Government Polytechnic Vaishali

Lecture Plan

Name of the Faculty			Dr. Rajesh Kumar				
Email id and Mobile number			drrajeshpatna7@gmail.com 9431645350				
Semester/Branch			3 rd Mechanical/Civil				
Subject Name/Subject (Code)			Applied Mathematics-II				
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			
Unit 1 : INTEGRATION	4	2	MCQ Test Unit 1	Google form			
	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 4 : NUMERICAL METHODS	7	1	Solution of algebraic equations: Bisection method.	PDF/PPT/Video
		2	MCQ Test Unit 04	PDF/PPT/Video
Unit 4 : NUMERICAL METHODS	8	1	Solution of algebraic equations: Regulafalsi method	PDF/PPT/Video
		2	MCQ Test Unit 04	Google form
Unit 4 : NUMERICAL METHODS	9	1	Solution of algebraic equations: Newton – Raphson method.	PDF/PPT/Video
		2	MCQ Test Unit 04	Google form
Unit 4 : NUMERICAL METHODS	10	1	Solution of simultaneous equations containing 2 and 3 unknowns Gauss elimination method.	PDF/PPT/Video
		2	MCQ Test Unit 04	Google form
Unit 4 : NUMERICAL METHODS	11	1	Iterative methods- Gauss seidal and	PDF/PPT/Video
		2	MCQ Test Unit 04	Google form
Unit 4 : NUMERICAL METHODS	12	1	Iterative methods- Jacobi's methods.	PDF/PPT/Video
		2	MCQ Test Unit 04	Google form
	TOTAL	24		