



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Syllabus Planner for the year 2019

TERM: FIRST TERM

TEACHER'S NAME: NANDINI CHATTERJEE, SOUMITRA MAITY

No. of working days:- 86

No. of periods available: 28(ESTIMATED)

Subject: PHYSICS

CLASS: X.

SECTION: . A,B,C,D

| MONTH    | NO. OF PERIODS | LESSONS  | TOPICS COVERED  | HOMEWORK   | CLASS WORK  |
|----------|----------------|--|---|--|---|
| JANUARY  | 10             | BEHAVIOUR OF GASES   | Boyle's law, Charles law,<br>Avogadro's law, Avogadro's number,<br>Ideal gas, Ideal gas equation,<br>Gay-Lussac's law,<br>Kinetic theory of gases | Objectives types questions from Behaviour of gases | Patterns and method of answering of MCQ, SAQ, LAQ, are given in the beginning of the term for each chapter in physics.<br>Numerical, diagrams, applications from Behaviour of gases<br>Ref bk : Numerical from Behaviour of gases |
| FEBRUARY | 05             | THERMAL PHENOMENA<br><br>FIRST PROJECT TOPIC given in the class<br>SURVEY CURRENT ELECTRICITY  | Thermal expansion – linear, superficial, volume   | Short Questions from Thermal Phenomena             | Explanation and applications from Thermal Phenomena<br><br>Instructions for writing the project is discussed in the class.  |
| MARCH    | 08             | THERMAL PHENOMENA contd.<br>" LAST DATE OF FIRST PROJECT<br>SUBMISSION ON PHYSICAL SCIENCE<br>15 <sup>th</sup> MARCH 2019                          | Thermal conductivity, Thermal resistivity   | Objectives types questions from Thermal Phenomena  | Numerical, applications from Thermal Phenomena<br>Ref bk : Questions from Thermal Phenomena   |
| APRIL    | 05             | REVISION OF BEHAVIOUR OF GASES, THERMAL PHENOMENA<br>FIRST TERM EXAM BEGINS FROM 9.04.2019<br>SECOND TERM STARTS FROM 26 <sup>th</sup> APRIL, 2019 | SYLLABUS OF FIRST TERM<br>BEHAVIOUR OF GASES, THERMAL PHENOMENA   |  | REVISION  |

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.

PRINCIPAL

Submitted on.....28/1/19.....

Signature of Teacher: Nandini Chatterjee Soumitra Maity

Nandini Chatterjee  
VICE PRINCIPAL

ACADEMIC COORDINATOR

Soumitra Maity  
6.2.19



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Syllabus Planner for the year 2019

TERM: . PRE-SELECTION

TEACHER'S NAME: NANDINI CHATTERJEE, SOUMITRA MAITY

No. of working days:- 70

No. of periods available: 30

Subject: PHYSICS

CLASS: X.

SECTION: A,B,C,D

| MONTH  | NO. OF PERIODS | LESSONS  | TOPICS COVERED   | HOMEWORK  | CLASS WORK  |
|--------|----------------|--|--|---|---|
| MAY    | 03             | LIGHT  | Reflection at spherical mirror – convex and concave<br>Refraction of light – laws, Laws of refraction<br>Refractive index<br>Deviation – glass slab and prism  | Ray diagrams from Light   | Patterns and method of answering of MCQ, SAQ, LAQ, are given in the beginning of the term for each chapter in physics.<br>Ray diagrams from Light |
| JUNE   | 09             | LIGHT contd.   | Lenses – convex and concave, relative terms<br>Human eye – structure and defects<br>Dispersion, Light wave, Scattering   | Ray diagrams from Light<br>Objectives types questions from Light                | Ray diagrams, applications from Light<br>Ref. bk. : Questions from Light  |
| JULY   | 11             | 29 <sup>th</sup> JULY-PRETEST STARTS<br>SYLLABUS FOR THE PRETEST : BEHAVIOUR OF GASES, THERMAL PHENOMENA, LIGHT, CURRENT ELECTRICITY (till Resistance) | Coulomb's law<br>Potential difference, emf<br>Ohm's law<br>Resistance, resistivity, conductance, conductivity<br>Series and parallel combination of Resistance | Short Questions from Current Electricity<br>Numericals from Current Electricity | Numericals and Short Questions from Current Electricity   |
| AUGUST | 07             | <u>THIRD TERM BEGINS</u><br>CURRENT ELECTRICITY contd.   | Heating effect of current<br>Power, power ratings<br>Electromagnetism, electromagnetic induction<br>Electric circuits  | Objectives types questions from Current Electricity                             | Diagrams, numerical, applications and derivations from Current Electricity<br>Ref bk : Numerical from Current Electricity                         |

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PRINCIPAL

Submitted on: 28/1/19

Signature of Teacher: Nandini Chatterjee, Soumitra Maity

VICE PRINCIPAL 13/2/19

ACADEMIC COORDINATOR 6.2.19



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Syllabus Planner for the year 2019

TERM: SELECTION

TEACHER'S NAME: . NANDINI CHATTERJEE, SOUMITRA MAITY

No. of working days:-.55

No. of periods available:23

Subject: PHYSICS

CLASS: X

SECTION: A,B,C,D

| MONTH     | NO. OF PERIODS | LESSONS  | TOPICS COVERED  | HOMEWORK   | CLASS WORK  |
|-----------|----------------|--|---|--|---|
| SEPTEMBER | 11             | ATOMIC NUCLEUS   | Radioactivity<br>Nuclear energy – fission and fusion                              | Short Questions from Atomic nucleus                    | Objective type questions from Atomic nucleus  |
| OCTOBER   | 07             | ATOMIC NUCLEUS<br><br>REVISION   | Nuclear hazards<br><br>Revision and doubt clearing<br>Revision and doubt clearing | Ref bk: Objectives types questions from Atomic nucleus | Ref bk : Short answer type questions from Atomic nucleus<br><br>Objective questions, SAQ, LAQ, Numericals, Applications, diagrams from other books and test papers.<br>Objective questions, SAQ, LAQ, Numericals, Applications, diagrams from other books and test papers |
| NOVEMBER  | 05             | SELECTION TEST STARTS FROM 4th NOV 2019<br>SYLLABUS FOR THE SELECTION : WHOLE BOOK, ALL THE CHAPTERS |   |  |   |
| DECEMBER  |                |  |   |  |   |

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PRINCIPAL

Submitted on: 28/1/19

Signature of Teacher: Nandini Chatterjee, Soumitra Maity

VICE PRINCIPAL 7/3/2/19

ACADEMIC COORDINATOR

6.2.19