Lesson Plan : 2018-2019

Dr Kankon Bhattacherjee

2nd Year Mathematics (HONS) : Examination-Part II -(I+I+I)system (New Regulation)

	Ju	ly to	beginning of Puja Vacation		Aft	er Puj	a Vacation toTestExam	AfterTestExam to Summer Recess started
paper		Group	Article/Topic	Paper	Module	Group	Article/Topic	
IV	VII	В	 § 1Area bounded by the curve etc. No. of Lectures Required- 10 	IV		A	3D: § 2,3,4,5, Equations of cones,cylinders,ruled surfaces . Canonical Forms, Tangent	Revision on cones,, Tangent planes, normals, Enveloping cone Generating lines with solving University questions papers Remedial classes 8
IV	VIII	A	3D: § 1(a),(b),Equationsof spheres, cones, cylinders,ruled surfaces. No. of Lectures Required21				 planes, normals, Enveloping cone Generating lines. No of class Tests-2. No. of Lectures Required20 	papers Remedial classes -6
ш	VI	В	<pre>§5. Applications : Geometric applications, Orthogonal trajectories. §8,9.—Eigen value problem,Simultaneous equations. No. of Lectures Required6</pre>	IV		В	<pre>§10 Partial differential equation (PDE) : Introduction. Formation of P.D.E., Solution of PDE by Lagrange's method of solution and by Charpit's method. No of class Tests-1 No. of Lectures Required -5</pre>	Revision on Eigen value problem, Simultaneous equations, with solving University quation s papers . No of class Tests-1 Revision on Lagrange s method and Charpit's method. with solving University quation s papers Remedial classes -8

Lesson Plan: Dr Kankon Bhattacherjee

3rd Year Mathematics (HONS) : Examination-Part III - (I+I+I)system (New Regulation)

		July F	y to beginning of Puja Vacation	After Puja Vacation to Test Exam				
Paper	Module	Group	Article/ Topic	Paper Paticle/ Topic Paper Group				
V	IX	A	Analysis III § 3 -Riemann integrals. Fouriur Series No. of Lectures Required20	VII	XIII	А	Fouriur Series Double& triple integrals length ,Volume & areas ,Multiple integrals (arts ,2,3). <i>No. of Lectures Required10</i>	
VIII	XV	A	Errors, interpolation& differentiation. Numerical integration, Solution of a system of equations. No. of Lectures Required20	VIII	XV	A	Solution of a non-linear requation, . Eigen –value problem Solution of ordinary differential equation. <i>No. of LecturesRequired 20</i>	
				V	XI	A	Vector Analysis No. of Lectures Required 10	
VIII	XVI	B	Numerical Pratical-9problems No. of Lectures Required18	VIII	XVI	В	Numerical Pratical-11 problems No. of Lectures Required 28	

Lesson Plan:byDr Kankon Bhattacherjee

2nd Year Mathematics (*General*):Examination-Part II -(I+I+I)system (New Regulation)

	Augu	st beginning of Puja Vacation				After Puja Vacation toTest Exam
	Group	Article/ Topic	Paper	Module	Group	Article/ Topic
	В	3D: § 1,23 Tranformation of coordinates & examples. :Equations of planes and st.lines. <i>No of Lectures</i> <i>Required15</i>			В	3D: § 4Equations of spheres, cones. No of Lectures Required6
Π	С		II		С	Improper integrals No of Lectures Required4
			III		A	Errors, operators , interpolation Numerical integrations , solution of an equation. <i>No of Lectures</i> <i>Required -15</i>

Lesson Plan:CBCS

Hons Sem 1

SEM	CC / DSE	UNIT	NO. of CLASSES	MARKS
1	1	2,3	45	60

Gen Sem 1

SEM	CC /DSE	UNIT	NO. of CLASSES	MARKS
1	1	4	20	25

Lesson Plan – Honours

Name: Dr. Dipanwita Paul Ghosh

Department: Mathematics

SEM	CC/DSE	UNIT	NO. of CLASSES	MARKS
1	2	1 - §2,3,4	21	28

Year	Paper	Module	Topic	Article	Chapter	No. of	Session
						lectures	
2	3	V	LPP	1	1 Def., Formulation, Graphical		July to Pre-Puja
Hons					Soloution, BFS		
				3	Standard Form, Feasibility,	6	
					Optimal conditions		
		V	LPP	4	Simplex Algorithm, Two Phase	6	post-Puja to Winter
					Method, Degeneracy		vacation.
	4	VIII	Analytical		Newton's Laws of Motion, SHM,	7	July to Pre-Puja
			Dynamics		Basic Kinematics, Work and Poser,		
			of a		Applications		
			particle I				
		VIII	Analytical		Impact of Elastic Bodies	4	post-Puja to Winter
			Dynamics		Tangent and normal acceleration,	4	vacation.
			of a		circular motion		
			particle I				
		VIII	Analytical		Damped Harmonic Oscillator,	4	post-Winter
			Dynamics		Terminal Velocity, Constrained		Vacation to Test
			of a		motion		examination
			particle I		Projectile motion, Resisting	6	
					medium		

Year	Paper	Module	Торіс	No. of lectures	Session
3	5	Х	Linear	5	July to Pre-Puja
Hons			Algebra II		
X		Х	Modern	5	post-Puja to Winter vacation.
	Algebra III		Algebra III		
	7	XIII	Complex	10	July to Pre-Puja
			analysis		
8 XV (Computer	40	July to Pre-Puja	
			Programming		
		XVI	Practical	30	post-Puja to Winter vacation.

Lesson Plan - General Name: Dr. Dipanwita Paul Ghosh Department: Mathematics

SEM	CC/DSE	UNIT	NO. of CLASSES	MARKS
1	1	1- §2,3	5	7.5

Year	Paper	Module	Group	Topic	No. of	Session
					lectures	
2	2	III	A - Modern Algebra	Sets, Groups	12	July to Pre-Puja
				Ring, Field	9	post-Puja to Winter vacation.
				Vector space	12	post-Winter Vacation to Test examination

Year	Paper	Module	Group	Торіс	No. of	Session
					lectures	
3	4	VII	A - Elements of	Boolean Algebra,		July to Pre-
			Computer Science	Positional number	20	Puja
			And Programming	system, Algorithm,		_
				Flow-chart		
				FORTRAN	12	post-Puja to
						Test
						examination)

Lesson Plan – Honours

Name: DR. ANJANA BHATTACHARYYA Department: MATHEMATICS

SEM	CC / DSE	UNITS	NO. of Classes	MARKS
1	CC 2	UNIT 2 (Well	15	40
		Ordering Properties	+	
		onwards)	15	
		+		
		UNIT 3		

Year	Paper	Module	Group	Торіс	No. of lectures	Session
2	3	V	Α	Group	24	July to Pre-Puja
Hons		VI	А	Differentiation		
		VI	В	Equations of first order and first degree, First		
				order linear equations		
		V	А	Rings and Fields	35	post-Puja to
		VI	А	Series, Indeterminate		Winter vacation.
		VI	P	Foundations of first order		
		V I	Б	Equations of first order		
				but not of first degree,		
				Applications, Higher		
				order linear equations		
				with constant co-		
				efficients		
		VI	А	Expansion of functions,	20	post-Winter
				Maxima and Minima		Vacation to Test
		VI	В	Second order linear		examination
				equations with variable		
				co-efficients		

4			July to Pre-Puja
			post-Puja to Winter vacation.
			post-Winter Vacation to Test examination

Year	Paper	Module	Group	Торіс	No. of lectures	Session
3 Hons	5	IX	Α	Compactness in R, Function of bounded variation	20	July to Pre-Puja
		X	С	Laplace transformation and its applications in ordinary differential equations		
		IX	Α	Sequence and Series of functions of a real variable	25	post-Puja to Test examination)
		X	С	Series solution at an ordinary point		
	6					July to Pre-Puja post-Puja to Test examination)
	7	XIII	A	Improper Integral- (a) Range of integration, (b) Tests of convergence	13	July to Pre-Puja
			Б	of metric spaces		
		XIII	A	Convergence and working knowledge of Beta and Gamma function and their interrelation	10	post-Puja to Test examination)
			В	Subspace of a metric space and completeness of a metric space		
	8					July to Pre-Puja
						post-Puja to Test
						examination)

Lesson Plan - General Name: DR. ANJANA BHATTACHARYYA Department: MATHEMATICS

SEM	CC / DSE	UNIT	No. of Classes	MARKS
1	CC 1	UNIT 2	20	25

Year	Paper	Module	Group	Торіс	No. of lectures	Session
2	2	IV A		Expansion of functions	7	July to Pre-Puja
		IV	Α	Functions of two and	13	post-Puja to
				three variables		Winter vacation.
			Α	Indeterminate forms,		post-Winter
		IV			8	Vacation to Test
			С	Second order linear		examination
				equations		
	3					July to Pre-Puja
						post-Puja to
						Winter vacation.
						post-Winter
						Vacation to Test
						examination

Year	Paper	Module	Group	Topic	No. of lectures	Session
3	4	V	B	Recurrence Relations		July to Pre-Puja
				and Generating	11	
				Functions, Boolean		
				Algebra		
		V	B	Application of	17	post-Puja to Test
				Congruences		examination)

Lesson Plan – Honours Name: Basudev Siddhya Department: Mathematics

SEM	CC / DSE	UNIT	NO. of CLASSES	MARKS
1	1	Graphical	5	6.6
	2	Demonstation	15	20
		2-§1,2		

Year	Paper	Module	Торіс	Article	Chapter	No. of lectures	Session
2 nd 4		VII	A-Several variables	1 to 6	Point sets in two and three dimensions; Function of two and three variables; Jacobian; Taylor's theorem.	27	July to Pre- Puja
			B-Application of Calculus	1 to 7	Tangents and normal; Rectilinear asymptotes of a curve.	24	Post-Puja to Winter vacation
		VIII	B-Analytical Statics I	2	Equilibrium	4	Post-Winter Vacation to Test examination

Year	Paper	Module	Торіс	No. of lectures	Session
3 rd	7	XIV	A-Probability	40	July to Pre-
					Puja
			B-Statistics	35	Post-Puja to
					Winter
					vacation
	5	Х	B-Tensor Calculus	15	Post-Winter
					Vacation to
					Test
					examination
	6	XI	B-Analytical Statics II	12	Post-Winter
					Vacation to
					Test
					examination

Lesson Plan – General Name: Basudev Siddhya Department: Mathematics

SEM	CC /DSE	UNIT	NO. of CLASSES	MARKS
1	1	3	10	15

Year	Paper	Module	Group	Торіс	No. of lectures	Session
2 nd	2	V	B - Linear Programming	Motivation of Linear Programming with basic problems; Fundamental Theorem of L.P.P; Transportation and Assignment problem	30	July to winter vacation
		VI	B- Probablity & Statistics	Elements of Probablity Theory; Elements of Statistical Methods; Sampling Theory	15	Post winter vacation to Test examination

Note: No class is allotted for 3rd year general .