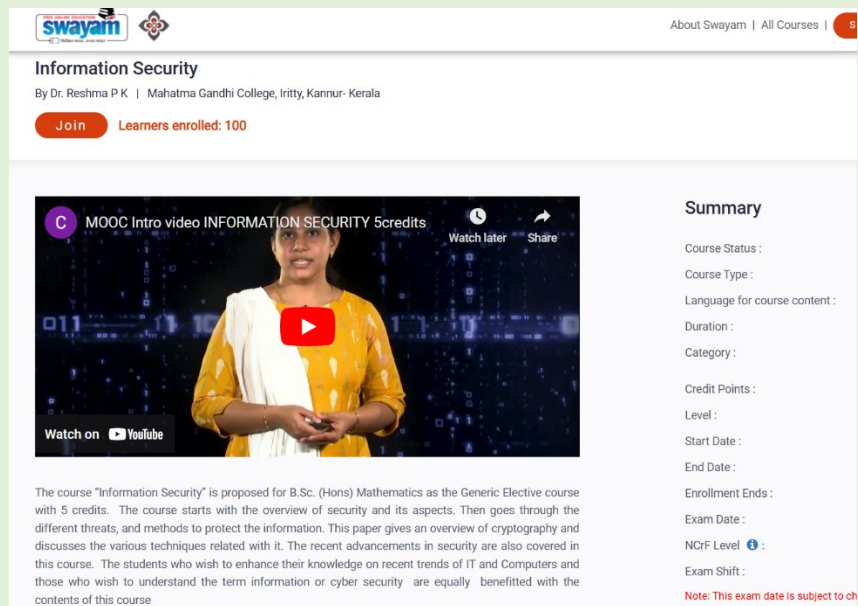


MAHATMA GANDHI COLLEGE, IRITTY
SWAYAM Courses for the Academic Year 2023-2024

During the academic year 2023-2024, faculty members of Mahatma Gandhi College, Iritty, actively contributed to various SWAYAM courses coordinated by the Consortium for Educational Communication (CEC), New Delhi, as the National Coordinator. Their roles included serving as Course Coordinators, Subject Experts, Content Editors, Video Presenters, and Video Previewers, showcasing their dedication to enhancing digital education.

1. Name of the MOOC : INFORMATION SECURITY
Link to the Course : https://onlinecourses.swayam2.ac.in/cec25_ma11/preview



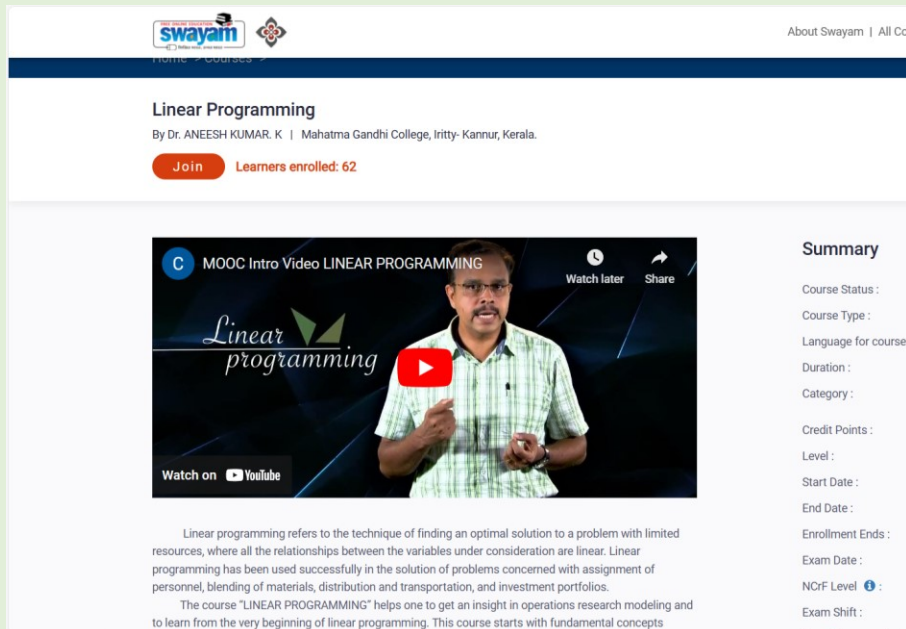
The screenshot shows the SWAYAM course page for 'Information Security'. The page header includes the SWAYAM logo and navigation links. The course title 'Information Security' is displayed, along with the instructor's name 'By Dr. Reshma P K | Mahatma Gandhi College, Iritty, Kannur - Kerala'. A 'Join' button and 'Learners enrolled: 100' are visible. A video player shows a woman in a yellow and white sari presenting the course. The video title is 'MOOC Intro video INFORMATION SECURITY 5credits'. Below the video player, there is a detailed description of the course: 'The course "Information Security" is proposed for B.Sc. (Hons) Mathematics as the Generic Elective course with 5 credits. The course starts with the overview of security and its aspects. Then goes through the different threats, and methods to protect the information. This paper gives an overview of cryptography and discusses the various techniques related with it. The recent advancements in security are also covered in this course. The students who wish to enhance their knowledge on recent trends of IT and Computers and those who wish to understand the term information or cyber security are equally benefitted with the contents of this course'. A 'Summary' section on the right lists various course details such as Course Status, Course Type, Language for course content, Duration, Category, Credit Points, Level, Start Date, End Date, Enrollment Ends, Exam Date, NCrF Level, and Exam Shift. A note at the bottom right states 'Note: This exam date is subject to ch...'. The video player also has 'Watch on YouTube' and 'Watch later' buttons.

Name of the P.I /S.M.E : Dr Reshma P K, Assistant Professor, Dept. of Computer Science, Mahatma Gandhi College, Iritty

Name of the MOOC	: INFORMATION SECURITY
Name of the P.I /S.M.E	: Dr Reshma P K, Assistant Professor, Dept. of Computer Science, Mahatma Gandhi College, Iritty
Course Level	: UG
Subject	: Computer Science & Applications
Topic	: Computer Science & Applications
No. of Credits	: 5
Month & Year of the fresh course developed	: January 2023
No. of Modules	: 52
Running Status	: Rerun
Semester & Year of the present running of the course	: January -May 2024
Course Start Date	: 15.01.2024
Course End Date	: 29.04.2024
Total No. of Enrollments	: 2168
Date of Examination	: 25.05.2024

2. Name of the MOOC : Linear Programming

[Link to the Course](https://onlinecourses.swayam2.ac.in/cec25_ma12/preview) : https://onlinecourses.swayam2.ac.in/cec25_ma12/preview



Linear Programming
By Dr. ANEESH KUMAR. K | Mahatma Gandhi College, Iritty- Kannur, Kerala.

[Join](#) Learners enrolled: 62

MOOC Intro Video LINEAR PROGRAMMING

Watch later Share

Watch on YouTube

Linear programming refers to the technique of finding an optimal solution to a problem with limited resources, where all the relationships between the variables under consideration are linear. Linear programming has been used successfully in the solution of problems concerned with assignment of personnel, blending of materials, distribution and transportation, and investment portfolios.

The course "LINEAR PROGRAMMING" helps one to get an insight in operations research modeling and to learn from the very beginning of linear programming. This course starts with fundamental concepts

Summary

Course Status :
Course Type :
Language for course :
Duration :
Category :
Credit Points :
Level :
Start Date :
End Date :
Enrollment Ends :
Exam Date :
NCF Level :
Exam Shift :

Name of the P.I /S.M.E : Dr Aneesh Kumar K, Associate Professor and Head, Dept. of Statistics, Mahatma Gandhi College, Iritty

Course Level: UG

The following faculty members contributed for the MOOC Course for the Academic Year 2023-2024.

Dr Aneesh Kumar K, Associate Professor and Head, Dept. of Statistics, Mahatma Gandhi College, Iritty is the Subject Expert and Presenter of following modules:

Mathematical Formulation of Linear Programming Problems – More examples

Graphical Solution of Linear Programming Problems – More examples

Solution to Linear Programming Problem by Simplex Method – Special cases

Simplex Method – LPP with more than two variables
Additional problems on Two Phase and Big M Method
Dual Simplex Method – More Problems
Transportation Problem – Initial Basic Feasible Solution
More problems using N-W Corner, Row Minima and Least Cost Methods
Transportation Problem – Initial Basic Feasible Solution
More problems using Vogel's Approximation Method
Optimal Solution for Transportation Problems- Additional Problems -I
Optimal Solution for Transportation Problems- Additional Problems -II
More Assignment Problems
Assignment problems -Additional problems
Solving more game problems using graphical method
Linear programming formulation of game.

Mrs. Haseena C, Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Irtty is the Script Editor of following modules:

Mathematical Formulation of Linear Programming Problems – More examples
Graphical Solution of Linear Programming Problems – More examples
Solution to Linear Programming Problem by Simplex Method – Special cases
Simplex Method – LPP with more than two variables
Additional problems on Two Phase and Big M Method
Dual Simplex Method – More Problems
Transportation Problem – Initial Basic Feasible Solution
More problems using N-W Corner, Row Minima and Least Cost Methods
Transportation Problem – Initial Basic Feasible Solution

More problems using Vogel's Approximation Method
Optimal Solution for Transportation Problems- Additional Problems -I
Optimal Solution for Transportation Problems- Additional Problems -II
More Assignment Problems
Assignment problems -Additional problems
Solving more game problems using graphical method
Linear programming formulation of game.

Mrs. Priyanka P , Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Script Editor of following modules:

Mathematical Formulation of Linear Programming Problems – More examples
Graphical Solution of Linear Programming Problems – More examples
Solution to Linear Programming Problem by Simplex Method – Special cases
Simplex Method – LPP with more than two variables
Additional problems on Two Phase and Big M Method
Dual Simplex Method – More Problems
Transportation Problem – Initial Basic Feasible Solution
More problems using N-W Corner, Row Minima and Least Cost Methods
Transportation Problem – Initial Basic Feasible Solution
More problems using Vogel's Approximation Method
Optimal Solution for Transportation Problems- Additional Problems -I
Optimal Solution for Transportation Problems- Additional Problems -II
More Assignment Problems
Assignment problems -Additional problems
Solving more game problems using graphical method
Linear programming formulation of game

Mrs. Vidya T. M., Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Video Previewr of following modules:

Mathematical Formulation of Linear Programming Problems – More examples

Graphical Solution of Linear Programming Problems – More examples

Solution to Linear Programming Problem by Simplex Method – Special cases

Simplex Method – LPP with more than two variables

Additional problems on Two Phase and Big M Method

Dual Simplex Method – More Problems

Transportation Problem – Initial Basic Feasible Solution

More problems using N-W Corner, Row Minima and Least Cost Methods

Transportation Problem – Initial Basic Feasible Solution

More problems using Vogel's Approximation Method

Optimal Solution for Transportation Problems- Additional Problems -I

Optimal Solution for Transportation Problems- Additional Problems -II

More Assignment Problems

Assignment problems -Additional problems

Solving more game problems using graphical method

Linear programming formulation of game

3. Name of the MOOC : Probability and Statistics

Name of the P.I /S.M.E : Dr Aneesh Kumar K, Associate Professor and Head, Dept. of Statistics, Mahatma Gandhi College, Iritty

Course Level: UG

The following faculty members contributed for the MOOC Course for the Academic Year 2023-2024.

Dr Aneesh Kumar K, Associate Professor and Head, Dept. of Statistics, Mahatma Gandhi College, Iritty is the Subject Expert and Presenter of following modules:

Additional Problems on Conditional Probability and Independence of events

Additional Problems on Discrete Random Variables

Additional Problems on Continuous Random Variables

Additional Problems on Bivariate Random Variables

Properties of Covariance

Additional Problems on Conditional Expectation

Sampling Distribution

Chi-Square Distribution

Student's t-Distribution

Snedecor's F- Distribution

Estimation of Parameters and Unbiased Estimator

Consistent, Efficient and sufficient Estimators

Methods of Estimation - MLE and Method of Moments

Interval Estimation-I

Interval Estimation-II

Mrs. Haseena C, Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Script Editor of following modules:

Additional Problems on Conditional Probability and Independence of events
Additional Problems on Discrete Random Variables
Additional Problems on Continuous Random Variables
Additional Problems on Bivariate Random Variables
Properties of Covariance
Additional Problems on Conditional Expectation
Sampling Distribution
Chi-Square Distribution
Student's t-Distribution
Snedecor's F- Distribution
Estimation of Parameters and Unbiased Estimator
Consistent, Efficient and sufficient Estimators
Methods of Estimation - MLE and Method of Moments
Interval Estimation-I
Interval Estimation-II

Mrs. Priyanka P , Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Script Editor of following modules:

Additional Problems on Conditional Probability and Independence of events
Additional Problems on Discrete Random Variables
Additional Problems on Continuous Random Variables
Additional Problems on Bivariate Random Variables
Properties of Covariance
Additional Problems on Conditional Expectation
Sampling Distribution
Chi-Square Distribution

Student's t-Distribution

Snedecor's F- Distribution

Estimation of Parameters and Unbiased Estimator

Consistent, Efficient and sufficient Estimators

Methods of Estimation - MLE and Method of Moments

Interval Estimation-I

Interval Estimation-II

Mrs. Vidya T. M., Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Video Previewr of following modules:

Additional Problems on Conditional Probability and Independence of events

Additional Problems on Discrete Random Variables

Additional Problems on Continuous Random Variables

Additional Problems on Bivariate Random Variables

Properties of Covariance

Additional Problems on Conditional Expectation

Sampling Distribution

Chi-Square Distribution

Student's t-Distribution

Snedecor's F- Distribution

Estimation of Parameters and Unbiased Estimator

Consistent, Efficient and sufficient Estimators

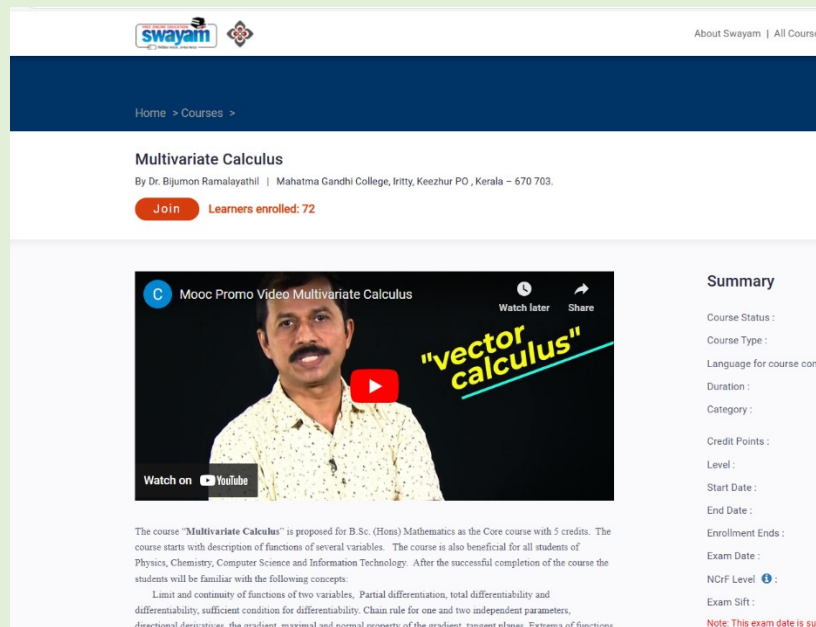
Methods of Estimation - MLE and Method of Moments

Interval Estimation-I

Interval Estimation-II

4. Name of the MOOC : Multivariate Calculus

[Link to the Course](https://onlinecourses.swayam2.ac.in/cec25_ma03/preview) https://onlinecourses.swayam2.ac.in/cec25_ma03/preview



The screenshot displays the Swayam MOOC interface for the course 'Multivariate Calculus'. At the top, the Swayam logo is visible. Below it, the course title 'Multivariate Calculus' is shown, followed by the instructor's name 'By Dr. Bijumon Ramalayathil | Mahatma Gandhi College, Iritty, Keezhur PO, Kerala - 670 703'. A 'Join' button and 'Learners enrolled: 72' are present. A video player shows a promotional video for 'vector calculus' with a 'Watch on YouTube' button. A summary sidebar on the right lists course details: Course Status, Course Type, Language for course content, Duration, Category, Credit Points, Level, Start Date, End Date, Enrollment Ends, Exam Date, NCrF Level, and Exam Sift. A note at the bottom right states 'Note: This exam date is subject to change'.

Name of the P.I /S.M.E : Dr Bijumon Ramalayathil, Associate Professor and Head, Dept. of Mathematics, Mahatma Gandhi College, Iritty

Course Level: UG

The following faculty members contributed for the MOOC Course for the Academic Year 2023-2024.

Dr Bijumon Ramalayathil, Associate Professor and Head, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Subject Expert of following modules:

Surface Integrals when Surfaces are given by Cartesian Equations

Orientation of Surfaces

Flux of a Vector Field through a Surface

Parametrized Surfaces
Surface Area of Parametrized Surfaces
Surface Integral of Parametrized Surfaces
Stokes' Theorem Part A
Stokes' Theorem Part B
The Divergence Theorem of Gauss
The Divergence Theorem for General Regions

Dr Bijumon Ramalayathil, Associate Professor and Head, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Presenter of following modules:

Cylinders
Quadric Surfaces
Functions of Several Variables (Domain, Range, and Graph of Functions of Several Variables)
Graph of Functions of Several Variables
Level Curves and Contour Lines of Functions of Several Variables AND Limit Along Curves of Functions of Two Variables
Limit and Continuity of Functions of Several Variables
Partial Differentiation
Partial Differentiation of Higher Order
Differentiability and Linearization of Functions of Two Variables
Total Differentials of Functions of Two Variables AND Differentiability, Linearization and Total Differential of Functions of Three Variables
Chain Rules for Functions of Several Variables
Applications of The Chain Rule - Implicit Differentiation

Directional Derivative of Functions of Two variables
Directional Derivative of Functions of Three Variables
Extreme values of Functions of Several Variables and Saddle Points
Absolute maxima and minima on closed bounded regions
Lagrange Multipliers with One Constraint
Lagrange Multipliers with Two Constraints
Double Integration over Rectangular Regions
Double Integration in Non-Rectangular Regions
Double Integrals by Reversing the Order of Integration and Area by Double Integrals
Double Integration in Polar Coordinates
Triple Integration in Cartesian Coordinates, Triple Integrals over General Surfaces in Cartesian Coordinates AND Triple Integrals in Cartesian Coordinates (Changing the Order of Integration)
Cartesian and Cylindrical Coordinate Systems
Spherical Coordinate System in Three Dimensional Space
Triple Integrals in Cylindrical Coordinates
Triple Integrals in Spherical Coordinates
Change of Variables in Double and Triple Integrals - Jacobians
Arc Length-Arcs given by Vector Valued Functions AND Arc Length Parameter, Speed and Unit Tangent Vector
Line Integrals - Integration Along Curves
Evaluation of Line Integrals
Applications of Line Integrals - Finding Centre of Mass
Vector Valued Functions, Vector Fields, Divergence and Curl
Line Integral of Vector Valued Functions
The Work Done by a Force Over a Curve in Space

Path Independence of Line Integrals - Fundamental Theorem of Line Integrals
The Divergence of a Vector Field AND k-component of Curl of a Vector Field
Green's Theorem - Normal Form
Green's Theorem - Tangential Form
Surface Area of Surfaces in Cartesian Form
Surface Integrals when Surfaces are given by Cartesian Equations
Surface Integrals when Surfaces are given by Cartesian Equations

Orientation of Surfaces
Flux of a Vector Field through a Surface
Parametrized Surfaces
Surface Area of Parametrized Surfaces
Surface Integral of Parametrized Surfaces
Stokes' Theorem Part A
Stokes' Theorem Part B
The Divergence Theorem of Gauss
The Divergence Theorem for General Regions

Dr Bijumon Ramalayathil, Associate Professor and Head, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Academic Reviewer of following modules:

Cylinders

Quadric Surfaces

Functions of Several Variables (Domain, Range, and Graph of Functions of Several Variables)

Graph of Functions of Several Variables

Level Curves and Contour Lines of Functions of Several Variables AND Limit Along Curves of Functions of Two Variables

Limit and Continuity of Functions of Several Variables

Partial Differentiation

Partial Differentiation of Higher Order

Differentiability and Linearization of Functions of Two Variables

Total Differentials of Functions of Two Variables AND Differentiability, Linearization and Total Differential of Functions of Three Variables

Chain Rules for Functions of Several Variables

Applications of The Chain Rule - Implicit Differentiation

Directional Derivative of Functions of Two variables

Directional Derivative of Functions of Three Variables

Extreme values of Functions of Several Variables and Saddle Points

Absolute maxima and minima on closed bounded regions

Lagrange Multipliers with One Constraint

Lagrange Multipliers with Two Constraints

Double Integration over Rectangular Regions

Double Integration in Non-Rectangular Regions

Double Integrals by Reversing the Order of Integration and Area by Double Integrals

Double Integration in Polar Coordinates

Triple Integration in Cartesian Coordinates, Triple Integrals over General Surfaces in Cartesian Coordinates AND Triple Integrals in Cartesian Coordinates (Changing the Order of Integration)

Cartesian and Cylindrical Coordinate Systems

Spherical Coordinate System in Three Dimensional Space

Triple Integrals in Cylindrical Coordinates

Triple Integrals in Spherical Coordinates

Change of Variables in Double and Triple Integrals - Jacobians

Arc Length-Arcs given by Vector Valued Functions AND Arc Length Parameter, Speed and Unit Tangent Vector

Line Integrals - Integration Along Curves

Evaluation of Line Integrals

Applications of Line Integrals - Finding Centre of Mass

Vector Valued Functions, Vector Fields, Divergence and Curl

Line Integral of Vector Valued Functions

The Work Done by a Force Over a Curve in Space

Path Independence of Line Integrals - Fundamental Theorem of Line Integrals

The Divergence of a Vector Field AND k-component of Curl of a Vector Field

Green's Theorem - Normal Form

Green's Theorem - Tangential Form

Surface Area of Surfaces in Cartesian Form

Mrs. Haseena C, Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Subject Expert of following modules:

Evaluation of Line Integrals

Applications of Line Integrals - Finding Centre of Mass

Vector Valued Functions, Vector Fields, Divergence and Curl

Line Integral of Vector Valued Functions

The Work Done by a Force Over a Curve in Space

Mrs. Haseena C, Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Academic Reviewer of following modules:

Cylinders

Quadric Surfaces

Functions of Several Variables (Domain, Range, and Graph of Functions of Several Variables)

Graph of Functions of Several Variables

Level Curves and Contour Lines of Functions of Several Variables AND Limit Along Curves of Functions of Two Variables

Limit and Continuity of Functions of Several Variables

Partial Differentiation

Partial Differentiation of Higher Order

Differentiability and Linearization of Functions of Two Variables

Total Differentials of Functions of Two Variables AND Differentiability, Linearization and Total Differential of Functions of Three Variables

Surface Integrals when Surfaces are given by Cartesian Equations

Orientation of Surfaces

Flux of a Vector Field through a Surface

Parametrized Surfaces

Surface Area of Parametrized Surfaces

Surface Integral of Parametrized Surfaces

Stokes' Theorem Part A

Stokes' Theorem Part B

The Divergence Theorem of Gauss

The Divergence Theorem for General Regions

Mrs. Haseena C, Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Academic Reviewer (Video) of following modules:

Chain Rules for Functions of Several Variables
Applications of The Chain Rule - Implicit Differentiation
Directional Derivative of Functions of Two variables
Directional Derivative of Functions of Three Variables
Extreme values of Functions of Several Variables and Saddle Points
Absolute maxima and minima on closed bounded regions
Lagrange Multipliers with One Constraint
Lagrange Multipliers with Two Constraints
Double Integration over Rectangular Regions
Double Integration in Non-Rectangular Regions

Mrs. Priyanka P, Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Subject Expert of following modules:

Path Independence of Line Integrals - Fundamental Theorem of Line Integrals
The Divergence of a Vector Field AND k-component of Curl of a Vector Field
Green's Theorem - Normal Form
Green's Theorem - Tangential Form
Surface Area of Surfaces in Cartesian Form

Mrs. Priyanka P, Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Academic Reviewer of following modules:

Surface Integrals when Surfaces are given by Cartesian Equations

Orientation of Surfaces

Flux of a Vector Field through a Surface

Parametrized Surfaces

Surface Area of Parametrized Surfaces

Surface Integral of Parametrized Surfaces

Stokes' Theorem Part A

Stokes' Theorem Part B

The Divergence Theorem of Gauss

The Divergence Theorem for General Regions

Mrs. Priyanka P , Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Irityy is the Academic Reviewer (Video) of following modules:

Double Integrals by Reversing the Order of Integration and Area by Double Integrals

Double Integration in Polar Coordinates

Triple Integration in Cartesian Coordinates, Triple Integrals over General Surfaces in Cartesian Coordinates AND Triple Integrals in Cartesian Coordinates (Changing the Order of Integration)

Cartesian and Cylindrical Coordinate Systems

Spherical Coordinate System in Three Dimensional Space

Triple Integrals in Cylindrical Coordinates

Triple Integrals in Spherical Coordinates

Change of Variables in Double and Triple Integrals - Jacobians

Arc Length-Arcs given by Vector Valued Functions AND Arc Length Parameter, Speed and Unit Tangent Vector

Line Integrals - Integration Along Curves

Mrs. Jimly Manuel , Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Subject Expert of following modules:

Cylinders

Quadric Surfaces

Functions of Several Variables (Domain, Range, and Graph of Functions of Several Variables)

Graph of Functions of Several Variables

Level Curves and Contour Lines of Functions of Several Variables AND Limit Along Curves of Functions of Two Variables

Limit and Continuity of Functions of Several Variables

Partial Differentiation

Partial Differentiation of Higher Order

Differentiability and Linearization of Functions of Two Variables

Total Differentials of Functions of Two Variables AND Differentiability, Linearization and Total Differential of Functions of Three Variables

Mrs. Jimly Manuel , Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Academic Reviewer of following modules:

Double Integrals by Reversing the Order of Integration and Area by Double Integrals

Double Integration in Polar Coordinates

Triple Integration in Cartesian Coordinates, Triple Integrals over General Surfaces in Cartesian Coordinates AND Triple Integrals in Cartesian Coordinates (Changing the Order of Integration)

Cartesian and Cylindrical Coordinate Systems

Spherical Coordinate System in Three Dimensional Space

Triple Integrals in Cylindrical Coordinates

Triple Integrals in Spherical Coordinates

Change of Variables in Double and Triple Integrals - Jacobians

Arc Length-Arcs given by Vector Valued Functions AND Arc Length Parameter, Speed and Unit Tangent Vector

Line Integrals - Integration Along Curves

Mrs. Jimly Manuel , Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Academic Reviewer (Video) of following modules:

Surface Integrals when Surfaces are given by Cartesian Equations

Orientation of Surfaces

Flux of a Vector Field through a Surface

Parametrized Surfaces

Surface Area of Parametrized Surfaces

Surface Integral of Parametrized Surfaces

Stokes' Theorem Part A

Stokes' Theorem Part B

The Divergence Theorem of Gauss

The Divergence Theorem for General Regions

Mrs. Maya P. V. , Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Subject Expert of following modules:

- Chain Rules for Functions of Several Variables
- Applications of The Chain Rule - Implicit Differentiation
- Directional Derivative of Functions of Two variables
- Directional Derivative of Functions of Three Variables
- Extreme values of Functions of Several Variables and Saddle Points
- Absolute maxima and minima on closed bounded regions
- Lagrange Multipliers with One Constraint
- Lagrange Multipliers with Two Constraints
- Double Integration over Rectangular Regions
- Double Integration in Non-Rectangular Regions

Mrs. Maya P. V. , Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Academic Reviewer of following modules:

- Evaluation of Line Integrals
- Applications of Line Integrals - Finding Centre of Mass
- Vector Valued Functions, Vector Fields, Divergence and Curl
- Line Integral of Vector Valued Functions
- The Work Done by a Force Over a Curve in Space
- Path Independence of Line Integrals - Fundamental Theorem of Line Integrals
- The Divergence of a Vector Field AND k -component of Curl of a Vector Field
- Green's Theorem - Normal Form
- Green's Theorem - Tangential Form
- Surface Area of Surfaces in Cartesian Form

Mrs. Maya P. V. , Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Academic Reviewer (Video) of following modules:

Cylinders

Quadric Surfaces

Functions of Several Variables (Domain, Range, and Graph of Functions of Several Variables)

Graph of Functions of Several Variables

Level Curves and Contour Lines of Functions of Several Variables AND Limit Along Curves of Functions of Two Variables

Limit and Continuity of Functions of Several Variables

Partial Differentiation

Partial Differentiation of Higher Order

Differentiability and Linearization of Functions of Two Variables

Total Differentials of Functions of Two Variables AND Differentiability, Linearization and Total Differential of Functions of Three Variables

Mrs. Vidya T. M., Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Subject Expert of following modules:

Double Integrals by Reversing the Order of Integration and Area by Double Integrals

Double Integration in Polar Coordinates

Triple Integration in Cartesian Coordinates, Triple Integrals over General Surfaces in Cartesian Coordinates AND Triple Integrals in Cartesian Coordinates (Changing the Order of Integration)

Cartesian and Cylindrical Coordinate Systems

Spherical Coordinate System in Three Dimensional Space

Triple Integrals in Cylindrical Coordinates

Triple Integrals in Spherical Coordinates

Change of Variables in Double and Triple Integrals - Jacobians

Arc Length-Arcs given by Vector Valued Functions AND Arc Length Parameter, Speed and Unit Tangent Vector

Line Integrals - Integration Along Curves

Mrs. Vidya T. M., Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Academic Reviewer of following modules:

Chain Rules for Functions of Several Variables

Applications of The Chain Rule - Implicit Differentiation

Directional Derivative of Functions of Two variables

Directional Derivative of Functions of Three Variables

Extreme values of Functions of Several Variables and Saddle Points

Absolute maxima and minima on closed bounded regions

Lagrange Multipliers with One Constraint

Lagrange Multipliers with Two Constraints

Double Integration over Rectangular Regions

Double Integration in Non-Rectangular Regions

Mrs. Vidya T. M., Assistant Professor, Dept. of Mathematics, Mahatma Gandhi College, Iritty is the Academic Reviewer (Video) of following modules:

Evaluation of Line Integrals

Applications of Line Integrals - Finding Centre of Mass

Vector Valued Functions, Vector Fields, Divergence and Curl

Line Integral of Vector Valued Functions

The Work Done by a Force Over a Curve in Space

Path Independence of Line Integrals - Fundamental Theorem of Line Integrals

The Divergence of a Vector Field AND k -component of Curl of a Vector Field

Green's Theorem - Normal Form

Green's Theorem - Tangential Form

Surface Area of Surfaces in Cartesian Form