	<b>Dr. N.G.P. ARTS AND SCIENCE COLLEGE</b> (An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore) (Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3 <sup>rd</sup> Cycle - 3.64 CGPA) Dr. N.G.P. - Kalapatti Road, Coimbatore - 641 048, Tamil Nadu, India Web : www.drngpasc.ac.in   Email : info@drngpasc.ac.in   Phone : +91-422-2369100	<b>BoS</b>
		<b>14<sup>th</sup></b>

### MINUTES OF THE FOURTEENTH BOARD OF STUDIES MEETING

**Faculty: BAS**

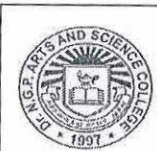
**Board: Mathematics**

The Meeting of Board of Studies (BoS) was held as given below:

<b>Name of the Body</b>	<b>Board of Studies</b>
<b>Department</b>	<b>Mathematics</b>
<b>Meeting No.</b>	<b>14</b>
<b>Date and Time</b>	<b>19.11.2022 and 10 a.m.</b>
<b>Venue</b>	<b>IQAC Board Room, A1 Block</b>
<b>Members Attended</b>	<b>The details are given in the ANNEXURE -I</b>

Item	AGENDA
01	Discussion on UG syllabi for Part III - Core Courses in second semester for 2022-23 Batch and onwards
02	Discussion on syllabus for Part III - Inter Disciplinary Course (IDC) offered by Department of Physics for 2022-23 Batch and onwards
03	Discussion on Part I (Tamil/Hindi/French/Malayalam) offered by Language department for 2022-23 Batch and onwards
04	Discussion on Part II (English) offered by English Department for 2022-23 Batch and onwards
05	Discussion on Part IV (AECC - II) Basic Tamil and Advanced Tamil offered by Tamil department and Human Rights & Women's Rights offered by Department of Commerce with Corporate Secretaryship with CA respectively for Second semester 2022-23 Batch and onwards
06	Discussion on credits for Part V Extension Activity for 2022-23 Batch and onwards
07	Discussion on PG syllabi in second semester courses for 2022-23 Batch and onwards
08	Discussion on syllabus for Extra Disciplinary Course (EDC) offered by Computer Science with Data Analytics department.
09	Discussion on syllabi for Part III - Inter Disciplinary Course (IDC) offered to other departments
10	Discussion on Value Added Certificate Courses (VACC)
11	Any other matter





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## MINUTES OF THE FOURTEENTH BOARD OF STUDIES MEETING

Faculty: BAS

Board: Mathematics

The Chairman of BoS welcomed all the Panel members for the meeting. The items listed in the agenda were taken for discussion.

The following are the minutes of the meeting:

Item - 01	<b>Discussion on UG syllabi for Part III - Core Courses in second semester for 2022-23 Batch and onwards</b>
Discussion	<b>222MT1A2CA – Differential Equations</b> Dr. Balamani suggested to include the following topics : <ul style="list-style-type: none"><li>• Origin of PDE</li><li>• Formation of PDE</li><li>• Mixture problems and Applications to Mechanics.</li></ul> <b>222MT1A2CB – Fourier Series and Integral Transforms</b> <ul style="list-style-type: none"><li>• Dr. Rameshbabu suggested to introduce Fourier series instead of Z-transforms for gaining knowledge on signal processing</li></ul>
Resolution	The Board approved the syllabi
Item - 02	<b>Discussion on syllabus for Part III - Inter Disciplinary Course (IDC) offered by Department of Physics</b>
Discussion	<b>222PY1A2IP – Applied Physics</b> <ul style="list-style-type: none"><li>• Syllabus approved by the Board of Studies in Physics is placed for endorsement.</li></ul>
Resolution	The Board approved the same
Item - 03	<b>Discussion on Part I (Tamil/Hindi/French/Malayalam) offered by Language department for 2022-23 Batch and onwards</b>
Discussion	<b>Part I :</b> <b>221TL1A2TA-Tamil- II: Ara Illakiyam</b> <b>221TL1A2HA- Hindi- II: Modern literature</b> <b>221TL1A2FA-French- II: Grammar, Translation and civilization</b> <b>221TL1A2MA -Malayalam-II: Modern literature respectively (New Course)</b> <ul style="list-style-type: none"><li>• The unified syllabi approved by the Board of Studies in Languages were placed for endorsement.</li></ul>
Resolution	The Board approved the same
Item -04	<b>Discussion on Part II (English) offered by department of English for 2022-23 Batch and onwards</b>
Discussion	<b>221EL1A2EA : Part II: Professional English II</b> <ul style="list-style-type: none"><li>• The unified syllabus approved by the Board of Studies in English was placed for endorsement.</li></ul> <p style="text-align: right;">Cont...</p>





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<b>Resolution</b>	The Board unanimously approved the syllabus
<b>Item -05</b>	<b>Discussion on Part IV (AECC - II) Basic Tamil &amp; Advanced Tamil offered by Tamil department and Human Rights &amp; Women's Rights offered by Department of Commerce with Corporate Secretaryship with CA respectively in Second semester for 2022-23 Batch and onwards</b>
<b>Discussion</b>	<b>221TL1A2AA:(AECC - II) Basic Tamil and 221TL1A2AB: Advanced Tamil</b> <ul style="list-style-type: none"><li>The unified syllabus approved by the Board of Studies in Tamil was placed for endorsement</li></ul> <b>225CR1A2AA: (AECC - II) Human Rights &amp; Women's Rights (New Course)</b> <ul style="list-style-type: none"><li>The unified syllabus approved by the Board of Studies in Commerce with Corporate Secretaryship with CA was placed for endorsement</li></ul>
<b>Resolution</b>	The Board approved the syllabi
<b>Item-06</b>	<b>Discussion on credits for Part V Extension Activity for 2022-23 Batch and onwards</b>
<b>Discussion</b>	<ul style="list-style-type: none"><li>One credit to be awarded for each extension activity in YRC/RCC//NSS/ RRC/Yoga/Sports/Clubs</li></ul>
<b>Resolution</b>	The Board members approved the same
<b>Item-07</b>	<b>Discussion on PG syllabi for second semester of 2022-23 Batch and onwards</b>
<b>Discussion</b>	<b>222MT2A2CA – Complex Analysis</b> <p>Dr. Balamani suggested to include the following Fourier development, functions of finite order, period module, general properties of Elliptic functions and Weierstrass p-function for better understanding of Complex functions.</p> <b>222MT2A2CB – Topology</b> <p>Dr. Rameshbabu suggested to include the topics</p> <ul style="list-style-type: none"><li>Countability axioms.</li><li>Nagata-Smirnov metrization theorem, paracompactness and Smirnov metrization theorem.</li><li>Complete metric spaces, compactness in metric Spaces, pointwise and compact convergence and Ascoli's theorem.</li><li>Connected subspace of the real line, limit point compactness.</li><li>Basis, order topology, closed sets and limit points, continuous functions and metric topology.</li></ul> <b>222MT2A2CC – Partial Differential Equations</b> <p>Dr. Narayanamoorthy and Dr. Rameshbabu suggested to include the following -</p> <ul style="list-style-type: none"><li>Cauchy equation of first order.</li><li>General solution of wave equation</li><li>Green's function</li></ul>

Cont...





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	<p><b>222MT2A2CP – Computational Mathematics (New Course)</b> Dr. Narayanamoorthy and Dr. Ramesh babu suggested to include the following programs - Latex documentation and solving PDEs.</p> <p><b>222MT2A2DA – Wavelet Analysis (New Course)</b> Dr. Narayanamoorthi and Dr. Rameshbabu suggested to include Wavelet Analysis to solve differential equations using computational techniques which has applications in signal processing.</p> <p><b>222MT2A2DB – Information and Coding Theory (New Course)</b> Dr. Balamani recommended to introduce this course that gives more insights on real life applications of algebra.</p> <p><b>222MT2A2DC – Mathematical Finance (New Course)</b> Dr. Narayanamoorthy suggested to frame the contents based on Stochastics approach.</p>
<b>Resolution</b>	The Board approved the syllabi
<b>Item-8</b>	<b>Discussion on syllabus for Extra Disciplinary Course (EDC) offered by Computer Science with Data Analytics department</b>
<b>Discussion</b>	<b>224DA2A2EB – Foundations of Data Analytics</b> <ul style="list-style-type: none"><li>• Syllabus approved by Board of Studies of Computer Science with Data Analytics was placed for endorsement.</li></ul>
<b>Resolution</b>	The Board approved the syllabus
<b>Item-9</b>	<b>Discussion on syllabi for Part III - Inter Disciplinary Course (IDC) offered to other departments</b>
<b>Discussion</b>	<p><b>222MT1A2IA- Business Statistics (B.Com. – CA, PA, BA, BPS, IT &amp; IB)</b> Dr. Balamani suggested to include the following :</p> <ul style="list-style-type: none"><li>• Probability theory</li><li>• Alternative approach for regression equations</li><li>• Geometric mean, Harmonic mean, Range</li><li>• Forecasting to improve computational skill.</li></ul> <p><b>222MT1A2IB / Mathematics For Management-II (B.B.A.(CA))</b> Dr. Rameshbabu suggested to include sequencing models and remove game theory to develop understanding in management process.</p> <p><b>222MT1A2IC- Discrete Mathematics (B.Sc. - CS, IT, CT &amp; Cognitive systems) and BCA</b> Dr. Narayanamoorthi and Dr. Balamani suggested to include the following -</p> <ul style="list-style-type: none"><li>• Applications of tree with graph theory to store hierarchical data</li><li>• Quantifiers in predicate calculus for examining the validity of statements.</li></ul> <p><b>222MT1A2ID- Mathematics for Computing – II (B.Sc. CSDA, AI &amp; ML) (New course)</b> Dr. Ramesh Babu suggested to include the following concepts in the Mathematics for Computing II - probability theory, distribution and tests of significance.</p> <p style="text-align: right;">Cont...</p>





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	<p><b>222MT1A1IP-Statistical Analysis and Tools (B.Sc. Physics) (New Course)</b> Dr. Rameshbabu recommended to use R software for computing central tendency and dispersion, correlation and regression.</p> <p><b>222MT2A2EA-Numerical Methods (M.Sc. Physics)</b> Dr. Narayanamoorthi and Dr. Balamani suggested to include the concept on numerical solution for differential equations - methods.</p> <p><b>222MT2A2EB-Mathematical Physics (M.Sc. Medical Physics)</b> Dr. Narayanamoorthi suggested to give contents like</p> <ul style="list-style-type: none"><li>• Monte carlo method and computational tools like Matlab and Statistica in data analysis and graphics.</li></ul> <p><b>222MT2A2EC- Operations Research (M.Com.) (New Course)</b> Dr. Rameshbabu suggested to include the following concepts - LPP, Transportation, Assignment problem, Decision theory and Network Analysis for application in time management and network optimization.</p> <p><b>222MT2A2ED- Advanced Operations Research (M.Sc. CS) (New Course)</b> Dr. Balamani suggested to include the following topics - sequencing problem, decision Analysis, Goal, Integer &amp; dynamic programming.</p>
<b>Resolution</b>	The Board unanimously approved the syllabi
<b>Item-10</b>	<b>Discussion on Value Added Certificate Course (VACC)</b>
<b>Discussion</b>	The course titled <b>Typesetting using Latex</b> to be offered for 2022-23 batch and onwards was discussed
<b>Resolution</b>	The Board approved the same
<b>Item -11</b>	<b>Any other matter</b>
<b>Discussion</b>	<ul style="list-style-type: none"><li>• The board members discussed the Panel of Examiners</li><li>• Based on the feedback from stakeholders, the board suggested to give more concentration on practical component in the course that need computational skill.</li></ul>
<b>Resolution</b>	The Board approved the same

The Chairman of Board of Studies (BoS) thanked all the members for their active participation and providing their valuable suggestions.

(Dr. R. Sowrirajan)

BoS Chairman/Head  
Department of Mathematics  
Dr. N. G. P. Arts and Science College  
Coimbatore - 641 048

Date: 19.11.2022



Dr. NGPASC  
COIMBATORE, INDIA



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## Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT1A2CA/ DIFFERENTIAL EQUATIONS

Unit	Existing	Changes
I	<b>Linear differential equations with constant coefficients</b> Linear differential equations with constant coefficients - determination of complementary function - working rule for finding C.F. - the symbolic function $1/f(D)$ - general method of getting P.I - working rule for finding P.I - methods of finding P.I $X=\exp(ax)$ , $\sin ax$ , $\cos ax$ , $n$ th power of $x$ , $\exp(ax)V, xV$ .	
II	<b>Linear differential equations of second order</b> General form - complete solution of $y''+Py'+Qy=R$ - rule for getting an integral belonging to C.F of $y''+Py'+Qy=R$ - working rule for finding complete primitive solution - removal of first derivative reduction to normal form - transformation of the equation by changing the independent variable - method of variation of parameters - solutions by operators	
III	<b>Application of Differential equations</b> Introduction - Newton's second law and Hooke's law - differential equation of the vibrations of a mass on a spring - Free, undamped motion - Free, damped motion - forced motion - resonance phenomena - electric circuit problems.	Mixture problems- Applications to mechanics
IV	<b>Linear partial differential equations of order one</b> Lagrange's equation - Lagrange's method of solving $Pp+Qq=R$ - Type 1 based on rule I - Type 2 based on rule II - Type 3 based on rule III - Type 4 based on rule IV	Origin of PDE - derivation of PDE by the elimination of arbitrary constant and function- Cauchy's problem- miscellaneous examples
V	<b>Non-linear partial differential equations of order one</b> Complete integral - particular integral - singular and general integral - geometrical interpretation - method of getting singular integral - compatible system of first order equations - Charpit's method - special methods of solutions applicable to certain standard forms - standard forms I, II, III and IV.	

PERCENTAGE OF SYLLABUS REVISED: 15%

COURSE FOCUSES ON:

<input checked="" type="checkbox"/>	Skill Development	<input type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input type="checkbox"/>	Innovations
<input type="checkbox"/>	Intellectual Property Rights	<input type="checkbox"/>	Gender Sensitization
<input type="checkbox"/>	Social Awareness/ Environment	<input type="checkbox"/>	Constitutional Rights/ Human Values/ Ethics





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## Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT1A2CB Fourier Series and Integral Transforms

Unit	Existing	Changes
I	<b>Fourier Transform:</b> Fourier Transforms-Fourier sine and cosine transforms-linearity property -change of scale property- Modulation theorem-evaluation by means of inversion theorems-Fourier transform of some particular functions-convolution of functions-convolution theorem -Parseval's relations	Unit I: The Fourier coefficients-the problem of convergence-even and odd functions. Cosine and sine series-extension to arbitrary intervals.
II	<b>Inverse Fourier Transforms and applications:</b> Fourier transforms of rational functions-examples - solution of integral equations of Convolution Type-Fourier transform of functions of several variables-application of Fourier transform to Boundary Value Problems	
III	<b>Laplace transform:</b> Definitions-Sufficient conditions -linearity property - Laplace transforms of some elementary functions-first shift theorem-second shift theorem-The change of scale property-examples-Laplace transform of derivatives and integrals-Laplace transform of $\ln f(t)$ and $f(t)/t$ -Laplace transform of a periodic function- initial and final value theorems-examples-Laplace transform of some special functions-convolution of two functions.	
IV	<b>Inverse Laplace Transform and applications:</b> Introduction-Laplace inversion of some elementary functions-method of partial fractions -general evaluation technique- application of Laplace transform	
V	<b>The Z-transform:</b> Introduction-Z transform: definition-some operational properties of Z-transform-application of Z-transforms.	

PERCENTAGE OF SYLLABUS REVISED: 20%

COURSE FOCUSES ON:

<input checked="" type="checkbox"/>	Skill Development	<input type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input type="checkbox"/>	Innovations
<input type="checkbox"/>	Intellectual Property Rights	<input type="checkbox"/>	Gender Sensitization
<input type="checkbox"/>	Social Awareness/ Environment	<input type="checkbox"/>	Constitutional Rights/ Human Values/ Ethics





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## Syllabus (New Course)

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222PY1A2IP APPLIED PHYSICS

Unit	Content
I	<p><b>Properties of Matter:</b> Young's Modulus – Rigidity Modulus – Poisson's Ratio – Bending of Beams – Expression for Bending Moment – Measurement of Young's Modulus – Uniform and Non-Uniform Bending</p> <ol style="list-style-type: none"> <li>Determine the Young's modulus of a given bar – Uniform bending (Microscopic method).</li> <li>Determine the Young's modulus of given bar - Non Uniform bending (Microscopic method).</li> <li>Determination of rigidity modulus of a string by using static method</li> </ol>
II	<p><b>Viscosity:</b> Poiseuille's formula for the flow of a liquid through capillary tube – Ostwald's viscometer – Stokes method for coefficient of viscosity of a viscous liquid – Friction and lubrication.</p> <ol style="list-style-type: none"> <li>Determine the coefficient of viscosity of water by Poiseuille's Method.</li> <li>Determine the coefficient of viscosity of water by Stoke's Method.</li> </ol>
III	<p><b>Surface Tension and Vibration:</b> Explanation of surface tension on kinetic theory – Work done in increasing area of a surface – Pressure difference across a liquid surface - Jaegar's method - Transverse and longitudinal modes of vibration - A.C. frequency measurement using sonometer.</p> <ol style="list-style-type: none"> <li>Determine the surface tension of water by drop weight method.</li> <li>Study the frequency of a tuning fork by sonometer.</li> </ol>
IV	<p><b>Gravitation:</b> Newton's law of gravitation - Kepler's laws of planetary motion - Determination of 'G' Boy's experiment - Variation of g with altitude &amp; depth - Determination of g with compound pendulum.</p> <ol style="list-style-type: none"> <li>Compound Pendulum - Determination of 'g'.</li> <li>Torsional pendulum - Determination of moment of inertia of given disc.</li> </ol>
V	<p><b>Microprocessors 8085 instruction set:</b> 8085 Machine language - 8085 assembly language - ASCII codes - writing and executing an assembly language program - High level language - Operating system.</p> <ol style="list-style-type: none"> <li>Write the assembly language program for 8-bit subtraction.</li> <li>Write the assembly language program for 8-bit addition.</li> <li>Write the assembly language program for 8 bit Multiplication.</li> </ol>

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUSES ON:

<input checked="" type="checkbox"/>	Skill Development	<input checked="" type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input checked="" type="checkbox"/>	Innovations
<input checked="" type="checkbox"/>	Intellectual Property Rights	<input checked="" type="checkbox"/>	Gender Sensitization
<input checked="" type="checkbox"/>	Social Awareness/ Environment	<input checked="" type="checkbox"/>	Constitutional Rights/ Human Values/ Ethics







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## Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT2A2CA Complex Analysis

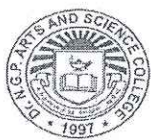
Unit	Existing	Changes
I	<del>Analytic function and conformality: Limits and continuity — Analytic functions — Polynomials — Rational functions. Arcs and closed curves — Analytic functions in regions — Conformal mapping — Length and area.</del>	
II	<b>Complex integration:</b> Line integrals - Rectifiable arcs - Line integrals as functions of arcs - Cauchy's theorem for a rectangle - Cauchy's theorem in a disk - Cauchy's integral formula - Higher derivatives. Removable singularities - Taylor's theorem - Zeros and poles - Local mapping - Maximum principle.	
III	<b>Calculus of residues:</b> Residue theorem - Argument principle - Evaluation of definite integrals. Mean-value property - Poisson's formula.	
IV	<b>Series and product developments:</b> Weierstrass's theorem - Taylor series - Laurent series. Partial fractions - Infinite products - Canonical products.	
V	<b>Riemann mapping theorem and applications:</b> Riemann mapping theorem - Statement and proof - Boundary behavior - Use of the reflection principle - Analytic arcs - behavior at an angle - Schwarz- Christoffel formula - Mapping on a rectangle.	<b>Unit V- Elliptic Functions:</b> Simply periodic functions: The Fourier development - Functions of finite order - Doubly periodic functions -The period module - Unimodular transformations - the Canonical Basis - General properties of Elliptic functions - The Weierstrass p-function - The differential equations.

PERCENTAGE OF SYLLABUS REVISED: 20%

COURSE FOCUSES ON:

<input checked="" type="checkbox"/>	Skill Development	<input type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input type="checkbox"/>	Innovations
<input type="checkbox"/>	Intellectual Property Rights	<input type="checkbox"/>	Gender Sensitization
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## Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT2A2CB Topology

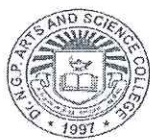
Unit	Existing	Changes
I	Spaces and Maps: Sets — Functions — Cartesian products. Topological spaces - Sets in space - Maps - Subspaces - Sum and product of spaces.	Basis - order topology - closed sets and limit points - continuous functions - metric topology.
II	<b>Properties of Spaces and Maps:</b> Separation of axioms - Hausdorff space - Frechet space - Completely regular space - Tychonoff space - Normal space - Urysohn's lemma - Compactness - Locally compactness- paracompactness.	Connected subspace of the real line $\mathbb{R}$ - limit point compactness.
III	<b>Connectedness:</b> Connectedness - Homotopic maps - Fixed point theorems - Locally connectedness - Pathwise connectedness - Locally pathwise connectedness - Imbedding theorems - Extension theorems.	Countability axioms.
IV	<b>Compactification and Metric spaces:</b> Compactification- Stone-Cech compactification - Hausdorff compactification - Distance function - Metric spaces - Meterizability - Urysohn Metrization theorem.	Nagata-Smirnov metrization theorem - paracompactness - The Smirnov metrization theorem.
V	<b>Covering:</b> Topological properties - Completely Normal space - Michael's lemma - Compact subsets - Lebesgue's covering lemma - Completeness.	Complete metric spaces - compactness in metric Spaces - pointwise and compact convergence - Ascoli's theorem.

PERCENTAGE OF SYLLABUS REVISED: 30%

COURSE FOCUSES ON:

<input checked="" type="checkbox"/>	Skill Development	<input type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input type="checkbox"/>	Innovations
<input type="checkbox"/>	Intellectual Property Rights	<input type="checkbox"/>	Gender Sensitization
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14<sup>th</sup>

## Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT2A2CC Partial Differential Equations

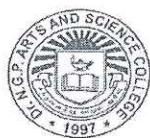
Unit	Existing	Changes
I	<b>Partial differential equations of first order:</b> Nonlinear partial differential equations of the first order- Cauchy's method of characteristics-Compatible systems – Charpit's method-Special types-Solutions satisfying given conditions-Jacobi's method.	Cauchy's problem for first order equations
II	<b>Partial differential equations of second order:</b> Origin –Second order equations in Physics-Higher order equations in Physics-Linear partial differential equations with constant coefficients-Equations with variable coefficients-Characteristic curves of second-order equations -Characteristics of Equations in three variables.	
III	<b>Laplace equation:</b> Occurrence-elementary solutions of Laplace's equation-families of equipotential surfaces-boundary value problems-separation of variables-problems with axial symmetry.	
IV	<b>Wave Equation:</b> Occurrence –Elementary solutions of the one-dimensional wave equation–The Riemann-Volterra solution -Vibrating membranes - Applications of the calculus of variations– Three dimensional problems.	General solution of the wave equation
V	<b>The diffusion equation:</b> Occurrence–The resolution of boundary value problems -Elementary solutions of the diffusion equation–Separation variables-The use of integral transforms.	Use of Green's function

PERCENTAGE OF SYLLABUS REVISED: 15%

COURSE FOCUSES ON:

<input checked="" type="checkbox"/>	Skill Development	<input type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input type="checkbox"/>	Innovations
<input type="checkbox"/>	Intellectual Property Rights	<input type="checkbox"/>	Gender Sensitization
<input type="checkbox"/>	Social Awareness/ Environment	<input type="checkbox"/>	Constitutional Rights/ Human Values/ Ethics





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## Syllabus (New Course)

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT2A2CP Computational Mathematics

Unit	Content
I	<b>LATEX: Basics and Basic Typesetting:</b> Introduction to LATEX: Pros and Cons – basics - document hierarchy - document management - labels and cross - references - bibliography - table of contents and lists of things - class files – packages - errors and troubleshooting. Running text: Special characters– abbreviations - alignment 1. Creating a Latex document with Mathematical formulas 2. Creating a Latex document with proper justification 3. Create a Bibliography using Latex
II	<b>Tables, Diagrams, and Data Plots:</b> Presenting External Pictures: Figure environment - special packages – external picture files - graphicx package - setting default key values - setting a search path - graphics extensions. Presenting Diagrams: tikzpicture Environment - \tikz command - grids - paths - coordinate labels - extending paths - actions on paths - nodes and node labels -spy library – trees - logic circuits - commutative diagrams – options - styles. 4. Creating a Latex document with table, graph or picture 5. Designing the power point presentation using Latex 6. Creating a simple project using Latex
III	<b>MATLAB: Introduction and Iterative Computation:</b> Introduction: Basics of MATLAB. Iterative Computation: Matrices and vectors – matrix and array operations – character strings - command line functions – using build-in functions and on-line help - saving and loading data – plotting simple graph 7. Create a simple MATLAB program using arithmetic operators 8. Write MATLAB code with matrix operations 9. Write MATLAB code for finding the results of the students in exam
IV	<b>MATLAB: Graphics Errors:</b> Graphics: Basic 2-D plots – 3-D plots – handle graphics – saving and printing graphs – animation. 10. Designing a simple plot and multiple plots in a single window 11. Designing a bar chart and phi chart 12. Designing a 3D plot
V	<b>MATLAB: Applications:</b> Algebraic equations: Linear Algebra - nonlinear algebraic equations. Data analysis and regression: Curve fitting and regression analysis – correlations -statistics. Differential equations: Numerical integration – solution of ODEs for initial value problems - solution of ODEs for boundary value problems – advanced topics 13. Solving a first order differential equation using Euler's method and Runge-Kutta fourth order method 14. Solve the wave and heat equations 15. Solve a simple equation using Newton Raphson Method

PERCENTAGE OF SYLLABUS REVISED: 100%





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### COURSE FOCUSES ON:

- |                                     |                               |                          |   |
|-------------------------------------|-------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | Skill Development             | <input type="checkbox"/> | Entrepreneurial Development                 |
| <input checked="" type="checkbox"/> | Employability                 | <input type="checkbox"/> | Innovations                                 |
| <input type="checkbox"/>            | Intellectual Property Rights  | <input type="checkbox"/> | Gender Sensitization                        |
| <input type="checkbox"/>            | Social Awareness/ Environment | <input type="checkbox"/> | Constitutional Rights/ Human Values/ Ethics |





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## Syllabus (New Course)

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 224DA2A2EB FOUNDATIONS OF DATA ANALYTICS

Unit	Content
I	<b>Understanding Data and Data Analytics:</b> Introduction – Types of Data: Numeric-Categorical Graphical-High dimensional data – sources : Time series- Transactional data- Biological data- Spatial data –Social Network data – Big Data and Data science – Big Data Architecture – Data Analytics – Examples of Data Use – Methodologies for Data Analytics – Knowledge Discovery in Databases (KDD) Process
II	<b>Data Quality and Data Preprocessing:</b> Data Quality - Missing values - Redundant data – Inconsistent Data – Noisy Data – Outliers – Converting Nominal to Relative – Converting Ordinal to Relative - Data Transformation –Dimensionality Reduction – Attribute Aggregation – Principal Component Analysis- Independent Component Analysis – Multidimensional Scaling- Attribute Selection – Filters – Wrappers - Embedded
III	<b>Clustering:</b> Clustering: Distance Measures – Distance Measures for objects with Quantitative Attributes- Distance Measures for Non-Conventional Attributes - Clustering Validation – Clustering Techniques - K –means – Centroids and Distance Measures - DBSCAN – Agglomerative Hierarchical Clustering Techniques - Dendrograms
IV	<b>Frequent Pattern Mining:</b> Frequent Itemsets - Setting the min_sup Threshold – Apriori a join-based Method -FP Growth- Maximal Frequent itemsets - Closed Frequent itemsets – Association Rules – Support and Confidence - Sequential patterns - Frequent Sequence Mining - Closed and Maximal sequences
V	<b>Regression and Classification:</b> Regression: Predictive Performance Estimation and Measures for Regression - Linear regression – Ridge Regression – Lasso Regression - Classification : Binary classification – Distance Based Learning Algorithms – K Nearest Neighbor Algorithm – Decision Trees - Probabilistic Classification Algorithms – Naïve Bayes Algorithm. Case Study: Using Linear Regression to Predict Performance with Excel

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUSES ON:

<input checked="" type="checkbox"/>	Skill Development	<input type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input type="checkbox"/>	Innovations
<input type="checkbox"/>	Intellectual Property Rights	<input type="checkbox"/>	Gender Sensitization
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## Syllabus (New Course)

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT2A2DA Wavelet Analysis

Unit	Content
I	<b>The Fourier transform and discrete Fourier analysis:</b> Informal development of the Fourier transform - properties of the Fourier transform - discrete Fourier transform - discrete signals
II	<b>Haar wavelet analysis:</b> Haar wavelets: Haar scaling function - basic properties of the Haar scaling function - Haar wavelet - Haar decomposition and reconstruction algorithms: decomposition - reconstruction - filters and diagrams
III	<b>Multi resolution analysis:</b> The multiresolution framework: scaling relation - associated wavelet and wavelet spaces - implementing decomposition and reconstruction - decomposition and reconstruction algorithm - processing a signal - Fourier transform criteria
IV	<b>Daubechies wavelets:</b> Daubechies' construction - classification, moments and smoothness - computational issues - the scaling function at dyadic points
V	<b>Wavelets in higher dimensions:</b> Computational complexity - wavelets in higher dimensions - relating decomposition and reconstruction - wavelet transform

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUSES ON:

<input checked="" type="checkbox"/>	Skill Development	<input type="checkbox"/>	Entrepreneurial Development
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## Syllabus (New Course)

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT2A2DB INFORMATION AND CODING THEORY

Unit	Content
I	<b>Source coding and optimal codes:</b> Source coding: definitions and examples - Uniquely decodable codes - Instantaneous Codes - Constructing instantaneous codes - Kraft's inequality - McMillan's inequality - Comments - Optimality binary Huffman codes - Average word-length - Optimality - r-ary Huffman codes - Extensions of Sources
II	<b>Entropy and information channels:</b> Entropy: Information and entropy - properties - entropy and average word-length - Shannon-Fano coding - entropy of extensions and products - Shannon's first theorem and example. Information Channels: definitions - the binary symmetric channel - system entropies - extension of Shannon's first theorem
III	<b>Information channels:</b> Mutual information - Mutual information for the binary symmetric channel - channel capacity - Decision rules - example of improved reliability - hamming distance - statement and outline proof of Shannon's theorem - comments
IV	<b>Error correcting codes:</b> Introductory concepts - examples - minimum distance - Hamming's sphere-packing bound - the Gilbert-Varshamov bound - Hadamard matrices and codes
V	<b>Linear codes:</b> Matrix description of linear codes - equivalence of linear codes - minimum distance of linear codes - the Hamming Codes - the Golay codes - the standard array contents - syndrome decoding

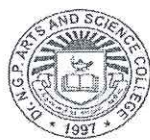
PERCENTAGE OF SYLLABUS REVISED: 100%

### COURSE FOCUSES ON:

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## Syllabus (New Course)

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT2A2DC MATHEMATICAL FINANCE

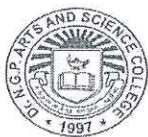
Unit	Content
I	<b>Options and Arbitrage:</b> Introduction - stock options - profit and payoff curves - time value - selling short - Forward contracts - futures contracts - Put-Call option parity formula - comparing option prices
II	<b>Discrete Time Pricing Models:</b> Assumptions - basic model - portfolio and trading strategies - preserving gains - Arbitrage trading strategy - martingale measure - characterizing Arbitrage - computing martingale measure - alternatives and replication - uniqueness of martingale measure - general and standard Binomial model.
III	<b>Optimal Stopping and American Options:</b> An example - the model - Payoff process - stopping times - existence - snell envelope - smallest dominating super martingale - additional facts - Optimal stopping time and Doob decomposition - smallest and largest optimal stopping time
IV	<b>Continuous Probability:</b> Probability spaces - Probability measures - distribution and density functions - random variables - normal distribution - convergence - central limit theorem
V	<b>Black Scholes Option Pricing formula:</b> Stock prices and Brownian motion - Binomial model in the limit - natural Binomial model - martingale measure Binomial model - Black-Scholes option pricing formula - Volatility similes - dividend's effect in Black-Scholes formula - Ito's lemma

PERCENTAGE OF SYLLABUS REVISED: 100%

### COURSE FOCUSES ON:

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## Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT1A2IA / Business Statistics

Unit	Existing	Changes
I	<p>Statistics:</p> <p><del>Introduction Origin and Growth of Statistics Statistics as Data Collection of Data Primary and Secondary Data Methods of Collecting Primary Data and Secondary Data Classification and Tabulation of Data Meaning and Objective of Classification Types of Classification Diagrammatic and Graphic Presentation General Rules for Constructing Diagrams Types of Diagrams Graphs of Frequency Distributions</del></p>	<p>Unit III: Introduction - Probability theory - basic terminologies - three types - axioms - conditions of statistical independence and dependence - Baye's theorem.</p>
II	<p>Measures of central value and Dispersion:</p> <p>Function of an Average - Characteristics of Typical Average - Limitations - Properties - Mean - Calculation of Mean - Merits of - Mean - Demerits of Mean - Median - Calculation of Median - Merits of Median - Demerits of Median - Mode - Calculation of Mode - Merits of Mode - Demerits of Mode - Range - Quartile Deviation - Standard Deviation</p>	<p>Geometric mean- harmonic mean.</p> <p>Interfractile range - mean deviation relative dispersion- co-efficient of variation</p>
III	<p>Correlation and Regression:</p> <p>Types of Correlation - Scatter diagram Method - Coefficient of Correlation - Karl Pearson's Coefficient of Correlation - Merits and Demerits of Correlation- Rank Correlation - Regression - Uses - Difference between Correlation and Regression - Method of Studying Regression - Regression Equations - Regression equation of Y on X - Regression equation of X on Y</p>	<p>Alternative approach - regression co-efficient.</p>
IV	<p>Analysis of time series:</p> <p>Uses - Time Series Models - Secular Trend - Seasonal Variation - Cyclical Variation - Irregular Variation - Measurement of Secular Trend - Graphic Method - Semi Average Method - Moving Average Method - Method of Least Squares - Method of Simple Averages</p>	<p>Forecasting</p>
V	<p>Test of significance and Chi-square test:</p> <p><del>Testing of Hypothesis - Standard Error - Test of Significance for Attributes - Test for Proportion of Success - Test for Difference in Proportions - Test of Significance for Large Samples - The Standard error of mean - Testing the difference between means of Two Samples - Test of Significance for Small Samples - Students' t - Distribution - Chi Square Test - Characteristics of Chi Square Test - Degree of Freedom - Chi Square Test of goodness of fit - Chi Square as a test of independence.</del></p>	

PERCENTAGE OF SYLLABUS REVISED: 30%





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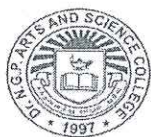
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### COURSE FOCUSES ON:

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## Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT1A2IB Mathematics for Management - II

Unit	Existing	Changes
I	<b>Linear Programming Problem:</b> Operations Research - An overview: Origin and Development of O.R. - Nature and Features of O.R. - Modelling in Operations Research - General Solution Methods for O.R. Models - Scientific Method in O.R. - Methodology of Operations Research - Applications of O.R. - Opportunities and Shortcomings of Operations Research - Linear Programming Problem - Mathematical Formulation of the Problem - Graphical Solution Method	
II	<b>Transportation Problem:</b> General Transportation Problem - Transportation Table - Duality in Transportation Problem - Loops in Transportation Tables - LP Formulation of the Transportation Problem - Triangular Basis in a T.P. - Solution of a Transportation Problem - Finding an Initial Basic Feasible Solution - Test for Optimality - Degeneracy in Transportation Problem - Transportation Algorithm (MODI Method).	
III	<b>Assignment Problem:</b> Mathematical Formulation of the Problem - Assignment Method - Special Cases in Assignment Problems - Maximization Case in Assignment Problem - Prohibited Assignments - Typical Assignment Problem - Travelling Salesman Problem	
IV	<b>Game Theory:</b> Two-Person Zero-Sum Games - Some Basic Terms - Games With Saddle-points - Maximin - Minimax Principle - Games without saddle-points - Mixed Strategies - Graphical Solution of $2 \times n$ and $m \times 2$ Games - Dominance Property	Sequencing Models Sequencing problems-Assumptions-Processing n jobs through one machine-two machines-three machines-Processing two jobs through m machines- Processing n jobs through m machines-Complicated sequencing problems-Routing problems in networks-Minimal path problem
V	Network Analysis Network and Basic Components - Logical Sequencing - Rules of Network Construction - Critical Path Analysis - Probability Considerations in PERT - Distinction between PERT and CPM	

PERCENTAGE OF SYLLABUS REVISED: 20%

COURSE FOCUSES ON:

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## Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: II

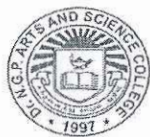
Course Code/ Name: 222MT1A2IC / Discrete Mathematics

Unit	Existing	Changes
I	<b>Set Theory:</b> Introduction - Set and its elements - Set Description - Types of Sets - Venn-Euler Diagrams - Set Operations and Laws of Set Theory - Fundamental Products - Partitions of sets - Minsets - Algebra of sets and Duality - The Inclusion and Exclusion Principle.	Index and indexed sets – computer representation of sets- Fuzzy sets
II	<b>Relations and digraphs :</b> Introduction - Cartesian Product of Sets - Binary Relations – Set Operation on Relations - Types of Relations – Partial Order Relation – Equivalence Relation  <b>Functions:</b> Introduction - Definition and Notation of a function - Types of Functions – Invertible Functions.	
III	<b>Mathematical Logic:</b> Introduction - Propositional Calculus – Basic Logical Operations - Statements Generated by a Set - Conditional Statements - Converse, Inverse and Contrapositive Statements - Biconditional statements - Tautologies - Contradiction – Contingency.	Argument - methods of proof - equivalence and implication - predicate calculus-quantifiers.
IV	<del>Algebraic Structures : Introduction – Mathematical Operations – Binary Operations – Groups – Module.</del>  <b>Graph Theory :</b> Introduction - Basic Terminology - Path, Cycles and Connectivity - Subgraphs - Types of Graphs - Isomorphic Graphs - Homeomorphic Graphs - Representation of Graphs in Computer Memory- Eulerian and Hamiltonian graphs	Trees: Introduction - binary trees - complete binary tree - tree of an Algebraic expression - traversing binary trees.
V	<b>Language, Grammar and Automata:</b> Introduction - The Set Theory of Strings - Languages – Regular Expressions and Regular Languages – Grammar – Finite State Machine – Finite State Automata.	

**PERCENTAGE OF SYLLABUS REVISED: 20%**  
**COURSE FOCUSES ON:**

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## Syllabus (New Course)

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT1A2ID MATHEMATICS FOR COMPUTING II

Unit	Content
I	<b>Elementary Probability and Random variable:</b> Random experiment - De-morgan's laws - conditional probability - generalization of multiplicative law - Bayes' probabilities - Random variable - discrete and Continuous random variable - Distribution function - discrete probability distribution and function - Mathematical expectation - moments - moment generating function - characteristic function - Cumulants..
II	<b>Probability Distribution:</b> Binomial distribution - Bernoulli's theorem - Poisson distribution and Poisson variate X - Relationship between the probabilities, $P(X=x)$ and $P(X=x+1)$ - Hypergeometric distribution - Normal and Lognormal distribution - Beta, Gamma and Exponential distribution - Weibull distribution
III	<b>Measures of central tendency:</b> Characteristics of a good measure of central tendency - Mean - Arithmetic Mean - pooled mean - Geometric Mean - Harmonic Mean - Median - Mode. Measures of Dispersion - purposes - properties - Range - Inter quartile range - Mean deviation - Variance - Standard Deviation - coefficient of variation.
IV	<b>Correlation and Regression:</b> Scatter diagram - Least square method - properties - regression line of X on Y - regression coefficient of coded data - Correlation methods - graphical method - Correlation Coefficient - Correlation in grouped bivariate data - relationship between correlation coefficients and regression coefficient - Rank correlation.
V	<b>Test of significance and t-test:</b> Test of hypothesis for population variance - two types of error - level of significance - critical region - one and two tailed test - size and power of a test - randomized test - non randomized test - degrees of freedom - student's t- test - test of equality of two population means - paired t- test - interval estimation - large sample tests - tests of hypothesis of proportions

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUSES ON:

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14<sup>th</sup>

## Syllabus (New Course)

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT1A2IP Statistical Analysis and Tools

Unit	Content
I	<b>Measures of Central Tendency:</b> Introduction - Arithmetic Mean - Median - Mode - Characteristics of Mean, Median and Mode - Geometric Mean - Harmonic Mean - Merits and Demerits of Mean, Median and Mode. 1. Calculate Mean 2. Calculate Geometric Mean and Harmonic Mean 3. Calculate Median 4. Calculate Mode.
II	<b>Measures of Dispersion :</b> Introduction - Range - Interquartile Range - Mean Deviation - Coefficient of Mean Deviation - Standard Deviation. 5. Determine Range 6. Determine Interquartile Range 7. Determine Mean Deviation 8. Determine Standard Deviation.
III	<b>Correlation:</b> Introduction - Types of Correlation - Karl Pearson's Coefficient of Correlation - Properties - Merits and Demerits - Rank Coefficient of Correlation. 9. Determine Correlation using Pearson method 10. Determine rank correlation for the given data 11. Determine rank correlation for repeated data.
IV	<b>Regression :</b> Introduction - Definition - Uses - Method of studying Regression - Graphic Method - Algebraic Method - Regression Line - Regression Equation. 12. Determine regression line using Graphic Method 13. Determine regression line using Algebraic Method 14. Determine regression equation.
V	<b>Analysis of Time Series :</b> Meaning - uses - Secular Trend - Seasonal variation - Cyclical variation - Irregular variation - Measurement of Secular Trend - Graphic Method - Semi average Method - Moving average Method - Method of least squares. 15. Draw a Trend line using Semi average Method 16. Draw a Trend line using Moving average Method 17. Determine polynomial using method of Least Square Curve Fitting.

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUSES ON:

<input checked="" type="checkbox"/>	Skill Development	<input type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input type="checkbox"/>	Innovations
<input type="checkbox"/>	Intellectual Property Rights	<input type="checkbox"/>	Gender Sensitization
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## Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT2A2EA Numerical Methods

Unit	Existing	Changes
I	<b>Solution of Algebraic and Transcendental Equations:</b> Solution of Numerical Algebraic and Transcendental equations- Introduction- Bisection method- Method of False Position method- Geometrical interpretation-the iteration method – Newton's Raphson Method.	Ramanujan's method - Graeffe's Root- Squaring method.
II	<b>Solution of Linear Systems:</b> Solution of Simultaneous Linear Algebraic Equations -Direct method - Gauss Elimination Method - Gauss - Jordan Method - Inversion Matrix using Gauss elimination method – Method of Triangularization	Solution of tridiagonal systems - solution of linear systems: iterative methods - Householder's method.
III	<b>Interpolation:</b> Central Difference Interpolation Formulae (for equal intervals) - Introduction- Gauss forward interpolation formulae- Gauss backward interpolation formulae- Stirling's formula and Bessel's formula	Interpolation with unevenly spaced point's: Lagrange's interpolation formula - error in Lagrange's interpolation formula - Hermite's interpolation formula.
IV	<b>Numerical Differentiation and Integration:</b> Numerical Differentiation- Introduction- Newtons Forward and Backward difference formula -Numerical integration: Trapezoidal Rule- Simpsons 1/3 Rule- Simpsons 3/4 rule- Boole's and Weddle's Rule.	
V	<b>Numerical Solution of Ordinary differential Equations:</b> Numerical Solution of Ordinary Differential Equations - Introduction- Solution by Taylor's Series- Picard's method of successive Approximations – Euler's Methods- Error Estimates for the Euler Method-Modified Euler's method- Runge Kutta Method.	Predictor Corrector Methods.

PERCENTAGE OF SYLLABUS REVISED: 30%

### COURSE FOCUSES ON:

<input checked="" type="checkbox"/>	Skill Development	<input type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input type="checkbox"/>	Innovations
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## Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT1A2EB Mathematical Physics

Unit	Existing	Changes
I	<p><b>Probability, Statistics and Errors</b></p> <p>Probability - Addition and multiplication laws of probability, conditional probability, population, variates, collection, tabulation and graphical representation of data.</p> <p>Basic ideas of statistical distributions frequency distributions, averages or measures of central tendency, arithmetic mean, properties of arithmetic mean, median, mode, geometric mean, harmonic mean, dispersion, standard deviation, root mean square deviation, standard error and variance, moments, skewness and kurtosis.</p> <p>Application to radiation detection - Uncertainty calculations, error propagation, time distribution between background and sample, minimum detectable limit.</p> <p>Binomial distribution, Poisson distribution, Gaussian distribution, exponential distribution - Additive property of normal variates, confidence limits, Bivariate distribution, Correlation and Regression, Chi-Square distribution, t-distribution, F- distribution</p>	<p>Range, quartile deviation</p>
II	<p><b>Counting and Medical Statistics</b></p> <p>Statistics of nuclear counting - Application of Poisson's statistics - Goodness-of-fit tests - Lexie's divergence coefficients Pearson's chi-square test and its extension - Random fluctuations Evaluation of equipment performance - Signal-to-noise ratio - Selection of operating voltage - Preset of rate meters and recorders - Efficiency and sensitivity of radiation detectors - Statistical aspects of gamma ray and beta ray counting - Special considerations in gas counting and counting with proportional counters - Statistical accuracy in double isotope technique.</p> <p>Sampling and sampling distributions - Confidence intervals. Clinical study designs and clinical trials. Hypothesis testing and errors. Regression analysis.</p>	
III	<p><b>Numerical Methods:</b></p> <p>Why numerical methods, accuracy and errors on calculations - Round-off error, evaluation of formulae. Iteration for Solving <math>x = g(x)</math>, Initial Approximation and Convergence Criteria. Interpolations: Finite differences - Forward - Backward - Central differences - Newton - Gregory forward, backward interpolation Formulae for equal intervals - Missing terms - Lagrange's interpolation formula for unequal intervals - Inverse interpolations - Curve fitting - Principle of least</p>	





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	<p>squares - Discrete Fourier Transform - Fast Fourier Transform - Applications – Random waveforms and noise.</p> <p>Simultaneous linear equations: Gauss elimination method - Jordan's modification. - Inverse of a matrix by Gauss - Jordan Method - Roots of nonlinear equations: Newton- Raphson method - Iterative rule -Termination criteria -Taylor series - approximating the derivation - Numerical differentiation formulas - Introduction to numerical quadrature - Trapezoidal rule - Simpson's 2/3 rule - Simpson's Three- Eighth rule - Picard's method - Taylor's method -Euler's method - the modified Euler's method - Runge-Kutta method.</p>	
IV	<p><b>Monte Carlo Method</b></p> <p>Random variables - Discrete random variables - Continuous random variables - probability density function - Discrete probability density function - Continuous probability distributions - Cumulative distribution function - Accuracy and precision - Law of large number - Central limit theorem - Random numbers and their generation - Tests for randomness - Inversion random sampling technique including worked examples - Integration of simple 1-D integrals including worked examples.</p>	
IV	<p><b>Computational Tools &amp; Techniques</b></p> <p>Computational packages: Overview of programming in C++, MATLAB/ MATHEMATICA, and STATISTICA in data analysis and graphics and cloud computations.</p>	

PERCENTAGE OF SYLLABUS REVISED: 2%

COURSE FOCUSES ON:

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## Syllabus (New Course)

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT2A2EC OPERATIONS RESEARCH

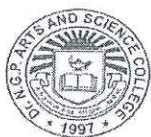
Unit	Content
I	<b>Linear Programming Problem</b> Basics of operations research: Characteristics- scientific method- scope - applications- objectives- phases- models- classification- limitations- linear programming: Introduction- requirements- assumptions- applications- formulation- advantages- limitations- graphical method- some exceptional cases.
II	<b>Transportation Model</b> Introduction- formulation and solution - variants in transportation problems- post optimality analysis in transportation- the trans-shipment problem- dual of the transportation problem.
III	<b>Assignment Model</b> Definition-Mathematical Representation-Hungarian Method-Formulation and Solution-Variations of the Assignment Problem- Sensitivity Analysis-the Travelling Salesman Problem.
IV	<b>Decision Theory and Games</b> Steps-decision making environments- decision making under conditions of certainty, uncertainty and risk- variation of the expected value criterion- posterior probabilities and Bayesian analysis - utility theory- theory of games- game models- rules- mixed strategies.
V	<b>Network Analysis</b> Project planning, scheduling and controlling- basic tools and techniques- network logic- Fulkerson's rule- activity on node diagram- critical path method (CPM)- programme evaluation and review technique (PERT).

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUSES ON:

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## Syllabus (New Course)

Faculty: BAS

Board: Mathematics

Semester: II

Course Code/ Name: 222MT2A2ED Advanced Operations Research

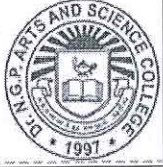
Unit	Content
I	<b>Sequencing Problem:</b> Notations terminology and assumptions - Solution to sequencing problems - Algorithm of processing n jobs through two machines - Algorithm of processing n jobs through three machines - Algorithm of processing n jobs through m machines - Algorithm of processing 2 jobs through m machines
II	<b>Replacement Theory:</b> Introduction - Failure mechanism of items - considerations leading to replacement - O.R. methodology of solving replacement problems - replacement policy for equipment/asset which deteriorates gradually - replacement of items that fail suddenly
III	<b>Queuing Theory :</b> Introduction - Elementary queuing system - single server queueing model: $(M/M/1):(\infty/FCFS)$ - multiple server queueing model: $(M/M/k):(\infty/FCFS)$ - multi-phase service queuing model : $(M/E_k/1):(\infty/FCFS)$ - benefits and limitations of queuing theory.
IV	<b>Decision Analysis :</b> Introduction - few management applications - ingredients of decision problem - types of decision making environments - decision making under certainty - decision making under risk - decision making under uncertainty - Bayesian decision rule - posterior analysis - decision tree analysis
V	<b>Goal, Integer and Dynamic Programming:</b> Concepts - goal programming model formulation - concepts of integer programming - some integer programming formulation techniques - concepts of dynamic programming - formulation and solution of dynamic programming problem

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUSES ON:

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## ATTENDANCE OF THE FOURTEENTH BOARD OF STUDIES MEETING

Faculty: Basic and Applied Sciences

Board: Mathematics

Date : 19/11/2022

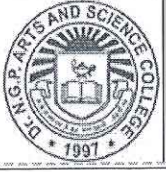
Time : 10.00 a.m.

Venue : IQAC Board Room

S.No	Name and address	Designation	Signature
1	<b>Dr.R.Sowrirajan</b> Head, Department of Mathematics Dr.N.G.P.Arts and Science College, Coimbatore	Chairman	
2	<b>Dr.S.Narayanamoorthy</b> Assistant Professor Department of Mathematics Bharathiar University Coimbatore	VC Nominee	
3	<b>Dr. A. Ramesh babu</b> Assistant Professor (Sr. Grade) Department of Mathematics Amritha Viswa Vidyapeetham Coimbatore	Subject expert	
4	<b>Dr.N. Balamani ,</b> Assistant Professor and Head, School of Physical and Computational Sciences, Avinashilingam University	Subject expert	N. Balamani 19.11.2022
5	<b>Mr. L. Madhan Mohan</b> Team Leader Software Projects Daivel Software Solutions Coimbatore	Industry expert	-
6	<b>Mr. P. Vijayakumar</b> Junior Revenue Inspector Collectorate The Nilgiris	Meritorious Alumni	-
7	<b>Dr.S.Eswaramoorthi,</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal member	
8	<b>Dr.P.Umadevi,</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal member	






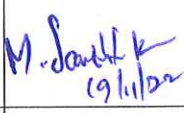

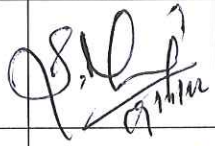
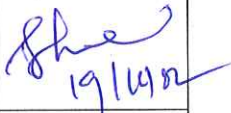










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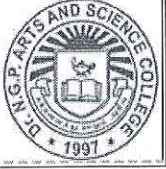
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9	<b>Dr.M.Sangeetha</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal member	 19/11/22
10	<b>Mr.M.Santhosh Kumar,</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal member	 19/11/22
11	<b>Mrs. S. Gokilamani</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal member	 19/11/22
11	<b>Mrs.S.Manimekalai,</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal Member	 19/11/22
12	<b>Dr. S.Kannaki</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal Member	 19/11/22
13	<b>Mrs. R. Anandhi</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal Member	 19/11/22
14	<b>Mrs.M. Lavanya</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal Member	 19/11/22
15	<b>Mr.S.Rameshkumar</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal Member	 19/11/22
16	<b>Mr. C. Sivakumar</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal Member	 19/11/22
17	<b>A.Thamilpriya</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal Member	 19/11/22
18	<b>Dr.S. Mathankumar</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College	Internal Member	 19/11/22
19	<b>Dr.P. Umamaheswari</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal Member	 19/11/22
20	<b>Mr.D.Sundar</b> Dept of Mathematics,	Internal Member	 19/11/22









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21	<b>Mrs. M. Vinitha</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal Member	<i>M.V.</i>
22	<b>Mrs. K. Kavitha</b> Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal Member	<i>Kavitha</i>
23	<b>Dr.N.Kuppuchamy</b> Dept of Tamil, Dr.N.G.P.Arts and Science College Coimbatore	Co-opted Member	<i>N.K.</i> 19/11/22
24	<b>Dr.R.VithyaPrabha</b> Dept of English Dr.N.G.P.Arts and Science College Coimbatore	Co-opted Member	<i>R.V.</i> 19/11/22
25	<b>Dr.C.Selvakumar</b> Dept of Physics Dr.N.G.P.Arts and Science College Coimbatore	Co-opted Member	<i>Selva</i> 19/11/22
26	<b>Dr.V.Pream Sudha</b> Dept of Computer Science with Data Analytics Dr.N.G.P.Arts and Science College Coimbatore	Co-opted Member	<i>V.P.</i> 19/11/22
29	<b>Ms. K. Hemalatha</b> I M.Sc Mathematics	Student representative	<i>K.Hemalatha</i>
30	<b>Ms.G.Jency</b> III B.Sc Mathematics	Student representative	<i>Jency</i>

Date: 19/11/2022

*(Dr.R.Sowrirajan)*  
BoS Chairman/HoD  
Department of Mathematics  
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