



**Dr. M.G.R.**  
**EDUCATIONAL AND RESEARCH INSTITUTE**  
**DEEMED TO BE UNIVERSITY**

University with Graded Autonomy Status  
(An ISO 21001 : 2018 Certified Institution)  
Periyar E.V.R. High Road, Maduravoyal, Chennai-95. Tamilnadu, India.



**Dr.M.G.R Digital Learning Monitoring Cell**

**Department / Faculty: MATHEMATICS**

To tackle the challenge of learning, **Dr.M.G.R Digital Learning Monitoring Cell** has undertaken some initiatives to give a hand to students, scholars, teachers and enduring learners in their detection of education. It covers learning material in the form of PPT, PDF, VIDEO lectures etc., which aims to combine all efforts related to digital/online to enable equitable multi-mode access to education. It is whispered that it will benefit thousands of students all different streams like B.Tech, B.Com, BCA, B.Sc, M.Tech, M.Sc, M.Com, MCA etc. A summary of these is given below for the period of JULY 2022- MARCH 2025 .

**Department Contributors Consolidated list**

**Period: JULY 2022- JAN 2023**

<b>S.No</b>	<b>Title of the content</b>	<b>Subject / Category</b>	<b>Content Type</b>	<b>Name of the Contributor</b>	<b>Designation</b>
1	Matrices Introduction	Allied Mathematics-I	Video	Sirisha J	Assistant Professor
2	Range And Quartile Deviation	Business Statistics	Video	Viola. A	Assistant Professor



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3	Formation of PDE by eliminating arbitrary constant	Mathematics III For Mechanical And Civil Engineers	Video	M.Sridevi	Associate professor
4	Measure of Central Tendency	Business Statistics	Video	P. Divya	Assistant Professor
5	Introduction to Graph Theory Part 1	Discrete Mathematics	Video	Dr. A. Rathi	Assistant Professor
6	Logic-Part-1 ( Statement& Truth Table)	Discrete Mathematics	Video	Dr.P.Sona	Assistant Professor
7	Logic-Part-2 ( Laws of Logic)	Discrete Mathematics	Video	Dr.P.Sona	Assistant Professor
8	Logic- Part-3 ( Normal Forms- CNF, DNF)	Discrete Mathematics	Video	Dr.P.Sona	Assistant Professor
9	Transportation Problem	Optimization Techniques	Video	Mrs.G.Annalakshmi	Associate professor
10	Rank Correlation-Part 1	Financial Statistics	Video	Mrs.S.Sarala	Assistant Professor
11	Rank Correlation-Part 2	Financial Statistics	Video	Mrs.S.Sarala	Assistant Professor
12	Logic- Inference Theory	Discrete Mathematics	Video	Dr. A. Mahalakshmi	Assistant Professor



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13	Correlation	Allied Bio Statistics	Video	Mrs.Bhuvanewari.S	Assistant Professor
14	Pigeon Hole Principle	Discrete Mathematics	Video	Mrs.R.Aruna	Assistant Professor
15	Introduction to statistics- Part-1	Business Statistics	Video	Dr.K.Kaleeswari	Associate Professor
16	Introduction to statistics- Part-2	Business Statistics	Video	Dr.K.Kaleeswari	Associate Professor
17	Vector spaces	Linear Algebra	Video	Dr. R. Nagarathinam	Associate Professor
18	Complex Integration- Cauchy's Integral Formula	Mathematics-III for CHEM Eng	Video	Ms.C.Saranya	Assistant Professor
19	Normal Distribution	Allied Mathematics-I	Video	Mrs.R.Nandhinidevi	Assistant Professor
20	Basic concepts in Matrices	Allied Mathematics-I	Video	Mrs.Finil Jophila. C	Assistant Professor
21	Graphical Method	Optimization Techniques	Video	Mrs.G.Annalakshmi	Associate professor
22	Integer Programming	Optimization Techniques	Video	Mrs.G.Annalakshmi	Associate professor
23	Assignment Problem	Optimization Techniques	Video	Mrs.G.Annalakshmi	Associate professor



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**Period: JULY 2023- DEC 2023**

S.No	Title of the content	Subject / Category	Content Type	Name of the Contributor	Designation
1.	Chi-Square Test	Bio Statistics	PDF	Mrs.Y.Sabithabanu	Assistant Professor
2.	PCNF & PDNF in Discrete Mathematics	Discrete Mathematics	Video	Dr.P.Sona	Associate Professor
3.	Solutions of system of linear equation	Numerical Methods/ Linear Algebra	Video	Mrs. AR. Lakshmipriya	Assistant Professor



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4.	Gauss Elimination Method, Gauss Jordan Method	Numerical Methods/ Linear Algebra	Video	Mrs. S.Praveena	Assistant Professor
5.	Solving simultaneous equations using Matrices	Algebra/ Allied Mathematics-I	Video	Mrs.T.Jeyalakshmi	Assistant Professor
6.	Introduction to Automata and finite state Automata	Discrete Mathematics	PPT	Mrs.S.Sarala	Assistant Professor
7.	Introduction to Statistics-Part-III	Business Statistics	Video	Dr.K.Kaleeswari	Associate Professor
8.	One way Classification	Design of Experiments	PPT	Mrs.G.Annalakshmi	Associate Professor



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**Period: JAN 2024- MARCH 2024**

S.No	Title of the content	Subject / Category	Content Type	Name of the Contributor	Designation
1	BASIC STATISTICAL METHODS	Allied Bio Statistics	PPT	Dr.A.Subbarayan	Visiting Faculty
2	NORMAL DISTRIBUTION	Statistics for Computer Engineers	PPT	Mrs.S.Bhuvaneswari	Assistant Professor
3	POISSON DISTRIBUTION	Statistics for Computer Engineers	PPT	Dr.K.Kaleeswari	Associate Professor
4	MOVING AVERAGE, GRAPHICAL METHOD IN TIME SERIES	Financial Statistics	VIDEO	Dr.P.Sona	Associate Professor

**Period: APRIL 2024- AUG 2024**

S.No	Title of the content	Subject / Category	Content Type	Name of the Contributor	Designation
1	Linear Programming	Allied Mathematics-	PPT	Mrs.S.Sarala	Assistant Professor



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		II			
2	Run Test In Non-Para Matric Methods	Statistics For Computer Engineers	VIDEO	Dr.S.Gayathridevi	Associate Professor
3	Index Numbers	Business Statistics	VIDEO	Dr.A.Mahalakshmi	Associate Professor
4	Two Way Classifications	Design Of Experiments	PPT	Mrs.G.Annalakshmi	Associate professor
5	Fundamendals Of Graph Theory	Graph Theory	PPT	Dr. R. Nagarathinam	Associate professor
6	Laplace Transform And Its Properties	Laplace A Associate professor Fourier Transforms			
7	Non Parametric Methods-One And Two Samples	Statistics	PDF	Dr.P.Sona	Associate professor
8	Non Parametric Methods- k Samples	Statistics	PDF	Dr.A.Subbarayan	Professor



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Signature of Head of the Department

**Period: SEP 2024- MARCH 2025**

S.No	Title of the content	Subject / Category	Content Type	Name of the Contributor	Designation
1	Introduction to Research	Research Methodology	PPT	Mrs.S.Bhuvanewari	Assistant Professor
2	Part-1 Introduction to Statistical Quality Control	Statistical Quality Control	PPT	Dr.A.Rathi	Associate Professor
3	Analytic Function-Part-1	Complex Analysis	VIDEO	Mrs.Y.Sabithababu	Assistant Professor
4	Method of group averages	Numerical Methods	PPT	Dr. S.Kopperundevi-	Professor
5	Linear Programming Methods	Optimization Techniques	PPT	Dr.P.Ezhilarasi	Professor
6	Turing Machine-Automata Theory	Discrete Mathematics	VIDEO	Mrs.C.Saranya	Assistant Professor
7	Sign test in non parametric methods	Non parametric method	PPT	Dr.S.Gayathri	Associate professor



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**Period: MARCH 2025 - SEP 2025**

S.No	Title of the content	Subject / Category	Content Type	Name of the Contributor	Designation
1	Graph theory basics and Applications of network analysis	Graph Theory	PPT	R.Ayyappan	Assistant Professor
2	Set Theory	Mathematics Foundations to Computer Science - I	PPT	G.Annalakshmi	Associate Professor



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3	Kolmogrov-Smirnov One Sample Test	Statistical Inference- II	VIDEO	Dr.P.Sona	Associate Professor
4	Chebyshev's Inequality - Theorem and proof	Statistics	VIDEO	Dr.K.Kaleeswari	Professor
5	Formulation of LPP and Simplex Method	Allied Mathematics	PPT	Ms.Finil Jophila.C	Assistant Professor
6	Formulation of LPP-1	Allied Mathematics	PPT	Ms.A.Viola	Assistant Professor



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