



Excelling in IIT-JEE Since 2001...



Resonance[®]
Educating for better tomorrow

Growing in Boards Since 2013...

PARA-SCHOOLING PROGRAM DIVISION (PSPD)

Centre of Excellence for School/Board Examinations

COURSE PLANNER

Academic Session: 2018-19

CLASS-XII | BRILLIANT (BEL)

(Medium: English)

Target: 12th Board Exams (CBSE/RBSE)

Course Commencement: 09.04.2018 | Course Ends: 08.12.2018

COURSE CONCEPT

This course is designed for students who wish to excel at 12th 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 12th 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 3 PTs.
- ◆ **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:** 8 Months
- ◆ **Total Number of Lectures:** 542
- ◆ **Duration of one lecture:** 70 minutes
- ◆ **Total Duration of Classroom Teaching:** 632.5 hrs
- ◆ **Total Duration of Co-Academic Hours :** 36 hrs
- ◆ **Total Duration of Testing Hours:** 57 hrs
- ◆ **Total Classroom Hours in BEL Course:** 725.5 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 2018-19. The institute reserves the right to make changes in course planner in the interest of students.

SUBJECT WISE SYLLABUS PLAN

PHYSICS [P]		
S. No.	Topic Name/Sequence	Lecture No.
1	Nuclei	L1-10
2	Electric Charges and Fields	L11-27
3	Electrostatic Potential and Capacitance	L28-39
4	Dual Nature of Radiation & Matter	L40-46
5	Current Electricity	L47-62
6	Moving Charges and Magnetism	L63-76
7	Magnetism and Matter	L77-83
8	Electromagnetic Induction	L84-88
9	Alternating Current	L89-96
10	Electromagnetic Waves	L97-100
11	Ray Optics & Optical Instruments	L101-125
12	Wave Optics	L126-136
13	Atoms	L137-140
14	Semiconductor & Electronics Devices	L141-157
15	Communication Systems	L158-160

160 lect × 70 Min. = 187 hr

CHEMISTRY [C]		
S. No.	Topic Name/Sequence	Lecture No.
1	Biomolecules	L1-09
2	The Solid State	L10-19
3	Solutions	L20-29
4	Electrochemistry	L30-40
5	Chemical Kinetics	L41-51
6	Surface Chemistry	L52-66
7	General Principles & Processes of Isolation of Elements	L67-75
8	The p-Block Elements	L76-95
9	The d and f-Block Elements	L96-106
10	Coordination Compounds	L107-118
11	Haloalkanes and Haloarenes	L119-128
12	Alcohols, Phenols and Ethers	L129-137
13	Aldehydes, Ketones and Carboxylic Acids	L138-147
14	Organic Compounds containing Nitrogen (Amines)	L148-154
15	Polymers	L155-157
16	Chemistry in Everyday Life	L158-160

160 lect × 70 Min. = 187 hr

MATHEMATICS [M]		
S. No.	Topic Name/Sequence	Lecture No.
1	Vector Algebra	L1-10
2	Inverse Trigonometric Functions	L11-20
3	Matrices	L21-30
4	Determinants	L31-46
5	Continuity And Differentiability	L47-64
6	Application of Derivatives	L65-78
7	Relations And Functions	L79-89
8	Indefinite Integrals	L90-103
9	Definite Integrals	L104-114
10	Application of Integrals	L115-122
11	Differential Equations	L123-134
12	Three Dimensional Geometry	L135-145
13	Linear Programming	L146-150
14	Probability	L150-160

160 lect × 70 Min. = 187 hr

BIOLOGY [B]		
S. No.	Topic Name/Sequence	Lecture No.
1	Sexual Reproduction in Flowering Plants	L1-10
2	Reproduction in Organisms	L11-18
3	Human Reproduction	L19-26
4	Reproductive Health	L27-32
5	Principles Of Inheritance and Variation	L33-52
6	Molecular Basis of Inheritance	L53-76
7	Evolution	L77-86
8	Human Health and Disease	L87-96
9	Strategies for Enhancement in Food Production	L97-106
10	Microbes in Human Welfare	L107-116
11	Biotechnology: Principles and Processes	L117-126
12	Biotechnology and its Applications	L127-136
13	Organisms and Populations	L137-142
14	Ecosystem	L143-148
15	Biodiversity and Conservation	L149-154
16	Environmental Issues	L155-160

160 lect × 70 Min. = 187 hr

English 31 Lect. × 70 Min. = 36 Hr | Hindi 31 Lect. × 70 Min. = 36 Hr

WEEKLY LECTURE PLANNER (Per Subject)

Week No.	Week Duration		No. of Lecture						Total No. of Lectures
	From	To	P	C	M/B	H	E	CO-ACDM.*	
W-1	9-APR	14-APR	5	5	5	0	0	0	15
W-2	16-APR	21-APR	5	5	5	0	0	0	15
W-3	23-APR	28-APR	5	5	5	1	1	1	18
W-4	30-APR	5-MAY	5	5	5	1	1	1	18
W-5	6-MAY	12-MAY	5	5	5	1	1	1	18
W-6	14-MAY	19-MAY	5	5	5	1	1	1	18
W-7	21-MAY	26-MAY	5	5	5	1	1	1	18
W-8	28-MAY	2-JUN	5	5	5	1	1	1	18
W-9	4-JUN	9-JUN	5	5	5	1	1	1	18
W-10	11-JUN	16-JUN	4	4	4	1	1	1	15
W-11	18-JUN	23-JUN	5	5	5	1	1	1	18
W-12	25-JUN	30-JUN	0	0	0	0	0	0	0
W-13	2-JUL	7-JUL	5	5	5	1	1	1	18
W-14	9-JUL	14-JUL	5	5	5	1	1	1	18
W-15	16-JUL	21-JUL	5	5	5	1	1	1	18
W-16	23-JUL	28-JUL	5	5	5	1	1	1	18
W-17	30-JUL	4-AUG	5	5	5	1	1	1	18

Week No.	Week Duration		No. of Lecture						Total No. of Lectures
	From	To	P	C	M/B	H	E	CO-ACDM.*	
W-18	6-AUG	11-AUG	5	5	5	1	1	1	18
W-19	13-AUG	18-AUG	4	4	4	1	1	1	15
W-20	20-AUG	25-AUG	4	4	4	1	1	1	15
W-21	27-AUG	1-SEP	5	5	5	1	1	1	18
W-22	3-SEP	8-SEP	5	5	5	1	1	1	18
W-23	10-SEP	15-SEP	5	5	5	1	1	1	18
W-24	17-SEP	22-SEP	4	4	4	1	1	1	18
W-25	24-SEP	29-SEP	5	5	5	1	1	1	18
W-26	1-OCT	6-OCT	5	5	5	1	1	1	18
W-27	8-OCT	13-OCT	5	5	5	1	1	1	18
W-28	15-OCT	20-OCT	4	4	4	1	1	1	15
W-29	22-OCT	27-OCT	5	5	5	1	1	1	18
W-30	29-OCT	3-NOV	5	5	5	1	1	1	18
W-31	5-NOV	10-NOV	0	0	0	0	0	0	0
W-32	12-NOV	17-NOV	5	5	5	1	1	1	18
W-33	19-NOV	24-NOV	5	4	5	1	1	1	18
W-34	26-NOV	1-DEC	5	5	5	1	1	1	18
W-35	3-DEC	8-DEC	5	5	5	1	1	1	18

PERIODIC / CUMULATIVE TEST SCHEDULE & SYLLABUS

PERIODIC TEST SYLLABUS						
S. No.	Periodic Test Type and No.	Periodic Test Date	PHYSICS [P]	CHEMISTRY [C]	MATHEMATICS [M]	BIOLOGY [B]
1	PT-01	22-04-18 SUNDAY	Nuclei	Biomolecules	Vector Algebra	Sexual Reproduction in Flowering Plants
2	PT-02	06-05-18 SUNDAY	Electric Charges and Fields (upto Electric field lines)	Solid State	Inverse Trigonometric Functions	Reproduction in Organisms
3	PT-03	20-05-18 SUNDAY	Electric Charges and Fields(after E.F.L. till the end), Electrostatic Potential and Capacitance(upto Equipotential Surface)	Solutions	Matrices	Human Reproduction, Reproductive Health
4	CT-01	02-06-18 to 03-06-18 SATURDAY & SUNDARY	Electric Charges and Fields, Electrostatic Potential and Capacitance, Dual Nature of Radiation and Matter	Biomolecules, Solid State, Solutions	Inverse Trigonometric Functions, Matrices and Determinant (till Properties of Determinants)	Reproduction In Organisms, Sexual Reproduction in Flowering Plants, Human Reproduction, Reproductive Health
5	PT-04	17-06-18 SUNDAY	Dual Nature of Radiation and Matter Current Electricity	Electrochemistry, Chemical Kinetics	Determinant and Continuity	Principle of Inheritance and Variation
6	PT-05	15-07-18 SUNDAY	Moving Charges and Magnetism(upto Cyclotron)	Surface Chemistry	Differentiability and Differentiation	Molecular Basis of Inheritance
7	PT-06	29-07-18 SUNDAY	Moving Charges and Magnetism(after Cyclotron till the end), Magnetism and Matter(upto Magnetic properties of Substance)	Surface Chemistry	Application of Derivatives	Molecular Basis of Inheritance
8	CT-02	11-08-18 to 12-08-18 SATURDAY & SUNDAY	Nuclei, Electric Charges and Fields, Electric Potential and Capacitance	Biomolecules, Solid State, Solutions, Chemical Kinetics, Electrochemistry, Surface Chemistry	Continuity, Differentiability and Differentiation, Application of Derivatives	Sexual Reproduction in Flowering Plants, Reproduction In Organisms, Human Reproduction, Reproductive Health, Principle of Inheritance and Variation, Molecular Basis of Inheritance
9	PT-07	25-08-18 SATURDAY	E.M.I., A.C.	The p-Block Elements, General Principles and Processes of Isolation Of Elements	Relations and Functions, Indefinite Integrals till Substitution	Evolution, Human Health and Diseases
10	PT-08	09-09-18 SUNDAY	E.M.W., Ray Optics (upto Refraction)	The p-Block Elements	Indefinite and Definite Integration	Human Health and Diseases, Strategies for Enhancement in Food Production
11	PT-09	23-09-18 SUNDAY	Ray Optics (after Refraction till the end), Wave Optics (upto Huygen's Principle)	The D- and F-block Elements	Application of Integrals, Differential Equation (till Variable Separable)	Strategies for Enhancement in Food Production, Microbes in Human Welfare
12	CT-03	06-10-18 to 07-10-18 SATURDAY & SUNDAY	E.M.I., A.C., E.M.W., Ray Optics	Biomolecules, Solid State, Solutions, Chemical Kinetics, Electrochemistry, Surface Chemistry General Principles and Processes of Isolation of Elements, The p-Block Elements, The D- and F-block Elements	Relations and Functions, Integration and Application of Integrals, Differential Equation (till Variable Separable)	Sexual Reproduction in Flowering Plants, Reproduction In Organisms, Human Reproduction, Reproductive Health, Principle of Inheritance and Variation, Molecular Basis of Inheritance, Evolution, Human Health and Diseases, Strategies for Enhancement in Food Production, Microbes in Human Welfare
13	PT-10	21-10-18 SUNDAY	Wave Optics, Atoms	Coordination Compounds, Haloalkanes and Haloarenes	Differential Equations, Vector Algebra	Biotechnology: Principles and Processes, Biotechnology and Its Applications
14	PT-11	18-11-18 SUNDAY	Communication systems, Semiconductor Devices	Haloalkanes and Haloarenes, Alcohols, Phenols, Amines and Ethers and Aldehydes, Ketones and Carboxylic acids	Three Dimensional Geometry, LPP	Organisms and Populations
15	CT-04	01-12-18 to 02-12-18 SATURDAY & SUNDAY	Wave Optics, Semiconductor Devices, Communication Systems, Atoms, Dual Nature of Radiation and Matter	Biomolecules, Solid State, Solutions, Chemical Kinetics, Electrochemistry, Surface Chemistry General Principles and Processes of Isolation of Elements, The p-Block Elements, The D- and F-block Elements, Amines, Polymers, Chemistry in Everyday Life, Alcohols, Phenols and Ethers and Aldehydes, Ketones and Carboxylic Acids, Coordination Compounds, Haloalkanes and Haloarenes.	Three Dimensional Geometry, LPP, Probability	Sexual Reproduction in Flowering Plants, Reproduction In Organisms, Human Reproduction, Reproductive Health, Principle of Inheritance and Variation, Molecular Basis of Inheritance, Evolution, Human Health and Diseases, Strategies for Enhancement in Food Production, Microbes in Human Welfare, Biotechnology: Principles and Processes, Biotechnology and Its Applications, Organisms and Populations, Ecosystem, Biodiversity and Conservation, Environmental Issues

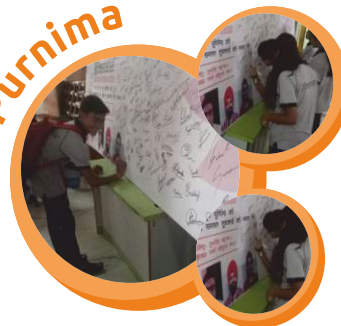
ACTIVITIES @ PSPD

Session: 2017-18

Bindas Bol



Guru Purnima



ResoQuest



Picnic



Reso Sharp



Tips



Yoga



PERFUME



UNIQUE FEATURES:

- All Subjects Taught.
- Support for Practical.
- Zero DPP (Revision of Previous Class)
- Daily Care Classes (Doubt Clearance Session).
- Special Focus on Subjective Approach of Answer
- Regular Assignments through School Examination Preparatory (SEP) Sheets
- Specially Designed Board Practice Test Papers.
- Periodic Test after every 15 days.
- ResoSHARP (Resonance Student Hard Work Appreciation & Reward Program)
- ResoGHAR (Resonance Grievance Handling and Redressal)
- SAPER (Student Academic Performance and Evaluation Report).
- Motivational Session & Workshops.
- Student Feedback Mechanism.
- PTSM (Parent Teacher & Student Meeting).
- ResoTIPS (Resonance Toppers Interaction with Present Students)
- Co-Curricular Activities like Picnic, Festival Celebration, Annual Function etc.

Holidays/ Vacations 1. Eid-UI-Fitr 15th June 2018 2. Summer Break 24th June 2018 to 30th June 2018 3. Independence day 15th August 2018 4. Eid-UI-Zuha (Bakrid) 22th August 2018 5. Raksha Bandhan 26th August 2018 6. Muharram 21st September 2018 7. Dusshara 19th October 2018 8. Diwali Vacations 5th November to 10th November 2018.

RESONANCE EDVENTURES LTD.

PSPD CAMPUS: C-13, Jawahar Nagar Main Road, Kota (Raj.) - 324005 | Tel. No.: 9529123415 | CIN: U80302RJ2007PLC024029

To Know more: sms RESO at 56677 | E-mail: pspd@resonance.ac.in | Website: www.pspd.resonance.ac.in

Toll Free : 1800 258 5555

f Resonance PSPD

twitter.com/ResonanceEdu

www.youtube.com/resowatch

blog.resonance.ac.in