

**Polba Mahavidyalaya**  
**Departmental Lesson Plan 2020-2021**

Name of the Department: Mathematics

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

Name of the Course: Mathematics

Period of the Lesson Plan: 1<sup>st</sup> July 2020 – 30<sup>th</sup> June 2021

**ODD SEMESTER**

Academic Period	Class	Paper	Topic to be covered	No of lectures	Name of the teacher	Date of Internal Assessment
JULY' 2020 to JAN' 2021	SEM- I	BMG1CC1A	Limit and its examples, continuity, derivative, successive derivative, partial derivative etc.	20	Mr. Palash Sadhu	1 <sup>st</sup> week of December, 2020
			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 <sup>rd</sup> week of Dec. 2020
			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	BMG5DSE1A1	R1, R2, R3 as vector space over R, Standard basis, etc.	10	Mr. Palash Sadhu	2 <sup>nd</sup> week of Dec. 2020
			Interpretation of Eigenvalue and eigenvector, Eigenspace as invariant subspace, etc.	15	Mr. Palash Sadhu	
			Types and Rank of matrix, etc.	15	Dr. Amrita Das	
			Matrices in diagonal form, Sol. of system of linear eq. using matrices, 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' 21 to JUNE' 21	SEM-II	BMG2CC1B	1 <sup>st</sup> order Differential equation, I.F., etc.	10	Dr. Amrita Das	1st week of May, 2021
			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, 2021
			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	Dr. Amrita Das	1st week of May, 2021
			Convex sets, properties etc.	12	Dr. Amrita Das	
			Simplex method etc.	13	Mr. Palash Sadhu	
			Duality theory etc.	12	Dr. Amrita Das	

**POLBA MAHAVIDYALAYA**  
**Implementation of Departmental Lesson Plan 2020-2021**

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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' 20 to Jan' 21	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	04/12/2020	
	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	10/12/2020	
	SEM-V	BMG5DSE1A1	Types of matrices, Rank of matrix, Solution of Linear Homogeneous and non-homogeneous eq., Eigenvalues and Eigenvectors, etc.	N/A	N/A	4/12/2020	

**EVEN SEMESTER**

Academic Quarter	Class	Paper	Topic covered	Topic not covered	Reason for not covered	Date of Internal Assessment	Remarks
	SEM-II	BMG2CC1B	N/A	1 <sup>st</sup> order Differential equation, I.F., etc.	No Student	N/A	
				Higher order differential equations etc.			
				Linear homogeneous diff. eqn. etc.			
				Non linear P.D.E., Lagrange's method etc.			
Feb' 21 to June' 21	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	10/05/2021	
	SEM-VI	BMG6DSE1B3	Linear programming problem, graphical method etc. Convex sets, properties etc. Simplex method etc. Duality theory etc.	N/A	N/A	13/05/2021	

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