**Syllabus Details(2015-16)**

**Class: - XI Subject: - Mathematics Teacher Name: - Mr. Sumit**

**Book Name: - NCERT Ref. Book: - RD Sharma**

**RS Aggarwal \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Together with Mathematic \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Arihant (Imp. Questions chapter wise soluation) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **April** | **22** |  |  |  |
| **1 week** |  | **Sets chapter No. -1**  **1. Sits and types**  **2. Basic properties of set**  **3. Venn diagram and applications of sets** |  | **Scoring section**  **And easy to understand** |
| **2 week** |  | **Relation and functions (2)**  **1. relations:- Cartesian product**  **2. Functions domain and range codomain** |  |  |
| **3 week** |  | **Relation and function (cont)**  **Mathematical induction**  **(Chapter no. 4)** |  | **Easy and scoring section** |
| **4 week** |  | **Mathematical induction (Cont)** |  | **Easy and scoring section** |
| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **May** | **25** |  |  |  |
| **1 week** |  | **Trigonometry (Introduction)**   * **Conversions**   **1. Radiam to degree measure**  **2. Degree to radiam measure** |  | **Difficult and very important section** |
| **2 week** |  | **Quadrant system and its applicability sum formulae A-B formula I C-D formula, half angle, Triple angle formula and bnuir related questions.** |  | **(max marks weightage)** |
| **3 week** |  | **General and principal solutions**  **Sine formula cosine formulas and projection formula. App of trignomulry** |  |  |
| **4 week** |  | **Complex numbers:- (Chapter-5)**  **1) Standard form, confiscate, modulus**  **Argument and polar form of compels number, quadratic and sequence** |  |  |
|  | **July** | **25** |  |  |  |
| **1 week** |  | **Complex numbers (cont)**  **Linear inequalities (chapter-6)**  **Type of inequalities, Basic rules in 1 variable and 2 variables in linear inequalities, application of linear inequalities** |  | **Easy and scoring area** |
| **2 week** |  | **(CH-7) Permutations and Condemnations:**  **Permutations: Conpt of factorial fundamental principle permutations,** |  |  |
| **3 week** |  | **Combinations: stander results of comber national application of perambulation and combinations** |  |  |
| **4 week** |  | **Binomial Tniorm:- Basic emption lineal term middle term, absolute term etc in Biromial known and its applications** |  |  |
| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **August** | **23** |  |  |  |
| **1 week** |  | **(CH-9) Sequence and series:- AP, GP, GM, and their applications, some special types of series, , ,** |  | **Difficult section**  **(max weightage)** |
| **2 week** |  | **and method of differences sum of Infinite terms in GP, and problems on various types of series** |  |  |
| **3 week** |  | **(CH-10) Straight lines:- Basic concepts**  **1. Distance formula**  **2) Suction formula**  **3) Area of s quadrilateral, mp formula**  **4) untried and inerter of is** |  |  |
| **4 week** |  | **Slope of the line: Basic properties of line various types of equation of line rendition between two line in term of their slopes** |  | **Difficult section** |
|  | **Sept.** | **19** |  |  |  |
| **1 week** |  | **Straight lines (cont.)**  **Intercept, 1 point and 2 point form of eqn, slope intercept from interaction two line problem App of sit lines.** |  |  |
| **2 week** |  | **Conic sections:- (CH-11)**  **1) Circle**  **2) Parabola** |  | **Easy section scoring** |
| **3 week** |  | **3) Ellipre**  **4) Hyperbola and equation and various applications** |  |  |
| **4 week** |  | **Three Dimensional Geometry (CH-13)**  **Various form of 3D lines**  **1. Distance formula**  **2. Section formula**  **3. Centraid and incentre of D** |  | **Easy section**  **scoring** |
| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **October** | **24** |  |  |  |
| **1 week** |  | **(CH-1) Limits and derivatives**  **Limits: Basic Results of limit existence of limit etc.** |  | **Difficult section** |
| **2 week** |  | **Derivatives:-**  **1. First principle method**  **2. Derivative using some standard results product law quaint law, chin rule etc.** |  | **Easy suction** |
| **3 week** |  | **Various problems of derivatives by function within function etc.** |  |  |
| **4 week** |  | **(CH-14) Mathematical Rearining**  **(CH-15) Statistics:- Measure of picture**  **1. Range, coefficient range**  **2. mean deviation about mean and a median**  **3. Standard deviation and i.v an in various series** |  |  |
|  | **November** | **20** |  |  |  |
| **1 week** |  | **Probability:-**  **1. Introduction to sample space and outcomes**  **2. Events and their types**  **3. Probability and their basic properties** |  | **Easy and scoring section** |
| **2 week** |  |  |  |  |
| **3 week** |  |  |  |  |
| **4 week** |  |  |  |  |

**Remarks: - All the topics are interlaced. So pay attention in all topics. And needs regular**

**Practices.**