

### Day 3 - 14.11.2018 (Wednesday)



Session 1 : 9.30 am - 11.00 am

Metric Graph Theory  
**Dr. Manoj Changat**

Professor and Head, Department of Futures Studies,  
University of Kerala, Kariavattom, Thiruvananthapuram

Tea Break

Session 2 : 11.15 am - 12.45 pm

Metric Graph Theory  
**Dr. Manoj Changat**

Lunch Break

Session 3 : 1.30 pm - 3.00 pm



Geodetic sets in Graphs  
**Dr. Ullas Chandren S.V**

Assistant Professor of Mathematics  
M.G. College, Thiruvananthapuram

Tea Break

3.15 pm - 4.00 pm

Valedictory session

### Organizing Committee :

- Patron : **Dr. G. Vijayalekshmi**  
Principal
- Chair person : **Smt. Anila. J.S.**  
Head, Dept. of Mathematics
- Co-ordinator : **Sri. Sreekumar S.**
- Members : **Sri. K.P. Binu**  
**Smt. Preethi. C.S.**  
**Smt. Minikumari N.S.**  
**Sri. S. Vinod**  
**Smt. B. Rajeswari**  
**Smt. Sreeja. P**

### Registration :

There will be no registration fee. Those who wish to participate in the seminar are requested to contact the coordinator on or before 07/11/2018. All participants are eligible for duty leave.

#### For more details, Please contact:

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INVITATION



## GOVERNMENT COLLEGE FOR WOMEN

Thiruvananthapuram  
(NAAC Reaccredited by A grade)  
Affiliated to the University of Kerala  
Thiruvananthapuram

## National Seminar on Discrete Mathematics

12-14 November 2018

Organized by :

**The Department of Mathematics**  
Govt. College for Women, Thiruvananthapuram

SPONSORED BY:

THE DEPARTMENT OF COLLEGIATE EDUCATION  
GOVERNMENT OF KERALA

## About us :

Govt. College for Women, Thiruvananthapuram the sixth oldest College in Kerala, was established in 1864, and Mathematics course was introduced in 1929. Currently the Department of Mathematics offers under graduate and post graduate courses. The Department is committed to provide quality education in Mathematics.

## About the seminar :

The Department of Mathematics is conducting a three-day 'National Seminar on Discrete Mathematics' sponsored by the Department of Collegiate Education, Government of Kerala, from 12 to 14 November 2018.

Graphs are one of the prime objects of study in Discrete Mathematics. They are among the most important model of both natural and human made structures. They can model many types of relations in physical, biological and social systems. In Computer science, they can represent networks of communication, data or organization. Graph theory has many applications in different fields and has connection with different branches such as Algebra, Topology, Convexity etc.

The Seminar aims to provide the students, research scholars and academicians with a lively platform to understand, discuss and disseminate the latest developments in Graph Theory. We invite the faculty members, research scholars, M.Phil and PG students to take part in the Seminar and request to make it a success.

Felicitation of the students of UG & PG programme of the Department, who have secured first rank in the Kerala University Examinations during the academic year 2017-2018 will also be held in the Inaugural Function.

**Dr. G. Vijayalekshmi**  
Principal

**Smt. Anila J.S.**  
Head, Dept. of Mathematics  
& Vice Principal

**Sri. Sreekumar. S**  
Co-ordinator

## Programme

### Day 1 - 12.11.2018 (Monday)

#### Venue : Seminar Hall

9.00 am	:	Registration
9.30 am	:	Inauguration
Welcome	:	<b>Smt. Anila J.S.</b> Head, Department of Mathematics & Vice Principal
Presidential Address	:	<b>Dr. G. Vijayalekshmi</b> Principal
Inauguration	:	<b>Dr. G. Suresh Singh</b> Professor and Head, Dept. of Mathematics University of Kerala
Felicitation	:	<b>Dr. S.H.S. Dharmaja</b> Head, Dept. of Statistics
Vote of Thanks	:	<b>Sri. Sreekumar. S</b> Co-ordinator

#### Session 1 : 10.00am - 11.30 am

Mathematical Modelling through Graphs

**Dr. G. Suresh Singh**

Professor & Head, Dept. of Mathematics, University of Kerala, Kariavattom, TVPM.

Tea break

#### Session 2 : 11.40 am - 1.10 pm

Mathematical Modeling through Graphs

**Dr. G. Suresh Singh**

Lunch Break



#### Session 3 : 1:30 pm - 3:00 pm

Excellent applications of Domination in Graphs with Network Models

**Dr. G. Mahadevan**

Assistant Professor of Mathematics,

Gandhigram Rural Institute – Deemed University, Gandhigram, Dindigul

Tea break

#### Session 4 : 3.10 pm - 4.40 pm

Excellent applications of Domination in Graphs with Network Models

**Dr. G. Mahadevan**

### Day 2 - 13.11.2018 (Tuesday)

#### Session 1 : 9.30 am - 11.00 am

Graphs and Commutative Rings

**Dr. T. Tamizh Chelvam**

Professor, Dept. of Mathematics, Manonmaniam Sundaranar University, Tirunelveli

Tea break

#### Session 2 : 11.15 am - 12.45 pm

Graphs and Commutative Rings

**Dr. T. Tamizh Chelvam**

Lunch break

#### Session 3 : 1.30 pm - 3.00 pm

Graph connections

**Dr. Manilal K.**

Assistant Professor of Mathematics, University College, TVPM.

Tea break

#### Session 4 : 3.10 pm - 4.40 pm

Graph connections

**Dr. Manilal K.**

