


FACULTY PROFILE

DEPARTMENT OF MATHEMATICS

I. PERSONAL DETAILS

Name	Dr. P.Vidhya	
Designation	Head & Assistant Professor	
Qualification	M.Sc., M.Phil., SLET, PGDCA, Ph.D.	
Area of Specialization	Graph Theory – Domination Theory	
Mobile No.	9600890676	
e-Mail ID	Institutional:p.vidhya-mat@emgywomenscollege.ac.in Personal:vidhyaramman@gmail.com	

II. EDUCATIONAL QUALIFICATION

S.NO	NAME OF THE DEGREE/DIPLOMA	NAME OF THE INSTITUTION/UNIVERSITY	YEAR OF PASSING
1.	B.Sc.,	Government Arts for Women, Pudukkottai	1996
2.	M.Sc.,	Government Arts for Women, Pudukkottai	1998
3.	M.Phil.,	Madurai Kamaraj University	2001
4.	PGDCA	Bharathidasan University	1997
5.	SLET	Bharathidasan University	2000
6.	Ph.D	Bharathidasan University	2015

III. TEACHING EXPERIENCE

S.NO	PREVIOUS TEACHING EXPERIENCE WITH NAME OF THE INSTITUTION	YEAR OF EXPERIENCE
1.	Government Arts College for women ,Pudukkottai	2
2.	Pavendar Bharathidasan Engineering College,Trichy	1
3.	Sudharasan Engineering College,Pudukkottai	2
4.	SDNB Vaishnav College ,Chennai	5
5.	SDNB Vaishnav College ,Chennai	9(Regular Appointment)

IV. RESEARCH ACCOMPLISHMENTS

ORIENTATION/REFRESHER/MOOCs /FDP/ TRAINING PROGRAMMES ATTENDED			
S.N O.	DATE	NAME OF THE COURSE/PROGRAMME	NAME OF THE INSTITUTION/UNIVERSITY
1.	20.08.2009 To 16.09.2009	Orientation Programme	Madras University
2.	11.11.2010 To 01.12.2010	Refresher Course in Mathematics	Madras university
3.	13.07.2018 To 02.08.2018	Refresher Course in Mathematics	Bharathidasan University
4.	21.01.2020 To 03.02.2020	Refresher Course in Mathematics	Madurai Kamaraj University

NATIONAL/INTERNATIONAL SEMINAR, WEBINAR, WORKSHOP, CONFERENCE & SYMPOSIUM ATTENDED				
S.NO	DATE	TITLE	EVENT NAME	INSTITUTION NAME
1.	29 .01.2010 & 30.01.2010	International conference on research trends in Applications of Mathematics	Conference	Dr.MGR Janaki College of Arts and Science for Women, Chennai.
2.	07.08.2010 To 09.09.2010	International workshop on Graph coloring and its Applications	workshop	Bharathidasan University ,Trichy
3.	22.12.2010	National Conference on Recent Trends in Mathematics and its Applications	Conference	Alagappa University
4.	28 .01.2011 & 29.01.2011	National Conference on Recent Advances in Pure and Applied Mathematics	Conference	Govt. Arts College for Women,Pudukkottai
5.	26 .02.2011 & 02.02.2011	National level workshop Text formatting with LATEX	workshop	SDNB Vaishnav College, Chennai
6.	08.11.2011	Second India –Taiwan Conference on Discrete Mathematics	Conference	Amirta VishwaVidyapeetham, Coimbatore.
7.	0 9.11.2012	National Conference on Theoretical Computer Science and Discrete Mathematics	Conference	Kalasalingam University, Krishnankoil
8.	0 9.10.2012	International Conference on Mathematics in Engineering and Business Management	Conference	Stella Maris College, Chennai.
9.	0 6.07.2012	National Conference on Frontiers in Applied Sciences & Computer Technology.	Conference	National Institute of Technology ,Trichy.
10.	05.09.2017	Quality of Higher Education in Changing Times	Seminar	The American College
11.	07.11.2017	One day workshop on Stress and Coping skills in the context of Higher Education	workshop	Madurai Kamaraj University
12.	02.01.2018	One day workshop on “NPTEL(National Programme on Technology Enhanced Learning)	workshop	Thiagarajar College of Engineering Madurai
13.	25.01.2018 To 08.01.2018	Training Programming on Academic Leadership	Training program	Crescent College of Education for Women’s Madurai

14.	31.08.2018	Adoption, Promotion & production of MOOCs for swayam plattform	Work shop	South Eastern Regional Office, University Grants Commission, Hyderabad at Maulana Azad National Urdu University, Gachibowli, Hyderabad.
15.	10.03.2019	Training Programme on EAT Module of Public Financial Management System(PFMS) for HEI's	Training Programme	South Eastern Regional Office, University Grants Commission, Hyderabad at Loyola College (Autonomous), Chennai
16.	25.07.2019	National Colloquium on Draft National Education Policy 2019	colloquium	St. Joseph's College, Tiruchirapalli.
17.	27.07.2019	Reforms in Curriculum Design and Evaluation based on OBE	Workshop	The standard Fireworks Rajaratnam College for Women(A) Sivakasi
18.	16.04.2020	Development of Higher Education in Indian- An overview	Webinar	by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi
19.	20.04.2020	Roles of teachers in technology driven in Higher Education	Webinar	Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi
20.	24.04.2020 To 30.04.2020	Online National Workshop on Basics of Documentation using Latex	Workshop	Stella Maris College (Autonomous), Chennai
21.	01.05. 2020	Towards Excellence in Higher Education in India in 21 st century: Challenges and Opportunities”	Webinar	SGTB Khalsa College, University of Delhi

22.	13. 05.2020	Teaching, Learning and Evaluation through Google Classroom	Webinar	SRI G.V.G. VISALAKSHI COLLEGE FOR WOMEN (Autonomous) , Udumalpet
23.	21.05.2020 To 30. 05.2020	Multimedia enriched in e content development	Webinar	Guru Angad Dev Teaching Learning Center, SGTB Khalasa College, University of Delhi
24.	28.05.2020 & 29.05.2020.	Online Faculty Development Programme on Integrating SWAYAM MOOCs & Educational Apps in	FDP	S.D.N.B Vaishnav College for Women, Chennai
25.	15.06. 2020	New Approach To Curricular Design & Simplified Path Way To Outcome Based Education”	Webinar	E.M.G.Yadava Women’s College, Madurai
26.	05.08.2020 & 06.08.2020	Entrepreneur as a career	FDP	E.M.G.Yadava Women’s College, Madurai
27.	25.08.2020 To 10.09,2020	Managing Online Classes And Co-Creating Moocs 3.0	FDP	Teaching Learning Centre, Ramanujan College, University of Delhi
28.	10.11..2020	NAAC Re accreditation process during after post covid scenario	Webinar	Yadava College, Madurai
29.	18.11.2020	Professional ethics for Teachers	FDP	Sri Sarada College for Women, Salem
30.	04.12. 2020	Enhancing E content on Teaching and Learning	FDP	E.M.G Yadava Women’s College, Madurai

31.	05.12. 2020	Research Proposal Writing and Funding Opportunities	Webinar	E.M.G Yadava Women's College, Madurai
32.	10.05.2020 & 11.05.2020	Rural Women Entrepreneurship: Challenges And Opportunities	Conference	E.M.G Yadava Women's College, Madurai
33.	27.05.2021 To 31.05. 2021.	Recent Trends in Domination and Graph Labelling	Conference	Ramanujan College, University of Delhi in collaboration with Academy of Discrete Mathematics and Applications
34.	25.05.2020 & 26.05.2020	Role of Faculty in moulding students		HKBK degree College, Bangalore
35.	14.06.2021 To 16.06.2021	Open Board, Smart Notebook & Microsoft Math	FDP	Dawaraka Doss Goverdhan Doss Vaishnav College, Chennai
36.	28.06.2021	Statistics In Research Data Analysis	Webinar	Noorul Islam Centre for Higher Education, Kumaracoil
37.	29.06. 2021 To 03.07.2021	Five days National level virtual Faculty Development Programme on Graph theory	FDP	Christ College of Science and Managment, Karanataka
38.	05.07.2021 To 09 .07.2021	Data Analytic s using R	Workshop	G.T.N Arts College, Dindigul collaboration with Arul Anandar College, Karumathur

39.	29.10.2021 & 30.05. 2021.	Research Methodology & Statistical Analysis Using SPSS	Webinar	The New College (Autonomous), Chennai
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NATIONAL/INTERNATIONAL SEMINAR, WEBINAR, WORKSHOP, CONFERENCE & SYMPOSIUM ORGANISED			
S.N O	DATE	TITLE	EVENT NAME
1.	27.02.2018	“Curriculum Development”(under UGC Autonomous Grant)	Seminar
2.	10.06.2020	Tactics to crack CSIR-NET-JRF Exam in Mathematics	Webinar
3.	20.06.2020 & 21.06.2020	Two Days Workshop on Operation Research	Online workshop
3.	06.07. 2020	The Best way to learn Mathematics is to do Mathematics	webinar
4.	20.07.2020 To 24.07.2020	Short Term Online Course on Latex with Tex maker	Short Term Course
5.	29.07.2020 To 01.08.2020	Short Term Online Course on CSIR-NET/SET Preparation Strategy & Study Plan	Short Term Course
6.	27.07.2020 To 31.07.2020	Short Term Online course on Programming Language C++	Short Term Course
7.	20.09.2021 To 24.09.2021	R Programming	Staff Exchange program
8.	27.09.2021 To 01.10.2021	How to crack SET?CSIR – NET in Mathematics	Staff Exchange program
9.	04.10 2021	How assertive are you ?	Skill development program
4.	20.10.2021 To 25.10.2021	One week workshop on Basis of Documentation using Latex	Workshop
9.	22.12.2021	Successful career planning for Maths Graduates	Webinar

ACTED AS RESOURCE PERSON IN OTHER INSTITUTION				
S.NO	DATE	TITLE OF THE PROGRAMME/ EVENT NAME	NAME OF THE INSTITUTION	DISTRICT/STATE/NATIONAL/INTERNATIONAL
1.	08.01.2019	Application of Graph Theory	Sri Meenakshi Government College for Women, Madurai	District
2.	14.12.2020	Research overview in Domination Theory	PSGR Krishnammal College, Coimbatore	District
3.	09.06.2021	Inverse Domination Theory	Sri Bharathi Arts & Science College for Women, Pudukkottai	National
4.	22.06.2021	Number Theory and Cryptography	Government Arts College for Women, Pudukkottai	District
5.	23.11.2021	Fibonacci sequence in plants	E.M.G. Yadava Women's College, Madurai	District

ARTICLES PUBLISHED IN JOURNALS / MAGAZINES

S.NO	TITLE WITH (DOI)	NAME OF THE JOURNAL/MAGAZINE	NATIONAL/INTERNATIONAL	IMPACT FACTOR	SCOPUS	CITATION INDEX	h-index	VOLUME, ISSUE, MONTH & YEAR
1.	Complementary Tree Domination of a Graph	International Mathematical Forum Vol.6 2010, No.26, 1273-1283	International	-	-	30	2	2011
2.	Complementary Tree Domination in Grid Graphs	International journal of Engineering Science, Advanced computing and Bio-technology, vol.2, No.3 Jul-sep 2011,pp.118-129	International	6.814	2	-	-	2012
3.	Total Complementary Tree Domination in Grid Graphs	International journal of mathematics and soft computing, vol.3,No(2013),pp.107-114	International	5.636	3	-	-	2013
4.	Complementary Tree Domination Number and Chromatic Number.	International journal of Mathematics and scientific computing no.1.vol.1 2011	International	5.636	1	-	-	2011
5..	Extended Results On Complementary Tree Domination Number And Chromatic Number.	International J.Math.Combin.Vol.3 (2015),116-124.	International	1.235	-	-	-	-
7.	Cubic Graphs with Equal Complementary Tree Domination Number and Chromatic Number	ElixirAppl.Math56.(2013) 13359-62	International	6.865	-	-	-	-

8.	More results on complementary tree domination of Graphs	International Journal of Mathematics and its Applications, Vol.4, Issue 1-D(2016),17-20.	International	-	-	-	-	-
9.	Complementary Tree Domination in Splitting Graphs of Graphs.	International Journal of Mathematics Trends and Technology- Vol.31 No.2 March 2016.	International	-	-	-	-	-
10.	Chromatic Complementary Tree Domination in Graphs	International Journal of Innovative Research and Advanced Studies.Vol.3, Issue 4, April 2016.	International	-	-	-	-	-
11.	Connected Complementary Tree Domination Number of Graphs.	EPRA International Journal of Research and Development, Vol.1, Issue 3 ,May 2016.	International	-	-	-	-	-
12.	Total Complementary Tree Domination Number of Graphs.	EPRA International Journal of Research and Development, Vol.2, Issue 5 May 2016.	International	-	-	-	-	-
13.	Total and Connected Complementary tree domination number of Unicyclic Graphs	EPRA International Journal of Research and Development ,Vol.1,Issue 3 ,May 2016.	International	-	-	-	-	-
14.	Complementary Tree Domination in Unicyclic Graphs	International Journal of Mathematics and its Applications, Vol.4,Issue 3 May (2016),	International	-	-	-	-	-

15.	Total and Connected Complementary Tree Domination in Uni cyclic Graphs	EPRA International Journal of Research and Development, Vol.2 ,Issue 5 May 2016.	International	-	-	-	-	
16.	Changing and Unchanging of Complementary tree domination Number in Graphs	International Journal of Mathematics and its Applications, Vol.4, Issue 1-D(2016),7-15.	International	-	1	-	-	-
17.	More Results on Complementary Tree Domination Number of Graphs	International Journal of Mathematics and its Applications ,Vol.4,Issue 1-D(2016),17-20.	International	-	-	-	-	Vol.6,number 1-B(2018), 205-208.
18.	Inverse Complementary Tree Domination Numbers of Graphs	International Journal of Mathematics and its Applications (UGC Approved) vol.6 number1-B (2018),205-208.	International	-	-	-	-	Vol.6,number 1-C(2018), 509-513
19.	Inverse complementary trees Domination numbers of Total Graphs Pn and Cn	International Journal of Mathematics and its Applications (UGC Approved) vol.6 number 1-C(2018),509-513.	International	-	-	-	-	ISSN 2349-5162 ,Vol.6,issue 1, page no.31-37 January 2019
20.	Complementary tree domination number in Jahangir graphs	Journal of Emerging Technologies and innovative Research- January 2019, Volume 6, Issue 1, page no.12-16	International	-	-	-	-	ISSN 2349-5162 ,Vol.6,issue 1, page no.12-16 January 2019

21.	Complementary Tree Domination Number of Semi total Point Graph	The International Journal of Analytical and experimental modal analysis Volume XII, Issue I, page no. 686-689.	International	-	-	-	-	Vol.XII,issue I,January 2020.
22.	Complementary tree domination number in subdivision of graphs	Journal of emerging Technologies and innovative Research- January 2019, Volume 6, Issue 1, page no.31-37.	International	-	-	-	-	2019
23.	Complementary tree domination of corona product of cycle C_n with some standard graphs	Design Engineering	International	-	-	-	-	-

GRANTS RECEIVED FOR RESEARCH PROJECTS - SEED MONEY/ MINOR/MAJOR/ NGOs/ AGENCIES etc.

S.NO	YEAR	TITLE OF THE PROJECT	NAME OF THE FUNDING AGENCY	GRANT RECEIVED	STATUS (APPROVED/ ONGOING/ COMPLETED)
1.	2012-2014	Complementary tree domination of a Graph and its structural properties	University Grand Commission, Hyderabad	85000/-	Completed

RESEARCH SUPERVISOR

S.NO	NAME OF THE RESEARCH	RESEARCH TITLE/ AREA OF SPECILIZATION	NO. OF SCHOLARS	
			ONGOING	COMPLETED
1	Ph.D	Domination Theory	3	-
2	M.Phil	Graph Theory	-	10

PUBLICATION OF BOOK/ BOOK CHAPTERS / MONOGRAPH / PAPERS PUBLISHED IN CONFERENCE/ PROCEEDINGS						
S.NO	TITLE OF THE BOOK/ CHAPTERS/ PROCEEDINGS	TITLE OF THE PAPER	NATIONAL/ INTERNATIONAL	PUBLISHER DETAILS	ISBN/ISSN OF THE PROCEEDINGS	YEAR
1.	Proceedings UGC Sponsored International Conference on mathematics in engineering and business management(ICMEB)	Domotic Partition in Complementary Tree Domination of a Graph	-	-	Vol1,pp.130-132,ISBN:978-81-8286-015-5	2012
1	Graph Theory	-	-	Garuda learning publication	ISBN No.978-93-803671-6-3	2018
2	Mathematical Handbook Of Formulas			Veda Publication		2020

LEADERSHIP/TEAM WORKING SKILLS			
S.NO	CELL/CLUB/COMMITTEE/ASSOCIATION	POSITIONS HELD (NODAL, COORDINATOR/ ASSISTANT COORDINATOR /MEMBER)	DURATION MONTH/YEAR
1.	e documentation committee	-	2017-2018 2018-2019 2019-2020
2.		NIRF coordinator	2018-19
3.		Swayam coordinator	2018-19
4.		MoU Coordinator	2020-2021 2021-2022

POSITIONS HELD AT OTHER INSTITUTIONS (BOS, ACM etc.,)			
S.NO	NAME OF THE INSTITUTION	POSITIONS HELD	DURATION MONTH/YEAR
1.	BOS member in SDNB Vaishnav College, Chennai	Subject Expert	2 years 2019 -2020 & 2020-2021

V. INNOVATIVE TEACHING SKILLS

ICT ENABLED TEACHING METHODS	
S.N O	
1.	Word processing, spreadsheets, data logging, databases ,email, smart boards interactive white board and internet browsing

e- CONTENT DEVELOPED				
S.N O	DATE	TITLE	SOCIAL NETWORK (YouTube, Slideshare, Blog, MOOCs, Others)	LINK
1.	20 .01. 2021	Introduction To Differential Equation	You tube	https://youtu.be/oW4Wy-ccDUo
2	19.01.2021	Exact Differential Equation	You tube	https://youtu.be/BKswDbYKfGs
3	25.01.2021	Non Exact Differential Equation	You tube	https://youtu.be/3GpyOASUnBY
4	13.12.2020	Basic Definitions Of Graph Theory	You tube	https://youtu.be/B6UfbVUilv0
5	20.09.2020	C Programming - Arrays	You tube	https://youtu.be/g0MaFRIKElg
6	20.08.2020	Simple Programs In C	You tube	https://youtu.be/QakQwLjkdw
7	18.08.2020	Some Properties Of Group	You tube	https://youtu.be/uuqJtja3Sw
8	18.08.2020	Input & Output Functions In C Program	You tube	https://youtu.be/VYWn8xAFuKc
9	11.08.2020	Identifiers, Keywords, Constants And Variables- C Program	You tube	https://youtu.be/mQj5PyTel0c
10	10.08.2020	Examples Of Group - Modern Algebra	You tube	https://youtu.be/NuNq_3LSAQ
11	10.08.2020	Structure Of C Program	You tube	https://youtu.be/0CmDXpULZ1M
12	10.08.2020	Basics Of Algebra	You tube	https://youtu.be/0CmDXpULZ1M
13	1.09.2020	Dominating Set	You tube	https://youtu.be/zr1u4H-t9hs

VI. COLLABORATIVE ACTIVITIES

COLLABORATIVE TEACHING ACTIVITIES IN OTHER INSTITUTION/AGENCY (MoU, etc.,)			
S.NO	DATE	TITLE	NAME OF THE INSTITUTE
1.	20.09.2020 To 29.09.2020	Workshop on R programming	Sri Kaliswari College, Sivakasi

COLLABORATIVE ACTIVITIES IN OTHER INSTITUTION – EXTENSION/ CONSULTANCY			
S.NO	DATE	TITLE	NAME OF THE INSTITUTE/CORPORATE/ ADOPTED VILLAGE
1.	20.10.2021 To 25.10.2021	Latex	Consultancy Program

VII. COMPUTER SKILLS

COMPUTER LANGUAGE/TECHNICAL SKILLS	
S.NO	
1.	MS Office
2.	C programming
3.	R programming
4.	Free cam
5.	OBS studio

VIII. LANGUAGE PROFICIENCY

S.NO	LANGUAGE	SPEAK	READ	WRITE
1.	Tamil	✓	✓	✓
2.	English	✓	✓	✓