

## Minutes of BOS Meeting held on January 13, 2022

### Department of Mathematics

### Guru Ghsidas Vishwavidyalaya, Bilaspur (CG)

The Following Members were Present:

1. **Dr. P. P. Murthy** (HOD) : (Chairman )
2. **Professor R. P. Dubey** (Subject Expert) (VC Nominee) (V.C. C. V. Raman University, Kota) Discussed over phone - excused
3. **Professor A. S. Ranadive** :(Member)
4. **Dr. Sandeep Singh**: (Member)

Chairman of BOS, P. P. Murthy welcome all the honourable member of **Board of Studies(BOS)** and briefed about the need of LOCF and CBCS at UG and PG level respectively. He also informed the honourable members about the **Curriculum Framework Worksop** in which all the faculty members of the Department were present and few experts like Prof A. P. Singh (Retd. Prof., Rajasthan Central Univeisty, Kisanganj), Prof. G.V.R. Babu (Prof. Andhra University, Visakhapatnam) and Dr. S. Pardhi (Education Department, GGV) discussed with the faculty members on the frame work of the course papers. He has informed that Professor **R. P. Dubey** is unable to attend personally but available over phone and WhatsApp during the meeting due some urgent unavoidable work and asked the HOD to go ahead with the meeting over phone. In this meeting the following agenda approved unanimously.

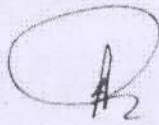
Syllabus for UG(LOCF Based) and PG(CBCS) from this academic session 2021-20. After fruitful discussion on the syllabus presented by the Chairman in front of BOS, members have agreed on the following syllabus for UG and PG as well. The instructions passed by university authorities and academic section followed.

Chairman extended his warm regards and thanks to honourable members of the BOS for the smooth conduct of the meeting.

Paper details are given below: **B.Sc. Honours in Mathematics (LOCF)**

Semester	Course Type	Course Code	Course Name	Credit/Hours
I	CORE	AMUATT1	Calculus	05
		AMUATT2	Algebra and Geometry	05
	GENERIC ELECTIVE	AMUATG1	Finite Element Methods	05
		AMUATG2		05
	AEC (any one)	AMUATA1	Set Theory and Logic	02
		AMUATA2	Basics of Statistics	02
	SEC	AMUATL1	Introduction to Cryptography	02







II	CORE	AMUATL2		02
		AMUBTT1	Multivariable Calculus	05
		AMUBTT2	Ordinary Differential Equations	05
	GENERIC ELECTIVE (any one)	AMUBTG1	Algebra and Matrix Theory	05
		AMUBTG2		05
	AEC (any one)	AMUBTA1	Theory of Interpolation	02
		AMUBTA2		02
	SEC (any one)	AMUBTL1	Graph Theory	02
		AMUBTL2		02
	III	CORE	AMUCTT1	Real Analysis
AMUCTT2			Group Theory	05
AMUCTT3			Probability and Statistics	05
GENERIC ELECTIVE (Any one)		AMUCTG1	Differential Calculus	05
		AMUCTG2		05
				05
IV	CORE	AMUDDT1	Mechanics	05
		AMUDDT2	Linear Algebra	05
		AMUDDT3	Partial Differential Equations and Calculus of Variations	05
	GENERIC ELECTIVE (any one)	AMUDTG1	Applications of Algebra	05
		AMUDTG2	Combinatorial Mathematics	05
				05
V	CORE	AMUETT1	Set Theory and Metric Spaces	05
		AMUETT2	Advanced Algebra	05
	DSE (any two)	AMUETD1	Tensors and Differential Geometry	05
		AMUETD2	Mathematical Logic	05
		AMUETD3	Integral Transforms and Fourier Analysis	05
		AMUETD4	Linear Programming	05
		AMUETD5	Information Theory and Coding	05
		AMUETD6	Graph Theory	05
				05



VI	CORE	AMUETD7	Special Theory and Relativity	05
		AMUFTT1	Complex Analysis	05
		AMUFTT2	Numerical Analysis	05
	DSE (any two)	AMUFTD1	Discrete Mathematics	05
		AMUFTD2	Wavelets and Applications	05
		AMUFTD3	Number Theory	05
		AMUFTD4	Mathematical Finance	05
		AMUFTD5	C++Programming for Mathematics	05
		AMUFTD6	Cryptography	05
		AMUFTD7	Advanced Mechanics	05
		AMUFTD8	Dissertation on Any Topic of Mathematics	05

### M.Sc. Mathematics (CBCS)

Semester	Course Name	Course code	Course	Credit Hours
I	Core	AMPATT1	Abstract Algebra	05
		AMPATT2	Topology	05
		AMPATT3	Discrete Mathematical Structures	05
		AMPATT4	Geometry of Manifolds	05
	Open Elective	AMPATO1	Applications of Fuzzy Sets & Fuzzy Logic	05
II	Core	AMPBTT1	Real Analysis	05
		AMPBTT2	Numerical Analysis	05
	DSE (Any Two)	AMPBTD1	Coding Theory	05
		AMPBTD2	Finsler Geometry	05
		AMPBTD3	Fluid Mechanics	05
		AMPBTD4	Mathematical Methods of Applied Mathematics	05
		AMPBTD5	Mathematical Statistics	05
		AMPBTD6	Riemannian Manifold and connections	05
		AMPBTD7	Fractional Calculus and Integral Transforms	05
	Research Methodology	AMPBTT3	Research Methodology	02



III	(Core)	AMPCTT1	Functional Analysis	05
		AMPCTT2	Theory of ordinary differential equations	05
	DSE (Any Two)	AMPCTD1	Algebraic Topology	05
		AMPCTD2	Complex Manifold	05
		AMPCTD3	Difference Equations	05
		AMPCTD4	Fuzzy Sets and Fuzzy Logic	05
		AMPCTD5	Information Theory and its Applications	05
		AMPCTD6	Integral Equation and Calculus of Variations	05
		AMPCTD7	Multipoint Iterative Methods	05
		AMPCTD8	Fundamentals of Elasticity	05
Project	AMPCPF1	Project Phase-I	05	
IV	Core	AMPDTT1	Complex Analysis	05
		AMPDTT2	Theory of partial differential equations	05
	DSE (Any Two)	AMPDTD1	Advanced Differential Equations	05
		AMPDTD2	Advanced Functional Analysis	05
		AMPDTD3	Applications of Fuzzy Logic	05
		AMPDTD4	Ring and Category of Modules	05
		AMPDTD5	Cryptography	05
		AMPDTD6	Financial Mathematics and its Applications	05
		AMPDTD7	Mathematical Ecology	05
		AMPDTD8	Operations Research	05
		AMPDTD9	Theory of Relativity	05
		AMPDTD10	Fundamentals of theoretical Seismology	05
	Project	AMPDPF1	Project Phase-II	05

13/01/2022  
 Dr. P. P. Murthy  
 (Head & Chairman)

Prof. A. S. Ranadive  
 (Member)

Prof. R. P. Dubey  
 (External-Member)

Dr. Sandeep Singh  
 (Member)