SY EXCP

ITVC:

Laplace Transform~

Introduction:
[LAPLACE TRANSFORM | MATHEMATICS | LECTURE 01 | Important Formulae | All University](#)

Heavi-sideunit step:

[Heaviside Function | Laplace | Laplace transform](#)

Dirac-Delta:

[Dirac Delta Function | Laplace](#)

Laplace Transform of periodic function:

[LAPLACE TRANSFORM | MATHEMATICS | LECTURE 02 | Laplace transforms of standard functions](#)

Linearity,First Shifting Theorem:

[LAPLACE TRANSFORM | MATHEMATICS | LECTURE 03 | First Shifting Theorem | PRADEEP GIRI SIR](#)

Second Shifting Theorem:

[Laplace Transform | Second Shifting Theorem | Concept & Example by GP Sir](#)

Multiplication by t:

[LAPLACE TRANSFORM | MATHEMATICS | LECTURE 04 | Effect of Multiplication by t | PRADEEP GIRI SIR](#)

Division by t:

[LAPLACE TRANSFORM | MATHEMATICS | LECTURE 05 | Effect of Division by t | PRADEEP GIRI SIR](#)

Laplace Transform of derivatives and integrals:

[LAPLACE TRANSFORM | MATHEMATICS | LECTURE 06 | Laplace Transform of Derivative and Integrals](#)

Change of Scale:

[LAPLACE TRANSFORM LECTURE 12 IN HINDI (CHANGE OF SCALE PROPERTY OF LAPLACE TRANSFORM)](#)

Inverse Laplace introduction(With formulas):

[INVERSE LAPLACE TRANSFORM|MATHEMATICS|LECTURE 01|Formulae|Standard & Shifting Theorem Based Question](#)

Partial Fraction Method:

[INVERSE LAPLACE TRANSFORM|MATHEMATICS|LECTURE 02|Method of Partial Fraction | PRADEEP GIRI SIR](#)

Convolution Theorem:

[INVERSE LAPLACE TRANSFORM|MATHEMATICS|LECTURE 03| Convolution Theorem | PRADEEP GIRI SIR](#)

Solution of ordinary Differential Equation:

[INVERSE LAPLACE TRANSFORM|MATHEMATICS|LECTURE 04|Differentiation and Integration | PRADEEP GIRI SIR](#)

Laplace Transform one shot:

[LAPLACE TRANSFORM | MATHEMATICS | ONE SHOT | PRADEEP GIRI SIR](#)

Inverse Transform one shot:

[Inverse Laplace Transform|Engineering Mathematics|One Shot |Pradeep Giri Sir](#)\

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Fourier Series:

Definition Dirichlet'scondition ,Euler's formulae & Complex Form of Fourier Series:

[FOURIER SERIES | LECTURE 01 | Fourier Series in (0,2π) |ENGINEERING|B.Sc|ALL UNIVERSITY|PRADEEP SIR](#)
[FOURIER SERIES | LECTURE 02 | Fourier Series in (0,2π) | Part 2 |ENGINEERING|B.Sc|ALL UNIVERSITY](#)
[FOURIER SERIES | LECTURE 03 | Fourier Series in (-π,π) | |ENGINEERING|B.Sc|ALL UNIVERSITY](#)

 Exponential:

 trigonometric functions:

Even and odd functions:

[FOURIER SERIES |LECTURE 04| Even and Odd Functions in (-π,π) |Part 1|ENGINEERING|B.Sc|ALL UNIVERSITY](#)
[FOURIER SERIES | LECTURE 05 |Even and Odd Functions in (-π,π)|Part 2|ENGINEERING|B.Sc|ALL UNIVERSITY](#)
[FOURIER SERIES | LECTURE 07 | Even and Odd Functions in (-l,l) |ENGINEERING|B.Sc|ALL UNIVERSITY](#)

Half Range Sine and Cosine:

[Fourier Series|Half Range Series|Lecture 08|Engineering Mathematics|Pradeep Giri Sir](#)

[Half Range Fourier Sine and Cosine Series Example | Lecture II by GP Sir](#)

Fourier Transform,integra and inversel:

[FOURIER TRANSFORM |Trick to Learn Important Formula|Lecture 01|Pradeep Giri Sir](#)

[FOURIER TRANSFORM ||Lecture 02|ENGINEERING MATHEMATICS|Pradeep Giri Sir](#)

Z transform:

introduction::

[Z TRANSFORMS | MATHEMATICS | LECTURE 01 | PRADEEP GIRI SIR](#)

Properties::

[Z TRANSFORM | PROPERTIES OF Z TRANSFORM | LECTURE 02 | ALL UNIVERSITY | PRADEEP GIRI SIR](#)

[Z TRANSFORM | PROPERTIES OF Z TRANSFORM | LECTURE 02 | ALL UNIVERSITY | PRADEEP GIRI SIR](#)

Inverse z transform::

[INVERSE Z TRANSFORM | Partial Fraction | Inversion Integral Method | LECTURE 02 | PRADEEP GIRI SIR](#)

Vector differentiation:

4.1::

[VECTOR DIFFERENTIATION |Vector Calculus|Gradient|Directional Derivative|Lecture 01| PRADEEP GIRI SIR](#)
[VECTOR DIFFERENTIATION | Angle Between the Normals | Lecture 02 | PRADEEP GIRI SIR](#)
[VECTOR DIFFERENTIATION | Divergence and Curl | Lecture 03 | PRADEEP GIRI SIR](#)

4.2::

[Divergence and Curl of vector field | Irrotational & Solenoidal Vector | Vector Calculus 2.O](#)

Oneshot::

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Vector integration::

[VECTOR INTEGRAL | VECTOR CALCULUS | Line Integral | Lecture 01 | Part 1 | PRADEEP GIRI SIR](#)
[VECTOR INTEGRAL | VECTOR CALCULUS | Line Integral | Lecture 02 | Part 2 | PRADEEP GIRI SIR](#)
[VECTOR INTEGRAL | VECTOR CALCULUS | Green Theorem | Green Lemma | Lecture 03 | PRADEEP GIRI SIR](#)
[VECTOR CALCULUS | Vector Integration | Stokes Theorem | Lecture 04 | PRADEEP GIRI SIR](#)

One shot::
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