



FOR GOD AND COUNTRY

ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution
Syllabus planning for the Academic Year 2020



TEACHERS' NAMES: Ms. Nilanjana Bhadra and Ms. Piyali Halder
CLASS: IX SECTION: A, B, C & D

TERM: FIRST
SUBJECT: PHYSICS

NO. OF WORKING DAYS: 75

NO. OF PERIODS AVAILABLE: 24.

| MONTH | NO. OF PERIODS | LESSONS | TOPICS COVERED | HOME WORK | CLASS WORK |
|----------|----------------|---|--|---|---|
| JANUARY | 10 | CHAPTER – 1 SYSTEM OF MEASUREMENTS AND MEASURING DEVICES | CONCEPT OF MEASUREMENT, PHYSICAL QUANTITY, UNITS, DIMENSIONS, MEASURING DEVICES AND ERROR CALCULATIONS. | OBJECTIVE TYPE QUESTIONS SYSTEM OF MEASUREMENTS AND MEASURING DEVICES. | REF BK : OBJECTIVE TYPE QUESTIONS ; NUMERICALS FROM SYSTEM OF MEASUREMENTS AND MEASURING DEVICES; DISCUSSION OF ANSWERING THE QUESTION PATTERN (MCQ, VSQ, SAQ, LAQ) |
| FEBRUARY | 08 | CHAPTER 2. FORCE AND MOTION INCLUDING NEWTON'S LAWS OF MOTION | EQUATION OF MOTION ,NEWTON'S LAWS OF MOTION AND THEIR PRACTICAL EXAMPLES, FORCE LAWS OF PARALLELOGRAM OF FORCES DIFFERENT TYPES OF INERTIA MOMENTUM AND COLLISIONS | OBJECTIVE TYPE QUESTIONS SYSTEM OF FORCE AND MOTION. | REF BK : OBJECTIVE TYPE QUESTIONS ; OBJECTIVE TYPE QUESTIONS AND SHORT QUESTIONS FROM FORCE AND MOTION. |
| MARCH | 06 | CHAPTER 2. . FORCE AND MOTION INCLUDING NEWTON'S LAWS OF MOTION CONTD. CHAPTER 5.WORK, POWER AND ENERGY. PROJECT – DATE OF SUBMISSION FOR FIRST TERM PROJECT-12 TH MARCH 2020 TOPIC OF PROJECT- STATES OF MATTER. | EQUATION OF MOTION ,NEWTON'S LAWS OF MOTION AND THEIR PRACTICAL EXAMPLES, FORCE LAWS OF PARALLELOGRAM OF FORCES DIFFERENT TYPES OF INERTIA WORK AND ITS FORMULAS POWER | OBJECTIVE TYPE QUESTIONS AND SHORT QUESTIONS FROM FORCE AND MOTION. | OBJECTIVE TYPE QUESTIONS AND SHORT QUESTIONS FROM FORCE AND MOTION. |
| APRIL | 02 | <u>FIRST TERM EXAM STARTS FROM 15.4.2020</u> SYLLABUS FOR FIRST TERM : CHAPTER 1.SYSTEM OF MEASUREMENTS AND MEASURING DEVICES; CHAPTER 2.FORCE AND MOTION INCLUDING NEWTON' S LAWS OF MOTION; CHAPTER 5. WORK, POWER AND ENERGY. | <u>REVISION</u> | <u>REVISION</u> THINGS TO DO MULTIPLE CHOICE QUESTIONS –A VERY SHORT ANSWER- B LONG ANSWER- D & E | <u>REVISION</u> OBJECTIVE TYPE QUESTIONS AND SHORT QUESTIONS . ANSWERING QUESTIONS FROM BACK OF THE CHAPTER |

TEACHERS ARE REQUESTED TO PREPARE A LESSON PLAN FOR EACH TOPIC TO BE TAUGHT. THE LESSON PLANS ARE TO BE SUBMITTED ALONG WITH THE MONTHLY PLANNER.

SUBMITTED ON: 27.01.2020
SIGNATURE OF TEACHERS:

Piyali Halder *Nilanjana Bhadra*

ACADEMIC CO-ORDINATOR

[Signature]

PRINCIPAL

VICE PRINCIPAL

[Signature]



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TEACHERS' NAMES: Ms.Nilanjana Bhadra and Ms.Piyali Halder

CLASS: IX

SECTION: A, B, C & D

TERM: SECOND

SUBJECT: PHYSICS

NO. OF WORKING DAYS: 51

NO. OF PERIODS AVAILABLE:30 (ESTIMATED)

| MONTH | NO. OF PERIODS | LESSONS | TOPICS COVERED | HOME WORK | CLASS WORK |
|--------|----------------|--|---|---|---|
| MAY | 06 | CHAPTER 3.PRESSURE OF LIQUID AND AIR | THRUST, ARCHIMEDES' PRINCIPLE, LAWS OF FLOATATION, DENSITY AND SURFACE TENSION, VISCOSITY | OBJECTIVE TYPE QUESTIONS AND SHORT QUESTIONS FROM PRESSURE OF LIQUIDS AND AIR | ANSWERING QUESTIONS FROM BACK OF THE CHAPTER |
| JUNE | 06 | CONTD. CHAPTER 3. PRESSURE OF LIQUID AND AIR | STREAMLINE FLOW, BERNOULLI'S THEOREM ELASTICITY, HOOKE 'S LAW , YOUNG'S MODULUS. | THINGS TO DO QUESTION A TO C MULTIPLE CHOICE -A VERY SHORT ANSWER -B SHORT ANSWER - C | OBJECTIVE TYPE QUESTIONS AND SHORT QUESTIONS . ANSWERING QUESTIONS FROM BACK OF THE CHAPTER. |
| JULY | 16 | CHAPTER -6.HEAT | HEAT, PRINCIPLE OF CALORIMETRY, SPECIFICHEAT, CHANGE OF STATE. | THINGS TO DO MULTIPLE CHOICE QUESTIONS -A VERY SHORT ANSWER- B LONG ANSWER- D & E | QUESTIONS A, B , C MULTIPLE CHOICE QUESTIONS REVISION |
| AUGUST | 06 | <u>SECOND TERM EXAM STARTS FROM 3.8.2020 SYLLABUS FOR SECOND TERM</u> CHAPTER3.PRESSURE OF LIQUID AND AIR; CHAPTER 2.FORCE AND MOTION INCLUDING NEWTON'S LAWS OF MOTION. | <u>REVISION</u> | <u>REVISION</u> NUMERICAL AND APPLICATIONS REF.BK: NUMERICAL, OBJECTIVES. | <u>REVISION</u> OBJECTIVE TYPE QUESTIONS AND SHORT QUESTIONS . ANSWERING QUESTIONS FROM BACK OF THE CHAPTER. |

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SUBMITTED ON : 27.01.2020

SIGNATURE OF TEACHERS :

Piyali Halder Nilanjana Bhadra

ACADEMIC CO-ORDINATOR

PRINCIPAL

VICE PRINCIPAL



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TEACHERS' NAMES: MS. NILANJANA BHADRA AND MS. PIYALI HALDER

CLASS: IX

SECTION: A, B, C & D

TERM: THIRD

SUBJECT: PHYSICS

NO. OF WORKING DAYS: 59

NO. OF PERIODS AVAILABLE: 30

| MONTH | NO. OF PERIODS | LESSONS | TOPICS COVERED | HOME WORK | CLASS WORK |
|-----------|----------------|--|--|---|---|
| SEPTEMBER | 16 | CHAPTER 6. HEAT CONTD. | SATURATED AND UNSATURATED VAPOURS; ANOMALOUS EXPANSION OF WATER | MULTIPLE CHOICE QUESTIONS -A VERY SHORT ANSWERS - B SHORT ANSWER- C | QUESTIONS D AND E (LONG ANSWER TYPE) |
| OCTOBER | 06 | CHAPTER 7. SOUND THE ENTIRE SYLLABUS IS COMPLETED. | NATURE OF SOUND, TYPES AND DIFFERENT TERMS ; REFLECTION OF SOUND; ULTRA SONIC AND INFRASONIC SOUND ; SOUND POLLUTION AND ITS PREVENTION. | THINGS TO DO MULTIPLE CHOICE QUESTIONS -A VERY SHORT ANSWER - B SHORT ANSWER TYPE -C | QUESTIONS D AND E (LONG ANSWER TYPE) |
| NOVEMBER | 04 | <u>THIRD TERM EXAM</u> <u>STARTS FROM</u> <u>15.11.20</u> SYLLABUS FOR THIRD TERM EXAM-WHOLE BOOK, ALL THE CHAPTERS. | REVISION OF ENTIRE SYLLABUS. EXAM | REVISION OF ENTIRE SYLLABUS. EXAM | REVISION OBJECTIVE TYPE QUESTIONS AND SHORT QUESTIONS ANSWERING QUESTIONS FROM BACK OF THE CHAPTER. EXAM |
| DECEMBER | | | | | |

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SUBMITTED ON: 27.01.2020

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Piyali Halder *Nilanjana Bhadra*

ACADEMIC CO-ORDINATOR

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