

Polba Mahavidyalaya
Departmental Lesson Plan 2022-2023

Name of the Department: Mathematics

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

Name of the Course: Mathematics

Period of the Lesson Plan: 2nd July 2022 – 30th June 2023

ODD SEMESTER

Academic Period	Class	Paper	Topic to be covered	No of lectures	Name of the teacher	Date of Internal Assessment
JULY' 2022 to JAN' 2023	SEM- I	BMG1CC1A	Limit and its examples, continuity, derivative, successive derivative, partial derivative etc.	20	Mr. Palash Sadhu	1 st week of December, 2022
			Curvature, polar coordinates, Tangent, normal, asymptotes, etc.	15	Dr. Amrita Das	
			Rolle's theorem, Mean value theorems, etc. up to Maxima and Minima, intermediate forms.	25	Dr. Amrita Das	
	SEM-III	BMG3CC1C	Introduction of sets, Suprema, infima and some examples, Bolzano Weierstrass theorem and some application	15	Dr. Amrita Das (10 L) Mr. Palash Sadhu (05 L)	3 rd week of Dec. 2022
			Sequence, some theorem and some examples	15	Dr. Amrita Das	
			Series of numbers, properties, examples	15	Dr. Amrita Das	
			Sequences and series of functions	15	Mr. Palash Sadhu	
	SEM-V	BMG5DSE1A3	Vector space, subspaces, examples, Basis, dimension etc.	20	Mr. Palash Sadhu	2 nd week of Dec. 2022
			Linear transformations, Algebra of Linear Transformation, etc.	15	Dr. Amrita Das	
			Dual space, dual basis, Eigenvalue, eigenvectors	15	Dr. Amrita Das	
			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	Dr. Amrita Das	2 nd week of Dec.2022
Joint cumulative distribution function and its properties, up to independent random variables, etc.	20		Dr. Amrita Das			

EVEN SEMESTER

Academic Period	Class	Paper	Topic to be covered	No of lectures	Name of the teacher	Date of Internal Assessment
FEB' 23 to JUNE' 23	SEM-II	BMG2CC1B	1 st order Differential equation, I.F., etc.	10	Dr. Amrita Das	1st week of May, 2023
			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, 2023
			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, 2023
			Convex sets, properties etc.	12	Dr. Amrita Das	
			Simplex method etc.	13	Dr. Amrita Das	
			Duality theory etc.	12	Mr. Palash Sadhu	
		BMG6SEC42	Transportation and assignment problems	25	Dr. Amrita Das	1st week of May, 2023
			Game theory	15	Dr. Amrita Das	

POLBA MAHAVIDYALAYA
Implementation of Departmental Lesson Plan 2022-2023

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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' 22 to Jan' 23	SEM-I	BMG1CC1A	Limit 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	17/12/2022	
	SEM-III	BMG3CC1C	N/A	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	No Student	N/A	
	SEM-V	BMG5DSE1A3	N/A	Vector space, subspaces, examples Linear transformations Dual space, dual basis Isomorphism theorems	No Student	N/A	
		BMG5SEC31	N/A	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.	No Student	N/A	

EVEN SEMESTER

Academic Quarter	Class	Paper	Topic covered	Topic not covered	Reason for not covered	Date of Internal Assessment	Remarks
Feb' 23 to June' 23	SEM-II	BMG2CC1B	1 st order Differential equation, I.F., etc.	N/A	N/A	31/05/2023	
			Higher order differential equations etc.				
			Linear homogeneous diff. eqn. etc.				
			Non linear P.D.E., Lagrange's method etc.				
	SEM-IV	BMG4CC1D	N/A	Group, properties and examples	No Student	N/A	
				Subgroup, cyclic subgroup, normal subgroup etc.			
				Rings, properties and examples etc.			
				Fields, properties and examples etc.			
	SEM-VI	BMG6DSE1B3	N/A	Linear programming problem, graphical method etc.	No Student	N/A	
				Convex sets, properties etc.			
Simplex method etc.							
Duality theory etc.							
BMG6SEC42		N/A	Transportation and assignment problems	N/A			
Game theory							

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