



Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)
(Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3rd 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

BoS

13th

MINUTES OF THE THIRTEENTH BOARD OF STUDIES MEETING

Faculty: BAS

Board: Mathematics

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

Name of the Body	Board of Studies
Department	Mathematics
Meeting No.	13
Date and Time	05.08.2022, and 10 a.m.
Venue	Seminar Hall 1, C1 Block
Members Attended	The details are given in the ANNEXURE -I

Item	AGENDA
01	Discussion on UG Curriculum for AY 2022-23 and onwards adopting R4 guidelines
02	Discussion on UG syllabi for Part III - Core Courses for first semester 2022-23 Batch
03	Discussion on syllabus for Part III - Inter Disciplinary Course (IDC) offered by other departments
04	Discussion on Part I (Tamil/Hindi/French/Malayalam) offered by Language department for 2022-23 Batch
05	Discussion on Part II (English) offered by English Department for 2022-23 Batch
06	Discussion on Part IV (AECC) Environmental Studies for 2022-23 Batch
07	Discussion on credits for Part V Extension Activity for 2022-23 Batch
08	Discussion on PG Curriculum for AY 2022-23 and onwards adopting R4 guidelines
09	Discussion on PG syllabi for first semester courses 2022-23 Batch
10	Discussion on syllabus for Part III- Inter Disciplinary Course (IDC) offered to other departments
11	Discussion on Value Added Certificate Courses (VACC)
12	Any other matter





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MINUTES OF THE THIRTEENTH 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	Discussion on UG Curriculum for AY 2022-23 and onwards adopting R4 guidelines
Discussion	The UG Curriculum for AY 2022-23 and onwards adopting R4 guidelines was presented for discussion.
Resolution	The Board unanimously approved the curriculum.
Item - 02	Discussion on UG syllabi for Part III - Core Courses for first semester 2022-23 Batch
Discussion	222MT1A1CA – Calculus with Scilab <ul style="list-style-type: none">The syllabus approved by Board of Studies to include Scilab with the contents of calculus to demonstrate the course with a computational tool. 222MT1A1CB – Analytical Geometry with GEOGEBRA <ul style="list-style-type: none">The syllabus approved by Board of Studies to introduce Planes and Straight line in the syllabus along with the tool GEOGEBRA for gaining computational knowledge.
Resolution	The Board approved the syllabus
Item – 03	Discussion on syllabus for Part III - Inter Disciplinary Course (IDC) offered by Department of Physics
Discussion	222PY1A1IP - Modern Physics with Practicals <ul style="list-style-type: none">Syllabus approved by the Physics BoS
Resolution	The Board approved the same
Item – 04	Discussion on Part I (Tamil/Hindi/French/Malayalam) offered by Language department for 2022-23 Batch
Discussion	221TL1A1TA/ 221TL1A1HA /221TL1A1FA /221TL1A1MA: Part I: Tamil-I: Ikkala Illakiyam/ Hindi-I: Modern Literature/French-I: Grammar, Translation and Civilization/ Malayalam – I: Modern Literature respectively <ul style="list-style-type: none">The unified syllabi approved by the Board of Studies in Languages were placed for endorsement.
Resolution	The Board approved the same

Cont...





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Item -05	Discussion on Part II (English) offered by department of English for 2022-23 Batch
Discussion	221EL1A1EA : Part II: Professional English I <ul style="list-style-type: none">The unified syllabus approved by the Board of Studies in English was placed for endorsement.
Resolution	The Board unanimously approved the syllabus
Item -06	Discussion on Part IV (AECC) Environmental Studies for 2022-23 Batch
Discussion	223MB1A1AA: Environmental Studies <ul style="list-style-type: none">The unified syllabus approved by the Board of Studies in Microbiology was placed for endorsement.
Resolution	The Board approved the syllabus
Item-07	Discussion on credits for Part V Extension Activity for 2022-23 Batch
Discussion	<ul style="list-style-type: none">One credit to be awarded for participation in YRC/RCC//NSS/RRC/Yoga/Sports/Clubs
Resolution	The Board members accepted the same
Item-08	Discussion on PG Curriculum for AY 2022-23 and onwards adopting R4 guidelines
Discussion	The PG Curriculum for AY 2022-23 and onwards adopting R4 guidelines was presented for discussion.
Resolution	The Board unanimously approved the curriculum.
Item-09	Discussion on PG syllabi for first semester courses 2022-23 Batch
Discussion	222MT2A1CA – Algebra <p>Dr. Balamani suggested to include the following topics in the contents of the course (i) Algebraically closed and algebraically closures of a field and (ii) Perfect fields in the contents as this is necessary for studying advance concepts in Galois theory</p> 222MT2A1CB – Advanced Analysis <p>The syllabus approved by Board of Studies to include the concepts of Measure theory in the contents as this forms basic for studying function spaces.</p> 222MT2A1CC – Ordinary Differential Equations <p>Dr. Narayanamoorthy and Dr. Rameshbabu recommended to include existence and uniqueness of solutions of systems in the contents</p> 222MT2A1CD – Operations Research <p>Dr. Narayanamoorthy recommended to introduce the concept of Inventory control in place of Simulation as the topic will be helpful for research. Also the board recommended to shift from elective to core course.</p> 222MT2A1CE - Advanced Statistics <p>The syllabus approved by Board of Studies recommended to frame the contents focusing on applications of estimators and non-parametric tests and suggested textbook based on it Also it is further recommended to offer the course as core course.</p> 222MT2A1DA – Numerical Analysis <p>Dr. Narayanamoorthi and Dr. Rameshbabu suggested to include the concept of optimization method instead of characteristic value problems</p> 222MT2A1DB – Commutative Algebra <p>The syllabus approved by Board of Studies to include the course that gives more cont...</p>





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13th

	insights in the applications of theory of Algebra in Number Theory. 222MT2A1DC – Mathematical Modeling Dr. Balamani suggested to include the topics of Stochastic changes and Stochastic evolution in the contents in addition to deterministic as the influence of uncertainty is more in real world applications.
Resolution	The Board approved the syllabus
Item-10	Discussion on syllabus for Part III - Inter Disciplinary Course (IDC) offered to Department of other departments
Discussion	222MT1A1IA- Business Mathematics – I Dr. Balamani suggested to include the basic methods of linear programming in the contents instead of Set theory to enhance the skill of finding optimal solutions for a linear programming problem. 222MT1A1IF- Mathematics for Computing – I Dr. Ramesh Babu suggested to give more concentration on Linear Algebra concepts through determinants, eigen values and eigen vectors which are required for understanding machine learning along with some numerical techniques for enhancing the student's problem solving ability. 222MT1A1IE-Numerical Methods and Statistics Dr. Narayanamoorthi and Dr. Balamani insisted to give some numerical techniques for solve system of equations, algebraic and transcendental equations along with the method of solving differential and integral terms. Also more concentration should be given for statistical concepts like central tendency and dispersion, correlation and regression and statistical inference are included for decision making ability. 222MT1A1IP-Fundamentals of Mathematics with Matlab Dr. Rameshbabu recommended to include a computational tool Matlab to solve the Mathematical concepts like differential calculus, differential equations practically.
	222MT1A1IC / Mathematics For Management-I Dr. Rameshbabu suggested to include Mathematical Finance concepts like compound interest, simple interest and sinking fund in the place of Set theory. In addition to this, concepts of Harmonic mean and coefficient of variation to improve their computing ability on data.
Resolution	The Board unanimously approved the revised syllabus
Item-11	Discussion on Value Added Certificate Courses(VACC)
Discussion	The course titled Computation using Matlab to be offered by internal faculty for 2022-23 batch was discussed
Resolution	The Board approved the same
Item -12	Any other matter
Discussion	<ul style="list-style-type: none">The board members discussed and recommended the Panel of Examiners
Resolution	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.

Date: 05.08.2022

(Dr. R. Sowrirajan)

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

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Syllabus Revision - New Course

Faculty: BAS

Board: Mathematics

Semester: I

Course Code/ Name: 222MTIACA / CALCULUS WITH SCILAB

PERCENTAGE OF SYLLABUS REVISED: New Course

COURSE FOCUS ON:

Skill Development

Entrepreneurial Development

Employability

Innovation

Intellectual Property Rights (IPR)





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SYLLABUS REVISION

Faculty : BAS

Board : Mathematics

Semester: I

Course Code / Name: 222MT1A1CB/ ANALYTICAL GEOMETRY WITH GEOGEBRA

PERCENTAGE OF SYLLABUS REVISED: New Course

COURSE FOCUS ON:

Skill Development

Entrepreneurial Development

Employability

Innovation

Intellectual Property Rights (IPR)





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13th

Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: I

Course Code/ Name: 222MT2A1CA/ALGEBRA

Unit	Existing	Changes
I	External direct products - internal direct products. Group action on a set: - Fixed sets and Isotropy subgroups - orbits - Application on G-Sets to counting: p-groups - Sylow theorems	
II	Applications to p-Groups and the class equation - further applications. Rings of polynomials: polynomials in an indeterminate - evaluation homomorphisms. division algorithm in $F[x]$ - irreducible polynomials - ideal structure in $F[x]$ - uniqueness of factorization in $F[x]$	
III	Extension fields - algebraic and transcendental elements - irreducible polynomial for α over F - simple extensions - Algebraic extensions: finite extensions - structure of a finite fields	Algebraically closed and algebraic closures.
IV	Basic isomorphism of algebraic field theory - Automorphisms and fixed fields - Frobenius automorphism - Isomorphism extension theorem: extension theorem - splitting fields	
V	Normal Extensions - The Main Theorem - Galois group over finite fields- Illustrations of Galois Theory: Symmetric Functions	Multiplicity of zeros of a polynomial- separable extensions- perfect fields

PERCENTAGE OF SYLLABUS REVISED: 10%

COURSE FOCUS ON:

- Skill Development Entrepreneurial Development
- Employability Innovation
- Intellectual Property Rights (IPR)





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Syllabus Revision - New Course

Faculty: **BAS** Board: **Mathematics** Semester: **I**

Course Code/ Name: **222MT2A1CB/ADVANCED ANALYSIS**

PERCENTAGE OF SYLLABUS REVISED: **New Course**

COURSE FOCUS ON:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Skill Development | <input type="checkbox"/> Entrepreneurial Development |
| <input checked="" type="checkbox"/> Employability | <input type="checkbox"/> Innovation |
| <input type="checkbox"/> Intellectual Property Rights (IPR) | |





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13th

Syllabus Revision

Faculty: BAS

Board: Mathematics Semester: I

Course Code/ Name: 222MT2A1CC / ORDINARY DIFFERENTIAL EQUATIONS

Unit	Existing	Changes
I	Solutions in power series Introduction-second order linear equations with ordinary points-Legendre equation and Legendre polynomials-second order equation with regular singular point-properties of Bessel functions	
II	System of Linear differential equations System of first order equations- model for ARMS competition between two nations-existence and uniqueness theorem-fundamental matrix	
III	Non-homogeneous linear system Non-homogeneous linear systems- linear system with constant coefficients- linear systems with periodic coefficients	
IV	Existence and uniqueness of solutions Preliminaries- successive approximations- Picard's theorem- some examples- continuation and dependence on initial conditions- existence of solutions in the large.	Existence and Uniqueness of solutions of system
V	Oscillations of second order equations Fundamental results- Sturm's comparison theorem- elementary linear oscillations-comparison theorem of Hille-Winter - Oscillations of $x'' + a(t)x = 0$	

PERCENTAGE OF SYLLABUS REVISED: 5 %

COURSE FOCUS ON:

- Skill Development Entrepreneurial Development
- Employability Innovation
- Intellectual Property Rights (IPR)





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Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: I

Course Code/ Name: 222MT2A1CD/ OPERATIONS RESEARCH

Unit	Existing	Changes
I	Dynamic Programming Prototype example for dynamic programming- characteristics of dynamic programming problems- deterministic dynamic programming	
II	Integer Programming Prototype example-some BIP applications- innovative uses of binary variables in model formulation-some formulation examples- perspectives on solving integer programming problems	
III	Decision Analysis Prototype example-decision making without experimentation -decision making with experimentation-decision trees, Markov chains: Stochastic processes-Markov chains	
IV	Queueing Theory Prototype example-basic structure-examples of real Queueing systems-role of the exponential distribution-birth and death process-Queueing models based on birth and death process	
V	Simulation Essence of Simulation - applications of simulation - generation of random numbers - generation of random observations from probability distribution	Inventory Theory Examples - components - deterministic continuous and periodic review model - deterministic multiechelon inventory model for supply chain management

PERCENTAGE OF SYLLABUS REVISED:20%

COURSE FOCUS ON: Skill Development and Employability

- | | |
|--|--|
| <input checked="" type="checkbox"/> Skill Development | <input type="checkbox"/> Entrepreneurial Development |
| <input checked="" type="checkbox"/> Employability | <input type="checkbox"/> Innovation |
| <input type="checkbox"/> Intellectual Property Right (IPR) | |





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Syllabus Revision - New Course

Faculty: BAS Board: Mathematics Semester: I

Course Code/ Name: 222MT2A1CE/ ADVANCED STATISTICS

PERCENTAGE OF SYLLABUS REVISED: New Course

COURSE FOCUS ON:

- Skill Development Entrepreneurial Development
- Employability Innovation
- Intellectual Property Rights (IPR)





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13th

Syllabus Revision

Faculty: BAS

Board: Mathematics Semester: I

Course Code/ Name: 222MT2A1DA / NUMERICAL ANALYSIS

Unit	Existing	Changes
I	Interval halving (Bisection) revisited - linear interpolation methods - Newton's method - fixed-point iteration: $x = g(x)$ method - Newton's method for polynomials - Bairstow's method for quadratic factors	Nonlinear Systems
II	Matrix notation - elimination method - Gaussian elimination and Gauss - Jordan methods - other direct methods - iterative methods - relaxation method	Parallel Processing
III	Extrapolation techniques - Newton-Cotes integration formulas - Trapezoidal rule-composite formula - Simpson's rules - Gaussian quadrature	Multiple Integrals - Applications of Cubic Splines
IV	The spring-mass problem - variation - Taylor-series method - Euler and modified Euler methods - Runge-Kutta methods - Milne's method - Adams-Moulton method - convergence criteria	systems - Boundary-Value Problems Higher-Order Equations and S - Linear Programming
V	Types of partial differential equations - heat equation and the wave equation - solution techniques for the heat equation in one dimension - solving the vibrating string problem - Parabolic equations in two or three dimensions	

PERCENTAGE OF SYLLABUS REVISED:20%

COURSE FOCUS ON:

- Skill Development Entrepreneurial Development
- Employability Innovation
- Intellectual Property Rights (IPR)





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Syllabus Revision - New Course

Faculty: BAS Board: Mathematics Semester: I

Course Code/ Name: 222MT2A1DB /COMMUTATIVE ALGEBRA

PERCENTAGE OF SYLLABUS REVISED: New Course

COURSE FOCUS ON:

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| <input checked="" type="checkbox"/> Skill Development | <input type="checkbox"/> Entrepreneurial Development |
| <input checked="" type="checkbox"/> Employability | <input type="checkbox"/> Innovation |
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Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: I

Course Code/ Name: 222MT2A1DC / MATHEMATICAL MODELING

Unit	Existing	Changes
I	Data transformations: Linear model - polynomial models - population modeling - global warming modeling - model errors - optimal linear models - optimal quadratic models - optimal power and exponential models	
II	Dimensional analysis and similarity - applications of low-complexity - applications of medium complexity - time measurement - applications of high-complexity	
III	Probability density functions - models for probability density functions - data analysis - real distribution	
IV	Motivation - linear changes - linear changes with delays - nonlinear changes - difference and differential equations	Linear stochastic changes - diffusion - Brownian motion - population dynamics.
V	Heat and Mass Transfer: Balance - Newton's laws of motion: oscillations - population ecology: growth and self-limitation - population ecology: oscillations and collapse.	PDF evolution equations - Solutions to the Fokker Plank equation.

PERCENTAGE OF SYLLABUS REVISED: 20%

COURSE FOCUS ON:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Skill Development | <input type="checkbox"/> Entrepreneurial Development |
| <input checked="" type="checkbox"/> Employability | <input type="checkbox"/> Innovation |
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Syllabus Revision - New Course

Faculty: BAS

Board: Mathematics

Semester: I

Course Code/ Name: 222MT1A1IA / BUSINESS MATHEMATICS

Unit	Existing	Changes
I	Sets types venn diagrams set operations union-intersection complement differences laws of algebras of sets properties of sets number of elements sums involved in two sets	
II	Interest: Simple interest - compound interest - Interest Compounded Continuously - Amount at the changing rates of interest - Nominal and Effective rate of interest - Growth and depreciation - Sinking fund - Annuities - Present value - Discounting of bills - True discount - Banker's gain	
III	Basic Concepts-Types of Matrices - Addition and Multiplication of Matrices - Determinants - Cramer's Rule - Inverse of a Matrix - Solution of Simultaneous Linear Equations by Matrix Method-Rank of a Matrix	
IV	Variable-Constants-Functions-imitso gebraic functions-Differentiationin onevariable-Process of differentiation- Rules of Differentiation-Derivatives of Power Functions-Exponential and Logarithmic Functions	
V	Meaning of Derivatives - Evaluation of First and Second Order Derivatives - Applications of Simple Derivatives - Elasticity of Demand - Relation between Average and Marginal cost curves - Minimum of Average Cost - Maximum and Minimum Values of a Functions - Order Conditions for Maxima - Profit Maximization - Cost Minimization	Linear Programming - Introduction to Operations Research - Meaning, Scope and Limitation of Operations Research - Formulation of Linear Programming Problem - Graphical method - Simplex method

PERCENTAGE OF SYLLABUS REVISED: 20%

COURSE FOCUS ON: Skill Development

Skill Development

Entrepreneurial Development

Employability

Innovation

Intellectual Property Rights (IPR)





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Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: I

Course Code/ Name: 222MT1A1IC / MATHEMATICS FOR

MANAGEMENT-I

Unit	Existing	Changes
I	Sets – Types of sets – Venn diagram – Set operations – Union – Intersection – Complement – Difference – Law of algebras of sets – Properties of sets – Number of elements – Sums involved in two sets	
II	Basic Concepts- Types of Matrices- Addition and Multiplication of Matrices- Determinants- Cramer's Rule- Inverse of a Matrix- Solution of simultaneous linear equations by Matrix method- Rank of a matrix	Basic concepts-Simple and Compound Interest-Symbols- Formulae and problems- Effective rate and Nominal rate of interest- Depreciation-Annuities-Sinking Fund- Discounting
III	Statistics- Definition- Collection of data- Primary and Secondary data- Classification and Tabulation- Diagrammatic and Graphical representation	
IV	Arithmetic Mean- Geometric Mean- Harmonic Mean- Median- Mode- Advantages and disadvantages- Measures of dispersion- Mean Range- Standard deviation- Calculation of standard deviation	
V	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	

PERCENTAGE OF SYLLABUS REVISED: 20 %

COURSE FOCUS ON: Skill Development

Skill Development

Entrepreneurial Development

Employability

Innovation

Intellectual Property Rights (IPR)





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Syllabus Revision - New Course

Faculty: BAS

Board: Mathematics

Semester: I

Course Code/ Name: 222MT1A1IF / MATHEMATICS FOR COMPUTING I

PERCENTAGE OF SYLLABUS REVISED: New Course

COURSE FOCUS ON:

- Skill Development Entrepreneurial Development
- Employability Innovation
- Intellectual Property Rights (IPR)





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13th

Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: I

Course Code/ Name: 222MT1A1IE/NUMERICAL METHODS AND STATISTICS


Unit	Existing	Changes
I	Introduction – Gauss Elimination Method – Gauss Jordan Method – Iterative Methods - Jacobi Method of Iteration – Gauss Seidel Iteration Method	Introduction to Solution of Algebraic and Transcendental Equations- Newton-Raphson method.
II	Numerical Differentiation - Derivatives using Newton's forward difference formula - Derivatives using Newton's Backward difference formula - Numerical Integration - Trapezoidal Rule - Simpson's 1/3 rd rule - Simpson's 3/8 th rule	Introduction to Interpolation - Finite difference - Newton's formula for forward and backward interpolation – Interpolation with unevenly spaced points: Lagrange's interpolation Numerical solution to ordinary differential equation: Second order Runge-kutta method.
III	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	pooled mean - Geometric Mean - Harmonic Mean. Mean deviation - Variance .
IV	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	Correlation in grouped bivariate data
V	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	test in one way classification - Contingency table - Test of independence of factors - Yate's correction.

PERCENTAGE OF SYLLABUS REVISED: 25%

COURSE FOCUS ON:

- Skill Development Entrepreneurial Development
 Employability Innovation
 Intellectual Property Rights (IPR)



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		13th

Syllabus Revision - New Course

Faculty: BAS **Board:** Mathematics **Semester:** I

Course Code/ Name: 222MT1A1IP/ FUNDAMENTALS OF MATHEMATICS WITH
MATLAB

PERCENTAGE OF SYLLABUS REVISED: New Course

COURSE FOCUS ON:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Skill Development | <input type="checkbox"/> Entrepreneurial Development |
| <input checked="" type="checkbox"/> Employability | <input type="checkbox"/> Innovation |
| <input type="checkbox"/> Intellectual Property Rights (IPR) | |





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Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: I

Course Code/ Name: 221TL1A1TA / PART - I - TAMIL - I: IKKALA ILAKKIYAM

Unit	Existing	Changes
I	1. உயிர்-பெற்ற தழிழிப்பாட்டு - பாரதியார் 2. படி - பாரதிதாசன் 3. பேராடம்புறப்பட்டு - தமிழ்-ஒளி 4. தமிழ்க் கொலை புரியாதீர் - புலவர் குழந்தை 5. திரைத்தமிழ்: அ) சும்மா கிடந்த நிலத்தை - எனத் தொடங்கும் பாடல் - பட்டுக்கோட்டை கல்யாண சுந்தரனார், ஆ) சமரசம் உலாவும் இடமுமே - எனத் தொடங்கும் பாடல் - மருதகாசி. இ) உன்னை அறிந்தால் - எனத் தொடங்கும் பாடல் - கன்னதாசன்.	இலக்கிய வரலாறு - மறுமலர்ச்சி கவிஞர்களின் தமிழ்ப்பணிகள் பாரதிதேசம் - பாரதியார் தமிழரின் பெருமை - நாமக்கல் கவிஞர் திரைத் தமிழ் : விழ்நூலாந்த வளர்க்கப் போறண்டி - உருமலை நாராயணகவி
II	1. கடமையைச் செய் - மீரா 2. அம்மாவின்-பொய்கள் - ஞானசுந்தரன் 3. செருப்புடன் ஒரு பேட்டி - மு.மேத்தா 4. சிங்கவால்-குரங்கின்-மரணம் - சிற்பி 5. கடைக்கோள்-2004 - முத்தமிழ்-விருந்தி 6. கரிகிறது தாய்ப்பால் - ஆரூர் தமிழ்நாடன் 7. ஐந்தாம் வகுப்பு 'அ' பிரிவு - நா. முத்துக்குமார் 8. ஹைகூ கவிதைகள் - 15 கவிதைகள்	இலக்கிய வரலாறு - புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும் ஒப்பிலாத சமுதாயம் - அப்துல் கரீமான் கன்னிமாடம் - மு.மேத்தா மலையாளக் காற்று - சிற்பி
III	1. ஒரு கதையும்-கொஞ்சம்-கன்னிப்பாஜும் - தாமரை 2. நீரில் அலையும் முகம் - அ. வெண்ணிலா 3. தொடர்ச்சி-செடி - இளம்பிறை 4. எனிந்த வித்தியாசங்கள் - மல்லிகா	தொலைந்து போனேன் - தாமரை தற்காத்தல் - பொன்மணி வைகுத்து புதைபுண்ட வரழ்க்கை - சுசுத்தி கப்ரமணியன்
IV	1. சைப்பிரஸ் - ந.பிச்சுசுந்தரி 2. அகல்மை - புதுமைப்பித்தன் 3. ஒருமிடி-சோறு - ஜெயகாந்தன் 4. காய்ச்சமரம் - சி.ராஜநாராயணன் 5. நிசாசை - ப.ப.ப. 6. குறிரை-மசால்-நாந்தா - ச.வேணுகோபால்	இலக்கிய வரலாறு - சிறுகதையின் தோற்றமும் வளர்ச்சியும் கனகாம்பரம் - கு.ப.சு.ஜகோபால் ஆற்றங்கரைப் பின்னையார் - புதுமைப்பித்தன் பொம்மை - ஜெயகாந்தன் காட்டில் ஒரு மான் - அம்மை வேட்கை - சூர்யகாந்தன்
V	அ. இலக்கிய வரலாறு 1. மறுமலர்ச்சி கவிஞர்களின் தமிழ்ப்பணிகள் 2. புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும் 3. சிறுகதையின் தோற்றமும் வளர்ச்சியும் ஆ. இலக்கணம்: 1. வல்லினம் மிகும், மிகா இடங்கள் (ஒற்றுப்பிழை நீக்கி எழுதுதல்) 2. ர, ந, ல, ம, ள, ண, ந, ன வேறுபாடு (ஒலிப்பு நெறி, சொற்பொருள் வேறுபாடு அறிதல்) இ. படைப்பாக்கப் பயிற்சி 1. கவிதை, சிறுகதை எழுதுதல்	இலக்கிய வரலாற்றுப் பகுதி அந்தந்த அலகுகளுக்குத் தகுந்தாற் போல் மாற்றி அமைக்கப்பட்டுள்ளது.

PERCENTAGE OF SYLLABUS REVISED: 44 %
COURSE FOCUS ON:

<input checked="" type="checkbox"/> Skill Development	<input checked="" type="checkbox"/> Entrepreneurial Development
<input checked="" type="checkbox"/> Employability	<input checked="" type="checkbox"/> Innovation
<input type="checkbox"/> Intellectual Property Right (IPR)	





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Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester : I

Course Code/ Name: 221TL1A1HA/ PART - I - HINDI - I : MODERN LITERATURE

Unit	Existing	Changes
I	गद्य - नूतन गद्य संग्रह (जय प्रकाश) पाठ 1- रजिया पाठ 2- मक्रील पाठ 3- बहता पानी निर्मला पाठ 4- राष्ट्रपिता महात्मा गाँधी	-
II	कहानी कुंज- डॉ वी.पी. 'अमिताभ'(पाठ 1-4)	-
III	व्याकरण : शब्द विचार (संज्ञा, सर्वनाम, कर्मक, विशेषण)	व्याकरण : शब्द विचार (संज्ञा, सर्वनाम, विशेषण)
IV	अनुच्छेद लेखन	-
V	अनुवाद अभ्यास-III (केवल अंग्रेजी से हिन्दी में) (पाठ 1 to 10)	-

PERCENTAGE OF SYLLABUS REVISED: 25 %

COURSE FOCUS ON:

<input checked="" type="checkbox"/> Skill Development	<input checked="" type="checkbox"/> Entrepreneurial Development
<input checked="" type="checkbox"/> Employability	<input checked="" type="checkbox"/> Innovation
<input type="checkbox"/> Intellectual Property Right (IPR)	





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Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester : I

Course Code/ Name: 221TLIAIFA/ PART – I FRENCH – I: Grammar, Translation and Civilization.


Unit	Existing			Changes
I	Objectifs de Communication	Tâche	Activités de réception et de production orale	-
	<ul style="list-style-type: none"> Saluer Enter en contact avec quelqu'un. Se présenter. S'excuser 	En cours de cuisine, premiers contacts avec les membres d'un groupe	<ul style="list-style-type: none"> Comprendre des personnes qui se saluent. Échanger pour entrer en contact, se présenter, saluer, s'excuser. Communiquer avec tu ou vous. Comprendre les consignes de classe Épeler son nom et son prénom. Compter jusqu'à 10. 	
II	Objectifs de Communication	Tâche	Activités de réception et de production orale	-
	<ul style="list-style-type: none"> Demander de se présenter. Présenter quelqu'un. 	Dans la classe de français, se présenter et remplir une fiche pour le professeur.	<ul style="list-style-type: none"> Comprendre les informations essentielles dans un échange en milieu professionnel. Échanger pour se présenter et présenter quelqu'un. 	
III	Objectifs de Communication	Tâche	Activités de réception et de production orale	-
	<ul style="list-style-type: none"> Exprimer ses goûts. 	Dans un café, participer à une soirée de rencontres rapides et remplir de tâches d'appréciation.	<ul style="list-style-type: none"> Dans une soirée de rencontres rapid comprendre des personnes qui échantent sur elles et sur leurs goût Comprendre une personne qui parler des goûts de quelqu'un d'autre. 	
IV	Objectifs de Communication	Tâche	Activités de réception et de production orale	Demander à quelqu'un de faire quelque chose. Demander poliment. Parler d'actions passées. Organiser un programme d'activités pour accueillir une personne importante. Comprendre une personne demande un service à quelqu'un. Demander à quelqu'un de faire quelque chose. Imaginer et raconter au passé à partir de situations dessinées. Tu veux bien? Page 46
	<ul style="list-style-type: none"> Présenter quelqu'un 	Dans un café, participer à une soirée de rencontres rapides et remplir de tâches d'appréciation	<ul style="list-style-type: none"> Exprimer ses goûts. Comprendre une demande laissée sur un répondeur téléphonique. Parler de ses projets de week-end. 	
Autoévaluation du module I Page 40 – Préparation au DELF A1 page 42				Tu veux bien? Page 46
V	Demander à quelqu'un de faire quelque chose. Demander poliment. Parler d'actions passées.	Organiser un programme d'activités pour accueillir une personne importante.	Comprendre une personne demande un service à quelqu'un. Demander à quelqu'un de faire quelque chose. Imaginer et raconter au passé à partir de situations dessinées.	Make in Own Sentences
	Tu veux bien? Page 46			

PERCENTAGE OF SYLLABUS REVISED: 25%

COURSE FOCUS ON:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Skill Development | <input checked="" type="checkbox"/> Entrepreneurial Development |
| <input checked="" type="checkbox"/> Employability | <input checked="" type="checkbox"/> Innovation |
| <input type="checkbox"/> Intellectual Property Right (IPR) | |



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		13th

Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester : I

Course Code/Name: 221TL1A1MA / PART - I - MALAYALAM - I: MODERN LITERATURE

Unit	Existing	Changes
I	Novel : Alahayude penmakkaal	Novel : Pathummayude Adu
II	Novel : Alahayude penmakkaal	Novel : Pathummayude Adu
III	Short Story : Nalinakanthi	-
IV	Short Story : Nalinakanthi	-
V	Composition & Translation	Expansion of ideas, General Essay and Translation

PERCENTAGE OF SYLLABUS REVISED: 50%

COURSE FOCUS ON:

<input checked="" type="checkbox"/> Skill Development	<input checked="" type="checkbox"/> Entrepreneurial Development
<input checked="" type="checkbox"/> Employability	<input checked="" type="checkbox"/> Innovation
<input type="checkbox"/> Intellectual Property Right (IPR)	





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13th

Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: I

Course Code/ Name: 221EL1A1EA- Core Course: Professional English I

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUS ON:

<input checked="" type="checkbox"/>	Skill Development	<input checked="" type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input type="checkbox"/>	Innovation
<input type="checkbox"/>	Intellectual Property Rights (IPR)		





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13th

Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: I

Course Code/ Name: 223MB1A1AA – Environmental studies

Unit	Existing	Changes
I	Introduction to Environmental studies & Ecosystems: Multidisciplinary nature of environmental studies; components of environment – atmosphere, hydrosphere, lithosphere and biosphere. Scope and importance; Concept of sustainability and sustainable development. Ecosystem - Structure and function of ecosystem; Energy flow in an ecosystem: food chain, food web and ecological succession. Case studies of the following ecosystems: Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).	
II	Natural Resources: Renewable and Non-renewable Resources: Land Resources and land use change; Land degradation, soil erosion and desertification. Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Water: Use and overexploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state). Heating of earth and circulation of air, air mass formation and precipitation. Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.	
III	Biodiversity and Conservation: Levels of biological diversity: genetic, species and ecosystem diversity; Biogeography zones of India; Biodiversity patterns and global biodiversity hot spots. India as a mega-biodiversity nation; Endangered and endemic species of India. Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and informational value.	
IV	Environmental Pollution, Environmental Policies & Practices: Environmental pollution: types, causes, effects and controls; Air, water, soil, chemical and noise pollution. Nuclear hazards and human health risks. Solid waste management: Control measures of urban and industrial waste. Pollution case studies. Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture. Environment Laws: Environment Protection Act; Prevention & Control of Pollution Act – Air & Water. Wildlife Protection Act; Forest Conservation Act; International agreements: Montreal and Kyoto protocols and conservation on Biological Diversity (CBD). The Chemical Weapons Convention (CWC). Nature reserves, tribal population and rights, and human-wildlife conflicts in Indian context.	
V	Human Communities and the Environment & Field Work : Human population and growth: Impacts on the environment, human health and welfare. Carbon foot print. Resettlement and rehabilitation of project-affected persons; case studies. Disaster management: floods, earthquakes, cyclones and landslides. Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan. Environmental ethics: Role of Indian and other religions and cultures in environmental conservation. Environmental communication and public awareness case studies (e.g., CNG vehicles in Delhi). Visit to an area to document environmental assets; river/forest/flora/fauna, etc. Visit to a local polluted site – Urban/Rural/Industrial/Agricultural. Study of common plants, insects, birds and basic principles of identification. Study of simple ecosystems pond, river, Delhi Ridge, etc.	Population explosion – Family Welfare Programmes Role of Information Technology in Environment and human health. Role of the Colleges, Teachers and Students in village adoption towards clean, green and make in villages in various aspects.

PERCENTAGE OF SYLLABUS REVISED:

33 %

COURSE FOCUS ON:

<input checked="" type="checkbox"/>	Skill Development	<input type="checkbox"/>	Entrepreneurial Development
<input type="checkbox"/>	Employability	<input type="checkbox"/>	Innovation
<input type="checkbox"/>	Intellectual Property Rights (IPR)		





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ATTENDANCE OF THE THIRTEENTH TH BOARD OF STUDIES MEETING

Faculty: Basic and Applied Sciences

Board: Mathematics

Date : 05/08/2022

Time : 10.00 a.m.

Venue : Seminar Hall 1

S.No	Name and address	Designation	Signature
1	Dr.R.Sowrirajan Head, Department of Mathematics Dr.N.G.P.Arts and Science College, Coimbatore	Chairman	
2	Dr.S.Naranamoorthy Assistant Professor Department of Mathematics Bharathiar University Coimbatore	VC Nominee	 5/8/22
3	Dr. A. Ramesh babu Assistant Professor (Sr. Grade) Department of Mathematics Amritha Viswa Vidyapeetham Coimbatore	Subject expert	 5/8/22
4	Dr.N. Balamani , Assistant Professor and Head, School of Physical and Computational Sciences, Avinashilingam University	Subject expert	 N. Balamani 05.08.22
5	Mr. L. Madhan Mohan Team Leader Software Projects Daivel Software Solutions Coimbatore	Industry expert	Absent
6	Mr. P. Vijayakumar Junior Revenue Inspector Collectorate The Nilgiris	Meritorious Alumni	Absent
7	Dr.S.Eswaramoorthi, Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal members	





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8	Dr.P.Umadevi, Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal members	<i>[Signature]</i> 5/8/22
9	Dr.M.Sangeetha Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal members	<i>[Signature]</i>
10	Mr.M.Santhosh Kumar, Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal members	<i>[Signature]</i> 5/8/22
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12	Dr. S.Kannaki Dept of Mathematics, Dr.N.G.P.Arts and Science College Coimbatore	Internal Members	<i>[Signature]</i> 5/8/22
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Dr. N.G.P.-Kalapatti Road, Coimbatore-641 048, Tamil Nadu, India.
Website: www.dnmgpsc.ac.in | Email: info@dnmgpsc.ac.in. | Phone: +91-422-2369100

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24	Dr.R.VithyaPrabha Dept of English Dr.N.G.P.Arts and Science College Coimbatore	Co-opted Member	<i>R. V. Vithya Prabha</i>
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26	Dr.V.Pream Sudha Dept of Computer Science with Data Analytics Dr.N.G.P.Arts and Science College Coimbatore	Co-opted Member	<i>V. Pream Sudha</i>
27	Dr.S.Kamalaveni Dept of Commerce (IT) Dr.N.G.P.Arts and Science College Coimbatore	Co-opted Member	<i>S. Kamalaveni</i>
28	Ms. S. Sivarajani II M.Sc Mathematics	Student representative	<i>S. Sivarajani</i>
29	Ms. D. Miruthula II B.Sc Mathematics	Student representative	<i>M. D. Miruthula</i>

Date: 05/08/2022

(Signature)
(Dr.R.Sowrirajan)



Dr. N.G.P. ARTS AND SCIENCE COLLEGE
COIMBATORE | INDIA



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