

**MAHARANA PRATAP MAHAVIDYALAY JUNGLE DHUSAN
GORAKHPUR**

Lesson Plan : 2025 - 2026					
Class : B.Sc V Sem			Subject : Mathematics		
Date	Lecture	Teacher Name	Sub Code	Unit	Title
16.07.25	1	PKG	MAT301	I	Introduction to rings
	1	AKM	MAT302,303	I	Tensor algebra
17.07.25	2	PKG	MAT301	I	Based Problems/Theorems
	2	AKM	MAT302,303	I	Symmetric tensor
18.07.25	3	PKG	MAT301	I	Based Problems/Theorems
	3	AKM	MAT302,303	I	Skew symmetric tensor
19.07.25	4	PKG	MAT301	I	Integral domain
	4	AKM	MAT302,303	I	Mixed tensor
21.07.25	5	PKG	MAT301	I	Fields
	5	AKM	MAT302,303	I	Contraction
22.07.25	6	PKG		Class Teaching	
	6	AKM			
23.07.25	7	PKG	MAT301	I	Based Problems/Theorems
	7	AKM	MAT302,303	I	Inner product
24.07.25	8	PKG	MAT301	I	Ideals
	8	AKM	MAT302,303	I	Quotient law
25.07.25	9	PKG	MAT301	I	Based Problems/Theorems
	9	AKM	MAT302,303	I	Based Problems/Theorems
26.07.25	10	PKG	MAT301	I	Based Problems/Theorems
	10	AKM	MAT302,303	I	Based Problems/Theorems
28.07.25	11	PKG	MAT301	I	Quotient ring
	11	AKM	MAT302,303	I	Reciprocal tensor
29.07.25	12	PKG		Class Teaching/Test	
	12	AKM			
30.07.25	13	PKG	MAT301	II	Euclidean domain
	13	AKM	MAT302,303	II	Associated tensor
31.07.25	14	PKG	MAT301	II	Prime ideals
	14	AKM	MAT302,303	II	Length of a vector
01.08.25	15	PKG	MAT301	II	Based Problems/Theorems
	15	AKM	MAT302,303	II	Based Problems/Theorems
02.08.25	16	PKG	MAT301	II	Based Problems/Theorems
	16	AKM	MAT302,303	II	Based Problems/Theorems
04.08.25	17	PKG	MAT301	II	Maximal ideals
	17	AKM	MAT302,303	II	Null vector
05.08.25	18	PKG		Class Teaching	
	18	AKM			

06.08.25	19 19	PKG AKM	MAT301 MAT302,303	II	Principal ideal rings
07.08.25	20	PKG	MAT301	II	Based Problems/Theorems
	20	AKM	MAT302,303	II	
08.08.25	21	PKG	MAT301	II	Based Problems/Theorems
	21	AKM	MAT302,303	II	Christoffel Symbol
11.08.25	22	PKG	MAT301	II	Polynomial ring
	22	AKM	MAT302,303	II	Based Problems/Theorems
12.08.25	23	PKG	MAT301	III	Division algorithm
	23	AKM	MAT302,303	III	Ricci Theorem
13.08.25	24	PKG		Class Teaching	
	24	AKM			
14.08.25	25	PKG	MAT301	III	PID
	25	AKM	MAT302,303	III	Based Problems/Theorems
18.08.25	26	PKG	MAT301	III	Based Problems/Theorems
	26	AKM	MAT302,303	III	Based Problems/Theorems
19.08.25	27	PKG	MAT301	III	Irreducibility tests
	27	AKM	MAT302,303	III	Based Problems/Theorems
20.08.25	28	PKG	MAT301	III	Based Problems/Theorems
	28	AKM	MAT302,303	III	Mixed tensor

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21.08.25	29	PKG	MAT301	III	Eisenstein criterion
	29	AKM	MAT302,303	III	Based Problems/Theorems
22.08.25	30	PKG		Class Teaching	
	30	AKM			
23.08.25	31	PKG	MAT301	III	Based Problems/Theorems
	31	AKM	MAT302,303	III	Based Problems/Theorems
25.08.25	32	PKG	MAT301	III	UF in $\mathbb{Z}[x]$
	32	AKM	MAT302,303	III	Based Problems/Theorems
26.08.25	33	PKG	MAT301	III	Based Problems/Theorems
	33	AKM	MAT302,303	III	Curl of a covariant vector
27.08.25	34	PKG	MAT301	IV	D In Integral domain
	34	AKM	MAT302,303	IV	Riemannian curvature tensor
28.08.25	35	PKG	MAT301	IV	Based Problems/Theorems
	35	AKM	MAT302,303	IV	Based Problems/Theorems
29.08.25	36	PKG		Class Teaching/Test	
	36	AKM			
30.08.25	37	PKG	MAT301	IV	Irreducible
	37	AKM	MAT302,303	IV	Based Problems/Theorems
01.09.25	38	PKG	MAT301	IV	Based Problems/Theorems
	38	AKM	MAT302,303	IV	Flat space
02.09.25	39	PKG	MAT301	IV	Primes

	39	AKM	MAT302,303	IV	Ricci tensor
03.09.25	40	PKG	MAT301	IV	Based Problems/Theorems
	40	AKM	MAT302,303	IV	Based Problems/Theorems
04.09.25	41	PKG	MAT301	IV	UFD
	41	AKM	MAT302,303	IV	Based Problems/Theorems
06.09.25	42	PKG		Class Teaching	
	42	AKM			
08.09.25	43	PKG	MAT301	IV	Based Problems/Theorems
	43	AKM	MAT302,303	IV	Based Problems/Theorems
09.09.25	44	PKG	MAT301	IV	Euclidean domains
	44	AKM	MAT302,303	IV	Based Problems/Theorems
10.09.25	45	PKG	MAT301	V	Vector space
	45	AKM	MAT302,303	V	Local theory of curves
11.09.25	46	PKG	MAT301	V	Based Problems/Theorems
	46	AKM	MAT302,303	V	Based Problems/Theorems
12.09.25	47	PKG	MAT301	V	Vector subspace
	47	AKM	MAT302,303	V	Length of a curve
13.09.25	48	PKG		Class Teaching	
	48	AKM			
15.09.25	49	PKG	MAT301	V	Linear combination
	49	AKM	MAT302,303	V	Based Problems/Theorems
16.09.25	50	PKG	MAT301	V	Based Problems/Theorems
	50	AKM	MAT302,303	V	Based Problems/Theorems
17.09.25	51	PKG	MAT301	V	Based Problems/Theorems
	51	AKM	MAT302,303	V	Osculating plane
18.09.25	52	PKG	MAT301	V	Basis and dimension
	52	AKM	MAT302,303	V	Based Problems/Theorems
19.09.25	53	PKG	MAT301	V	Based Problems/Theorems
	53	AKM	MAT302,303	V	Tangent
20.09.25	54	PKG		Class Teaching	
	54	AKM			
22.09.25	55	PKG	MAT301	V	Quotient space
	55	AKM	MAT302,303	V	Normal plane
23.09.25	56	PKG	MAT301	VI	Linear transformation
	56	AKM	MAT302,303		Curvature

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24.09.25	57	PKG	MAT301	VI	Based Problems/Theorems
	57	AKM	MAT302,303	VI	Torsion
25.09.25	58	PKG	MAT301	VI	Based Problems/Theorems
	58	AKM	MAT302,303	VI	Based Problems/Theorems
26.09.25	59	PKG	MAT301	VI	Based Problems/Theorems
	59	AKM	MAT302,303	VI	Based Problems/Theorems
27.09.25	60	PKG		Class Teaching/Test	

	60	AKM			
29.09.25	61	PKG	MAT301	VI	Based Problems/Theorems
	61	AKM	MAT302,303	VI	Tangent plane
30.09.25	62	PKG	MAT301	VI	Based Problems/Theorems
	62	AKM	MAT302,303	VI	Based Problems/Theorems
03.10.25	63	PKG	MAT301	VI	Based Problems/Theorems
	63	AKM	MAT302,303	VI	Based Problems/Theorems
04.10.25	64	PKG	MAT301	VI	Rank Nullity Theorem
	64	AKM	MAT302,303	VI	Angle between Two curves
06.10.25	65	PKG	MAT301	VI	Based Problems/Theorems
	65	AKM	MAT302,303	VI	Based Problems/Theorems
07.10.25	66	PKG		Class Teaching	
	66	AKM			
08.10.25	67	PKG	MAT301	VII	Linear functionals
	67	AKM	MAT302,303	VII	Based Problems/Theorems
09.10.25	68	PKG	MAT301	VII	Based Problems/Theorems
	68	AKM	MAT302,303	VII	Special tensor
10.10.25	69	PKG	MAT301	VII	Based Problems/Theorems
	69	AKM	MAT302,303	VII	Based Problems/Theorems
11.10.25	70	PKG	MAT301	VII	Based Problems/Theorems
	70	AKM	MAT302,303	VII	And its properties
24.10.25	71	PKG	MAT301	VII	Dual space
	71	AKM	MAT302,303	VII	Based Problems/Theorems
25.10.25	72	PKG		Class Teaching/Test	
	72	AKM			
27.10.25	73	PKG	MAT301	VII	Based Problems/Theorems
	73	AKM	MAT302,303	VII	Orthogonal trajectories
29.10.25	74	PKG	MAT301	VII	Based Problems/Theorems
	74	AKM	MAT302,303	VII	Gauss equation
30.10.25	75	PKG	MAT301	VII	Dual basis
	75	AKM	MAT302,303	VII	Based Problems/Theorems
31.10.25	76	PKG	MAT301	VII	Based Problems/Theorems
	76	AKM	MAT302,303	VII	Weingarten equation
01.11.25	77	PKG	MAT301	VII	Bilinear and quadratic forms
	77	AKM	MAT302,303	VII	Based Problems/Theorems
03.11.25	78	PKG		Class Teaching	
	78	AKM			
04.11.25	79	PKG	MAT301	VIII	Change of basis
	79	AKM	MAT302,303	VIII	Identities based on W. equation
06.11.25	80	PKG	MAT301	VIII	Diagonal forms
	80	AKM	MAT302,303	VIII	Based Problems/Theorems
07.11.25	81	PKG	MAT301	VIII	Based Problems/Theorems
	81	AKM	MAT302,303	VIII	Based Problems/Theorems
08.11.25	82	PKG	MAT301	VIII	Triangular forms
	82	AKM	MAT302,303	VIII	Normal curvature

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