
Department of Mathematics, GMGC

**ACADEMIC CALENDAR (1+1+1 system)
(2018-2019)**

**MATHEMATICS HONOURS (1+1+1 System),
MATHEMATICS GENERAL (1+1+1 System)**

ACADEMIC CALENDAR (2018-2019)

MATHEMATICS HONOURS (1+1+1 System)

SECOND YEAR HONOURS

MODULES (50 marks each)	Syllabus to be covered (with marks)	FIRST TERM (July'18 to Oct'18)			SECOND TERM (Nov'18 to Jan'19)			THIRD TERM (Feb'19 to Apr'19)			Preparatory Examination
		Topic	Lectures	Faculty	Topic	Lectures	Faculty	Topic	Lectures	Faculty	
Module V	Gr.A: Modern Algebra II (15)	1	4	GS	2	10	GS	2	6	GS	FIRST WEEK OF FEBRUARY, 2019.
	Gr.B: Linear Programming & Game Theory (35)	1,2	8+6	MB	3,4,5	6+6+6	MB	6,7	8,10	MB	
Module VI	Gr.A: Analysis II (15)	1.a,b,c	1+3+1	GS	1.d,e 2.a,b	1+3 2+1	GS	2.c,d	10+4	GS	
	Gr.B: Differential Equations I (35)	1,2, 3,4	2+5+2+ 3	JR	5,6,8	2+8+2	JR	7,9,10	10+3+ 5	JR	
Module VII	Gr.A: Real-valued functions of several real variables (30)	1,2,3	2+1+3	SB	4	10	SB	5,6	8+3	SB	
	Gr.B: Application of Calculus (20)	1,3	4+3	SB	5	5	SB	2,4,6,7	3+4+1 +3	SB	
Module VIII	Gr.A: Analytical Geometry of 3D -II (15)	1.a,b	3+5	JR	1.c,d 2.	3 5	JR	3,4,5	10+2+ 2	JR	
	Gr. B: Analytical Statics I (10)	2	4	JR	1	4	JR				
	Gr. C: Analytical Dynamics of a Particle I (25)	Recap. applica- -tions	5	MB	Impact .deflec. Tgt accln.	10	MB	Damp- ed..... part., Motion	10	MB	

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THIRD YEAR HONOURS

MODULES (50 marks each)	Syllabus to be covered (with marks)	FIRST TERM (July'18 to Oct'18)			SECOND TERM (Nov'18 to Jan'19)			THIRD TERM (Feb'19 to Apr'19)			Preparator y Examinati on	
		Topic	Lect- ures	Facul- ty	Topic	Lectu- res	Facul- ty	Topic	Lectu- res	Facul- ty		
Module IX	Analysis III (50)	1,2, 3.a,b,c	2+8+ 6+5+ 3	GS	3.d,e 4.a,b,c, d,e	4+2 4+5+5+ 2+8	GS	-	-	-	FIRST WEEK OF JANUARY 2019	
Module X	Gr.A: Linear Algebra II & Modern Algebra III (10+10)	Sec-I: 1	5	GS	Sec-I: 2	5	GS	-	-	-		
		Sec-II: 3	5	GS	Sec-II: 4	5	GS	-	-	-		
	Gr.B: Tensor Calculus (15)	A tensor.... Contraction	8	MB	Outer & inner prod. -----tens. diff.	7	MB	-	-	-		
Module XI	Gr.C: Differential Equation II (or, Graph Theory) (15)	D.E.--1	10	JR	D.E--1 D.E--2	6 2	JR	-	-	-		
		Gr.A: Vector Calculus II (10)	Line Int ..orient.	4	JR	Statemen ts....Div. th.	4	JR	-	-		-
		Gr.B: Analytical Statics II (20)	1,2	3+8	JR	3,4	6+12	JR	-	-		-
Module XII	Gr.C: Analytical Dynamics of a Particle II (20)	1,2,3	12	SB	4,5	8	SB	-	-	-		
		Gr.A: Hydrostatics(25)	1,2,3	15	SB	4 5,6	5 10	SB	-	-		-
		Gr.B: Rigid Dynamics (25)	1,2	15	GS	3 4	10 15	GS	-	-		-
Module XIII	Gr.A: Analysis IV (20)	1.a, b 2	2+3 5	GS	1.c 3	5 5	GS	-	-	-		
		Gr.B: Metric Space (15)	1	7	JR	2	4	JR	-	-		-
		Gr.C: Complex Analysis (15)	1, 2	2+4	JR	2	4	JR	-	-		-

Module XIV	Gr.A: Probability (30)	Random.E xp.--two dimen.	20	MB	Math. Expect.--	20	MB	-	-	-
	Gr. B: Statistics (20)	Random---normal pop.	20	SB	Bivariate----hyp. testing	15	SB	-	-	-
Module XV	Gr.A: Numerical Analysis (25)	What is—Lagrange's formula.	15	MB	Num.Int.- ----probs. only.	15	MB	-	-	-
	Gr.B: Computer Programming (25)	Fund.of comp.— problems.	15	SB	Prog. Lang.---A NSI C	15	SB	-	-	-
Boolean Alg.		5		Boolean Alg.	5					
Module XVI	Practical----- Problems: 30 Sessional work: 10 Viva : 10	(A) 1,2,3	-	MB	(A) 4,5,6	-	MB	-	-	-
		(B) i,ii	-	SB	(B) iii,iv	-	SB			

ACADEMIC CALENDAR (2018 - 2019)

MATHEMATICS GENERAL (1+1+1 System)

SECOND YEAR GENERAL

PAPER II (100 MARKS)	Syllabus to be covered (with marks)	FIRST TERM (July'18 to Oct'18)			SECOND TERM (Nov'18 to Jan'19)			THIRD TERM (Feb'19 to Apr'19)			Preparatory Examination
		Topic	Lect-ures	Fac-ulty	Topic	Lect-ures	Faculty	Topic	Lectu-res	Facul-ty	
Module III (50 MARKS)	Gr.A: Modern Algebra (25)	1,2	16	GS	3,4	16	GS	5,6	16	GS	SECOND WEEK OF FEBRUARY, 2019.
	Gr.B: Analytical Geometry of 3D (25)	1,2	14	JR	3	14	JR	4,5	14	JR	
Module IV (50 MARKS)	Gr.A: Differential Calculus (25)	1	14	GS	2,3	14	GS	3 (contd.)	14	GS	
	Gr.B: Integral Calculus (15)	1	10	JR	2,3	10	JR	4	8	JR	
	Gr.C: Differential Equations (10)	1	14	JR	1 (contd.)	14	JR	-	-	-	

PAPER III (100 MARKS)	Syllabus to be covered (with marks)	FIRST TERM (July'18 to Oct'18)			SECOND TERM (Nov'18 to Jan'19)			THIRD TERM (Feb'19 to Apr'19)			Preparatory Examination
		Topic	Lectures	Facu-ilty	Topic	Lectu-res	Faculty	Topic	Lect-ures	Facul-ty	
Module V (50 MARKS)	Gr.A: Numerical Methods(20)	1,2	10	MB	3,4	10	MB	5	8	MB	SECOND WEEK OF FEBRUARY, 2019.
	Gr.B: Linear Programming (30)	1. Motivation... BFS	14	MB	The set... feasible solution	14	MB	Fund. Th. ... optimal solution	14	MB	
Module VI (50 MARKS)	Gr.A: Analytical Dynamics (50)	X	X	X	X	X	X	X	X	X	
Any one group.....	Gr.B: Probability & Statistics (50)	1,2	14	SB	3,4	14	SB	5,6	14	SB	

THIRD YEAR GENERAL

PAPER IV (100 MARKS)	Syllabus to be covered (with marks)	FIRST TERM (July'18 to Oct'18)			SECOND TERM (Nov'18 to Jan'19)			THIRD TERM (Feb'19 to Apr'19)			Preparatory Examination
		Topic	Lect-ures	Faculty	Topic	Lect-ures	Faculty	Topic	Lect-ures	Facul-ty	
Module VII (50 MARKS)	Computer Science & Programming (50)	1. Boolean 2. Comp. sc. & prog.	14	JR	2.Prog. Lang., Algo. & flow charts.... internet	14	JR	-	-	-	SECOND WEEK OF JANUARY 2019
Module VIII (50 MARKS) Any one group.....	Gr.A: A Course of Calculus (50)	x	x	x	x	x	x	x	x	x	
	Gr.B: Discrete Mathematics (50)	1. Integer 2. Congruence 3. Applns.	12	GS	4. Cong. Classes 5. Rec. relns. & Gen. fns. 6. Boolean Algebra	14	GS	--	--	--	

Dr. Mala Bhattacharyya
(HEAD OF THE DEPARTMENT)