**Lesson Plan 2020- 21**

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

**Monthly Teaching Plans ( Semester 5 )**

**Session – 2020 -21**

Department: Mathematics

Class B A/ B Sc III Sem 5 Subject: Mathematics Section (s) NM, Voc

Name of the Teachers: Dr Neela Pawar, Dr Swati Sidana , Ms Manisha

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| S.No. | Date  (Monthly) | | Topics to be Covered | Academic Activity Undertaken\* |
| From | To |
| Analysis I | 17 August 2020 | 30 Sept | Countable and uncountable sets, Riemann Integration, | Lecture method, discussions |
|  | 1st October | 5 December | Beta and Gamma functions, Improper Integrals, and convergence | Assignments, Test  Mid Sem Test |
|  | 17 December | 13 February 2021 | Able’s and Dirichlet’s test, Frullani integral, Continuity, derivability and integrabilityof a function of a parameter | Discussion of exam pattern and previous question papers |
|  | | | | |  |  |  |  |
| Modern Algebra | 17 August 2020 | 30 Sept | Groups, Sub groups, Lagrange’s theorem, | Introduction of syllabus , exam pattern, doubt sessions |
|  | 1st October | 5 December | Permutation groups, Alternating groups, Rings | Extra questions,  Mid Sem Test |
|  | 17 December | 13 February 2021 | Integral domains, Subrings and ideals, homomorphism, Isomorphism, Polynomial Rings | Revision of few selected topics, Discussion of previous question papers |
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| Probability Theory | 17 August 2020 | 30 Sept | Notion of Probability, Random variables | Lecture, Assignments, Test |
|  | 1st October | 5 December | Discrete and Continuous Random variables, | Quiz, discussion,  Mid Sem Test |
|  | 17 December | 13 February 2021 | Bivariate Random Variables, Distribution of Functions | Revision of few selected topics, Discussion of previous question papers |
| Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per 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

**Lesson Plan -- 2020-21**

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

Monthly Teaching Plans ( Semester 6 )

Session – 2020-21

Name of the Teacher/s: Dr Neela Pawar, Dr Swati Sidana, Ms Manisha

Department : Mathematics

Class B A / B Sc III Sem 6 Subject: Mathematics Section (s) NM, Voc

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| **S.No.** | **Date**  **(Monthly)** | | **Topics to be Covered** | **Academic Activity Undertaken\*** |
| **From** | **To** |
| Analysis II | 1st April | 30 April | Double and triple integrals, |  |
|  | 1st May | 30 May | Vector Calculus, Sequences and Series of functions, |  |
|  | 1st June | 15 July | Power Series, Fourier Series |  |
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| Linear Algebra | 1st April | 30 April | Vector Space, Subspaces, Basis and Dimensions |  |
|  | 1st May | 30 May | Linear transformation, rank and Nullity, linear transformation and matrices |  |
|  | 1st June | 15 July | Characteristic roots and vectors, Cayley Hamilton theorem, Diagonalizable operators and matrices |  |
|  | | | | |
| Numerical Analysis | 1st April | 30 April | Solution of equations, Interpolation**,** Numerical Differentiation, |  |
|  | 1st May | 30 May | Numerical Quadrature, Linear equations, |  |
|  | 1st June | 15 July | The Algebraic Eigen value Problems, Ordinary Differential equations |  |
| **Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per 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