**Lesson Plan for ( 2020-21)**

**MCM DAV College for Women, Sector – 36A, Chandigarh**

**Monthly Teaching Plans ( Semester 1 )**

**Session – 2020-21**

**Department: Mathematics**

**Class: B Sc I Sem 1, Section (s): NM A, B & Voc**

**Name of the Teachers: Dr Neela Pawar, Dr Nisha, Dr Ekta Jain**

 **Subject : Calculus I**

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| **S.No.** | **Date** **(Monthly)** | **Topics to be Covered** | **Academic Activity Undertaken\*** |
| **From** | **To** |
| 1 | 10 Sept 2020 |  30 Oct  | Real Nos, Limits, Continuity,  | Doubt Session, Examination pattern discussed, Test Conducted |
| 2 | 1 November | 6th December | Mean value theorems,  | Doubt session, Assignments providedMid Term Test held |
| 3 | 15 December  | 26 February 2021 | Hyperbolic functions, Successive Differention | Doubt session, Assignments, Question papers discussed. Revision of a few topics. |
|  **Subject : Plane Geometry**  |
| 1 | 10 Sept 2020 |  30 Oct  | Transformation of axes, Pair of straight lines, Joint equation of straight lines, | Syllabus intimation, Examination Pattern, marking scheme discussed, Doubt sessions |
| 2 | 1 November | 6th December | Circle, pole polar and co-axial family of circles. | Assignments, tests, Mid Term Examination |
| 3 | 15 December  | 26 February 2021 | Conics: Parabola, Ellipse , hyperbola and their properties. | Doubt session, Assignments, Question papers discussed. Revision of a few topics. |
|  **Subject : Trigonometry and Matrices**  |
| 1 | 10 Sept 2020 |  30 Oct  | D’Movires theorem and applications, functions of Complex variables | Doubt Session, Examination pattern discussed, Test Conducted |
| 2 | 1 November | 6th December | Summation of series, Matrices, | Doubt session, Assignments providedMid Term Test held |
| 3 | 15 December  | 26 February 2021 | Rank of matrices, eigen values, diagonalization. | Doubt session, Assignments, Question papers discussed. Revision of a few topics. |
|  **Departmental Meeting was held after the completion of every month to review the syllabus distribution.**  |

**\*Any of these** – (i) Lecture Method; (ii) PPT; (iii) Online Sources; (iv) Group Discussion; (v) Case Studies etc.

 Other Methods adopted by the teacher – Please write the specific teaching method

Lesson Plan for (2020-21)

MCM DAV College for Women, Sector – 36A, Chandigarh

Monthly Teaching Plans ( Semester II)

Session – (2020-21)

Name of the Teacher/s : Dr Neela Pawar, Dr Nisha , Dr Ekta Jain

Department: Mathematics

Class **B Sc I Sem 2,** Subject : Mathematics Section (s) NM A, B & Voc

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| S.No. | Date (Monthly) | Topics to be Covered | Academic Activity Undertaken\* |
| From | To |
| Solid Geometry |  1st April | 30 April  |  Transformation of Second degree equation, Sphere  | Lecture method, discussions |
|  |  1st May  |  30 May | Cylinder, Cone with vertex at origin | Assignments, Test |
|  | 1st June  |  15 July | Cone continued, equations of ellipsoid, hyperboliad and paraboliad. | Discussion of exam pattern and previous question papers |
|   |
| Calculus II |  1st April | 30 April  | Real numbers, Limits, Continuity | Introduction of syllabus , exam pattern, doubt sessions |
|  |  1st May  |  30 May |  Rolle’s , Lagranges, Cauchy’s Taylor’s Theorem | Extra questions, MST |
|  | 1st June  |  15 July |  Maclaurin’s theorems and applications, Hyperbolic Functions, successive differentiation | Revision of few selected topics, Discussion od previous question papes |
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| Theory of equations |  1st April | 30 April  |  Euclid’s algorithm,synthetic division, complex roots, Relations between roots and coefficients,  |  Lecture, Assignments, Test |
|  |  1st May  |  30 May | transformation of Eqns, Descartes rule of signs, Newton’s method of divisors | Quiz, discussion,  |
|  | 1st June  |  15 July |  Cardon method, Biquadratic eqns. |  |
| Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus was held after each unit of lesson plans |

\*Any of these – (i) Lecture Method; (ii) PPT; (iii) Online Sources; (iv) Group Discussion; (v) Case Studies etc.

 Other Methods adopted by the teacher – Please write the specific teaching method