Target: $\mathbf{1 2}^{\text {th }}$ Board Exams (CBSE/RBSE) (Medium: English)

## Gourse Gommencement: 15.03.2019 | Gourse Ends: 08.12.2019

## COURSE CONCEPT

This course is designed for students who wish to excel at $12^{\text {th }}$ board exams in science stream. This Year-long Classroom Contact Program ensures conceptual understanding of the subject with sufficient emphasis on definitions, labelled diagrammatic presentations, writing skill and speed, detailed steps of answers etc. which play a key role in scoring marks at Boards.
Exhaustive study material and well conceived Periodic Test \& Cumulative Tests simulated as per Board Pattern are there to enhance the confidence level and performance of candidates.

## RESONANCE TEACHING METHODOLOGY

## Preparation for $\mathbf{1 2}^{\text {th }}$ Board Exams (CBSE/RBSE)

Classroom Teaching
Study Material (Sheets/Modules)
PT - Periodic Test
CT - Cumulative Test
BPTS - Board Pattern Test Series (Part Test, HST* , FST*)
Classroom Teaching for fourth subject (English)
Support for fifth subject (Hindi, Phy.E.)

## TEACHING/ LEARNING TOOLS

- Periodic Test (PT): Periodic Tests are conducted after every two weeks. Syllabus of Periodic Test is whatever is taught in last 15 days.
- Cumulative Test: After every 3 PT, a CT (Cumulative Test) is conducted syllabus for CT is the syllabus of last 3PTs.
- Board Pattern Test Series: Board Pattern Test Series comprising of 5 Part tests \& 2 Half syllabus \& 2 full syllabus test of each subject to be conducted after completion of course.
- Study Material: Modules comprising of Topic wise key concepts, theoretical explanations, solved and unsolved exercises with Board exams question paper of last years are provided.


## TOTAL ACADEMIC HOURS

- Course Duration: 10 Months
- Total Number of Lectures: 528
- Duration of one lecture: 75 minutes
- Total Duration of Classroom Teaching: 660 hrs
- Total Duration of Doubt Clearance Class: 88 hrs
- Total Duration of Testing Hours (PT): 57 hrs
- Total Duration of Testing Hours (BPTs): 78 hrs
- Total Classroom Hours in BEL Course: 883 hrs


## Disclaimer:

- The Institute reserves all the right to increase/decrease the number of lectures allotted to any topic and also make changes in the sequence to the topics of each subject depending upon the course requirements.
- The information given in the course planner is proposed for Academic Session 2019-20. The institute reserves the right to make changes in course planner in the interest of students.


## SUBJECT WISE SYLLABUS PLAN

| PHYSIES [P] |  |  |
| :---: | :---: | :---: |
| s. <br> No. | Topic Name/Sequence | Lecture No. |
| 1 | NUCLEI | L1-15 |
| 2 | Electric Charges and fielos | L16-30 |
| 3 | ELECTROSTATIC POTENTIAL AND CAPACITANCE | L31-43 |
| 4 | CURRENT ELECTRICITY | L44-60 |
| 5 | MOVING CHARGES AND MAGNETISM | L61-70 |
| 6 | Magnetism and matter | L71-81 |
| 7 | RAY OPTICS \& OPTICAL INSTRUMENTS | L82-108 |
| 8 | Wave Optics | L109-118 |
| 9 | DUAL NATURE OF RADIATON \& Matter | L119-124 |
| 10 | AToms | L125-129 |
| 11 | Electromagneic induction | L130-136 |
| 12 | ALTERNATING CURRENT | L137-142 |
| 13 | electromagnetic waves | L143-145 |
| 14 | SEMICONDUCTOR \& ELECTRONICS DEVICES | L146-158 |
| 15 | COMMUNICATION SYSTEMS | L159-161 |

151 lect $\times 75 \mathrm{Min} .=201.25 \mathrm{hr}$

## CHEMISTRY [C]

| S. <br> No. | Topic Name/Sequence | Lecture No. | S. No. | Topic Name/Sequence | Lecture No. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | CHEMICAL KINETICS | L1-15 | 1 | Relations And Functions | L1-15 |
| 2 | SOLUTIONS | L16-28 |  |  |  |
| 3 | ELECTROCHEMISTRY | L29-41 | 2 | Functions | L16-23 |
| 4 | SOLID STATE | L42-53 | 3 | Matrices | L24-31 |
| 5 | SURFACE CHEMISTRY | L54-67 |  |  |  |
| 6 | HALOALKANES AND HALOARENES | L68-83 | 4 | Determinants | L32-41 |
| 7 | ALCOHOLS, PHENOLS AND ETHERS | L84-95 | 5 | Continuity And Differentiability | L42-53 |
| 8 | ALDEHYDES, KETONES AND CARBOXYLIC ACIDS | L96-105 | 6 | Application of Derivatives | L54-68 |
| 9 | ORGANIC COMPOUNDS CONTAINING NITROGEN (AMINES) | L106-111 | 7 | Indefinite Integrals | L69-85 |
| 10 | BIOMOLECULES | L112-120 | 8 | Definite Integrals | L86-95 |
| 11 | POLYMERS | L121-125 | 9 | Application of Integrals | L96-104 |
| 12 | COORDINATION COMPOUND | L126-135 | 10 | Differential Equations | L105-115 |
| 13 | THE P-BLOCK ELEMENT | L136-149 | 11 | Vector Algebra | L116-125 |
| 14 | THE D \& F- BLOCK | L150-154 | 12 | Three Dimensional Geometry | L126-135 |
| 15 | GENERAL PRINCIPLE AND PROCESSES OF ISOLATION OF ELEMENT | L155-159 | 13 | Linear Programming | L136-142 |
| 16 | CHEMISTRY IN EVERYDAY LIFE | L160-161 | 14 | Probability | L143-161 |


| Week No. | Week Duration |  | No. of Lecture |  |  |  | Total No. of Lectures | Week No. | Week Duration |  | No. of Lecture |  |  |  | Total <br> No. of Lectures |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | From | To | P | 6 | M/B | E |  |  | From | T0 | P | - | M/B | 2 |  |
| W-1 | 15-MAR | 17-MAR | 2 | 2 | 2 | 0 | 6 | W-20 | 22-JUL | 28-JUL | 5 | 5 | 4 | 1 | 15 |
| W-2 | 18-MAR | 24-MAR | 3 | 3 | 3 | 0 | 9 | W-21 | 29-JUL | 04-AUG | 5 | 6 | 6 | 1 | 18 |
| W-3 | 25-MAR | 31-MAR | 6 | 6 | 5 | 1 | 18 | W-22 | O5-AUG | 11-AUG | 5 | 4 | 5 | 1 | 15 |
| W-4 | 01-APR | 07-APR | 5 | 4 | 5 | 1 | 15 | W-23 | 12-AUG | 18-AUG | 4 | 3 | 4 | 1 | 12 |
| W-5 | 08-APR | 14-APR | 0 | 0 | 0 | 0 | 0 | W-24 | 19-AUG | 25-AUG | 4 | 5 | 5 | 1 | 15 |
| W-6 | 15-APR | 21-APR | 0 | 0 | 0 | 0 | 0 | W-25 | 26-AUG | 01-SEP | 5 | 5 | 6 | 2 | 18 |
| W-7 | 22-APR | 28-APR | 6 | 5 | 6 | 1 | 18 | W-26 | O2-SEP | 08-SEP | 4 | 5 | 5 | 1 | 15 |
| W-8 | 29-APR | 05-MAY | 5 | 5 | 4 | 1 | 15 | W-27 | 09-SEP | 15-SEP | 4 | 5 | 5 | 1 | 15 |
| W-9 | O6-MAY | 12-MAY | 6 | 5 | 6 | 1 | 18 | W-28 | 16-SEP | 22-SEP | 4 | 3 | 4 | 1 | 12 |
| W-10 | 13-MAY | 19-MAY | 6 | 5 | 6 | 1 | 18 | W-29 | 23-SEP | 29-SEP | 6 | 5 | 6 | 1 | 18 |
|  | 13-MAY | -M-MA |  | 5 | 6 | 1 |  | W-30 | 30-SEP | 06-0CT | 6 | 4 | 3 | 2 | 15 |
| W-11 | 20-MAY | 26-MAY | 4 | 5 | 5 | 1 | 15 | W-31 | 07-0CT | 13-0CT | 3 | 3 | 4 | 2 | 12 |
| W-12 | 27-MAY | O2-JUN | 5 | 5 | 4 | 1 | 15 | W-32 | 14-OCT | 20-OCT | 4 | 4 | 5 | 2 | 15 |
| W-13 | O3-JUN | 09-JUN | 5 | 5 | 4 | 1 | 15 | W-33 | 21-OCT | 27-0CT | 0 | 0 | 0 | 0 | 0 |
| W-14 | 10-JUN | 16-JUN | 5 | 5 | 4 | 1 | 15 | W-34 | 28-0CT | O3-NOV | 2 | 3 | 2 | 2 | 9 |
| W-15 | 17-JUN | 23-JUN | 4 | 4 | 3 | 1 | 12 | W-35 | O4-NOV | 10-NOV | 6 | 5 | 5 | 2 | 18 |
| W-16 | 24-JUN | 30-JUN | 0 | 0 | 0 | 0 | 0 | W-36 | 11-NOV | 17-NOV | 4 | 5 | 4 | 2 | 15 |
| W-17 | 01-JUL | 07-JUL | 5 | 5 | 6 | 2 | 18 | W-37 | 18-NOV | 24-NOV | 5 | 6 | 5 | 2 | 18 |
| W-18 | 08-JUL | 14-JUL | 4 | 5 | 5 | 1 | 15 | W-38 | 25-NOV | 01-DEC | 4 | 5 | 4 | 2 | 15 |
| W-19 | 15-JUL | 21-JUL | 6 | 5 | 5 | 2 | 18 | W-39 | O2-DEC | 08-DEC | 4 | 6 | 6 | 2 | 18 |

## PERIODIC TEST SYLLABUS

PERIIOIIC／CUMULATIUE TEST SCHEDULE \＆SVLLABUS
 CHEMISTRY ICI
Solutions till vapour pressure
Solutions，Electrochemistry
till Electrochemical cell Chemical Kinetics，Solutions
Chemical Kinetics，Solutions
\＆Electrochemistry Electrochemistry

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\hline \text { Surface Chemistry } \\
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Molecular Basis of Inheritance
Principles Of Inheritance and

Reproduction in Organisms
Human Reproduction
Sexual Reproduction in Sexual Reproduction in
Flowering Plants，Reproduction in
Organisms and Human Reproduction Principles Of Inheritance Principles of Inheritance，
My Mother at Sixty－Six，
An Elementary School Classoom in S Slum，Lost Spring，
The Tiger King，The Enemy，Should Wizard Hit Mommy，
Invitations and Replies
Deep Water，The Rattrap，On the Face of It，Indigo，
 Memories of Childhood
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## ACTIUITIES @ PSPD <br> Session - 2018-19



## UNIIUE FEATURES:

O All Subjects Taught.
O Support for Practical.
O Zero DPP (Revision of Previous Class)
O Daily Care Classes (Doubt Clearance Session).
O Special Focus on Subjective Approach of Answer and Writing Skills.
O Regular Assignments through School Examination Preparatory (SEP) Sheets
O Specially Designed Board Practice Test Papers.
O Periodic Test after every 15 days.

O ResoSHARP (Resonance Student Hard Work Appreciation \& Reward Program)
O ResoGHAR (Resonance Grievance Handling and Redressal)
O SAPER (Student Academic Performance and Evaluation Report).
O Motivational Session \& Workshops.
O Student Feedback Mechanism.
O PTSM (Parent Teacher \& Student Meeting).
O ResoTIPS (Resonance Toppers Interaction with Present Students)
O Co-Curricular Activities like Picnic, Festival Celebration, Annual Function etc.

Holidays/ Vacations: 1. Holi $20^{\text {th }}$ March 2019 to $21^{\text {st }}$ March 2019 2. Eid-Ul-Fitr $5^{\text {th }}$ June 2019 3. Summer Break $22^{\text {nd }}$ June 2019 to $30^{\text {th }}$ June 2019 4. Eid-Ul-Zuha (Bakr-Id) $12^{\text {nd }}$ August 2019 5. Independence day $15^{\text {th }}$ August 2019 6. Raksha Bandhan $15^{\text {th }}$ August 2019 7. Muharram $10^{\text {th }}$ September 2019 8. Navmi $7^{\text {th }}$ October 2019 9. Dusshera $08{ }^{\text {th }}$ October 2019

## RESONANCE EDUVENTURES LTD

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To Know more: sms RESO at 56677 | E-mail: pspd@resonance.ac.in | Wehsite: www.pspd.resonance.ac.in Toll Free : 18002585565

