Polba Mahavidyalaya Departmental
Lesson Plan 2019-2020

Name of the Department: Mathematics

Name of the Programme: B.Sc. (General)

Name of the Course: Mathematics

Period of the Lesson Plan: 1st July 2019 – 30th June 2020

ODD SEMESTER

Academic Period	Class	Paper	Topic to be covered	No of lectures	Name of the teacher	Date of Internal Assessment
JULY' 2019 to JAN' 2020	**SEM- I**	**BMG1CC1A**	Limit and its examples, continuity, derivative, successive derivative, partial derivative etc.	20	Mr. Palash Sadhu	1st week of December, 2019
			Curvature, polar coordinates, Tangent, normal, asymptotes, etc.	15	Mr. Palash Sadhu	
			Rolle's theorem, Mean value theorems, etc. up to Maxima and Minima, intermediate forms.	25	Mr. Palash Sadhu	
	SEM-III	**BMG3CC1C**	Introduction of sets, Suprema, infima and some examples, Bolzano Weierstrass theorem and some application	15	Mr. Palash Sadhu	3rd week of Dec. 2019
			Sequence, some theorem and some examples	15	Mr. Palash Sadhu	
			Series of numbers, properties, examples	15	Mr. Palash Sadhu	
			Sequences and series of functions	15	Mr. Palash Sadhu	
	SEM-V	**BMG5DSE1A3**	Vector space, subspaces, examples, Basis, dimension etc.	20	Mr. Palash Sadhu	2nd week of Dec. 2019
			Linear transformations, Algebra of Linear Transformation, etc.	15	Mr. Palash Sadhu	
			Dual space, dual basis, Eigenvalue, eigenvectors	15	Mr. Palash Sadhu	
			Isomorphism theorems, Invertibility and isomorphism	10	Mr. Palash Sadhu	
		BMG5SEC31	Sample space, probability axioms, up to mathematical expectations and moment generating function of continuous and discrete distributions, etc.	20	Mr. Palash Sadhu	2nd week of Dec.2019
			Joint cumulative distribution function and its properties, up to independent random variables, etc.	20	Mr. Palash Sadhu	

EVEN SEMESTER

Academic Period	Class	Paper	Topic to be covered	No of lectures	Name of the teacher	Date of Internal Assessment
FEB' 20 to JUNE' 20	**SEM-II**	**BMG2CC1B**	1st order Differential equation, I.F., etc.	10	Dr. Amrita Das	1st week of May, 2020
			Higher order differential equations etc.	10	Dr. Amrita Das	
			Linear homogeneous diff. eqn. etc.	16	Mr. Palash Sadhu	
			Non linear P.D.E., Lagrange's method etc.	24	Dr. Amrita Das	
	SEM-IV	**BMG4CC1D**	Group, properties and examples	12	Dr. Amrita Das	1st week of May, 2020
			Subgroup, cyclic subgroup, normal subgroup etc.	12	Dr. Amrita Das	
			Rings, properties and examples etc.	12	Dr. Amrita Das	
			Fields, properties and examples etc.	12	Mr. Palash Sadhu	
	SEM-VI	**BMG6DSE1B3**	Linear programming problem, graphical method etc.	10	Mr. Palash Sadhu	1st week of May, 2020
			Convex sets, properties etc.	12	Dr. Amrita Das	
		BMG6SEC42	Simplex method etc.	13	Dr. Amrita Das	
			Duality theory etc.	12	Mr. Palash Sadhu	
			Transportation and assignment problems	25	Dr. Amrita Das	1st week of May,2020
			Game theory	15	Dr. Amrita Das	

POLBA MAHAVIDYALAYA

Implementation of Departmental Lesson Plan 2019-2020

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ODD SEMESTER

Academic Period	Class	Paper	Topic covered	Topic not covered	Reason for not covered	Date of Internal Assessment	Remarks
July' 19 to Jan' 20	SEM-I	BMG1CC1A	Limi and its examples, continuity, derivative, successive derivative, partial derivative, etc. Curvature, polar coordinates, etc. Tangent, normal, asymptotes, etc. Mean value theorems, etc.	N/A	N/A	16/12/2019	
	SEM-III	BMG3CC1C	Introduction of sets, Suprema, infima and some examples, Bolzano Weierstrass theorem and some application Sequence, some theorem and some examples Series of numbers, properties, examples Sequences and series of functions	N/A	N/A	13/12/2019	
	SEM-V	BMG5DSE1A3	Vector space, subspaces, examples Linear transformations Dual space, dual basis Isomorphism theorems	N/A	N/A	03/12/2019	
		BMG5SEC33	Sample space, probability axioms, up to mathematical expectations and moment generating function of continuous and discrete distributions, etc. Joint cumulative distribution function and its properties, up to independent random variables, etc.	N/A	N/A	05/12/2019	

EVEN SEMESTER

Academic Quarter	Class	Paper	Topic covered	Topic not covered	Reason for not covered	Date of Internal Assessment	Remarks
Feb' 20 to June' 20	SEM-II	BMG2CC1B	1st order Differential equation,I.F., etc. Higher order differential equations etc. Linear homogeneous diff. eqn. etc. Non linear P.D.E., Lagrange's method etc	N/A	N/A	16/05/2020	
	SEM-IV	BMG4CC1D	Group, properties and examples, Subgroup, cyclic subgroup, normal subgroup etc. Rings, properties and examples etc. Fields, properties and examples etc.	N/A	N/A	12/05/2020	
	SEM-VI	BMG6DSE1B3	Linear programming problem, graphical method etc. Convex sets, properties etc. Simplex method etc. Duality theory etc.	N/A	N/A	02/05/2020	
		BMG6SEC42	Transportation and assignment problems Game theory	N/A	N/A	05/05/2020	

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