<u>Lesson Plan</u> Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans-Odd Semester (Semester-V) <u>Session – 2023-24</u>

Department: Mathematics

Class: BA/BSc-III Subject: Mathematics Paper-II: Modern Algebra

Name of the Teacher: Dr Sonica

Month	Date		Topics to be covered	Academic Activity to be Undertaken		
	From	То				
July	24.07.2023	31.07.2023	Groups, Subgroups, Lagrange's	Syllabus, Examination		
			Theorem.	pattern discussed,		
				Doubt Session.		
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans						
on 01.08.2023	01.00.0000	21.00.2022				
August	01.08.2023	31.08.2023	Normal subgroups and Quotient	Doubt session,		
			Groups, Homomorphisms,	Assignments, revision		
			Isomorphism Theorems.	of a few topics.		
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.09.2023						
September	01.09.2023	30.09.2023	Conjugate elements, Class equation,	Doubt session,		
			Permutation Groups, Alternating	Assignments, revision		
			groups, Simplicity of n A , n \ge 5	of a few topics.		
			(without proof).			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans						
October	03.10.2023	31.10.2023	Rings, Integral domains, Subrings and	Doubt session.		
			Ideals. Characteristic of a ring.	Assignments, Power		
			Quotient Rings	Point Presentations		
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans						
on 01.11.2023						
November	01.11.2023	18.11.2023	Prime and Maximal Ideals,	Question papers		
			Homomorphisms, Isomorphism	discussed, Revision of a		
			Theorems, Polynomial rings.	few topics.		
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans						
on 19.11.2023						
End semester Examination 27.11.2023 to 30.12.2023						

<u>Lesson Plan</u> Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans-Odd Semester (Semester-VI) <u>Session – 2023-24</u>

Department: Mathematics

Class: BA/BSc-III Subject: Mathematics Paper-II: Linear Algebra

Name of the Teachers: Dr Sonica

Month	Date		Topics to be covered	Academic Activity to be			
				Undertaken			
	From	То					
January	09.01.2024	31.01.2024	Vector Space : Definition and Examples of Vector Spaces, Subspaces, Algebra of subspaces, Linear span, Linear dependence and independence of vectors	Syllabus, Examination pattern discussed, Doubt Session.			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans							
on 01.02.2024 February	01.02.2024	29.02.2024	Basis and dimension of a vector space, Basis and dimension of subspace, Direct sums and complements Linear transformations, Rank and Nullity of a linear transformation, Vector space of linear transformations	Doubt session, Assignments, revision of a few topics.			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.03.2024							
March	01.03.2024	30.03.2024	Linear transformations and matrices, Change of basis. Characteristic roots and characteristic vectors, Algebraic and Geometric multiplicity of a characteristic value.	Doubt session, Assignments			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.04.2024							
April	01.04.2024	22.04.2024	Cayley-Hamilton theorem, Diagonalizable operators and matrices. Minimal polynomial of a linear operator (matrix).	Doubt session, Assignments, Power Point Presentations, Question papers discussed. Revision of a few topics.			
Departmental	ivieeting to Co	ordinate and	Review the Monthly completion o	t Syllabus as per lesson plans			
End semester Examination 02.05.2024 to 05.06.2024							
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