

Date: 21.04.2021

MINUTES OF MEETING OF THE BOARD OF STUDIES in Mathematics

The meeting of the Board of Studies in Mathematics (UG & PG) of the Department of Mathematics, School of Basic_Sciences, VISTAS held on 21.04.2021 at 11.00 a.m. in the Department of Mathematics, VISTAS to discuss the **revision of UG & PG Program Curriculum & Syllabus** of B.Sc. Mathematics and M.Sc. Mathematics

Members Present:

S.No.	Name of the Member	Role
1.	Dr. K.Selvakumari Professor & Head Department Of Mathematics VISTAS	Chair Person
2.	Dr. P.Sumathi Associate Professor & Head Department Of Mathematics C.Kandaswami Naidu College for men, Anna Nagar, Chennai-102	Academic Expert (External Member)
3.	Dr. A.Selvaraj Professor Department Of Mathematics VISTAS	Internal Member
4.	Dr. G.Jayalalitha Professor Department Of Mathematics VISTAS	Internal Member

5.	Dr.S.Meenakshi Associate Professor Department Of Mathematics VISTAS	Internal Member
6.	Dr.V.Maheswari Associate Professor Department Of Mathematics VISTAS	Internal Member
7.	Mr.K.Srinivasan Assistant Professor Department of Mathematics VISTAS	Internal Member
8.	Mr.S.Senthil Assistant Professor Department of Mathematics VISTAS	Internal Member
9.	Mr.V.Anandha Raghavan Software Project Manager Visteon Technical and Services centre, Chennai	Industrial Expert(External member)
10.	Mrs. D.Deepa Lecturer Sindhi Arts & Science College Numdal, Chennai-77	Alumni Member

Objective of the Revision:

- To develop the curriculum based on Learning Outcome based Curriculum Framework (LOCF)
- To implement the guidelines and suggestions of the new education policy interdisciplinary courses were included.
- To design the curriculum focussing on skill development, Employability and Entrepreneurship

Feedback from Stakeholders:

1. The current content of syllabus enhances and adequately covers the Knowledge of all Mathematical areas. The revised syllabus may focus on stimulating creativity and innovation in students.

2. The revised syllabus to enhance the employability, skill development and entrepreneurship of UG and PG students. This revision is in consideration with increase the Employability of students. The adoption of LOCF with the CBCS pattern will enlighten the bright future of the students.
3. The new syllabus is to be framed to meet the Programme Specific Outcomes and Course Learning Outcomes.

Number of courses revised: In U.G 6 (Core Courses: 4,

Discipline Specific Electives (DSE) – 2),

In P.G – Discipline Specific Elective - 1

% of Syllabus Revision in the Program: UG: 35%, PG: 30%

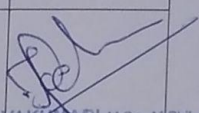
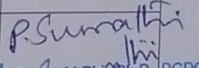
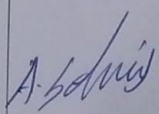
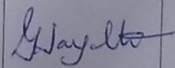
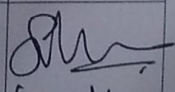
B.Sc. Mathematics		
Existing Subjects		New Subjects
S.No.	2018-2019	2021-2022
1	Algebraic structure	Group Theory
2	Integral Calculus & Differential Calculus	Calculus
3	Physics	Fundamental of Physics-I & Fundamental of Physics-II with practical
4	Fourier Series and Transforms	Transform and Fourier analysis.
II. The following new subjects are introduced for the benefit of students in the 6 th semester - Discipline Specific Electives <ol style="list-style-type: none"> 1. Number Theory & Cryptography 2. Vector Calculus. 		

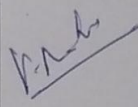
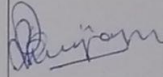
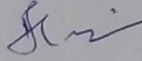
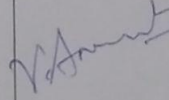
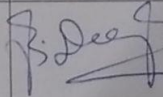
M.Sc., Mathematics
Number Theory is the elective paper – New Subject

Resolved to recommend that the Curriculum & Syllabus for the B.Sc. Mathematics and M.Sc. Mathematics are revised based on Choice Based Credit System (CBCS), Elective Course System (ECS) and Learning outcome-based curriculum framework (LOCF) guidelines of UGC for the Academic year 2021 - 2022 be approved.

Revision of UG & PG Programmes/courses focussed on employability/entrepreneurship/skill development introduced during the Academic year 2021-22 is enclosed in Annexure.

Signature of the Members:

S.No.	Name of the Member	Designation	Signature
1.	Dr. K.Selvakumari Professor & Head Department Of Mathematics VISTAS Pallavaram, Chennai-117	Chair Person	 Dr. K. SELVAKUMARI M.Sc., M.Phil., Ph.D. Professor and Head Department of Mathematics Vels Institute of Science, Technology & Advanced Studies (VISTAS) Pallavaram, Chennai-600 117
2.	Dr. P.Sumathi Associate Professor & Head Department Of Mathematics C.Kandaswami Naidu College for men, Anna Nagar, Chennai-102	External Member	 Dr. P. SUMATHI M.Sc., M.Phil., Ph.D., PGDCA., Associate Professor in Mathematics and Head of the Department C. Kandaswami Naidu College for Men Anna Nagar, Chennai-600 102.
3.	Dr. A.Selvaraj Professor Department Of Mathematics VISTAS Pallavaram, Chennai-117	Internal Member	
4.	Dr. G.Jayalalitha Professor Department Of Mathematics VISTAS Pallavarm, Chennai-117	Internal Member	
5.	Dr.S.Meenakshi Associate Professor Department Of Mathematics VISTAS Pallavarm, Chennai-117	Internal Member	 (Dr. S. Meenakshi)

6.	Dr.V.Maheswari Associate Professor Department Of Mathematics VISTAS Pallavarm, Chennai-117	Internal Member	
7.	Mr.K.Srinivasan Assistant Professor Department of Mathematics VISTAS Pallavarm, Chennai-117	Internal Member	
8.	Mr.S.Senthil Assistant Professor Department of Mathematics VISTAS Pallavarm, Chennai-117	Internal Member	
9.	Mr.V.Anandha Raghavan Software Project Manager Visteon Technical and Services centre, Chennai	Industry member	
10.	Mrs. D.Deepa Lecturer Sindhi Arts & Science College Numdal, Chennai-77	Alumni Member	

Annexure

Name of the Program	Name of the Course	Year of introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development
B.Sc., Mathematics	English	2018-19	Skill development
	Calculus	2021-22	Employability
	Algebra & Trigonometry	2018-19	Employability
	Fundamental of Physics-I	2021-22	Employability
	Communication Skills	2021-22	Skill development
	Analytical Geometry	2018-19	Employability
	Differential Equations	2021-22	Employability
	Fundamental of Physics-II	2021-22	Employability
	Soft Skills	2018-19	Skill development
	Statistics & Probability	2018-19	Employability
	Real Analysis	2021-22	Employability
	Group theory	2021-22	Employability
	Environmental Studies	2019-20	Employability
	Linear Algebra	2021-22	Employability
	Complex Analysis	2021-22	Employability
	Numerical Analysis	2019-20	Employability
	Statics	2019-20	Employability
Entrepreneurship	2021-22	Entrepreneurship	

	Development		
	Transform & Fourier Analysis	2021-22	Employability
	Discrete Mathematics	2017-18	Employability
	Operations Research	2017-18	Employability
	Computer Fundamentals and Programming in R	2021-22	Employability
	Graph theory	2017-18	Employability
	Number Theory & Cryptography	2021- 22	Employability
	Dynamics	2017-18	Employability
	Vector Calculus	2021-22	Employability
	Statistics	2018-19	Employability
	Statistical Methods and their Applications	2020-21	Employability
	Quantitative Aptitude	2018-19	Employability
M.Sc., Mathematics	Abstract Algebra	2020-21	Employability
	Advanced Calculus	2020-21	Employability
	Ordinary Differential Equation	2020-21	Employability
	Linear Algebra	2020-21	Employability
	Measure theory and Integration	2020-21	Employability
	Partial Differential Equation	2020-21	Employability
	Complex Analysis	2020-21	Employability
	Soft Skill	2020-21	Skill development

	Functional Analysis	2021-22	Employability
	Topology	2021-22	Employability
	Differential Geometry	2021-22	Employability
	Number theory	2021-22	Employability
	Operations Research	2021-22	Employability
	Fluid Dynamics	2020-21	Employability
	Calculation of variations	2020-21	Employability
	Mathematical Statistics	2020-21	Employability
	Graph theory	2020-21	Employability
	Mathematical modeling	2020-21	Employability
	Fuzzy sets and its Applications	2020-21	Employability
	Mathematical modeling	2020-21	Employability
	Soft Skill I	2021-22	Skill development
	Soft Skill II	2021-22	Skill development
	Soft Skill III	2021-22	Skill development