



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

List of Programme(s)

Department: Mathematics

List of Programmes having Components of Project

Sr. No.	Programme Code	Programme Name	Academic Year
01.		M.Sc. (Mathematics)	2021-22





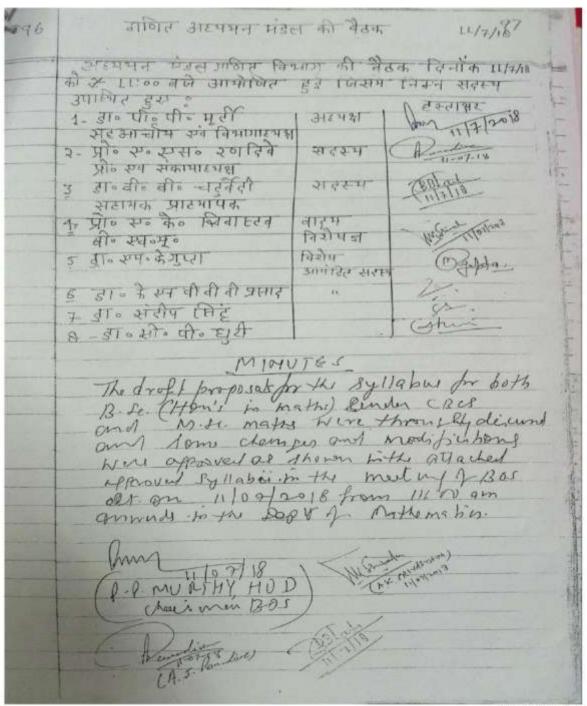
Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

Minutes of Meetings (MoM) of Board of Studies (BoS)

School : SoS of Computational and Mathematical Science

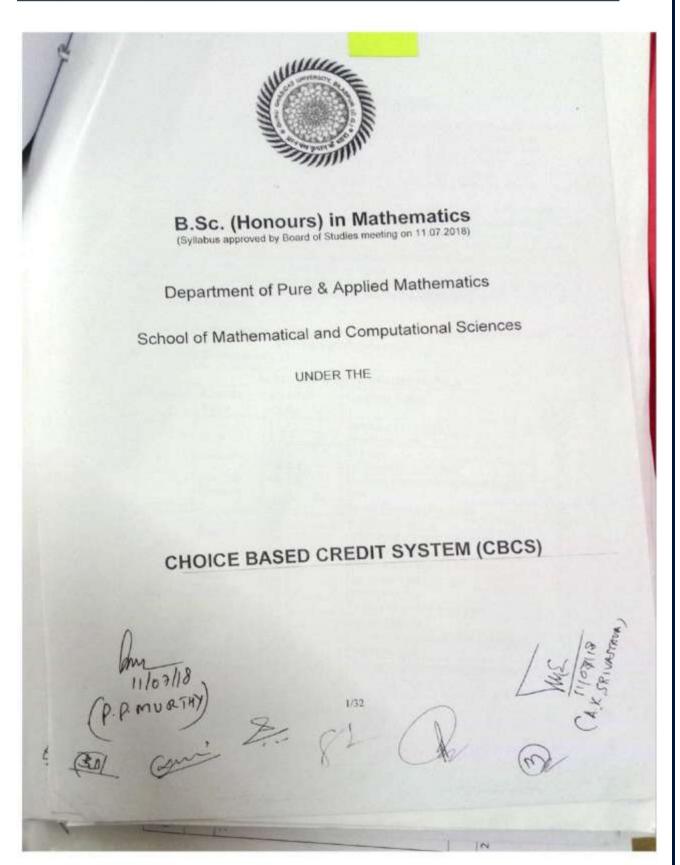
Department: *Mathematics*

Date and Time: July 11, 2018, 11.00 a.m.





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SCHEME OF EXAMINATION

All papers of B.Sc.(Honors'in Mathematics) First, Second, Third and Fourth Semesters are compulsory. In Fifth and Sixth Semesters TWO PAPERS(02) are core papers and each student has to choose three papers from the list of given optional papers. An examinee has to attempt total five (05) questions out of eight(08) i.e. one compulsory and four optional. Question No. 1 is compulsory and will consist of short answered type ten(10) questions spread all over the syllabus carrying 20 marks (2 marks of each question). Rest of all questions will carry 10 marks each.

In addition to this in the final semester (i.e. Fourth Semester of M.Sc. in Mathematics) a student can choose two optional papers and one project dissertation (selection based on the criteria fixed by Department Head) under the supervision/guidance of any of the faculty members in the relevant areas of Mathematics closely to the subjects taught at M.Sc. level. Supervisor and topic of the dissertation for student is being allotted at the level of Department in consultation with HOD by a team of faculty members. The dissertation evaluation of 100 marks is evaluated by a committee consisting of HOD, supervisor and external subject expert. Each paper (except project dissertation) is of 100 marks and its distribution is as under:

Internal Assessment: 40 (30 marks of internal examination + 05 marks of assignment + 05 maximum marks on attendance)

End Semester Examination: 60

Semester	Course	Course		
	Type	Code	Calculus (Theory)	04
	Core	C1.1		02
		C 1.1 Practical (Lab)		06
		C 1.2	Algebra	06
1	Generic Elective	GE 1.1	Differential Calculus	06
		GE 1.2	Object Oriented Programming in C++	3000
		GE 1.3	Finite Element Methods	06
	Core Generic Elective Core	C2.1	Real Analysis	06
		C 2.2	Differential Equations (Theory)	04
П		C 2.2	Practical (Lab)	02
		GE 2.1	Algebra and Matrix Theory	06
		GE 2.2	Mathematical Finance	06
		GE 2.3	Econometrics	06
		C3.1	Theory of Real Functions	06
			Group Theory I	06
		C3.2	PDE and System of ODE (Theory)	04
		C3.3	Practical (Lab)	02
		C3.3 GE 3.1	Ordinary Differential Equations	06

गुरु घासीदास विश्वविद्यालय (७डीर विस्तिवास अधिन 2000 ह. 25 वे आर्था स्वाधित छेडीर विश्वविद्याला) कोनी, बिलासपुर - 495009 (छ.ग.)



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[1]	Generic	and Very a control of the control of		
	Elective	GE 3.2	and Vector Calculus	
			Cryptography and Network Security	06
		GE 3.3	Information Security	
	SEC	SEC 1.1	Logic and Sets	06
		SEC 1.2	Computer Graphics	06
		C4.1	Numerical Methods (Theory)	
	Core	C4.1	Practical (Lab)	
		C4.2	Riemann Integration and series	02
	/2	of Functions		00
		C4.3	Ring Theory and Linier Algebra I	06
IV	Generic	GE4.1	Partial Differential Equations,	06
	Elective		Laplace Transform and Fourier	
		CEAR	Series	
		GE 4.2	Applications of Algebra	06
	SEC	GE 4.3	Combinatorial Mathematics	00
		SEC 2.1	Graph Theory	00
	Comm	SEC 2.2	Operating System: Linux	00
	Core	C 5.1	Multivariate Calculus	0
	DCC	C 5.2	Group Theory II	0
	DSE	DSE 1.1	Portfolio Optimization	0
V	(Any One)	DSE 1.2	Number Theory	0
	0.00	DSE 1.3	Analytical Geometry	0
	DSE	DSE 2.1	Industrial Mathematics	0
	(Any One)	DSE 2.2	Boolean Algebra and Automata Theory	0
		DSE 2.3	Probability and Statistics	0
	Core	C 6.1	Metric Space and Complex Analysis	
		C 6.2	Ring Theory and Linear Algebra II	0
	DSE	DSE 3.1	Theory of Equations	0
VI	(Any One)	DSE 3.2	Bio-Mathematics	0
	()	DSE 3.3	Linear Programming	0
	DSE	DSE 4.1	Mathematical Modeling	1
	(Any One)	DSE 4.2	Mechanics	(
	(Ally One)	DSE 4.3	Differential Geometry	(

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M.Sc. in Mathematics (Syllabus approved by Board of Studies meeting on 29.06.2017)

Department of Pure & Applied Mathematics

School of Mathematical and Computational Sciences

UNDER THE

CHOICE BASED CREDIT SYSTEM

SCHEME OF EXAMINATION

All papers of M.Sc. First and Second Semesters are compulsory. In M.Sc. Third and Fourth Semester Two papers are core papers and each student has to choose three among the given list of optional papers (Including Project). A candidate has to attempt five questions. Question No. 1 is compulsory which will consist of short answered type ten questions spread all over the syllabus carrying 20 marks (2 marks each). Rest all questions will carry 10 marks each.

Supervisor and topic of the dissertation for student will be allotted at the level of Department. The dissertation evaluation of 100 maks evaluated by a committee consisting of HOD, supervisor and external subject expert. Each paper (except project dissertation) is of 100 marks and its distribution is as under:

Internal Assessment: 40

End Semester Examination: 60

M.Sc. in Mathematics

Semester Course code		Core Course	Credit Hours
	MSC 1.1	Algebra - I	04
	MSC 1.2	Real Analysis	04
1	MSC 1.3	Topology-I	04
	MSC 1.4	Differential Geometry - 1	04
	MSC 1.5	Discrete Mathematical Structures	04
	MSC 2.1	Algebra - II	04
п	MSC 2.2	Complex Analysis	04
11	MSC 2.3	Topology-11	0.4
	MSC 2.4	Differential Geometry - II	04
	MSC 2.5	Graph Theory	04
III (Core Group)	MSC 3.1	Functional Analysis	04
	MSC 3.2	Theory of Differential Equations -I	04
(iroup)	MSO 3.1	Fuzzy Sets, Fuzzy Logic and their Applications –I	04
	MSO 3.2	Integral Equations	04

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गुरु घासीदास विश्वविद्यालय (क्ट्रीय विश्वविद्यालय अधिनम 2008 ह. 25 के अंग्रेग लागित केट्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



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	MSO 3.3 Operations Research-1		04
ш	MSO 3.4	Differential Geometry of Manifolds	04
(Optional Group ANY	MSO 3.5	Difference Equations -I	04
THREE)	MSO 3.6	Information Theory and its Applications	04
	MSO 3.7	Object Oriented Programming with C++	04
	MSO 3.8	Number Theory and Cryptography	04
IV	MSC 4.1	Advanced Functional Analysis	04
(Core	MSC 4.2	Theory of Differential Equations -II	04
Group)	MSO 4.1	Fuzzy Sets, Fuzzy Logic and their Applications-II	0.4
		Finsler Geometry	04
	MSO 4.2	Operations Research- II	04
1V	MSO 4.3	Complex Manifolds	04
(Optional		Difference Equation -II	04
Group ANY THREE	MSO 4.5	Financial Mathematics and its	04
	MSO 4.6	Applications	174
	MSO 4.7	Project	04
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List of students undertaking Field Projects/Projects / Internships

Sr. No.	Programme Name	Name of the Student	Link of Certificate
01.	MSc (Mathematics)	Jitendra Kumar	03212023104816 Project dissertation of the students of Post Graduate programme (M.Sc., Maths.) for session 2021-22 polf (ggu ac.in)
02.	MSc (Mathematics)	Mamata Kaushik	03212073104816 Project dissertation of the students of Post Graduate programme (M.Sc., Maths.) for session 2021-22.pdf (ggu.ac.in)
03.	MSc (Mathematics)	Sunima Patel	03212023104816 Project dissertation of the students of Post Graduate programme (M.Sc., Maths.) for session 2021-22 pdf (ggu.ac.in)
04.	MSc (Mathematics)	Vandana Kumari	03212023104816. Project dissertation of the students of Post Graduate programme (M Sc., Maths.) for session 2023-22.pdf (ggu.ac.in)
05.	MSc (Mathematics)	Shashank Nirmalkar	03212073104816 Project dissertation of the students of Post Graduate programme (M.Sc., Maths.) for session 2021-22 pdf (ggu.ac.in)
06.	MSc (Mathematics)	Satish Gupta	03212023104816 Project dissertation of the students of Post Graduate programme (M.Sc., Maths.) for session 2021-22 pdf (ggu ac.in)
07.	MSc (Mathematics)	Anjali Saw	03212033104816. Project dissertation of the students of Post Graduate programme (M Sc., Maths.) for session 2023-22.pdf (ggu.ac.in)
08.	MSc (Mathematics)	Nutan Sahu	03212023104816 Project dissertation of the students of Post Graduate programme (M.Sc., Maths.) for session 2021-22.pdf (ggu.ac.in)
09.	MSc (Mathematics)	Aabha Patel	03212023104816 Project dissertation of the students of Post Graduate programme (M.Sc., Maths.) for session 2021-22 pdf (ggu ac.in)
10.	MSc (Mathematics)	Pankaj Yadav	03212023104816. Project dissertation of the students of Post Graduate programme (M Sc., Maths.) for session 2023-22.pdf (ggu.ac.in)
11.	MSc (Mathematics)	Sourav Deep	03212073108816. Project dissertation of the students of Post Graduate programme (M.Sc., Maths.) for session 2021-22 pdf (ggu.ac.in)
12.	MSc (Mathematics)	Nitu Sahu	03212023104816 Project dissertation of the students of Post Graduate programme (M.Sc., Maths.) for session 2021-22.pdf (ggu.ac.in)
13.	MSc (Mathematics)	Smitaprajna Sahu	03212023104816 Project dissertation of the students of Post Graduate programme (M.Sc., Maths.) for session 2021-22 pdf (ggu.ac.in)