**Syllabus Details(2015-16)**

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

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

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| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **April** | **22** |  |  |  |
| **1 week** |  | **(CH-3) Matrices :-**  **Matrix and its types transpose of matrix, and various operations on the matrices elementary ron(or columns) operations to calculate the inverse of matrix and basic results of matrix** |  | **Easy and scoring area** |
| **2 week** |  | **(CH-4) Determinants:- Determinant solving methods, properties of determinants adjaint, mirror, co-factors of matrix inverse of matrix applications** |  | **Easy and scoring area** |
| **3 week** |  | **Of the determinant. Solutions of non homogeneous linear equations. Matrix method conrirtancy of the matrix** |  |  |
| **4 week** |  | **(CH-2) Inverse Trigonometric Functions:-**  **Domain and rages of inverse trigonometric functions, some standard results of ITF** |  | **Easy and scoring area** |
| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **May** | **25** | **ITF (Cont)** |  |  |
| **1 week** |  | **ITF by method of substitution and conversion of area ITF to another** |  | **Difficult section** |
| **2 week** |  | **(CH-5) Continuity :- Basic result of continuity and problems based on the breaking point mel existence of continuity** |  |  |
| **3 week** |  | **Differentiability:- existence of diff. of various functions**  **1. method of derivatives**  **2. Chain rule**  **3. Logarithmic differentiation** |  | **Easy and scoring** |
| **4 week** |  | **4. Paramitry functions**  **5. Rohhe’s throm**  **6. mean value theron**  **(CH-1) Relations and fucnation:-** |  |  |
|  | **July** | **25** |  |  |  |
| **1 week** |  | **(CH-6) Applications of derivatives:-**  **1. Rate of change of quantities**  **2. Increasing and decreasing** |  | **Difficult section** |
| **2 week** |  | **3. Tongants and normals**  **4. Approximations using differential**  **5. Marina and minima** |  |  |
| **3 week** |  | **1. By double derivative test**  **2. By single derivative test** |  |  |
| **4 week** |  | **(CH-7) Integrals:- Basic rules**  **1. Method of substitution**  **2. Method of partial fraction**  **3. Integration by parts** |  | **Difficult section** |
| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **August** | **23** |  |  |  |
| **1 week** |  | **Trigonometric integration some special forms of integrations various miscellaneous forms of integrals** |  | **Difficult area** |
| **2 week** |  | **Definite integrals:-**  **1. Integration by limited as a sum** |  |  |
| **3 week** |  | **2. Fundamental team of definite integral calculus definite integrals by substitution and by changing of limit** |  |  |
| **4 week** |  | **Properties of definite interest and** |  |  |
|  | **Sept.** | **19** |  |  |  |
| **1 week** |  | **(CH-8) Applications of integrals**  **Area index simple and double or multiple curers like** |  | **Difficult area** |
| **2 week** |  | **Parabola, lines, circle, euipre etc** |  |  |
| **3 week** |  | **(CH-9) Differential equations:-**  **1. Order and degree**  **2. DE of implicit and explicit function**  **3. Elimination of arleitary constant** |  | **Easy and scoring area** |
| **4 week** |  | **4. method of variable separation**  **5. Homogeneous DE**  **6. Linear DE** |  |  |
| **S.**  **No.** | **Month** | **No of working days** | **Unit/ chapter** | **Weightage of marks & Type of questions** | **Remarks** |
|  | **October** | **24** |  |  |  |
| **1 week** |  | **(CH-10) Victors:-**  **Various types of rectors**  **1. Dot product**  **2. Crass Product**  **3. Scalar triple product** |  | **Easy and scoring suction** |
| **2 week** |  | **(CH-11)**  **3D Geometry:-**  **1. 3D lines: various froms** |  | **Difficult area** |
| **3 week** |  | **2. 3D plane: Various froms** |  |  |
| **4 week** |  | **(CH-12) Linear programming**  **Graphical method**  **1. Diet frodeum**  **2. Manufacturing problems**  **3. Transportation problems** |  | **Scoring area** |
|  | **November** | **20** |  |  |  |
| **1 week** |  | **Probability:-**  **1. Conditioner Probability**  **2. Independent events**  **3. Bayl’s team** |  | **Difficult suction** |
| **2 week** |  | **4. Birormil distribution**  **5. Probability dist.**  **Mean, various and standard diviation** |  |  |
| **3 week** |  |  |  |  |
| **4 week** |  |  |  |  |

**Remarks: All above mentioned topics are interrelated and need attention and regularity in class. And dourtine practice is required on Cancun topic**