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

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

Monthly Teaching Plans ( Semester 3)

Session – (2020-21)

Department: Mathematics

Class B A/ B Sc II Sem 3 Subject: Mathematics Section (s) NM A, B & Voc

Name of the Teachers : Dr Leetika , Dr Sonica, Dr Ekta Jain

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| S.No. | Date  (Monthly) | | | | Topics to be Covered | Academic Activity Undertaken\* |
| From | | To | |
| Advanced Calculus I | 17 August 2020 | | 30 Sept | | Limit and continuity, Partial differentiation and diffeentiability, Change of variables, Schwarz and young theorems | Lecture method, discussions |
|  | 1st October | | 5 December | | Inverse and implicit functions, , Euler’s theorem | Assignments, Test |
|  | 17 December | | 13 February 2021 | | , Taylors theorem , jacobians, Evolutes, Maxima minima, Lagrange’s multiplier method | Discussion of exam pattern and previous question papers |
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| Differential equations II | | 17 August 2020 | 30 Sept | | Exact differential eqns, First and higher order eqns, Clairaut form, | Introduction of syllabus , exam pattern, doubt sessions |
|  | | 1st October | 5 December | | Singular solutions, Orthogonal trajectories, Linear diff eqns with constant | Extra questions, MST |
|  | | 17 December | 13 February 2021 | | and variable coeffs, linear diff eqns of second order, simultaneous diff eqns | Revision of few selected topics, Discussion of previous question papers |
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| Statics | 17 August 2020 | | | 30 Sept | Concurrent forces, components Resolved parts of a force, Resultant of forces | Lecture, Assignments, Test |
|  | 1st October | | | 5 December | Equibilirium of three forces, Lami’s theorem, Parallel forces, moments and couples, Equivalent couples | Quiz, discussion, |
|  | 17 December | | | 13 February 2021 | Varignon’s theorem, resultant of a force and couple, equilibrium conditions, Friction. | Revision of few selected topics, Discussion of previous question papers |
| 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

**Lesson Plan 2020-21**

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

**Monthly Teaching Plans ( Semester- 4)**

**Session – 2020-21**

Name of the Teacher/s : Dr Leetika , Dr Sonica, Dr Ekta Jain

Department ; Mathematics

Class B A/ B Sc II Semester 4 Subject: Mathematics Section (s) A, B, Voc

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| S.No. | Date  (Monthly) | | | Topics to be Covered | | Academic Activity Undertaken\* |
| From | To | |
| Advanced Calculus II | 1st April | 30 April | | Sequences, sub Sequences | |  |
|  | 1st May | 30 May | | Sequential and uniform Continuity, Series, p test, Comparison test, Cauchy’s Integral and root test, Ratio Test | |  |
|  | 1st June | 15 July | | De Morgan test, Gauss test, log test, Leibnitz theorem, Absolute and conditional convergence, Riemann’s arrangements. | |  |
|  | | | | | | |
| Differential equations II | 1st April | | 30 April | | Laplace and inverse Laplace transformations |  |
|  | 1st May | | 30 May | | Applications of Laplace transformations, Partial Differential eqns |  |
|  | 1st June | | 15 July | | Series solutions , Bessels and Legendre’s eqns and solutions |  |
|  | | | | | | |
| Dynamics | 1st April | | 30 April | | Motion of a particle with constant acceleration, falling bodies, law of motion, motion of two particle connected with string, motion along a plane |  |
|  | 1st May | | 30 May | | Variable acceleration, SHM, elastic string, curvilinear motion, |  |
|  | 1st June | | 15 July | | Work , power, energy, Relative motion, momentum, collision of elastic bodies. |  |
| Departmental Meeting was held to 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