| Date | B.A./B.Sc. 1st Sem (Algebra) | B.A./B.Sc. 1st Sem (Solid Geometry) | B.A./B.Sc. 3rd Sem (Partial Diff. equation) | B.A./B.Sc. 3rd Sem (Statics) |
|----------|--|---|--|----------------------------------|
| 01.09.22 | Symmetric matrices Examples & Theorems | General equation of second degree. | Partial differential equations: Formation, order and degree | |
| 02.09.22 | Symmetric matrices Examples & Theorems | General equation of second degree. | Partial differential equations: Formation, order and degree | |
| 03.09.22 | Symmetric matrices Examples & Theorems | General equation of second degree. | Partial differential equations: Formation, order and degree | |
| 04.09.22 | | US | SUNDAY | |
| 05.09.22 | Skew symmetric matrices Examples & Theorems | General equation of second degree. | Linear Partial differential equations of the first order | Virtual work |
| 06.09.22 | Hermitian matrices :Examples & Theorems | General equation of second degree. | Linear Partial differential equations of the first order | Virtual work |
| 07.09.22 | Skew Hermitian matrices Examples & Theorems | General equation of second degree. | Linear Partial differential equations of the first order | Virtual work |
| 08.09.22 | Problems & Exercise | Tracing of conics. | Linear Partial differential equations of the first order | Y |
| 09.09.22 | Problems & Exercise | Tracing of conics. | Linear Partial differential equations of the first order | |
| 10.09.22 | Problems & Exercise | Tracing of conics. | Linear Partial differential | |
| 11.09.22 | 2 | SUNDAY | AY | |
| 12.09.22 | Elementary Operations on matrices: | Tracing of conics. | Non-Linear Partial differential equations of the first order | Virtual Work |
| Page | | 1 | | |

Lesson Plan 2022-23

. 1 1250

Name : PARVESH RANGA

Subject : Mathematics

Lesson Plan : September 2022 - December 2022

در

| 10 15 10 | 28.09.22 | 27.60.04 | | 24.09.22 | 27 40.05 | | 21.09.22 | 20.09.22 | 19.09.22 | 18.09.22 | 17.09.22 | 16.09.22 | 15,09.22 | 14.09.22 | 13.09.22 |
|---|---|----------|--------|---|----------|--|--|--|--|----------|--|--|---|----------------------|---------------------|
| Problems & Exercise | Caytey Hamilton theorem and its use in finding the inverse of a matrix. | | | Minimal polynomial of a matrix. | | and the characteristic reguation of a matrix. | | Problems & Exercise | Row rank and column rank of a matrix. | | Problems & Exercise | Problems & Exercise | Linear dependence and independence of rows and columns of matrices. | Inverse of a matrix. | Rank of a matrices. |
| director circle of conic | pole of line to the conic | IOH | | chord of contact | IOH | Tangent at any point to the conic | | Tangent at any point to the conic | Tangent at any point to the conic | SUI | Tracing of conics. | Tracing of conics. | Tracing of conics. | Tracing of conics. | Hacing of colles. |
| Compatible systems of first order equations | Charpit's general method of solution | HOLIDAY | SUNDAY | Solution of Lagrange's linear equations | HOLIDAY | Complete solution, singular solution, General solution | SUNDAY | Non-Linear Partial differential equations of the first order | Non-Linear Partial differential equations of the first order | Non-Linear Partial differential equations of the first order | | 1 12 |
| Forces in three dimensions | Forces in three dimensions | | | | | | Forces in three dimensions | Forces in three dimensions | Forces in three dimensions | | | | | Virtual work | Virtual work |

Scanned with CamScanner

4

2188

Pa

Scanned with CamScanner

3 | P

| 4 | |
|-----|----|
| σ | ţ |
| 2 | i |
| 200 | 1. |

1

| Page | | 31.10.22 | 30.10.22 | | 29.10.22 | 40.10.42 | 27.10.22 | 26.10.22 | 22.10.22 - | 21.10.22 | 20.10.22 | | 19.10.22 | | 18.10.22 | | 17.10.22 | 16.10.22 | 15.10.22 | 17.10.64 | 14 10 00 | 13,10.22 | |
|------------------------|-----------------------------|-----------------------|-----------|--|---------------------|---------------------------|---|------------------|--|------------------------|---------------------------|----------------------|--------------------------|---------------------------|---------------------------------|---------------------------|--|----------|-----------------------------|---|------------------------|---|-------------------------|
| | general polynomial equation | Relations between the | Dely tour | Bilinear and Quadratic forms: Problems & Evening | | forms and one class Test. | Unitary and Orthogonal Matrices : Problems & Exercise | | Matrices | Unitary and Orthogonal | Unitary and Orthogonal | Problems & Exercise | | equations. | Theorems on consistency | equations. | Theorems on consistency of a system of linear | | Problems & Exercise | Problems & Exercise | FIODICIIIS OF EACTORS | Drohlems & Evenise | homogeneous) equations. |
| 1 | Sur cucular cone | | | | Right circular cone | Right circula | Cones | DIWALI V | Cones | Cones | | Cones | | Co-axal system of spheres | | Co-axal system of spheres | | SUNDAY | Intersection of two spheres | Intersection of two spheres | | Intersection of two spheres | |
| equations to Canonical | Reduction of second order | SUNDAY | solutions | inear partial differential equations to Canonical | elliptic types | Hyperbolic, parabolic and | Hyperbolic, parabolic and elliptic types | DIWALI VACATIONS | Hyperbolic, parabolic and elliptic types | elliptic types | Hyperbolic, parabolic and | partial differential | Classification of linear | | Classification of linear | equations of second order | Classification of linear | AY | Problems & Exercise | linear equations with constant co-efficients | Equations reducible to | Equations reducible to linear equations with constant co-efficients | constant co-enicients |
| | Wrenches | | | | | | | | | | | Wrenches | | | Wrenches | | Wrenches | | | | | | |

| | in one variable. | | (Normal) forms and their solutions | |
|----------|--|---|---|-----------------------|
| 01.11.22 | | HC | Solutions | |
| 01.11.22 | | | 14 A. | |
| 02.11.22 | Relations between the roots and coefficients of general polynomial equation in one variable: Theorems | Right circular cone | Reduction of second order linear partial differential equations to Canonical (Normal) forms and their solutions | Wrenches |
| 03.11.22 | Relations between the roots and coefficients of general polynomial equation in one variable: Theorems | enveloping cone and reciprocal cone | Solution of linear hyperbolic equations | |
| 04.11.22 | Problems & Exercise | enveloping cone and reciprocal cone | Solution of linear hyperbolic equations | |
| 05.11.22 | Problems & Exercise | Cylinder: Right circular cylinder and enveloping cylinder | Solution of linear hyperbolic equations | |
| 06.11.22 | | St | JNDAY | |
| 07.11.22 | Solutions of polynomial equations having conditions on roots. | Cylinder: Right circular cylinder and enveloping cylinder | Monge's method for partial differential equations of second order | Null lines and planes |
| 08.11.22 | | HC | DLIDAY | |
| 09.11.22 | Solutions of polynomial equations having conditions on roots. | Cylinder: Right circular cylinder and enveloping cylinder | Monge's method for partial differential equations of second order | Null lines and planes |
| 10.11.22 | Problems & Exercise | Problems & Exercise | Monge's method for partial differential equations of second order | |
| 11.11.22 | Problems & Exercise | Problems & Exercise | Monge's method for partial differential equations of second order | |
| 12.11.22 | Problems & Exercise | Central Conicoids: Equation of tangent plane | Monge's method for partial differential equations of second order | |
| 13.11.22 | | | SUNDAY | |

| g e | 29.11.22 Problems | | A | | | 36 | | | 21.11.22 Problem | | | 19.11.22 Transfo | 18.11.22 Problen | | 17.11.22 | в | | |
|-------------|--------------------------|-----------------------------------|--------|--------------------------------|--------------------------------|--------------|---------------------|---------------------|--------------------------------------|--------|---|---------------------|--|---|--------------------------|--|--|--|
| | & Exercise | & Exercise | | Problems & Exercise o | | | Problems & Exercise | Problems & Exercise | Problems & Exercise | | quations. | rmation of | Problems & Exercise | Problems & Exercise | | Common roots and nultiple roots. | Problems & Exercise | Problems & Exercise |
| 1 | Enveloping cylinder of a | Enveloping cylinder of a coincoid | SUN | coincoid and Class Test | 8 | 0 | t. | | | SU | Normal to the conicoids | THE COLLECTIONS | Normal to the conjusts | Director sphere | | Director sphere | Central Conicoids: Equation of tangent plane | Equation of tangent plane |
| | (one and | (one and | SUNDAY | Solution of Laplace's equation | Solution of Laplace's equation | of Laplace's | of separation of | of separation of | Method of separation of variables | SUNDAY | Characteristic equations and characteristic curves of second order partial differential equation | unerential equation | Characteristic equations and characteristic curves of second order partial | and characteristic curves of second order partial differential equation | Characteristic equations | Cauchy's problem for second order partial differential equations | Cauchy's problem for second order partial differential equations | second order partial differential equations |
| equilibrium | Stable and Unstable | Stable and Unstable | | | | | Stable and Unstable | Stable and Unstable | Stable and Unstable | | | | | | | Null lines and planes | Null lines and planes | and planes |

Pa

| 30.11.22 | Nature of the roots of an equation Descarte's rule of signs. | Enveloping cylinder of a coincoid | Wave equation (one and two dimensions) | Stable and Unstable equilibrium |
|----------|--|-----------------------------------|---|------------------------------------|
| 01.12.22 | Problems & Exercise | Paraboloids: Circular section | Wave equation (one and two dimensions) | |
| 02.12.22 | Problems & Exercise | Paraboloids: Circular section | Wave equation (one and two dimensions) | |
| 03.12.22 | Problems & Exercise | Paraboloids: Circular section | Diffusion (Heat) equation (one and two dimension) in Cartesian Coordinate system | |
| 04.12.22 | | SUNDA | Y | |
| 05.12.22 | Problems & Exercise | Plane sections of conicoids | Diffusion (Heat) equation (one and two dimension) in Cartesian Coordinate system | Stable and Unstable equilibrium |
| 06.12.22 | Problems & Exercise | Plane sections of conicoids | Diffusion (Heat) equation (one and two dimension) in Cartesian Coordinate system | Stable and Unstable equilibrium |
| 07.12.22 | Problems & Exercise | Plane sections of conicoids | Diffusion (Heat) equation (one and two dimension) in Cartesian Coordinate system | Stable and Unstable equilibrium |
| 08.12.22 | Problems & Exercise | Generating lines | Diffusion (Heat) equation (one and two dimension) in Cartesian Coordinate system | |
| 09.12.22 | Problems & Exercise. | Generating lines | Diffusion (Heat) equation (one and two dimension) in Cartesian Coordinate system | |
| 10.12.22 | Solutions of cubic equations (Cardon's method). | Generating lines | Diffusion (Heat) equation (one and two dimension) in Cartesian Coordinate system | |
| 11.12.22 | | SUNDA | Y | |
| 12.12.22 | Problems & Exercise | Generating lines | Problems & Exercise | Stable and Unstable |

1



Assistant Professor in mathematics GC Behrampur (Bapauli) PANIPAT

| 24.12.22 | 23.12.22 | 44.14.44 | 21.12.22 | 20.12.22 | 19.12.22 | 18.12.22 | 17.12.22 | 16.12.22 | 15.12.22 | 14.12.22 | 13.12.22 |
|----------------------------|--------------------------------------|--|--|---------------------|---------------------------------|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| Problems & Exercise | Problems & Exercise | biquadratic equations and their solutions. | Problems & Exercise | Problems & Exercise | Problems & Exercise | The second s | Problems & Exercise |
| Reduction of second degree | Reduction of second degree equations | Reduction of second degree equations | Confocal conicoid and one Assignment. | Confocal conicoid | Confocal conicoid | SUNDAY | Confocal conicoid | Confocal conicoid | Confocal conicoid | Generating lines | Generating lines |
| Problems & Exercise | Problems & Exercise | Problems & Exercise | Problems & Exercise | Problems & Exercise | Problems & Exercise | AY | Problems & Exercise |
| | | | Stable and Unstable | Stable and Unstable | Stable and Unstable equilibrium | | | and a second second | 2 | Stable and Unstable | Stable and Unstable |

Scanned with CamScanner