

**BASAVA INTERNATIONAL SCHOOL
 SYLLABUS BREAKUP SESSION 2021-22
 SUBJECT: BIOLOGY, CLASS: XII
 BOOK: NCERT TEXTBOOK BIOLOGY
 TERM – I AND TERM II**

S.NO.	MONTH	CHAPTERS – TERM I	PRACTICAL
1	APRIL	Chapter-2: Sexual Reproduction in Flowering Plants	
2	MAY	Chapter-3: Human Reproduction	
3	JUNE	Chapter-4: Reproductive Health	Experiment No. - 3
4	JULY	Chapter-5: Principles of Inheritance and Variation	Experiment No. – 4, 5
5	AUGUST	Chapter-6: Molecular Basis of Inheritance	B.6, 7, 8
6	SEPTEMBER	EXAM (UNIT TEST2)	
7	OCTOBER	REVISION	
8	NOVEMBER	REVISION	
		TERM II	
9	DECEMBER	Chapter-8: Human Health and Diseases Chapter-10: Microbes in Human Welfare	
10	JANUARY	Chapter-11: Biotechnology - Principles and Processes Chapter-12: Biotechnology and its Application	Experiment No. - 3 Experiment No. – 4, 5
11	FEBRUARY	Chapter-13: Organisms and Populations Chapter-15: Biodiversity and its Conservation	B.6, 7, 8
12	MARCH	REVISION	

A List of Experiments

TERM - I:

1. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.
2. Prepare a temporary mount to observe pollen germination.

TERM - II:

3. Prepare a temporary mount of onion root tip to study mitosis.
4. Collect water from two different water bodies around you and study them for pH, clarity and presence of any living organism
5. Collect and study soil from at least two different sites and study them for texture, moisture content, pH and water holding capacity. Correlate with the kinds of plants found in them.

B. Study/observation of the following (Spotting)

TERM - I:

- B.1 Flowers adapted to pollination by different agencies (wind, insects, birds).
- B.2 Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).
- B.3 Meiosis in onion bud cell or grasshopper testis through permanent slides.
- B.4 T.S. of blastula through permanent slides (Mammalian).
- B.5 Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colourblindness.

TERM – II:

- B.6 Common disease - causing organisms like *Ascaris*, *Entamoeba*, *Plasmodium*, any fungus causing ringworm through permanent slides, models or virtual images. Comment on symptoms of diseases that they cause.
- B.7 Two plants and two animals (models/virtual images) found in xeric conditions. Comment upon their morphological adaptations.
- B.8 Two plants and two animals (models/virtual images) found in aquatic conditions. Comment upon their morphological adaptations.

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TERM - 1**

TERM - II

S.NO.	MONTH	CHAPTER	PRACTICAL
1	APRIL	Chapter-1: The Living World	
2	MAY	Chapter-2: Biological Classification	Experiment No. - 1
3	JUNE	Chapter-3: Plant Kingdom, Chapter-4: Animal Kingdom	Experiment No. - 2
4	JULY	Chapter-5: Morphology of Flowering Plants	Spotting 1,2,3
5	AUGUST	Chapter-7: Structural Organization in Animals	PROJECT WORK
6	SEPTEMBER	Chapter-8: Cell-The Unit of Life	
7	OCTOBER	Chapter-9: Biomolecules REVISION	
8	NOVEMBER	REVISION	

Term-2

1	DECEMBER	Chapter-10: Cell Cycle and Cell Division Chapter-13: Photosynthesis in Higher Plants Chapter-14: Respiration in Plants	Experiment No. -3, 4
2	JANUARY	Chapter-15: Plant - Growth and Development Chapter-20: Locomotion and	Experiment No. - 5, 6, 7

		Movement Chapter-21: Neural Control and Coordination	
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BASAVA INTERNATIONAL SCHOOL
Syllabus (split-up) for session 2021-22

Subject- Chemistry

Class- XI

Term-1

MONTH	UNIT/CHAPTER NO.	NAME OF THE CHAPTER
April-May	1	Some basic concepts of Chemistry
June	2	Structure of atom
July	3	Chemical bonding and molecular structure
	8	Redox reactions
August	9	Hydrogen
	4	Chemical bonding and molecular structure
September	Revision and September exams	
October	4	Chemical bonding and molecular structure(continued)
	12	Organic chemistry- Some basic principles and techniques

Term-2

MONTH	UNIT/CHAPTER NO.	NAME OF THE CHAPTER
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November	13	Hydrocarbons
December	13	Hydrocarbons(continued)
	10	The s-block elements
January	11	The p-block elements
	5	States of matter
February	6	Thermodynamics
	7	Equilibrium
March	Revision and exams	

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Subject- Chemistry

Class- XII

Term-1

MONTH	UNIT/CHAPTER NO.	NAME OF THE CHAPTER
April	1	Solid state
	2	Solutions
May	2	Solutions(continued)
June	10	Haloalkanes and haloarenes
July	10	Haloalkanes and haloarenes(continued)
	7	The p-block elements
August	7	The p-block elements(continued)
	15	Biomolecules

September	Revision and September exams	
October	11	Alcohol, phenols and ethers

Term-2

MONTH	UNIT/CHAPTER NO.	NAME OF THE CHAPTER
November	Revision and exams	
December	12	Aldehydes, ketones and carboxylic acids
	13	Amines
January	3	Electrochemistry
	4	Chemical kinetics
	5	Surface chemistry
February	8	The d and f-block elements
	9	Coordination compounds
March	Revision and exams	

BASAVA INTERNATIONAL SCHOOL

Syllabus (split-up) for session 2021-22

Subject- PHYSICS

Class- XI

Term-1

MONTH	UNIT/CHAPTER NO.	NAME OF THE CHAPTER
April-May	1-2	PHYSICS WORLD(1), UNITS AND MEASUREMENT(2)

June	3	MOTION IN A STRAIGHT LINE
July	4-5	MOTION IN A STRAIGHT LINE(4)- LAWS OF MOTION(5)
August	6	WORK, ENERGY, POWER
September	Revision and September exams	
October	7	SYSTEM OF PARTICLES & ROTATIONAL MOTION
	8	GRAVITATION

Term-2

MONTH	UNIT/CHAPTER NO.	NAME OF THE CHAPTER
November	9-10	Mechanical properties of solid(9)—fluids(10)
December	11	Thermal properties of matter
	12	Thermodynamics
January	13	Kinetic theory of gases
	14	Oscillations
February	15	Waves.
March	Revision and exams	

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S.NO.	MONTH	CHAPTERS – TERM I	PRACTICAL
1	APRIL	Chapter-1: ELECTROSTATIC CHARGES & FIELDS.	
2	MAY	Chapter-2: ELECTRIC POTENTIAL & CAPACITOR	EXP-1 EXP-2
E	JUNE	Chapter-3: CURRENT & ELECTRICITY	EXP-3 EXP-4 EXP5
4	JULY	Chapter-4: MOVING CHARGES & MAGNETISM. Chapter-5: Magnetism & Matter. Chapter-6: E.M.I.	EXP-7
5	AUGUST	Chapter-7: A.C Chapter-8: E.M.WAVES.	EXP-8
6	SEPTEMBER	EXAM (UNIT TEST2)	
7	OCTOBER	REVISION	
8	NOVEMBER	REVISION	
		TERM II	
9	DECEMBER	Chapter-9: RAY OPTICS	EXP-9 EXP-10

		Chapter-10: WAVE OPTICS Chapter-11: Dual nature of matter & radiation	
10	JANUARY	Chapter-12: ATOMS Chapter-13: NUCLEI Chapter-14: SEMICONDUCTOR	EXP-11 EXP-12
11	FEBRUARY	REVISION	
12	MARCH	REVISION	