**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,** $ϵn$**,** $ϵn^{2}$**,** $ϵn^{3}$ |  | **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.**