

Lesson Plan of Darsh Model Degree College (Gohana)
Name of the Assistant / Associate Professor: Ms. Kavina Bhardwaj
Class and Semester: B.Sc. B.A. Second
Subject Name: Mathematics

Week 1, Day 1, Date: <u>01-01-2018</u> <u>University Holiday</u>
Week 1, Day 2, Date: <u>02-01-2018</u> <u>University Holiday</u>
Week 1, Day 3, Date: <u>03-01-2018</u> <u>University Holiday</u>
Week 1, Day 4, Date: <u>04-01-2018</u> <u>University Holiday</u>
Week 1, Day 5, Date: <u>05-01-2018</u> <u>University Holiday</u>
Week 1, Day 6, Date: <u>06-01-2018</u> <u>Divisibility</u>
Week 2, Day 1, Date: <u>08-01-2018</u> <u>GCD and LCM</u>
Week 2, Day 2, Date: <u>09-01-2018</u> <u>Primes</u>
Week 2, Day 3, Date: <u>10-01-2018</u> <u>Fundamental Theorem of Arithmetic</u>
Week 2, Day 4, Date: <u>11-01-2018</u> <u>Linear Congruences</u>
Week 2, Day 5, Date: <u>12-01-2018</u> <u>Fermat's Theorem</u>
Week 2, Day 6, Date: <u>13-01-2018</u> <u>Wilson's theorem and its converse</u>

Lesson Plan of Daxsh Model Degree College, Gohans
 Name of the Assistant / Associate Professor:- Ms. Ravina Rhanduzy
 Class and Semester B.Sc / B.A / Second
 Subject Name :- Mathematics

Week 3, Day 1, Date:	15-01-2018 Linear Diophantine equations in two variables
Week 3, Day 2, Date:	16-01-2018 Complete residue system
Week 3, Day 3, Date:	17-01-2018 Reduced residue system modulo m .
Week 3, Day 4, Date:	18-01-2018 Euler's ϕ function Euler's generalization of Fermat's Theorem, Chinese Remainder Th.
Week 3, Day 5, Date:	19-01-2018 Quadratic residues, Legendre Symbols.
Week 3, Day 6, Date:	20-01-2018 Lemma of Gauss, Gauss reciprocity law.
Week 4, Day 1, Date:	23-01-2018 Greatest integer function $[x]$ Sum of divisors of a natural number n
Week 4, Day 2, Date:	24-01-2018 Moebius function and its inversion formula
Week 4, Day 3, Date:	25-01-2018 Unit Test
Week 4, Day 4, Date:	26-01-2018 _____
Week 4, Day 5, Date:	27-01-2018 De Moivre's Theorem and its Applications
Week 4, Day 6, Date:	28-01-2018 _____

Lesson Plan of Darsh Model Degree College, Gohana
Name of the Assistant / Associate Professor: Ms. Ravina Bhardwaj
Class and Semester: B.S./B.A. / Second
Subject Name: Mathematics

Week 5, Day 1, Date: 29-01-2018

Continue this chapter

Week 5, Day 2, Date: 30-01-2018

Expansion of trigonometrical functions.

Week 5, Day 3, Date: 01-02-2018

Direct circular and hyperbolic functions and their properties.

Week 5, Day 4, Date: 02-02-2018

Continue this chapter.

Week 5, Day 5, Date: 03-02-2018

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Week 5, Day 6, Date: 04-02-2018

—

Week 6, Day 1, Date: 05-02-2018

Inverse circular and hyperbolic functions and their properties.

Week 6, Day 2, Date: 06-02-2018

Logarithm of a complex quantity

Week 6, Day 3, Date: 07-02-2018

Gregory's Series.

Week 6, Day 4, Date: 08-02-2018

Summation of Trigonometry series

Week 6, Day 5, Date: 09-02-2018

Continue this chapter

Week 6, Day 6, Date: 10-02-2018

Continue.

Lesson Plan of Darsh Model Degree College, Gohana,

Name of the Assistant / Associate Professor: Ms. Ravina Bhandari

Class and Semester: B.A. Second

Subject Name :- Mathematics

Week 7, Day 1, Date: 12-02-2018

Test

Week 7, Day 2, Date: 13-02-2018

Geometrical meaning of a differential equation.

Week 7, Day 3, Date: 14-02-2018

Exact Differential equations.

Week 7, Day 4, Date: 15-02-2018

Continue

Week 7, Day 5, Date: 16-02-2018

integrating factor.

Week 7, Day 6, Date: 17-02-2018

First order higher degree equations solvable for n, y, p Lagrange's equations.

Week 8, Day 1, Date: 19-02-2018

Continue

Week 8, Day 2, Date: 20-02-2018

Clairaut's equations, Singular Solutions

Week 8, Day 3, Date: 21-02-2018

Orthogonal trajectories in Cartesian and Polar coordinates.

Week 8, Day 4, Date: 22-02-2018

Linear Differential equations with constant coefficients.

Week 8, Day 5, Date: 23-02-2018

Continue

Week 8, Day 6, Date: 24-02-2018

Continue

Lesson Plan of Darsh Model Degree College, Gohana,

Name of the Assistant / Associate Professor: Ms. Ravina Bhardwaj

Class and Semester BSc (BA) Second

Subject Name: Mathematics

Week 9, Day 1, Date: 26-02-2018

Homogeneous linear ordinary differential equations.

Week 9, Day 2, Date: 27-02-2018

Equations reducible to Homogeneous linear ordinary differential equations.

Week 9, Day 3, Date: —

Week 9, Day 4, Date: —

Week 9, Day 5, Date: —

Week 9, Day 6, Date: —

Week 10, Day 1, Date: 05-03-2018

Linear differential equations of 2nd order:
Reduction to normal form.

Week 10, Day 2, Date: 06-03-2018

Transformation of the equation by changing the dependent variable / independent variable.

Week 10, Day 3, Date: 07-03-2018

Solution by operators of non-homogeneous linear differential equations.

Week 10, Day 4, Date: 08-03-2018

Reduction of order of a differential equation

Week 10, Day 5, Date: 09-03-2018

Method of variations of parameters.

Week 10, Day 6, Date: 10-03-2018

Method of undetermined coefficients

Lesson Plan of Darsh Model Degree College, Gohana,
Name of the Assistant / Associate Professor: Ms. Kavina Bhardwaj
Class and Semester: B.Sc. A1, Second
Subject Name: Mathematics

Week 11, Day 1, Date: 12-03-2018

Test

Week 11, Day 2, Date: 13-03-2018

ordinary simultaneous differential equations

Week 11, Day 3, Date: 14-03-2018

Solution of simultaneous differential equations involving operators X on t etc.

Week 11, Day 4, Date: 15-03-2018

Simultaneous equation of the form $\frac{dx}{P} = \frac{dy}{Q} = \frac{dz}{R}$

Week 11, Day 5, Date: 16-03-2018

Total differential equations.

Week 11, Day 6, Date: 17-03-2018

Condition for $Pdx + Qdy + Rdz = 0$ to be exact.

Week 12, Day 1, Date: 19-03-2018

General method of solving $Pdx + Qdy + Rdz = 0$ by taking one variable constant.

Week 12, Day 2, Date: 20-03-2018

Method of auxiliary equations.

Week 12, Day 3, Date: 21-03-2018

Test

Week 12, Day 4, Date: 22-03-2018

Scalar and vector Product of three vectors

Week 12, Day 5, Date: 23-03-2018

Product of four vectors, Reciprocal vectors

Week 12, Day 6, Date: 24-03-2018

vector differentiation.

Lesson Plan of Darsh Model Degree College, Gohana
Name of the Assistant / Associate Professor: M. Parvina Bhardwaj
Class and Semester: B.Sc. A.I. Second
Subject Name :- Mathematics

Week 13, Day 1, Date: <u>26-03-2018</u> Scalar valued point function, vector valued point functions.
Week 13, Day 2, Date: <u>27-03-2018</u> derivative along a curve, directional derivatives
Week 13, Day 3, Date: <u>28-03-2018</u> Gradient of scalar point function.
Week 13, Day 4, Date: <u>29-03-2018</u> character of gradient as a point function.
Week 13, Day 5, Date: <u>30-03-2018</u> Divergence of vector point function
Week 13, Day 6, Date: <u>31-03-2018</u> curl of vector point function
Week 14, Day 1, Date: <u>02-04-2018</u> Gradient divergence and curl of sums and product
Week 14, Day 2, Date: <u>03-04-2018</u> Laplacian operator.
Week 14, Day 3, Date: <u>04-04-2018</u> orthogonal curvilinear co-ordinates
Week 14, Day 4, Date: <u>05-04-2018</u> Gradient, Divergence, curl and Laplacian operator in terms of orthogonal C.C.
Week 14, Day 5, Date: <u>06-04-2018</u> Cylindrical co-ordinates
Week 14, Day 6, Date: <u>07-04-2018</u> Spherical co-ordinates.

Lesson Plan of Daxsh Model Degree College, Gohans

Name of the Assistant / Associate Professor: Mr. Ravindra Bhandari

Class and Semester: B.Sc. B.A. Second

Subject Name: Mathematics

Week 15, Day 1, Date: 09-04-2018

Test

Week 15, Day 2, Date: 10-04-2018

Line integral

Week 15, Day 3, Date: 11-04-2018

Surface integral

Week 15, Day 4, Date: 12-04-2018

Volume integral

Week 15, Day 5, Date: 13-04-2018

Theorem of Gauss

Week 15, Day 6, Date:

Week 16, Day 1, Date: 16-04-2018

Theorem of Green

Week 16, Day 2, Date: 17-04-2018

Theorem of Stokes

Week 16, Day 3, Date:

Week 16, Day 4, Date: 19-04-2018

Revision

Week 16, Day 5, Date: 20-04-2018

Revision

Week 16, Day 6, Date: 21-04-2018

Test

Lesson Plan of Dash Model Degree College, Gokarna

Name of the Assistant / Associate Professor: Ms. Ravina Bhardwaj

Class and Semester: B.A. I Second

Subject Name: Mathematics

Week 17, Day 1, Date: 23-04-2018

Revision

Week 17, Day 2, Date: 24-04-2018

Revision

Week 17, Day 3, Date: 25-04-2018

Revision

Week 17, Day 4, Date: 26-04-2018

Revision

Week 17, Day 5, Date: 27-04-2018

Revision

Week 17, Day 6, Date: 28-04-2018

Revision

Week 18, Day 1, Date:

Week 18, Day 2, Date:

Week 18, Day 3, Date:

Week 18, Day 4, Date:

Week 18, Day 5, Date:

Week 18, Day 6, Date:

Lesson Plan of Darsh Madel Degree College, Gahana
Name of the Assistant / Associate Professor: Ms. Ravina Bhardwaj
Class and Semester B.Com / Second
Subject Name :- Business Mathematics

Week 1, Day 1, Date: <u>01-01-2018</u> <u>University Holiday</u>
Week 1, Day 2, Date: <u>02-01-2018</u> <u>University Holiday</u>
Week 1, Day 3, Date: <u>03-01-2018</u> <u>University Holiday</u>
Week 1, Day 4, Date: <u>04-01-2018</u> <u>University Holiday</u>
Week 1, Day 5, Date: <u>05-01-2018</u> <u>University Holiday.</u>
Week 1, Day 6, Date: <u>06-01-2018</u> <u>Matrices and Determinants - Defⁿ, Types, Algebra.</u>
Week 2, Day 1, Date: <u>08-01-2018</u> <u>Calculation of value of Determinants upto 3rd order</u>
Week 2, Day 2, Date: <u>09-01-2018</u> <u>adjoint of a Matrix</u>
Week 2, Day 3, Date: <u>10-01-2018</u> <u>Illustration and Practical Problems.</u>
Week 2, Day 4, Date: <u>11-01-2018</u> <u>Illustration and Practical Problems.</u>
Week 2, Day 5, Date: <u>12-01-2018</u> <u>Students queries.</u>
Week 2, Day 6, Date: <u>13-01-2018</u> <u>Elementary row and column operations.</u>

Lesson Plan of Darsh Model Degree College, Gohana
Name of the Assistant / Associate Professor: Ms. Ravina Bhardwaj
Class and Semester: B.Com / Second
Subject Name :- Business Mathematics

Week 3, Day 1, Date: <u>15-01-2018</u> <u>Illustration and Practical Problems</u>
Week 3, Day 2, Date: <u>16-01-2018</u> <u>Class-test.</u>
Week 3, Day 3, Date: <u>17-01-2018</u> <u>Finding inverse matrix through adjoint</u>
Week 3, Day 4, Date: <u>18-01-2018</u> <u>Finding inverse matrix through elementary row or column operations</u>
Week 3, Day 5, Date: <u>19-01-2018</u> <u>Illustration and Practical Problems</u>
Week 3, Day 6, Date: <u>20-01-2018</u> <u>Illustration and Practical Problems.</u>
Week 4, Day 1, Date: <u>22-01-2018</u> <u>—</u>
Week 4, Day 2, Date: <u>23-01-2018</u> <u>Illustration and Practical Problems.</u>
Week 4, Day 3, Date: <u>24-01-2018</u> → <u>Solution of a system of Linear equations having unique solution and involving not more than 3 variables</u>
Week 4, Day 4, Date: <u>25-01-2018</u> <u>Topic Continue.</u>
Week 4, Day 5, Date: <u>26-01-2018</u> <u>—</u>
Week 4, Day 6, Date: <u>27-01-2018</u> <u>Illustration and Practical Problems.</u>

Lesson Plan of Darsh Model Degree College, Gubbi
Name of the Assistant / Associate Professor: Ms. Ravina Bhandari
Class and Semester: B. Com. Second
Subject Name: Mathematics

Week 5, Day 1, Date: 29-01-2018

Illustration and Practical Problems.

Week 5, Day 2, Date: 30-01-2018

Assignment

Week 5, Day 3, Date: 01-02-2018

Students queries

Week 5, Day 4, Date: 02-02-2018

Class-test

Week 5, Day 5, Date: 03-02-2018

Week 5, Day 6, Date: 04-02-2018

Week 6, Day 1, Date: 05-02-2018

Differentiation :- Definition

Week 6, Day 2, Date: 06-02-2018

First Principle

Week 6, Day 3, Date: 07-02-2018

Continue

Week 6, Day 4, Date: 08-02-2018

Continue.

Week 6, Day 5, Date: 09-02-2018

Product of Differentiation

Week 6, Day 6, Date: 10-02-2018

Continue.

Lesson Plan of Darsh Model Degree College, Gahana,
Name of the Assistant / Associate Professor: Ms. Kavita Bhandari,
Class and Semester: B.Com., Second
Subject Name :- Mathematics

Week 7, Day 1, Date: 12-02-2018

Continue

Week 7, Day 2, Date: 13-02-2018

Divisibility of Differentiation

Week 7, Day 3, Date: 14-02-2018

Continue

Week 7, Day 4, Date: 15-02-2018

Continue.

Week 7, Day 5, Date: 16-02-2018

Continue

Week 7, Day 6, Date: 17-02-2018

Parametric form

Week 8, Day 1, Date: 19-02-2018

Application of Differentiation

Week 8, Day 2, Date: 20-02-2018

Continue

Week 8, Day 3, Date: 21-02-2018

Continue

Week 8, Day 4, Date: 22-02-2018

Continue

Week 8, Day 5, Date: 23-02-2018

Continue

Week 8, Day 6, Date: 24-02-2018

Continue.

Lesson Plan of Darsh Model Degree College, Calicut
Name of the Assistant / Associate Professor: Ms. Laxmi Bhardwaj
Class and Semester: B.Com / Second
Subject Name: Mathematics

Week 9, Day 1, Date: 26-02-2018
Test

Week 9, Day 2, Date: 27-02-2018
Compound Interest : Introduction.

Week 9, Day 3, Date: 28-02-2018
—

Week 9, Day 4, Date: 01-03-2018
—

Week 9, Day 5, Date: 02-03-2018
—

Week 9, Day 6, Date: 03-03-2018
—

Week 10, Day 1, Date: 05-03-2018
Compound Interest : Examples

Week 10, Day 2, Date: 06-03-2018
Continue

Week 10, Day 3, Date: 07-03-2018
Continue

Week 10, Day 4, Date: 08-03-2018
Certain Different types of interest rate;

Week 10, Day 5, Date: 09-03-2018
Continue

Week 10, Day 6, Date: 10-03-2018
Continue

Lesson Plan of Dash Model Degree College, Gohans
Name of the Assistant / Associate Professor: Ms. Ravina Bhandari
Class and Semester: B.Com / Second
Subject Name: Mathematics

Week 11, Day 1, Date: 12-03-2018
Concept of present value and amount
of a sum.

Week 11, Day 2, Date: 13-03-2018
Continue

Week 11, Day 3, Date: 14-03-2018
Continue

Week 11, Day 4, Date: 15-03-2018
Continue

Week 11, Day 5, Date: 16-03-2018
Annuities

Week 11, Day 6, Date: 17-03-2018
Types of annuities:

Week 12, Day 1, Date: 19-03-2018
Present value

Week 12, Day 2, Date: 20-03-2018
Continue

Week 12, Day 3, Date: 21-03-2018
Amount of an annuity

Week 12, Day 4, Date: 22-03-2018
Continue

Week 12, Day 5, Date: 23-03-2018
Continue

Week 12, Day 6, Date: 24-03-2018
Including the case of Continuous Compounding

Lesson Plan of Daksh Model Degree College, Gokhna
Name of the Assistant /Associate Professor: Ms. Kavina Bhandari
Class and Semester: B. Com / Second
Subject Name :- Mathematics

Week 13, Day 1, Date: <u>26-03-2018</u> <u>Continue</u>
Week 13, Day 2, Date: <u>27-03-2018</u> <u>Continue</u>
Week 13, Day 3, Date: <u>28-03-2018</u> <u>Continue</u>
Week 13, Day 4, Date: <u>29-03-2018</u> <u>Test</u>
Week 13, Day 5, Date: <u>30-03-2018</u> <u>Ratio</u>
Week 13, Day 6, Date: <u>31-03-2018</u> <u>Continue</u>
Week 14, Day 1, Date: <u>02-04-2018</u> <u>Continue</u>
Week 14, Day 2, Date: <u>03-04-2018</u> <u>Proportion</u>
Week 14, Day 3, Date: <u>04-04-2018</u> <u>Continue</u>
Week 14, Day 4, Date: <u>05-04-2018</u> <u>Continue</u>
Week 14, Day 5, Date: <u>06-04-2018</u> <u>Percentage</u>
Week 14, Day 6, Date: <u>07-04-2018</u> <u>Continue</u>

Lesson Plan of Daxsh Model Degree College, Gahana

Name of the Assistant / Associate Professor: Ms. Kavina Bhandari

Class and Semester: B.Com / Second

Subject Name: Mathematics

Week 15, Day 1, Date: <u>09-04-2018</u> <u>Continue</u>
Week 15, Day 2, Date: <u>10-04-2018</u> <u>Profit</u>
Week 15, Day 3, Date: <u>11-04-2018</u> <u>Continue</u>
Week 15, Day 4, Date: <u>12-04-2018</u> <u>Continue</u>
Week 15, Day 5, Date: <u>13-04-2018</u> <u>Loss</u>
Week 15, Day 6, Date: <u>14-04-2018</u> <u>————</u>
Week 16, Day 1, Date: <u>16-04-2018</u> <u>Continue</u>
Week 16, Day 2, Date: <u>17-04-2018</u> <u>Continue</u>
Week 16, Day 3, Date: <u>18-04-2018</u> <u>————</u>
Week 16, Day 4, Date: <u>19-04-2018</u> <u>Revision</u>
Week 16, Day 5, Date: <u>20-04-2018</u> <u>Revision</u>
Week 16, Day 6, Date: <u>21-04-2018</u> <u>Test</u>

Lesson Plan of Dash Model Degree College, Gahara

Name of the Assistant /Associate Professor:- Ms. Kavina Rhasidhraj

Class and Semester B.Com I Second

Subject Name :- Mathematics

Week 17, Day 1, Date: <u>23-04-2018</u> <u>Revision</u>
Week 17, Day 2, Date: <u>24-04-2018</u> <u>Revision</u>
Week 17, Day 3, Date: <u>25-04-2018</u> <u>Revision</u>
Week 17, Day 4, Date: <u>26-04-2018</u> <u>Test</u>
Week 17, Day 5, Date: <u>27-04-2018</u> <u>Revision</u>
Week 17, Day 6, Date: <u>28-04-2018</u> <u>Revision.</u>
Week 18, Day 1, Date:
Week 18, Day 2, Date:
Week 18, Day 3, Date:
Week 18, Day 4, Date:
Week 18, Day 5, Date:
Week 18, Day 6, Date: