

Name of Faculty: Sh. Par

Discipline: All Branches

Semester: 2

Subject: Maths

Lesson Plan Duration: 80

Week	Lecture Day
Week 1	Day 1
	Day 2
	Day 3
	Day 4
	Day 5
Week 2	Day 6
	Day 7
	Day 8
	Day 9
	Day10
Week 3	Day 11
	day 12
	day 13
	day 14
	day15
Week 4	day 16
	day17
	day 18
	day 19
	day 20
Week 5	days 21
	days 22
	days 23
	day 24
	day25
Week 6	days 26
	day27
	day28
	day29
	day30
Week 7	day 31
	day32
	day33
	day 34
	day 35
Week 8	day36
	day 37
	day38
	day39

	day 40
Week 9	day 41
	day 42
	day 43
	day 44
	day 45
Week 10	Day 46
	Day 47
	day 48
	Day 49
	Day 50
Week 11	Day 51
	Day 52
	Day 53
	Day 54
	Day 55
Week 12	Day 56
	Day 57
	Day 58
	Day 59
	Day 60
Week 13	Day 61
	Day 62
	Day 63
	Day 64
	Day 65
Week 14	Day 66
	Day 67
	Day 68
	Day 69
	Day 70
Week 15	Day 71
	Day 72
	Day 73
	Day 74

	Day 75
Week 16	Day 76
	Day 77
	Day 78
	Day 79
	Day 80

Government Polytechnic Meham(Rohtak)
deep Kumar
DAYS
Theory
Topic
Unit 1: Check previous knowledge
Basic Concepts of Differential Calculas
Definations of functions
Concepts of limits(Introductions)
Concepts of limits(Introductions)
Check previous knowledge
Problems related to four standard limits only
Problems related to four standard limits only
Differential of of X^n by first principal
Differential of of $\sin x$ by first principal
Differential of of $\cos x$ by first principal
Differential of of $\tan x$ by first principal
Check previous knowledge
Test
Doubts
Differential of of e^x by first principal
Differential of sum
Differential of sum
Differential of product
Differential of product
Check previous knowledge
Differential of quotient of functions
Differential of quotient of functions
Differential of trigonometric function
Differential of trigonometric function
Differential of inverse trigonometric functions
Differential of inverse trigonometric functions
Check previous knowledge
Test
Doubts
Logarithmic differentiation
Logarithmic differentiation
successive differentiation (up to 2nd order)
successive differentiation (up to 2nd order)
Check previous knowledge
Basic of application of differential calculus
Rate measures
Maxima and minima
Test of Unit 1

Doubts of Unit 1
Unit 2: Basic concepts of Integral calculus
Basic concepts of Integral calculus
Integration as inverse operation of differential with simple example
Integration as inverse operation of differential with simple example
Check previous knowledge
Simple standard integrals and related problems
Simple standard integrals and related problems
Evaluation of definite integrals with given limits .Evaluation of below given equation using formulae without proof (m and n being positive integers only) using pre-existing mathematics models
$\int_0^{\pi/2} \sin^n x . dx \int_0^{\pi/2} \cos^n x dx \int_0^{\pi/2} \sin^m x \cos^n x dx$
Evaluation of definite integrals with given limits .Evaluation of below given equation using formulae without proof (m and n being positive integers only) using pre-existing mathematics models
$\int_0^{\pi/2} \sin^n x . dx \int_0^{\pi/2} \cos^n x dx \int_0^{\pi/2} \sin^m x \cos^n x dx$
Check previous knowledge
Test
Doubts
Integration application introduction
Application of integration: for evaluation of area under a curve and axes (Simple Problems)
Application of integration: for evaluation of area under a curve and axes (Simple
Check previous knowledge
Test
Doubts
Trapezoidal rule
Numerical integration by Trapezoidal rule
Numerical integration by Trapezoidal rule
Simpson's 1/3rd rule
Numerical integration by Simpson's 1/3rd rule using pre-existing mathematical
Numerical integration by Simpson's 1/3rd rule using pre-existing mathematical
Doubts
Test Unit 2
Unit 3: Basics of Differential equations, defination, order
Degree and LinearityOf an ordinary differential equation
Doubts
Test Unit 3
Unit 4: Basics of statistics
Measures of central tendency: Mean, Median, Mode
Measures of central tendency: Mean, Median, Mode
Check previous knowledge

Measures of dispersion: Mean Deviation, Standard deviation
Measures of dispersion: Mean Deviation, Standard deviation
sci lab definition and concept
program on sci lab
doubts
Test Unit 4