



**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 <sup>1</sup>	Marks ESE <sup>2</sup>	Total Marks
I	CORE 1	AMUATT1	Calculus	5(4-1-0)	30	70	100
	CORE 2	AMUATT2	Algebra and Geometry	5(4-1-0)	30	70	100
	GE-1		Opted from the pool Course and offered by Sister Departments	5	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 Credit Course						
<b>Total Credit</b>				<b>19</b>			
II	CORE 3	AMUBTT1	Multivariable Calculus	5(4-1-0)	30	70	100
	CORE 4	AMUBTT2	Ordinary Differential Equations	5(4-1-0)	30	70	100
	GE-2		Opted from the pool Course and offered by Sister Departments	5	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 Credit Course						
<b>Total Credit</b>				<b>19</b>			
III	CORE 5	AMUCTT1	Real Analysis	5(4-1-0)	30	70	100
	CORE 6	AMUCTT2	Group Theory	5(4-1-0)	30	70	100
	CORE 7	AMUCTT3	Probability and Statistics	5(4-1-0)	30	70	100
	GE-3		Opted from the pool Course and offered by Sister Departments	5	30	70	100
	AEC-3		Opted from the Pool Course offered by University	2	30	70	100
	Additional Credit Course						
<b>Total Credit</b>				<b>22</b>			



IV	CORE 8	AMUDDT1	Mechanics	5(4-1-0)	30	70	100
	CORE 9	AMUDDT2	Linear Algebra	5(4-1-0)	30	70	100
	CORE 10	AMUDDT3	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* Additional Credit Course	AMUDEF1		06			100
	<b>Total Credit</b>				<b>22+6*</b>		
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)	AMUETD1	Tensors and Differential Geometry	5(4-1-0)	30	70	100
		AMUETD2	Mathematical Logic	5(4-1-0)	30	70	100
		AMUETD3	Integral Transforms and Fourier Analysis	5(4-1-0)	30	70	100
		AMUETD4	Linear Programming	5(4-1-0)	30	70	100
		AMUETD5	Information Theory and Coding	5(4-1-0)	30	70	100
		AMUETD6	Graph Theory	5(4-1-0)	30	70	100
		AMUETD7	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							
<b>Total Credit</b>				<b>22</b>			
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)	AMUFTD1	Discrete Mathematics	5(4-1-0)	30	70	100
		AMUFTD2	Wavelets and Applications	5(4-1-0)	30	70	100
		AMUFTD3	Number Theory	5(4-1-0)	30	70	100



		AMUFTD4	Mathematical Finance	5(4-1-0)	30	70	100
		AMUFTD5	C++ Programming for Mathematics	5(4-1-0)	30	70	100
		AMUFTD6	Cryptography	5(4-1-0)	30	70	100
		AMUFTD7	Advanced Mechanics	5(4-1-0)	30	70	100
	Seminar	AMUFST1		02			100
	Dissertation/Project	AMUFDI1		07			100
	Additional Credit Course						
<b>Total Credit</b>				<b>24</b>			

- The Code generated by the Department. \*May be offered during the summer;

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

**विभागाध्यक्ष**  
**Head**  
गणित विभाग  
Department of Mathematics  
गुरु घासीदास विश्वविद्यालय,  
Guru Ghasidas Vishwavidyalaya,  
बिलासपुर (छ.ग.) 495009, भारत  
Bilaspur (C.G.), 495009, India



## गुरु घासीदास विश्वविद्यालय, बिलासपुर (छ.ग.)

(केन्द्रीय विश्वविद्यालय अधिनियम 2009, क्रमांक 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय)  
**GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)**

(A Central University established by the Central Universities Act., 2009 No. 25 of 2009)  
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कर्मोंक 180 / अका. / अका.कैलेण्डर / 2021


बिलासपुर, दिनोंक 20 SEP 2021

### कार्यालयीय ज्ञाप

विद्यापरिषद की स्थायी समिति की बैठक दिनोंक 06-09-2021 पूरक विषय क0-10 अन्तर्गत अधिष्ठाताओं की बैठक दिनोंक 02-09-2021 के कार्यवृत्त एवं अधिष्ठातागणों द्वारा अनुशांसी अकादमिक कैलेण्डर सत्र 2021-22 के लिये अनुमोदन किया गया है।

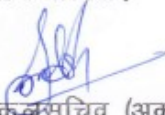
अनुमोदनोपरांत सर्व-सूचनार्थ एवं आवश्यक कार्यवाही हेतु विश्वविद्यालय शिक्षण विभाग में संचालित पाठ्यक्रमों के विषम सेमेस्टर (1<sup>st</sup> & 3<sup>rd</sup> Sem) के अकादमिक कैलेण्डर 2021-22 संलग्न व एतद् द्वारा जारी किया जाता है।

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, गु0घा0वि0वि0, 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 (अका0)



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	
		20.10.2021 (1 <sup>st</sup> Sem)	11.10.2021 (3 <sup>rd</sup> Sem)
1.	Commencement of classes (New Admission)	20.10.2021 (1 <sup>st</sup> Sem)	11.10.2021 (3 <sup>rd</sup> Sem)
2.	1 <sup>st</sup> 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 <sup>nd</sup> 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 <sup>st</sup> and 2nd) to CoE along with evaluated manuscript (Theory + Practical)	25.03.2022	

Manisha  
02-09-2021  
02/9/21  
Rajy  
2/9/21  
Shay  
02/09/21  
02.09.21  
02/9/21

आंतरिक गुणवत्ता आश्वासन प्रकोष्ठ  
गुरु घासीदास विश्वविद्यालय  
बिलासपुर (छ0ग0)

(केन्द्रीय विश्वविद्यालय अधिनियम 2009 क. 25 के  
अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय)

Phone: 07752-296248 Fax: 07752-260154

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**Internal Quality Assurance Cell (IQAC)**  
**Guru Ghasidas Vishwavidyalaya**  
**Bilaspur (C.G.)**

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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 Ingley	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	Bhavesj 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



**गुरु घासीदास विश्वविद्यालय**  
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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**  
**Head**  
गणित विभाग  
**Department of Mathematics**  
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