

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

		AMUATL2		02
II	CORE	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
III	SEC (any one)	AMUBTL1	Graph Theory	02
		AMUBTL2		02
	CORE	AMUCTT1	Real Analysis	05
		AMUCTT2	Group Theory	05
		AMUCTT3	Probability and Statistics	05
	GENERIC ELECTIVE (Any one)	AMUCTG1	Differential Calculus	05
		AMUCTG2		05
IV	CORE	AMUDTT1	Mechanics	05
		AMUDTT2	Linear Algebra	05
		AMUDTT3	Partial Differential Equations and Calculus of Variations	05
	GENERIC ELECTIVE (any one)	AMUDTG1	Applications of Algebra	05
		AMUDTG2	Combinatorial Mathematics	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

VI	CORE	AMUETD7	Special Theory and Relativity	05
		AMUFTT1	Complex Analysis	05
		AMUFTT2	Numerical Analysis	05
		AMUFTD1	Discrete Mathematics	05
	DSE (any two)	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
II	Open Elective	AMPATO1	Applications of Fuzzy Sets & Fuzzy Logic	05
	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

Dr. P. P. Murthy
(Head & Chairman)

13/01/2020
Prof. A. S. Ranadive
(Member)

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

Dr. Sandeep Singh
(Member)



GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR
DEPARTMENT OF MATHEMATICS
COURSE STRUCTURE & SYLLABUS-B.Sc. (Hon.) in Mathematics

Sem	Course Type	Course Code	Course Name	Credit/Hours (L-T-P)	Marks CCA*	Marks ESEA	Total Marks
I	CORE 1	AMUATT1	Calculus	3(4-1-0)	30	70	100
	CORE 2	AMUATT2	Algebra and Geometry	3(4-1-0)	30	70	100
	GE-1		Opted from the pool Course and offered by Sister Departments	3	30	70	100
	AEC-1		Opted from the Pool Course offered by University	2	30	70	100
	SEC-1		Opted from the Pool Course offered by University	2	30	70	100
	Additional CreditCourse						
Total Credit				19			
II	CORE 3	AMUBTT1	Multivariable Calculus	3(4-1-0)	30	70	100
	CORE 4	AMUBTT2	Ordinary Differential Equations	3(4-1-0)	30	70	100
	GE-2		Opted from the pool Course and offered by Sister Departments	3	30	70	100
	AEC-2		Opted from the Pool Course offered by University	2	30	70	100
	SEC-2		Opted from the Pool Course offered by University	2	30	70	100
	Additional CreditCourse						
Total Credit				19			
III	CORE 5	AMUCTT1	Real Analysis	3(4-1-0)	30	70	100
	CORE 6	AMUCTT2	Group Theory	3(4-1-0)	30	70	100
	CORE 7	AMUCTT3	Probability and Statistics	3(4-1-0)	30	70	100
	GE-3		Opted from the pool Course and offered by Sister Departments	3	30	70	100
	AEC-3		Opted from the Pool Course offered by University	2	30	70	100
	Additional CreditCourse						
Total Credit				22			



IV	CORE 8	AMUUDTT1	Mechanics	5(4-1-0)	30	70	100
	CORE 9	AMUUDTT2	Linear Algebra	5(4-1-0)	30	70	100
	CORE 10	AMUUDTT3	Partial Differential Equations and Calculus of Variations	5(4-1-0)	30	70	100
	GE-4		Opted from the pool Course and offered by Sister Departments	5	30	70	100
	AEC-4		Opted from the Pool Course offered by University	2	30	70	100
	Internship*	AMUJDEF1		06			100
	Additional Credit Course						
Total Credit				22+6*			
V	CORE11	AMUETT1	Set Theory and Metric Spaces	5(4-1-0)	30	70	100
	CORE 12	AMUETT2	Advanced Algebra	5(4-1-0)	30	70	100
	DSE (any two)	AMUETTD1	Tensors and Differential Geometry	5(4-1-0)	30	70	100
		AMUETTD2	Mathematical Logic	5(4-1-0)	30	70	100
		AMUETTD3	Integral Transforms and Fourier Analysis	5(4-1-0)	30	70	100
		AMUETTD4	Linear Programming	5(4-1-0)	30	70	100
		AMUETTD5	Information Theory and Coding	5(4-1-0)	30	70	100
		AMUETTD6	Graph Theory	5(4-1-0)	30	70	100
		AMUETTD7	Special Theory and Relativity	5(4-1-0)	30	70	100
	AEC-5		Opted from the Pool Course offered by University	2	30	70	100
	Additional Credit Course						
Total Credit				22			
VI	CORE 13	AMUFTT1	Complex Analysis	5(4-1-0)	30	70	100
	CORE 14	AMUFTT2	Numerical Analysis	5(4-1-0)	30	70	100
	DSE (any one)	AMUFTTD1	Discrete Mathematics	5(4-1-0)	30	70	100
		AMUFTTD2	Wavelets and Applications	5(4-1-0)	30	70	100
		AMUFTTD3	Number Theory	5(4-1-0)	30	70	100



	AMUFTD4	Mathematical Finance	3(4-1-0)	30	70	100
	AMUFTD5	C++ Programming for Mathematics	3(4-1-0)	30	70	100
	AMUFTD6	Cryptography	3(4-1-0)	30	70	100
	AMUFTD7	Advanced Mechanics	3(4-1-0)	30	70	100
	Seminar	AMUFST1	02			100
	Dissertation Project	AMUFTI1	07			100
	Additional Credit Course					
Total Credit:		24				

*The Code generated by the Department, *May be offered during the summer;

* Continuous Comprehensive Assessment (CCA), # End-Semester Examination (ESE)

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Bilaspur (C.G.), 495009, India



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 (केन्द्रीय विश्वविद्यालय अधिनियम 2009, क्रमांक 25 के अन्तर्गत स्थापित केन्द्रीय विश्वविद्यालय)
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)
 (A Central University established by the Central Universities Act., 2009 No. 25 of 2009)
 Web Site – www.ggu.ac.in, ph. No. 07752-260342, fax No. 07752-260148,154

क्रमांक १८० / अका. / अका. कैलेण्डर / 2021

बिलासपुर, दिनांक २० SEP 2021

कार्यालयीय ज्ञाप

विद्यापरिषद की स्थायी समिति की बैठक दिनांक 06-09-2021 पूरक विषय क्र0-10 अन्तर्गत अधिष्ठाताओं की बैठक दिनांक 02-09-2021 के कार्यवृत्त एवं अधिष्ठातागणों द्वारा अनुशासि अकादमिक कैलेण्डर सत्र 2021-22 के लिये अनुमोदन किया गया है।

अनुमोदनोपरांत सर्व-सूचनार्थ एवं आवश्यक कार्यवाही हेतु विश्वविद्यालय शिक्षण विभाग में संचालित पाद्यक्रमों के विषम सेमेस्टर (1st & 3rd Sem) के अकादमिक कैलेण्डर 2021-22 संलग्न द एतद् द्वारा जारी किया जाता है।

आदेशानुसार,

कुलसचिव (कार्यवाहक)

प्रतिलिपि:-

1. कुलपति / कुलसचिव जी के सचिव / निज सहायक को मान.कुलपति / कुलसचिव जी के सूचनार्थ
2. अधिष्ठाता, समस्त विद्यापीठ, गुरु घासीदास विश्वविद्यालय, बिलासपुर की ओर सूचनार्थ ।
3. विभागाध्यक्ष, समस्त शिक्षण विभाग, गुरुघासीदास विश्वविद्यालय, बिलासपुर की ओर आवश्यक कार्यवाही हेतु प्रेषित ।
4. परीक्षा नियंत्रक, गुरु घासीदास विश्वविद्यालय, बिलासपुर की ओर सूचनार्थ
5. उप-कुलसचिव, परीक्षा एवं प्रभारी गोपनीय विभागों की ओर सूचनार्थ प्रेषित ।
6. अधिष्ठाता, छात्र कल्याण विभाग, गुरु घासीदास विश्वविद्यालय, बिलासपुर की ओर सूचनार्थ ।
7. समस्त कक्ष अधिकारी, प्रशासनिक भवन के समस्त विभागों की ओर सूचनार्थ प्रेषित ।
8. समन्वयक, आई.टी.सेल की ओर इस आशय के साथ प्रेषित है कि सत्र 2021-22 का अकादमिक कैलेण्डर विश्वविद्यालय वेबसाईट में अपलोड करने हेतु ।
9. प्रभारी मीडिया सेल, गुरु घासीदास विश्वविद्यालय, बिलासपुर की ओर सूचनार्थ प्रेषित ।
10. कार्यालय प्रति ।

सहायक कुलसचिव (अका०)



GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR [C.G.]

Academic Calendar for Session 2021-22 for the University Teaching Departments

Odd Semester (UG/PG)

Academic Session 2021-22

S.N	Event	First and Third Semesters	
1.	Commencement of classes (New Admission)	20.10.2021 (1 st Sem) 11.10.2021 (3 rd Sem)	
2.	1 st Unit Test (Internal Assessment)	06.12.2021 to 10.12.2021	
3.	Last date for showing the answer script/marks of test to the students	14.12.2021	
4.	Winter Vacation	27.12.2021 to 03.01.2022	
5.	Last date for submission of End Semester Examination form	10.01.2022	
6.	2 nd Unit Test (Internal Assessment)	24.01.2022 to 31.01.2022	
7.	Last date for showing the answer script/marks of test to the students	04.02.2022	
8.	Last day of classes	21.02.2022	
9.	Practical/Project Examination	21.02.2022 to 25.02.2022	
10.	End Semester Examination	01.03.2022 to 15.03.2022	
11.	Last date for showing the answer script/marks of test to the students	21.03.2022	
12.	Last date for submission of final marks of End Semester Examination to CoE along with evaluated manuscript (Theory + Practical)+Final Marks of Internal Assessment(1 st and 2 nd) to CoE along with evaluated manuscript (Theory + Practical)	25.03.2022	

Handwritten signatures and dates:

- Marisha 02-09-2020
- Shyam 02-09-2020
- Ranjit 29/08/2020
- Brijesh 29/08/2020
- Suraj 02-09-2020
- Shivam 02-09-2020
- Om 29/08/2020
- Shashwat 02-09-2020
- Dhruv 02-09-2020

आंतरिक गुणवत्ता आश्वासन प्रकोष्ठ
गुरु घासीदास विश्वविद्यालय
बिलासपुर (छोगो)

(केन्द्रीय विश्वविद्यालय अधिनियम 2009 क. 25 के
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**Internal Quality Assurance Cell (IQAC)
Guru Ghasidas Vishwavidyalaya
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(A Central University established by the Central
University Act 2009 No. 25 of 2009)

Website: www.ggu.ac.in

No. 415/IQAC/GGV/2023

Bilaspur, Dated-.05/007/2023.

CERTIFICATE

It is hereby declared that following students of various programmes, who have opted for Dissertation / Field Projects / Research Projects / Internships etc., have not yet completed their program due to delayed session under pandemic condition. Therefore, their completion certificate will be produced after their completion of Dissertation/ Field Projects/ Research Projects/ Internships in the appropriate session.


Director
Internal Quality Assurance Cell
Guru Ghasidas Vishwavidyalaya
Koni, Bilaspur (C.G.) 495009

Director, IQAC



This is to certify that following students are enrolled in B.Sc. Mathematics for the session of 2021-22.

S.No.	Student Name	Enrollment No.
1	Abhay Ingle	GGV/21/05501
2	Abhay Kumar Gupta	GGV/21/05502
3	Abhishek Kashyap	GGV/21/05503
4	Akhil Singh	GGV/21/05504
5	Aman Gupta	GGV/21/05505
6	Amit Choudhary	GGV/21/05506
7	Anamika Banjare	GGV/21/05507
8	Ananya Sharma	GGV/21/05508
9	Anjali Parakh	GGV/21/05509
10	Anjali Patel	GGV/21/05510
11	Ankesh Suman	GGV/21/05511
12	Anurag Sahu	GGV/21/05512
13	Aparna Gupta	GGV/21/05513
14	Arpit Kumar Sahu	GGV/21/05514
15	Ashish Lader	GGV/21/05515
16	Ashutosh Kotwal	GGV/21/05516
17	Ashutosh Patker	GGV/21/05517
18	Ayush Laxme	GGV/21/05518
19	Ayush Rathore	GGV/21/05519
20	Ayushi Sahu	GGV/21/05520
21	Bhavesh Jolhey	GGV/21/05521
22	Bhawana Choudhary	GGV/21/05522
23	Chandrakant Son	GGV/21/05523
24	Deepak Kumar Mahar	GGV/21/05524
25	Geetanjali Sahu	GGV/21/05525
26	Hitansh Tiwari	GGV/21/05526
27	Jagriti Molchetla	GGV/21/05527
28	Kanchan Lata Rajak	GGV/21/05528
29	Kanishk Ware	GGV/21/05529
30	Kavita Sahu	GGV/21/05530



31	Khushboo Banjare	GGV/21/05532
32	Khushi Patel	GGV/21/05533
33	Kiran Patel	GGV/21/05534
34	Kritika Mishra	GGV/21/05535
35	Kumar Dev	GGV/21/05536
36	Kumari Yamini	GGV/21/05537
37	Kumkum Jain	GGV/21/05538
38	Manisha Yadav	GGV/21/05539
39	Md Kaif Siddiqui	GGV/21/05540
40	Megha Verma	GGV/21/05541
41	Mithilesh Kumar Kaushik	GGV/21/05542
42	Mohan Kumar Dewangan	GGV/21/05543
43	Muskan Tripathi	GGV/21/05544
44	Nikhil Jadhav	GGV/21/05545
45	Nikita Verma	GGV/21/05546
46	Om Chandra	GGV/21/05547
47	Peeyush Patel	GGV/21/05548
48	Pemendra Sahu	GGV/21/05549
49	Pooja Sahu	GGV/21/05550
50	Prachi Vaishnav	GGV/21/05551
51	Prakash Singh Thakur	GGV/21/05552
52	Pratyush Prasad Thakur	GGV/21/05553
53	Raj Bhagat	GGV/21/05554
54	Ram Chandra	GGV/21/05555
55	Rupendra Jagat	GGV/21/05556
56	Savita Rathia	GGV/21/05557
57	Shweta Tamrakar	GGV/21/05558
58	Shyam Sundar Bidoya	GGV/21/05559
59	Siddhant Chandra	GGV/21/05560
60	Simran Lahare	GGV/21/05561
61	Sneha Jaiswal	GGV/21/05562
62	Sonal Sonwani	GGV/21/05563
63	Sparsh Thawait	GGV/21/05564
64	Sumit Sahu	GGV/21/05566



65	Surya Prakash Khutey	GGV/21/05567
66	Vikalp Bhardwaj	GGV/21/05568
67	Vishvendra Pratap Singh	GGV/21/05569
68	Vivek Gope	GGV/21/05570
69	Vivek Netam	GGV/21/05571

विभागाध्यक्ष
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