Future self, Smart Home Floor Plan, Future Job Advertisement, Research Work on AI for SDGs and AI in Different Sectors, 4Ws canvas, System Map). (Minimum 5 Activities)

LIST OF ITEMS/ EQUIPMENTS (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/Al-installation-guide)
7	Intel Open VINO tools
8	Python

NOTE: 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:

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

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:

(i) 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 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.

^{*} 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.

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

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 & 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 & 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;
- Organization of activities for promotion of vocational subjects;
- Involvement in placement of students/student support services