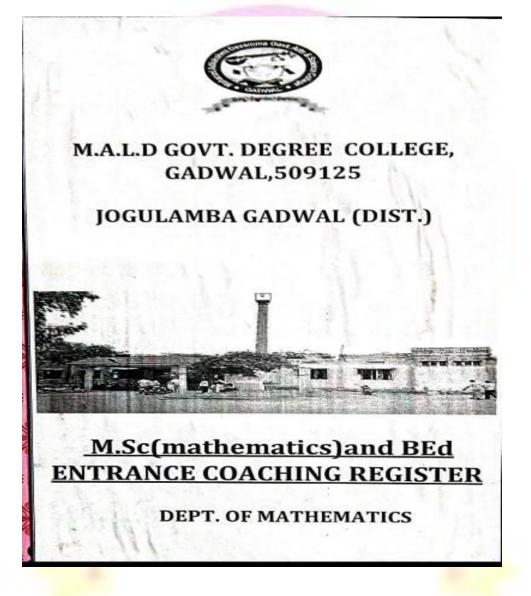




## Academic Year: 2018-19







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## DEPARTMENT OF MATHEMATICS MALD GOVT. DEGREE COLLEGE, GADWAL 2018-2019

### CERCULAR

It is inform to the students of B.Sc (physical science) of III year . The department of Mathematics is going to conduct M.Sc (Mathematics) and Bed Entrance coaching in our college from 1/03/209. Hence the students who are willing to attend M.Sc (Mathematics) and Bed Entrance coaching enroll your names at Department of Mathematics on or before date  $OF^{1}03/2019$ 

Coaching time: 4:00pm to 5:00pm

Place: GJ Block, Room no: 01



Department of Mathematics

3





## 1 MALD - JOV -- Degree college 5adttal

## SA MATHEMATICS

Phone syllabus

## DIFFERENTIAL CALCULUS (15 Marks)

Successive Differentiation: Expansions of Functions: Mean value theorems, Indeterminate Serme - Curvature and Evolutes. Partial differentiation - Homogeneous functions - Total desivative: Maxima and Mauma of functions of two variables -Lagrange's Method of multipliers - Asymptotes - Ewelopes.

## DIFFERENTIAL EQUATIONS (20 Marks)

Differential Equations (20 Marke) Differential Equations of first order and first degree. Exact differential equations – Integrating Factors – Change in variables – Total Differential Equations – Simultaneous Total Differential equations – Equations of the form  $\frac{dr}{p} = \frac{dr}{Q} = \frac{dr}{k}$ . Differential Equations

first order but not first degree. Equations websible for y - Equations schuble for a Equations that do not contain X ( or y ) - Claimon's Equation.

Higher order linear differential equational Solution of hemogeneous linear differential equations with constant coefficients. Solution of non-homogeneous differential equations P(Diy = Qi) with constant coefficients by means of palynemial operators when Q(x) = be", b Sin as / b Cos as , bs', Fe". Method of undetermined coefficients - Method of variation of parameters - Linear differential equations with non-constant coefficients -Partial Differential equations: Formation and solution: Equations easily integrable

Linear equations of first order - Non-linear equations of first order - Charpit's method Homogeneous linear partial differential equations with constant coefficient - Non-homogeneous linear partial differential equations - Separation of variables.

### REAL ANALYSIS: [18 Marks]

Back statution (100 marks) Bequences - Monotone Sequences - A Discussion about Proofs - Limit Theorems for Sequences - Monotone Sequences and Cauchy Sequences. Subsequences - Lim ways and Lim inffs - Series - Alternating Series and Integral Tests. Sequences and Berlas of Functions: Power Series - Uniform Convergence - More on Uniform Convergence -Differentiation and Integration of Power Series. Integration: The Riemann Integral - Properties of Riemann Integral - Pundamenial

Theorem of Calculus

### ALGEBRA: (17 Marks)

ALGEBRA: (17 Marks) Orenps: Definition and Examples of Groups- Elementary Properties of Groups -Finite Groups: Subgroups -Terminology and Notation -Subgroup Tests - Examples of Subgroups (Cyclic Groups:Properties of Cyclic Groups - Classification of Subgroups Cyclic Groups - Permutation - A Check Digit Scheme Based on De. Isomerphama Motivation - Definition and Examples - Cayley's Theorem Properties of Isomorphisms -Automorphisms - Cosets and Lagrange's Theorem Properties of Isomorphisms -Automorphisms - Cosets and Lagrange's Theorem Properties of Cosets 133 - Lagrange's Theorem and Consequences - An Application of Cosets to Permutation Groups - The Rotation Group of a Cube and a Soccer Ball - Normal Subgroups and Pactor Groups -Normal Subgroups - Pactor Groups - Applications of Pactor Groups - Group Homomorphisms - Definition and Examples - Properties of Isomorphisms - Breit

### Isomorphism Theorem

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### LINEAR ALGEBRA: (15 Marks)

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RUNKRICAL AMAINEN (15 Marks) Solutions of Equations in One Variable: The Essection Nethod - Freed Point Receiving Network Nethod and Da Extensions - Score Analysis for Sension Methods - Accelerating Convergence - Zenes of Networks and Nethork - Methods - Survey of Networks and

Software. Interpolation and Polynomial Approximation: Interpolation and the Lagrange Polynomial – Data Approximation and Neulis's Nethed – Davided Differences – Hermite Interpolation – Cubic Spike Interpolation. Numerical Differentiation and Intergration – Numerical Differentiation – Richardson's Katapolation – Evenesis of Numerical Interpolation – Camposite Numerical Integration – Nonberg Integration – Adoptive Quadrature Nethods – Gozalan Quadrature.

Team.

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- Bhanti Neroyen and Mittal, Differential Calculus
   Zafar Alexes, Differential Equations and Their Applications
   Kenneth A Ross, Barnentary Analysis-The Theory of Calculus
   Jeargh A Gallan, Contemporary Abstract algebra (ib) edition)
   Devid C Loy, Linzer Algebra and its Applications 4re
   Richard L, Darden and J. Desglas Faces, Numerical Analysis (Fe)







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# M.Sc Mathematics Entrance Coaching delivered by

Sri. V.Manoj Kumar Asst.Prof of Mathematics , Sri. K.Satyanna Asst. Prof of Mathematics

















## M.Sc Entrance Books Issued Register

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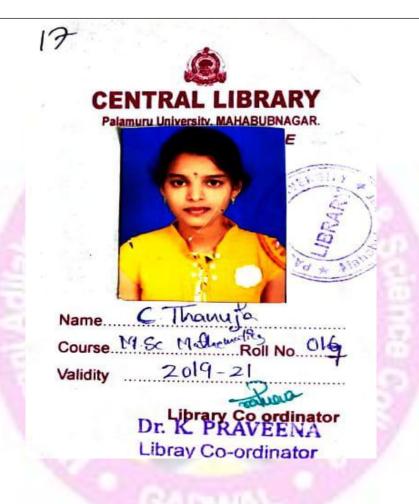




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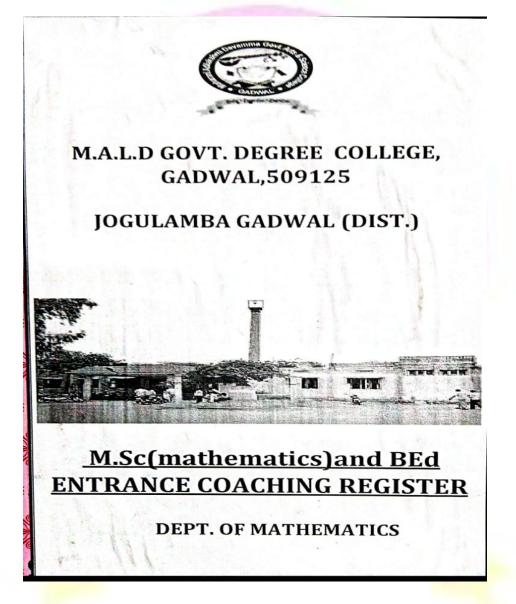
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Academic Year: 2019-20







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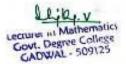
## DEPARTMENT OF MATHEMATICS MALD GOVT. DEGREE COLLEGE, GADWAL 2019-2020

### CERCULAR

It is inform to the students of B.Sc (physical science) of III year . The department of Mathematics is going to conduct M.Sc (Mathematics) and Bed Entrance conching in our college from مارمدارهما مارمها الماري ا

Coaching time: 4:00pm to 5:00pm

Place: GJ Block, Room no : 2







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## 6 MALD. JOVI- Degree college Gadbad

## Phois syllabus

## DIFFERENTIAL CALCULUS. [18 Marks]

44 MATHEMATICS

Surveyage Differentiation Expansions of Possiums Mean value theorem, Indeterminate forms - Curvature and Evolutes. Partial differentiation - Ilmangements functions - Total derivative Maxima and Maxima of functions of two variables -Lagrange's Method of multipliers - Asymptotes - Ewelopes.

## DIFFERENTIAL EQUATIONS: (20 Marks)

Burbankintak Equations of first order and first degree Exect differential equations -bifferential Equations of first order and first degree Exect differential equations -longesting Factors - Change in variables - Total Differential Equations - Simulations Total Differential equations - Equations of the form  $\frac{dx}{P} = \frac{dy}{Q} = \frac{dy}{R}$ . Differential Equations

first order but not first degree: Equations solvable for y . Equations solvable for zEquations that do not contains x ( or y ) - Clairent's Equation.

Higher order Baser differential equational Solution of homogeneous latest differential equations with curstant coefficients. Solution of new-homogeneous differential equations P(Day = Qb) with constant coefficients by means of polynomial operators when  $Q(x) = be^{i\theta}$ ,  $b \sin a x / b \cos a x$ ,  $bx^4$ ,  $Fe^{i\theta}$ , Method of undetermined coefficients - Method of

Utilization of parameters - Linear differential equations with non-constant coefficients -The Cauchy-Euler Equation. Partial Differential equations: Fremation and solution: Equations easily integrable -Linear equations of first order - Non-linear equations of first order - Charpit's method Homogeneous linear partial differential equations with constant coefficient - Non-homogeneous linear partial differential equations - Separation of variables.

### REAL AMALYSIS: (18 Marks)

Requestions: Limits of Sequences - A Discussion about Proofs - Limit Theorems for Sequences - Monotenes Sequences and Couchy Sequences. Subsequences - Lies sup-and Lin inf's - Series - Alternating Series and Integral Texis. Bequences and Series of Pusations: Power Series - Uniform Convergence - More on Uniform Convergence -Differentiation and Integration of Power Series. Integrations: The Riemann Integral - Properties of Riemann Integral - Pundamental Theorem of Calculus.

#### ALGEBRA (17 Marks)

ALGERRA: (17 Marks) Groups: Definition and Examples of Groups: Elementary Properties of Groups -Finite Groups: Subgroups: Terminology and Notation -Subgroup Tests - Examples of Subgroups Opelle Groups:Properties of Opelle Groups - Casadication of Subgroups Cyclic Groups - Permutation Groups: Definition and Notation - Cycle Motelian Moviestion - Definition and Examples - Castely Theorem Properties of Isomorphisms Motionship - Castel and Lagranging Theorem Properties of Castel 138 - Lagrangin Theorem and Consequences - An Application of Costs 138 - Lagranging Theorem and Consequences - An Application of Costs to Permutation Groups - The Ration Group of a Cube and a Soccer Ball - Normal Subgroups and Pastor Groups Hormal Subgroups - Pettor Groups - Applications of Pactor Groups - Group Homemerphisms - Definition and Examples - Properties of Costs - Group Homemerphisms - Definition and Examples - Properties of Marcordrophisms - The Piettor Hormal Subgroups - Definition and Examples - Properties of Marcordrophisms - The Piettor Hormal Subgroups - Definition and Examples - Properties of Marcordrophisms - The Piettor Hormal Subgroups - Definition and Examples - Properties of Marcordrophisms - The Piettor Homemerphisms - Definition and Examples - Properties of Marcordrophisms - The Piettor Homemerphisms - Definition and Examples - Properties of Marcordrophisms - The Piettor Homemerphisms - Definition and Examples - Properties of Marcordrophisms - The Piettor Homemerphisms - Definition and Examples - Properties of Marcordrophisms - The Piettor Homemerphisms - Definition and Examples - Properties of Marcordrophisms - The Piettor Homemerphisms - Definition and Examples - Properties of Marcordrophisms - The Piettor Homemerphisms - Definition and Examples - Properties of Marcordrophisms - The Piettor Homemerphisms - Definition and Examples - Properties of Marcordrophisms - The Piettor Homemerphisms - Definition Advectordrophisms - Definition Advectordrophisms - Definition Advectordrophisms - Definit

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### LINEAR ALGENRA: (15 Marks)

EIREAR ALOXARA: (18 Norke) Vector Spaces Vector Spaces and Solitopaces - Null Spaces, Column Spaces, and Linear Transionations - Linearly Independent Sea, Boos - Cacedinate Systems - The Distantian of a Vector Space. Space Change of Host - Sign values and Eigenvectors - The Characteristic Equation Disgonalization - Sign values and Eigenvectors - The Characteristic Equation Disgonalization - Sign values and Eigenvectors - The Characteristic Equation Disgonalization - Sign values and Eigenvectors - Complex Eigenvalues - Applications to Differential Equations - Orthogonality and Least Eigenvectors Inter Product, Longba, and Orthogonality - Orthogonal Sets.

RUMERICAL ARALYSIS (15 Marks) Bolotices of Equations in One Veriable: The Direction Method - Food-Vaint Resulton Newton's Wellack and its Extensions - Error Analysis for Resultor Methods - Accelerating Consequence - Zeros of Polynomials and Miller's Method - Survey of Mathada and Vertexco Baltware

Serveral Interpristion and Polynemial Approximation: Interpristone and the Lagrange Delynemial - Data Approximation and NextDe's Method - Divided Differences - Hermite regulation - Cubic Spline Interpolation.

Interprotectal Officentiation and Integration Numerical Differentiation - Statuation's Statuspickies - Elements of Numerical Integration - Compasite Numerical Integration -Wanterig Baleguiton - Adoptive Quadrature Wethods - Gaussian Quadrature.

- Teals Shorti Nacayan and Mittal, Differential Calculus

- Beenin Twarapan and Miller, Colleventia Cabridan Zafar Alxan, Differential Separatemis and Thrief, Applications Konzeth A Boos, Sciencedary Analysis The Theory of Calculus Joseph A Gallan, Contemporary Noticat algebra (His edition) David C Lay, Uncer Algebra and an Applications 4= Bichard L. Burden and J. Deugles Patres, Numerical Analysis (Hi

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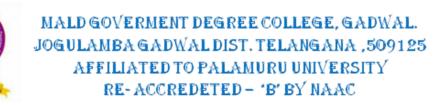


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