

SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

LESSON-PLAN

Class: BA/ B.Sc. (N.M. & C.S.)

Semester: 3rd

Subject: Advanced Calculus

Session: 2020-21

| Lectures | Topic |
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| | <u>UNIT-1:</u> |
| 16 | <u>Ch.-1:</u> Continuous functions, Sequential continuity, Uniform continuity. |
| | <u>Ch.-2:</u> The derivative and Mean Value Theorems, Rolle's theorem |
| | <u>Ch.-3:</u> Indeterminate Forms Lagrange's Mean Value Theorem |
| 2 | Class Test and Discussion of Problems |
| | <u>UNIT-2:</u> |
| 18 | <u>Ch.-4:</u> Limit and Continuity of Functions of Two Variables. |
| | <u>Ch.-5:</u> Partial Differentiation |

Signature:

| Lectures | Topic |
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| 1 | Assignment and discussion of doubts. |
| | <u>UNIT-3</u> |
| | <u>Ch.-6</u> Differentiability of Functions of Two variables. |
| 18 | <u>Ch.-7</u> Maximum and Minimum of a function of two variables. |
| 2 | Class Test and discussion of Problems. |
| | <u>UNIT-4</u> |
| | <u>Ch.-8</u> Curves in Space |
| 22 | <u>Ch.-9</u> Circle of curvature and Spherical Curvature. |
| | <u>Ch.-10</u> Involutives and Evolutes |
| | <u>Ch.-11</u> Concept of a surface and Envelopes. |
| 1 | Assignment |
| 10 | Revision |