Vivekananda College, Tiruvedakam West, Madurai, Tamil Nadu VC / DBT-SCS / 2021-2022/ Report –Outreach Activities

# HAND HEATT HEAD

# VIVEKANANDA COLLEGE

(Residential & Autonomous – A Gurukula Institute of Life – Training) College with Potential for Excellence

Re-accredited with "A" Grade (CGPA 3.59 out of 4.00) by NAAC Affiliated to Madurai Kamaraj University, Managed by Sri Ramakrishna Tapovanam, Tirupparaitturai, Trichy



Tiruvedakam West, Madurai District-625 234, Tamil Nadu DBT STAR COLLEGE SCHEME

Department of Biotechnology, Government of India, New Delhi

# Chairman & Principal : Dr. T. Venkatesan, M. Com., B.Ed., M.Phil., PGDCA., Ph.D

# Coordinator & Member Secretary : Dr. G. Ponraj, M.Sc., M.Phil., Ph.D

Webinar On "Applications Of Mathematics" Outreach Activities For School Teachers

## **Whatsapp Communications**

Warm Greetings from Department of Mathematics, Vivekananda College, Tiruvedakam West, Madurai-625234, Tamil Nadu.

We are very happy to inform you that our Department is Organizing "WEBINAR ON "APPLICATIONS OF MATHEMATICS" for School Teachers *under outreach Activities for School Teachers* - DBT Star College scheme.

Date & Time: 28.01.2022 (Friday)

Session – I : Time 11.30 AM to 12.30 PM RESOURCE PERSON Dr. R. Uthayakumar Professor Department of Mathematics Gandhigram Rural Institute-Deemed University Dindigul-624302.

## Session – II: Time 02.30 PM to 04.00 PM

RESOURCE PERSON Dr. S. Raja Associate Professor Department of Mathematics AMRITA College of Engineering and Technologies Nagarcoil-629902.

- No Registration Fee
- E- Certificate will be provided to all the Participants

Registration link: <u>https://forms.gle/wM9Co1CmPrTTz3N27</u> Google Meet Link: <u>https://meet.google.com/mng-mski-jmi</u>

With Regards, Dr.G. Sanjeevi Associate Professor, Head of Department Organizing Coordinator Members Dr C. Rajan, Assistant Professor Sri M. Nagaraj, Assistant Professor Cell.9894017106 Sri C. Velmurugan, Assistant Professor Cell.9688215952 Dr R. Kalaivanan, Assistant Professor Cell.9626774722 Kindly Fill the feedback form for receiving your Participation certificate: Thank you Feedback Form: <u>https://forms.gle/TadFJsYoXQjoEmjX8</u>



$\leftarrow \rightarrow \circ$	🔒 docs.google.com/forms/d/1pSWGZfkj5Tinu9ZU0x_BeLKBOsUr3blyIzaF8gmU 🔍 🖄 🛧	<b>M</b> :
📰 Webinar on */	APPLICATION OF MATHEMATICS" ( 🗖 🚖 All changes saved in Drive 💭 😳 🏵 5 C Send : Questions Responses 🖽 Settings	
	Registration Form: Webinar on "APPLICATION OF	
	MATHEMATICS" Tr We are very happy to inform you that our Department is Organizing "WEBINAR ON "APPLICATIONS OF	
	MATHEMATICS' for School Teachers under outreach Activities for School Teachers - DBT Star College scheme. Date & Time: 28.01.2022 (Friday) Session – I: Time 11.30 AM to 12.30 PM RESOURCE PERSON Dr. R. Uthayakumari Professor Department of Mathematics	

Feedback Submission:				
	🗉 Feedback Form 🗙 🚹 F	Feedback Form ×   + · ·		
← → C  a docs.google.com/forms,	/d/1BaucGh_ag6A1OPefNtAwJ	lsjOjhBjD49Nfk2diPuV Q 🖻	🖈 M 🗄	
😑 🛛 Feedback Form: Webinar  🗖 🏠	All changes saved in Drive		E 🚺 🗍	
G	uestions Responses 70 Set	tings Total points:	0	
70 responses		<b>•</b> :		
		Not accepting responses		
Message for respondents				
This exam is not currently accept	ing submissions. Please check back	again later.		
Summary	Question	Individual		
Insights				
Average	Median	Range		
0 / 0 points	0 / 0 points	0 - 0 points	0	
🌌 Start [ 🚞 😥 💽 🚱 🕼	i 🖾 🐼 🚱	🧓 🕼 🕪	9:41 AM 29-Jan-22	

## **1. Resource Persons Details:**

M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,

- (i) Name
- Dr.R.Uthayakumar
- (ii) Designation : Professor, Gandhigram Rural university Dindigul.
- (iii) Qualification :
- (iv) Experience : 24 years

:

:

:

- (v) Specialization
- (vi) Email id

Fractal Theory, Operations Research, Inventory Management and Control uthayagri@gmail.com

(vii) Research Guidance:

Degree	Awarded	Guiding
M.Phil	66	-
Ph.D	12	8

## (viii) Publications

Sl.No.	Category	Total	For the period(2010-2016)
1.	Books	3	1
2.	Chapters in Books	1	1
3.	No. of papers in Edited Volume /Proceedings	69	40
4.	No. of Publications in International and National Journal	134	91

### (ix) Sponsored Projects

Major Projects handled so far		Major Projects handled during 2010-2015	
Nos.	Financial Outlay	Nos.	<b>Financial Outlay</b>
5	Rs.47,40,988	4	Rs.40,14,188

#### (x) Details of Projects (2010-16)

S. No.	Title of the Project	Funding Agency	Duration	Total Amount in lakhs
1.	Fractal Analysis of Brain Tumor Detection and Growth Estimation	UGC	01.04.2013 to 31.05.2017	Rs.9.26
2.	Optimal Decision Making through Inventory and Supply Chain Modeling in Healthcare Industries	CSIR, New Delhi	01.10.2013 to 31.09.2016	Rs.9.04

4.Mathematical Modeling of Multi-Item, Multi-Echelon Supply Chain System in Stochastic EnvironmentDST-SERB, New Delhi01.08.2014 to 30.07.2018Rs.12.00(x) Seminars/Conferences/Workshops organized (2010-16):3(xi) Seminars/Conferences/Workshops attended (2010-16):57(xii) Awards and Honours (2010-16):2(xiii) Invited talks in National / International Conference (2010-16):11(xiv) Visits abroad (2010-16):Sri Lanka from 09.08.2010 to 20.10.2010.(xv) Additional responsibilities (2010-16):Served as a Deputy Coordinator for the UGC- SAP (DRS-I), UGC-SAP (DRS-II), UGC-SAP (DSA-I), and FIST (DST) Programmes.		3.	Mathematical Modelling for Optimizing the Inventory Costsin a Stochastic Environment with Trade Credit and Service Level Constraint	NBHM, Mumbai	01.04.2014 to 31.03.2017	Rs.9.84	
(xi) Seminars/Conferences/Workshops attended (2010-16):57(xii) Awards and Honours (2010-16):2(xiii) Invited talks in National / International Conference (2010-16):11(xiv) Visits abroad (2010-16):Sri Lanka from 09.08.2010 to 20.10.2010.(xv) Additional responsibilities (2010-16):Served as a Deputy Coordinator for the UGC-SAP (DRS-I), UGC-SAP (DRS-II), UGC-SAP		4.	Multi-Item, Multi-Echelon Supply Chain System in	· · · · · ·	to	Rs.12.00	
	(xi) Seminars/Conferences/Workshops attended (2010-16):57(xii) Awards and Honours (2010-16):2(xiii) Invited talks in National / International Conference (2010-16):11(xiv) Visits abroad (2010-16):Sri Lanka from 09.08.2010 to 20.10.2010.(xv) Additional responsibilities (2010-16):Served as a Deputy Coordinator for the UGC-SAP (DRS-I), UGC-SAP (DRS-II), UGC-SAP						

# 2. Resource Person Details

Name: Dr. S. Raja M.Sc., Ph.D Assistant Professor Department of Mathematics Amrita College of Engi and Tech Nagarcoil

## **Qualification:**

- 1. Ph. D (Full time) from Manonmaniam Sundaranar University, Tirunelveli, March 2013.
- 2. M. Sc (Mathematics) from Manonmaniam Sundaranar University, Tirunelveli (2006 2008)
- 3. B. Sc (Mathematics) from CSI Jayaraj Annapackiam College, Manonmaniam Sundaranar University (2002 2005)

## **Total Experience in Teaching: 8years 10 months**

## **Total Experience in Research: 4 Years 4 Months**

Department of Mathematics, Manonmaniam Sundaranar University, Tirunelveli	3 Years 11 Months	UGC- Basic Science Research Fellow
Department of Mathematics,		University
Manonmaniam Sundaranar	4 Months	Stipendiary
University, Tirunelveli		<b>Research Fellow</b>

## **ROLES & RESPONSIBILITIES**

IQAC- Coordinator Head of the Department Research Officer, Research and Development Association Coordinator IIRS Nodal Coordinator Admission Coordinator **PUBLICATION DETAILS** 

Total Number of Published Paper 12

No of Papers in SCI	3
No of Papers in Scopus	4
No of Papers in web of science	4
No of Papers in UGC approved Journal	5
No of paper communicated	7
Cumulative Impact Factor	15.497
Research Gate Score	7.91
Editorial Board Member	

✓ SCIREA Journal of Mathematics (Pure and Applied Mathematics).

### Life Time Member:

- ✓ Academy of Discrete Mathematics and Applications (ADMA).
- ✓ International Society of Research and Development (MISRD).
- ✓ International Association of Engineers (IAENG).

# **Event Report**

Department of Mathematics, Vivekananda College, Tiruvedakam West, Madurai was organized the **WEBINAR ON "APPLICATIONS OF MATHEMATICS"** on **28.01.2022**, Friday with the financial support from **DBT STAR COLLEGE SCHEME.** This webinar helps the School Teachers to improve their basic Mathematics skills and also they learn its applications in various real life field.

In the Inaugural Ceremony, **Dr. G. Sanjeevi**, Head, Department of Mathematics, Vivekananda College, Convener of the webinar welcomed the participants. **Swami Vedananda Maharaj**, Secretary of Vivekananda College and Swami **Adhyatmananda Maharaj**, Kulapathi, Vivekananda College blessed the participants.

**Dr.T. Venkatesan**, Principal, Vivekananda College presided over the inaugural function and in his presidential address; he highlighted the significance of the webinar.

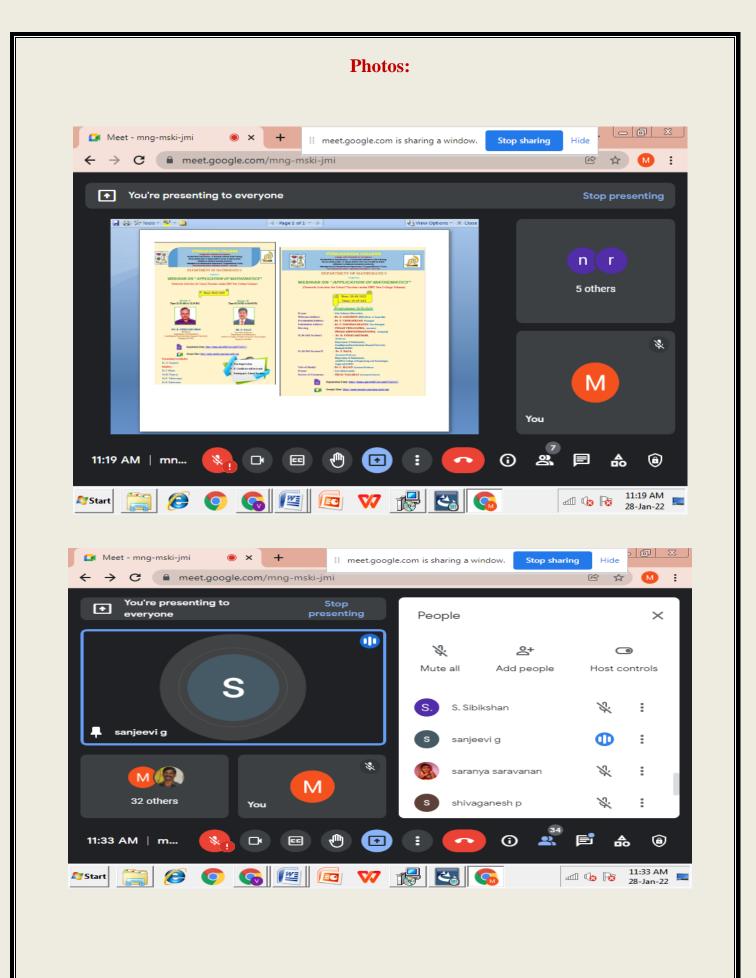
**Mr. C. Velmurugan** Assistant Professor of Mathematics, Vivekananda College, organized the webinar and Dr. C. Rajan, Assistant Professor of Mathematics, Vivekananda College proposed the vote of thanks.

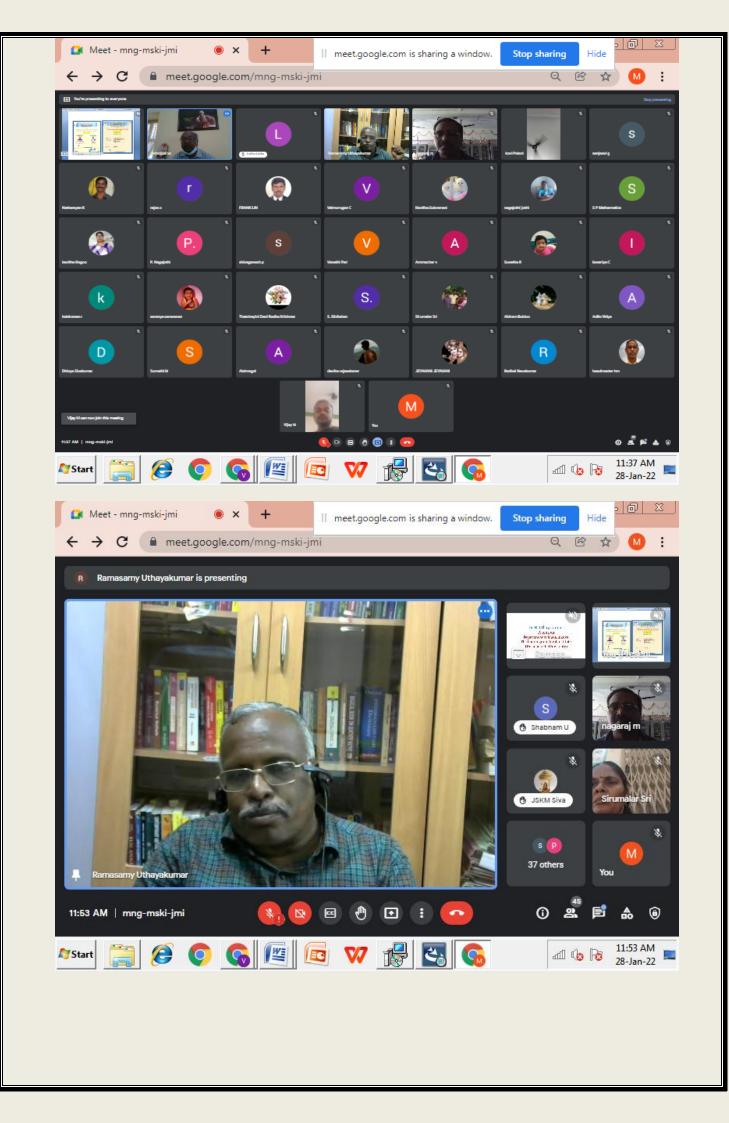
In the first Technical Session, Dr.R.Uthayakumar, Professor, Department of Mathematics, Gandhigram Rural university Dindigul acted as a resource person and delivered lecture of "applications of mathematics". This Lecture covers Recent trends in applications of mathematics especially in the field of fractal and inventory control and also he taught various applications of basic mathematics which involved in school level syllabus such as differentiation, integration, vector, Algebra and Trigonometry.

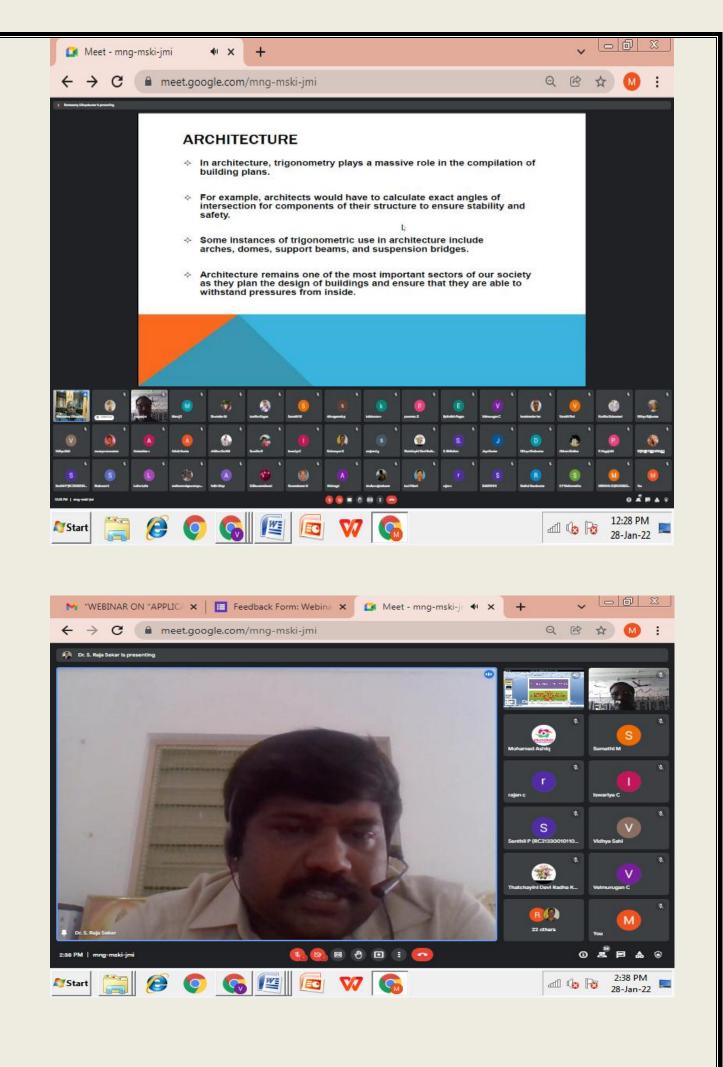
In the second Technical Session, **Dr. S. Raja**, **Assistant Professor**, **Department of Mathematics**, **Amrita College of Engi and Tech**, **Nagarcoil** acted as a resource person and delivered lecture of "applications of mathematics". This lecture covers formation of school Syllabus and Recent trends in applications of mathematics especially in the field of Golden ratio, Fibonacci series and cryptography. Also he taught various applications of basic mathematics which involved in school level syllabus such as Matrix, function, Set theory etc.

Totally out of more than 200 registrations 70 School Teachers were participated and benefitted from this workshop.

Convener Dr. G.SANJEEVI Principal Dr. T. VENKATESAN







VIVEKANANDA COLLEGE College with Potential for Excellence Residential & Autonomous - A Gurulcula Institute of Life - Training Re-accredited with 'A' Grade (CGPA 3.59 out of 4.00) by NAAC Affiliated to Madurai Kamaraj University Affiliated to Madurai Kamaraj University (Managed by Sri Ramakrishna Tapovanam, Tirupparaitturai, Trichy) Tiruvedakam West, Madurai - 625234, Tamilnadu. DEPARTMENT OF MATHEMATICS WEBINAR ON "APPLICATIONS OF MATHEMATICS" (Outreach Activities for School Teachers under DBT Star College Scheme) This is to certify that Dr. S. Raja, Assistant Professor, Department of Mathematics, Amrita College of Engineering and Technology, Nagarcoil – 629901, Kanyakumari has acted as a Resource person and delivered lecture on "Applications of Mathematics" in the webinar Outreach Activities for School Teachers under DBT Star College Scheme organized by the Department of Mathematics, Vivekananda college, Tiruvedakam west, Madurai-625234 held on 28<sup>th</sup> January 2022. grayeen Dr. T. Venkatesan Dr. G. Sanjeevi HOD Principal C VIVEKANANDA COLLEGE Colleg Residential & Autonor Re-accredited with 'A Affiliated () (A mous - A Gurukul A' Grade (CGPA 3. stitute of Life - Training at of 4.00) by NAAC Re-accredited with 'A' Grade (CGP) Affliated to Madurai Ka (Managed by Sri Ramakrishna Tapor Tiruvedakam West, Madurai maraj University anam, Tirupparaitturai, Trichy) - 625234, Tamilnadu. DEPARTMENT OF MATHEMATICS WEBINAR ON "APPLICATIONS OF MATHEMATICS" (Outro This is to certify that Dr. R. Uthayakumar, Professor, Department of Mathematics, Gandhigram Rural Institute-Deemed University, Dindigul-624302. has acted as a Resource person and delivered lecture on "Applications of Mathematics" in the webinar Outreach Activities for School Teachers under DBT Star College Scheme organized by the Department of Mathematics, Vivekananda college, Tiruvedakam west, Madurai-625234 held on 25<sup>th</sup> January 2022. Dr. T. Venkatesan graycen SE Dr. G. Sanjeevi Principal HOD -

# State Level Seminar On "Recent Trends In Mathematics And Information Technology" Outreach Activities for College Teacher

#### **RESOURCE PERSONS:**

#### SESSION-1: PARTITIONED ALGEBRAS

Dr M. KAMARAJ Head and Associate Professor Department of Mathematics Government Arts and Science College Sivakasi - 626 124.

SESSION-2: SOME NEW ASPECTS OF FIXED POINT THEORY IN VARIOUS METRIC SPACES

#### Dr M. JEYARAMAN

Assistant Professor PG and Research Department of Mathematics Raja Duraisingam Government Arts College Sivagangai - 630 560

SESSION-3: GRAPH THEORY APPLICATIONS

Dr A. PRASANNA Assistant Professor Department of Mathematics Jamal Mohamed College Tiruchirappalli - 620 020

SESSION-4: FUZZY GRAPHS

Dr G. SANJEEVI Dean and Controller of Exan Head and Associate Professor Department of Mathematics Vivekananda College Tiruvedakam West - 625 234.

#### TARGET AUDIENCE:

Faculty Members from various Colleges, Universities, NITs, IITs, Engineering Colleges, other Institutions of Higher Education, Engineers & Scientists from Industry and R&D organizations.

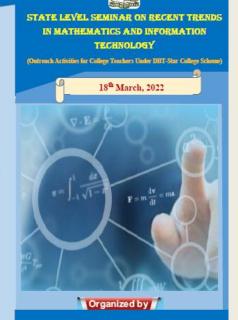
#### CONVENER:

Dr R. KALAIVANAN Assistant Professor (9626774722) ORGANIZING SECRETARY:

#### Dr G. SANJEEVI Head of the Department ORGANIZING MEMBERS:

Dr C. RAJAN Assistant Professor (9487322127) SRI M. NAGARAJ Assistant Professor (9894017106) SRI C. VELMURUGAN Assistant Professor (9688215952)

VENUE: AV HALL



#### DEPARTMENT OF MATHEMATICS VIVEKANANDA COLLEGE ntial & Autonomous- A Gurukula Institute for Life Training) College with Potential for Excellence (Re -accredited with "A"grade (CGPA 3.59/4 by NAAC) Tiruvedakam West, Madurai -625 234, Tamil Nadu, India

#### **1. Resource Person Details**

#### Name: Dr M. KAMARAJ,

Head and Associate Professor, **Department of Mathematics**, **Government Arts and Science College,** Sivakasi - 626 124

#### **Qualification:**

- 1. Ph. D in Mathematics from Madras University, Tamilnadu (1997)
- 2. Master of Philosophy in Mathematics- Madurai Kamaraj University, Tamilnadu (December 1991)
- 3. Master of Science in Mathematics Madurai Kamaraj University, Tamilnadu (April 1990)
- 4. Bachelor of Science in Mathematics V.H.N.S.N College. Viruthunagar (April 1988)

#### **Total Experience in Teaching: More than 26 years**

#### **PUBLICATION DETAILS**

Discipline/Area of specialisation : Mathematics, Algebra & Graph Theory

Number of Publications (International/National) :30 papers

# 2. Resource Person Details

Name: Dr M. JEYARAMAN,

Assistant Professor, PG and Research Department of Mathematics, Raja Doraisingam Government Arts College, Sivagangai - 630 560

# **Qualification:**

1. Ph. D in Mathematics

2. Master of Philosophy in Mathematics

3. Master of Science in Mathematics

4. Bachelor of Science in Mathematics

**Total Experience in Teaching: More than 20 years** 

# **PUBLICATION DETAILS**

Total Number of Published Paper10

## **3. Resource Person Details**

Name: Dr A. PRASANNA, Assistant Professor, Department of Mathematics, Jamal Mohamed College Tiruchirappalli - 620 020

## **Qualification:**

1. Ph. D in Mathematics - Jamal Mohamed College, Trichy/ Bharathidasan University (2015)

2. Master of Philosophy in Mathematics- PRIDE/ Periyar University, Salem (December 2008)

3. Master of Science in Mathematics - Jamal Mohamed College, Trichy/ Bharathidasan University (April 2006)

4. Bachelor of Science in Mathematics - Jamal Mohamed College, Trichy/ Bharathidasan University (April 2004)

**Total Experience in Teaching: More than 14 years** 

## **OTHER DETAILS**

M.Phil Guided: 14 Ph.D Guided: 2 Total Number of Published Paper: 66 Conference Paper Presentation: 25 Conference Participated: 77

## **4. Resource Person Details**

Name: Dr G. SANJEEVI, Dean and Controller of Examinations, Head and Associate Professor, Department of Mathematics, Vivekananda College, Tiruvedakam West - 625 234

**Qualification:** 

1. Ph. D in Mathematics - Madurai Kamaraj University, Madurai. (2019)

2. Master of Philosophy in Mathematics- Madurai Kamaraj University, Madurai (December 1992)

3. Master of Science in Mathematics V.H.N.S.N. College, Virudhunagar (April 1989)

4. Bachelor of Science in Mathematics - Vivekananda College, Tiruvedagam West. (April 1986)

**Total Experience in Teaching: More than 25 years** 

## **PUBLICATION DETAILS**

Total Number of Published Paper : 4 Conference Presentation : 4

# **Event Report**

Department of Mathematics, Vivekananda College, Tiruvedakam West, Madurai organized the **State Level Seminar on "RECENT TRENDS IN MATHEMATICS AND INFORMATION TECHNOLOGY"** on 18<sup>th</sup> March 2022, Thursday with the financial support from DBT STAR COLLEGE SCHEME for college teacher. This seminar helps undergraduate students to improve their Mathematics skills and also they learn innovation in modern sciences.

During the Inaugural Ceremony, **Dr. G. Sanjeevi**, Head, Department of Mathematics, Vivekananda College, Convener of the workshop welcomed the participants. **Swami Vedananda Maharaj**, Secretary of Vivekananda College, and **Swami Adhyatmananda Maharaj**, Kulapathi, Vivekananda College blessed the participants.

**Dr.T. Venkatesan**, Principal, Vivekananda College presided over the inaugural function, and in his presidential address; he highlighted the significance of the Seminar.

**Dr. R. Kalaivanan** Assistant Professor of Mathematics, Vivekananda College, organized the seminar, and **Dr. C. Rajan**, Assistant Professor of Mathematics, Vivekananda College, proposed the vote of thanks.

In the first Technical Session (10.15 AM to 11.15 AM), Dr M. KAMARAJ, Head and Associate Professor, Department of Mathematics, Government Arts and Science College, Sivakasi - 626 124 acted as a resource person and delivered the lecture on "PARTITIONED ALGEBRAS". This section covers fundamental concepts and applications of Partitioned Algebras. The students actively participated and learns many ideas from this section.

In the second Technical Session (11.30 AM to 12.30 PM), Dr M. JEYARAMAN, Assistant Professor, PG and Research Department of Mathematics, Raja Duraisingam Government Arts College, Sivagangai - 630 560 acted as a resource person and delivered a lecture on "SOME NEW ASPECTS OF FIXED POINT THEORY IN VARIOUS METRIC SPACES". In this section, students learn fixed point theory and its applications. The students actively participated and learn many things from this training.

In the third Technical Session (02.00 PM to 03.00 PM), **Dr A. PRASANNA, Assistant Professor, Department of Mathematics, Jamal Mohamed College Tiruchirappalli - 620 020** acted as a resource person and delivered a lecture on "GRAPH THEORY APPLICATIONS". In this section, students learn Graph theory and its applications. The students actively participated and learn many things from this training.

In the fourth Technical Session (03.00 PM to 03.45 PM), Dr G. SANJEEVI, Dean and Controller of Examinations, Head and Associate Professor, Department of Mathematics, Vivekananda College, Tiruvedakam West - 625 234 acted as a resource person and delivered a lecture on "FUZZY GRAPHS". In this



## Participant Certificate:

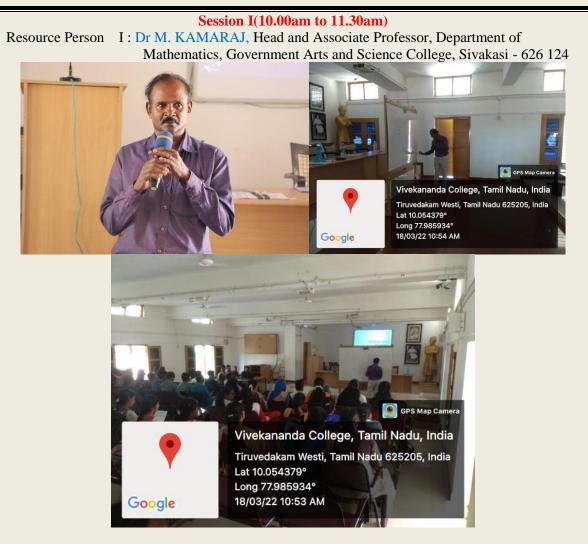


Photos:

#### **Inaugural Function:**

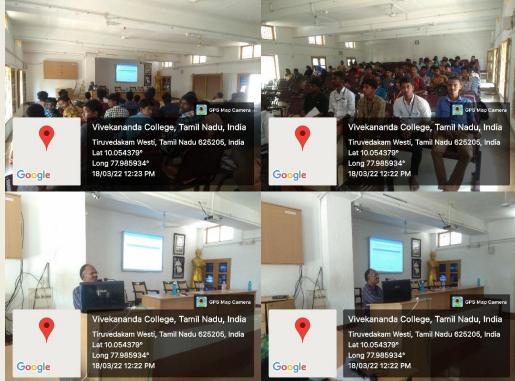






#### Session II (11.40am to 12.40pm)

Resource Person II : Dr M. JEYARAMAN, Assistant Professor, PG and Research Department of Mathematics, Raja Doraisingam Government Arts College, Sivagangai - 630 560



#### Session III (2.00pm to 3.00pm)

Resource Person III : Dr A. PRASANNA, Assistant Professor, Department of Mathematics, Jamal Mohamed College Tiruchirappalli - 620 020



#### Session IV (3.00pm to 3.45pm)

Resource Person IV : Dr G. SANJEEVI, Dean and Controller of Examinations, Head and Associate Professor, Department of Mathematics, Vivekananda College, Tiruvedakam West - 625 234



#### **Certificate Distribution** TT 💽 GPS Ma 💽 GPS M Vivekananda College, Tamil Nadu, India Vivekananda College, Tamil Nadu, India Tiruvedakam Westi, Tamil Nadu 625205, India Lat 10.054379° Tiruvedakam Westi, Tamil Nadu 625205, India Lat 10.054379° Long 77.985934° 18/03/22 04:02 PM Long 77.985934° 18/03/22 04:01 PM Google Google GPS Map Ca GP5 Map Ca Vivekananda College, Tamil Nadu, India Vivekananda College, Tamil Nadu, India Tiruvedakam Westi, Tamil Nadu 625205, India Tiruvedakam Westi, Tamil Nadu 625205, India Lat 10.054379° Lat 10.054379° Long 77.985934° 18/03/22 04:01 PM Long 77.985934° 18/03/22 04:01 PM Google Google GP5 Map Ca GPS Map Car Vivekananda College, Tamil Nadu, India Vivekananda College, Tamil Nadu, India Tiruvedakam Westi, Tamil Nadu 625205, India Tiruvedakam Westi, Tamil Nadu 625205, India Lat 10.054379° Lat 10.054379° Long 77.985934° Long 77.985934° 18/03/22 04:00 PM 18/03/22 04:03 PM Google Google

#### Vote of Thanks

