**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

|  |  |  |  |
| --- | --- | --- | --- |
| 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 |
|   |
|  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 |
|  |
|  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

|  |  |  |  |
| --- | --- | --- | --- |
| 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