

Department of Mathematics, GMGC

**ACADEMIC CALENDAR (1+1+1 system)
(2017-2018)**

MATHEMATICS HONOURS (1+1+1 System)

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MATHEMATICS GENERAL (1+1+1 System)

ACADEMIC CALENDAR (2017-2018)

MATHEMATICS HONOURS (1+1+1 System)

FIRST YEAR HONOURS

MODULES (50 marks each)	Syllabus to be covered (with marks)	FIRST TERM (July'17 to Oct'17)			SECOND TERM (Nov'17 to Jan'18)			THIRD TERM (Feb'18 to Apr'18)			Preparatory Examination
		Topic	Lectures	Faculty	Topic	Lectures	Faculty	Topic	Lectures	Faculty	
Module I	Gr.A: Classical Algebra (35)	1	15	MB	2, 3	8+8	MB	4,5	7+8	MB	FIRST WEEK OF MARCH, 2018.
	Gr.B: Modern Algebra I (15)	1	10	GS	2	10	GS	-	-	-	
Module II	Gr.A: Analytical Geometry of 2D (20)	1	4	JR	2,3	8+5	JR	4	4	JR	
	Gr.B: Analytical Geometry of 3D (15)	1	4	JR	2	8	JR	3	10	JR	
	Gr.C: Vector Algebra (15)	Vect. alg.---- Rect. comps.	5	JR	Prod. of vectors & direct apps.	6	JR	Vect. Eqns.	4	JR	
Module III	Gr.A: Analysis I (40)	1.a, b	3+6	GS	2,3,5	8+8+7	GS	3,4,5	8+4+10	GS	
	Gr.B: Evaluation of integrals (10)	Evaln. of integrals	5	JR	-	-	-	-	-	-	
Module IV	Gr.A: Linear Algebra I (35)	1,2	4+8	SB	3,4	4+15	SB	5,6	6+6	SB	
	Gr.B: Vector Calculus I (15)	1	5	SB	2	5	SB	1,2	6	SB	

SECOND YEAR HONOURS

MODULES (50 marks each)	Syllabus to be covered (with marks)	FIRST TERM (July'17 to Oct'17)			SECOND TERM (Nov'17 to Jan'18)			THIRD TERM (Feb'18 to Apr'18)			Preparatory Examination
		Topic	Lectures	Faculty	Topic	Lectures	Faculty	Topic	Lectures	Faculty	FIRST WEEK OF FEBRUARY, 2018.
Module V	Gr.A: Modern Algebra II (15)	1	4	GS	2	10	GS	2	6	GS	
	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. applications	5	MB	Impact .deflec. Tgt accln.	10	MB	Damp-ed..... part., Motion ...velocity.	10	MB	

THIRD YEAR HONOURS

		FIRST TERM (July'17 to Oct'17)	SECOND TERM (Nov'17 to Jan'18)	THIRD TERM (Feb'18 to Apr'18)	Preparator y
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MODULES (50 marks each)	Syllabus to be covered (with marks)										Examination
		Topic	Lectures	Faculty	Topic	Lectures	Faculty	Topic	Lectures	Faculty	
Module IX	Gr.A: 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 2018
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	GS	Outer & inner prod. ----- -tens. diff.	7	GS	-	-	-	
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	Statements....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	SB	3 4	10 15	SB	-	-	-	
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	GS	2	4	GS	-	-	-	
	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	MB	Bivariate- ----hyp. testing	15	MB	-	-	-	

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.--- ANSI 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 (2017 - 2018)
MATHEMATICS GENERAL (1+1+1 System)

FIRST YEAR GENERAL

PAPER I (100 MARKS)	Syllabus to be covered (with marks)	FIRST TERM (July'17 to Oct'17)			SECOND TERM (Nov'17 to Jan'18)			THIRD TERM (Feb'18 to Apr'18)			Preparatory Examination
		Topic	Lectures	Faculty	Topic	Lectures	Faculty	Topic	Lectures	Faculty	SECOND WEEK OF MARCH, 2018.
Module I (50 MARKS)	Gr.A: Classical Algebra (20)	1	28	MB	2	20	MB	3 4	14 14	MB	
	Gr.B: Analytical Geometry of 2D (15)	1,2	14	JR	3,4	14	JR	5	14	JR	
	Gr.C: Vector Algebra (15)	Addn. of vectors ...three vectors.	6	SB	Simple applns.	5	SB	Simple Applns. (contd.)	5	SB	
Module II (50 MARKS)	Gr.A: Differential Calculus(25)	1,2,3	14	GS	4,5,6	14	GS	7,8	14	GS	
	Gr.B: Integral Calculus(10)	1	10	SB	2	12	SB	3	12	SB	
	Gr.C: Differential Equations(15)	1. Order...1.(ii)	14	JR	1. iii,iv	14	JR	1.v, 2	14	JR	

SECOND YEAR GENERAL

PAPER II		FIRST TERM (July'17 to Oct'17)	SECOND TERM (Nov'17 to Jan'18)	THIRD TERM (Feb'18 to Apr'18)	Preparatory Examination
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(100 MARKS)	Syllabus to be covered (with marks)	Topic	Lect-ures	Fac-ulty	Topic	Lect-ures	Faculty	Topic	Lectu-res	Facul-ty	SECOND WEEK OF FEBRUARY, 2018.
Module III (50 MARKS)	Gr.A: Modern Algebra (25)	1,2	16	GS	3,4	16	GS	5,6	16	GS	
	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'17 to Oct'17)			SECOND TERM (Nov'17 to Jan'18)			THIRD TERM (Feb'18 to Apr'18)			Preparatory Examination
		Topic	Lectures	Facu-ity	Topic	Lectu-res	Faculty	Topic	Lectu-res	Facul-ty	SECOND WEEK OF FEBRUARY, 2018.
Module V (50 MARKS)	Gr.A: Numerical Methods(20)	1,2	10	MB	3,4	10	MB	5	8	MB	
	Gr.B: Linear Programming (30)	1. Motiva-tion... 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	Syllabus to be covered	FIRST TERM (July'17 to Oct'17)	SECOND TERM (Nov'17 to Jan'18)	THIRD TERM (Feb'18 to Apr'18)	Preparatory Examination
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(100 MARKS)	(with marks)	Topic	Lect - ures	Faculty	Topic	Lect- ures	Faculty	Topic	Lect- ures	Facul -ty	SECOND WEEK OF JANUARY 2018
Module VII (50 MARKS)	Computer Science & Programming (50)	1. Boolean 2. Comp. sc. & prog.	14	SB	2.Prog. Lang., Algo. & flow charts.... internet	14	SB	-	-	-	
Module VIII (50 MARKS) Any <u>one</u> 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	SB	4. Cong. Classes 5. Rec. relns. & Gen. fns. 6. Boolean Algebra	14	SB	--	--	--	
