

Government Polytechnic Vaishali

Lecture Plan

Name of the Faculty	Dr. Rajesh Kumar
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Semester/Branch	3 rd Electrical/Electronics
Subject Name/Subject (Code)	Applied Mathematics-I
Lecture/Week	2 Periods/Week = 5 hrs per week

Theory

Units	Week	Lecture Day	Topics	Methods of Teaching	Remarks
Unit 1 : INTEGRATION	1	1	Definition of integration as anti-derivative. Integration of standard function.	PDF/PPT/Video	
		2	Rules of integration (Integrals of sum, difference, scalar multiplication).	PDF/PPT/Video	
Unit 1 : INTEGRATION	2	1	Methods of Integration. 1. Integration by substitution	PDF/PPT/Video	
		2	MCQ Test Unit 1	Google form	
	3	1	Integration of rational functions.	PDF/PPT/Video	
		2	MCQ Test Unit 1	Google form	
	4	1	Integration by partial fractions.	PDF/PPT/Video	
		2	MCQ Test Unit 1	Google form	
Unit 1 : INTEGRATION	5	1	Integration by trigonometric transformation.	PDF/PPT/Video	
		2	MCQ Test Unit 1	Google form	

Unit 1 : INTEGRATION	6	1	Integration by parts.	PDF/PPT/Video	
		2	MCQ Test Unit 1	Google form	
Unit 5 : NUMERICAL METHODS	7	1	Solution of algebraic equations: Bisection method.	PDF/PPT/Video	
		2	MCQ Test Unit 05	PDF/PPT/Video	
Unit 5 : NUMERICAL METHODS	8	1	Solution of algebraic equations: Regulafalsi method	PDF/PPT/Video	
		2	MCQ Test Unit 05	Google form	
Unit 5 : NUMERICAL METHODS	9	1	Solution of algebraic equations: Newton – Raphson method.	PDF/PPT/Video	
		2	MCQ Test Unit 05	Google form	
Unit 5 : NUMERICAL METHODS	10	1	Solution of simultaneous equations containing 2 and 3 unknowns Gauss elimination method.	PDF/PPT/Video	
		2	MCQ Test Unit 05	Google form	
Unit 5 : NUMERICAL METHODS	11	1	Iterative methods- Gauss seidal and	PDF/PPT/Video	
		2	MCQ Test Unit 05	Google form	
Unit 5 : NUMERICAL METHODS	12	1	Iterative methods- Jacobi's methods.	PDF/PPT/Video	
		2	MCQ Test Unit 05	Google form	
TOTAL		24			

