

B.A/B.Sc II<sup>nd</sup> year.

ANUP SINGH.

Sub. P.D.E

1 Oct. to 1. Nov.

Formulation, order and degree  
linear and non-linear P.D.E  
Charpit method

1 Nov. to 1 Dec.

P.D.E of 2<sup>nd</sup> and higher order  
homogenous and non homogenous P.D.E  
with constant coefficients

1. Dec to 1. Jan.

Classification of linear P.D.E of 2<sup>nd</sup>  
order, hyperbolic, parabolic and  
elliptic type and reduced 2<sup>nd</sup> order  
P.D.E

1. Jan to 20 Feb.

Cauchy problem for 2<sup>nd</sup> order P.D.E  
characteristic eq and ch. curve

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B. Com I  
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Sub. Bis. Math.

2 Nov. to 1. Dec

Differentiation, Matrix, inverse matrix,

1. Dec. to 1 January

Adjoint matrix, maxima minima  
Compound interest.

1 January to end sem.

Reverse matrix, maxima minima  
Differentiation, logarithm.

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25 sep to 1. Nov.

Finite difference operators.

Newton's backward and forward interpolation

Hermite formula.

Nov to 1. Dec.

Central difference operators

Gauss forward and backward interpolation

Probability distribution.

1. Dec to 1 January

Numerical differentiation

eigen value problems.

1. Jan to 20 Feb.

Numerical differentiation and integration, Trapezoidal rule

Simpson's  $\frac{1}{3}$  and  $\frac{3}{8}$  formula.

Taylor's series method

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Algebra

2 Nov. to 1. December,

Matrix, inverse matrix,  
eigen value and eigen vector

1. Dec to 1 Jan.

System of equation, biquadratic  
equation solution.

1. Jan. to 1. Feb.

Solution of Cubic and  
biquadratic equation  
Ferrari method,  
Relation between roots and Coefficients

1. Feb to 20 Feb.

Descartes rule of signs

Cardan method

Apk