

Department of Mathematics, Profile 2021 - 2022

CHOICE BASED CREDIT SYSTEM

Choice Based Credit System for U.G and P.G (Mathematics) Programme

Credits

Each course is normally assigned one credit per lecture / tutorial per week and one credit for two periods or part thereof for laboratory or practical per week. Each semester curriculum shall normally have a blend of theory and practical course.

Duration of the Programme

A student is normally expected to complete M.Sc., (Mathematics) Programme in two years but in any case not more than seven years from the time of admission.

Registration for Courses

A newly admitted student will automatically be registered for the entire course prescribed for the first year without any option.

Every other student should submit a completed registration form indicating the list of course intended to be credited during the next semester. This registration will be done a week before the last working day of the current semester. Late registration with the approval of the department along recommendation of the head of the department along with a late fee will be done up to the last working day. Registration for the project work shall be done only for the final semester.

Assessment

The break – up of assessment and examination marks for the theory subjects is as follows:

First Assessment	: 15 Marks
Final Assessment	: 15 Marks

Department of Mathematics, Profile 2021 - 2022

Assignment/Attendance : 10 Marks

Examination : 60 Marks

The break – up of assessment and examination marks for the Practical subjects is as follows:

First Assessment : 15 Marks

Final Assessment : 15 Marks

Maintenance of Record Book : 10 Marks

Examination : 60 Marks

The project work will be assessed for 80 marks by the committee, consisting of the guide and a minimum of two members nominated by the head of the department.

One of the committee members will be nominated as the chairman by the head of the department. The head of the department may himself be a member or the chairman. 120 marks are allotted for the project work and viva voice examination at the end of the semester.

Student Counsellor

To help the students in planning the course of study and for general advice on the academic programme, the head of the department will attach a certain number of students to a member of faculty who shall function as student counsellor for those students throughout their period of study, Such student counsellor shall advise the student, preliminary approval for the courses to be taken by the students during each semester and obtain the final approval of the head of the department.

Class Committee

For all the branches of study during the first year, a common class committee will be constituted by the dean of the faculty from among the various teachers teaching the same common subject to different classes during the first year, the dean shall appoint one of them as course coordinator.

Department of Mathematics, Profile 2021 - 2022

All heads of the departments, among whom one may be nominated as chairman by the dean. The Dean may opt to be a member or the chairman.

For each of the higher semester, separate class committees will be constituted by the head of the department. The composition of the class committees from first to eighth semesters will be follows.

Course co-coordinators are appointed by the head of the department from among the staff members teaching the course.

A project co-ordinator (in the eighth semester committee only) who shall be appointed by the head of the department from among the project supervisors.

All the student counsellors of the class and the head of the department (if not already a member) or any staff member nominated by the head of the department may opt to be special invitees.

The meeting will be held within a week after the completion the first assessment to review the performance and for follow – up action.

The second meeting will be held within a week after the final assessment is completed to review the performance and for the follow – up action.

The third meeting will be held after all the assessments are completed for all the courses, and at least one week before on the commencement of the examinations. During the meeting assessment in a maximum, of 40 marks will be finalized for every student and tabulated and submitted to the head of the department for approval and transmission to the controller of examinations.

Withdrawal from a Course

A student can withdraw from a course at any time before a date fixed by the head of the department prior to the final assessment, with the approval of the dean of the faculty on the recommendation of the head of the department.

Temporary Break of Study

Department of Mathematics, Profile 2021 - 2022

A student can take a one – time temporary break of study covering the current year/ semester and /or the next semester with the approval of the head of the department, not later than after completion of the mid – semester test. However, the student must complete the entire programme within the maximum period of years.

Substitute Arrangement

A student, who has missed, for genuine reasons accepted by the head of the department, one or more of assessments of a course other than the examination, may take a substitute

Assessment for any one of the missed assessments. The substitute assessment must be completed before the date of the fourth meeting of the respective class committees.

A student who wishes to have a substitute assessment for a missed assessment must apply to the head of the department within a week from the date of the missed assessment.

Attendance Requirements

To be eligible to appear for the examination in a particular course, a student must get minimum of 80% in the course. However, if the attendance is 70% or above but less than 80% in any course, the authorities can permit the student to appear for the examination in the course on payment of the prescribed condition fees.

A student who withdraws from or does not meet the minimum attendance requirement in course must re-register for and repeat the course.

Passing and Declaration of Examination Results

All assessments of all the courses on absolute marks basis will be considered and passing by the results passing board in accordance with the rules of the university. Thereafter, the controller of examinations shall convert marks for each course to the corresponding letter grade as follows to compute the grade point average and cumulative grade point average, and prepare the grade cards.

Department of Mathematics, Profile 2021 - 2022

90-100 Marks	: S Grade
80-89 Marks	: A Grade
70-79 Marks	: B Grade
60-69 Marks	: C Grade
55-59 Marks	: D Grade
50-54 Marks	: E Grade
Less than 50 Marks	: F Grade
Insufficient Attendance	: I Grade
Withdrawn from Course	: W Grade

A student who obtains less than 24 marks out of 60 in the examination or is absent for the examination will be awarded grade „F “.

A student who earns a grade of S, A, B, C, D, or E for a course is declared to have successfully completed that course and earned credits for that course. Such a course cannot repeat by the student.

A student who obtains letter grade F in a course has to reappear for the examinations in that course.

A student who obtains letter grade I or W in a course has to re -register for and repeat the course.

The following grade points are associated with each letter grade for and repeat the point average and cumulative grade point average.

S - 10; A - 09; B - 08; C - 07; D - 06; E - 05; F - 0.

Course with grades I and W is not considered for calculation of grade point average or cumulative grade point average. F grade will be considered for computing GPA and CGPA.

A student can apply for re - totalling for one or more of his examination answer papers within a week from the date of issue of the grade sheet to the students on

Department of Mathematics, Profile 2021 - 2022

payment of prescribed fee per paper. The application must be made to the controller of Examinations with therecommendation of the head of the department.

After results are declared, grade cards will be issued to the students. The grade cards will contain the list of courses registered during the year / semester, the grades scored and the grade point average (GPA) for the year / semester.

GPA is the sum of the products of the number of credits of a course with the grade point scored in that course, taken over all the courses for the year/ semester, divided by the sum of the number of credits for all courses taken in that year / semester. CGPA is similarly calculated considering all the courses taken from the time of admission.

After successful completion of the programme, the degree will be awarded with the following classification based on CGPA.

For First Class with Distinction the student must earn a minimum of 200 credits within four years from the time of admission, pass all the courses in the first attempt and obtain a CGPA of 8.25 or above.

For First Class the student must earn a minimum of 200 credits within five years from the time of admission and obtain a CGPA of 6.5 or above.

For Second Class the student must earn a minimum of 200 credits within seven years from the time of admission.

Electives

Apart from the various elective courses offered in the curriculum of the branch of specification, a student can choose a maximum of three electives from any specialization under the faculty during the entire period of study, with the approval of the head of the department offering the course.

Department of Mathematics, Profile 2021 - 2022

EVENTS ORGANIZED BY THE DEPARTMENT

EVENTS ORGANIZED BY THE DEPARTMENT

REPORT OF NATIONAL WORKSHOP ON MEDICAL STATISTICS USING SPSS

Department of Mathematics organised National **WORKSHOP ON MEDICAL STATISTICS USING SPSS** on 10th March 2022.

The Program started with welcome address by **Dr.N.Saradha**, organizing secretary, Assistant Professor of Mathematics.

Dr.Vijayalakshmi, Asst. Professor of Mathematics introduce the Resource person **Prof. Dr. V. Ramanathan**, Controller of Examination, SCSVMV, Kanchipuram

Prof. Dr.K.Srinivasa Rao, HoD, Department of Mathematics made the felicitate the resource person **Prof. Dr. V, Ramanathan**, Controller of Examination, SCSVMV, Kanchipuram.

The first session of the program was comprised of Measurement of Scales by **Prof. Dr.V, Ramanathan**, Controller of Examination at 11 am at MBA Seminar Hall It followed by tea-break from 12.00 PM -12.10pm.

After the break, the last session of day was started at 12 15pm. This session was continued with Parametric and nonparametric test and it would continue upto 1.10pm. After this introduction, He explained about the data representation ; computation of measures of central tendency, t-test, chi-square test; oneway ANOVA Two-way ANOVA, Correlation coefficient and Regression lines in SPSS Software.

The session end at 1.50pm. It gives the good knowledge of Statistics tools in SPSS Software.

This program came to an end in a grand manner with the vote of thanks proposed by **Dr.P. Nagarajan**, Asst. Professor of Mathematics.

Participant from Sri Jayendra Saraswathi Ayurveda Medical College and Hospital, SCSVMV University are attended the program. More than 40 participants were benefited from the program. We conclude that they were eagerly awaiting for the next program.

Department of Mathematics, Profile 2021 - 2022



National Service Scheme
&
Department of Mathematics
An Enrichment Programme at Government High School –
Enathur.

(18/03/22, 21/03/22 & 23/03/22)

NSS – Unit I of SCSVMV organized an Enrichment Programme at Government High School, Enathur jointly with Department of Mathematics, SCSVMV on 18/03/22 , 21/03/22 & 23/03/22 . This is an initiative to help the Enathur Government High School students to overcome the difficulties in their studies due to the pandemic. This Special Booster programme was a grand success by the full support extended by the Head, Department of Mathematics Dr.K.Srinivasa Rao by permitting the faculties of Mathematics for three days. All nine faculties cleared doubts (3.00 pm – 4.30 p.m) to the students studying 6th std to 10th std in a simple way. Our faculties motivated the students, encouraged them with simple compliments and tuned them in right direction. The following faculties from Department of Mathematics did their role in a remarkable way and make this special programme a grand success.

S.No	Name	Designation
1.	Dr.R.Mageswari	AP/Maths & NSS Programme Officer
2.	Dr.N.Saradha	AP/Maths
3.	Dr.D.Vijayalakshmi	AP/Maths
4.	Dr.E.Geetha	AP/Maths
5.	Dr.K.Pramila	AP/Maths
6.	Dr.J.Sengamala Selvi	AP/Maths
7.	Dr.A.Dhanalakshmi	AP/Maths
8.	Dr.K.Bharathi	AP/Maths
9.	Dr.T.N.Kavitha	AP/Maths

Department of Mathematics, Profile 2021 - 2022

All students and faculties enjoyed this Special Booster Programme. Totally 250 students benefited by this programme. NSS Programme Coordinator Dr.P.Nagarajan and NSS Programme officer Dr.R.Mageswari made all the arrangements.



Department of Mathematics, Profile 2021 - 2022





**Sri ChandrasekharendraSaraswathiViswa Mahavidyalaya
(SCSVMV)**
(Deemed to be University U/S 3 of the UGC Act 1956)
Accredited with "A" Grade by NAAC
Enathur, Kanchipuram - 631 561



**Two Week Introductory Course in
Vedic Mathematics
(11-05-2022 - 26-05-2022)
Report**

As per the directions of the Honorable Vice-Chancellor, the department of mathematics organized Two Week Introductory Course in Mathematics from 11-05-2022 to 26-05-2022 for the faculty members of SCSVMV. 64 faculty members from various departments participated in the program. Details of the talks are as given below:

Day-1 (11-05-2022)

Topic: Vedic Multiplication Methods

On the first day of the program, Dr. D. Vijayalakshmi, Assistant Professor of Mathematics, explained the multiplication of numbers by 5 and 11 in detail using Vedic tricks. Multiplications of any two-digit number by any two-digit number with minimum steps of calculation were practiced with examples. Application of the sutra "NIKHILAM NAVATAS CHARAMAM DASATAH" was explained with suitable examples along with a clear introduction about the base number and choosing of the base number.



Day-2 (12-05-2022)**Topic: Multiplication using various Sutras**

On the second day, Dr.A.Gayathri, Asst. Prof. of Mathematics explained various sutras applied for multiplication. Three sutras namely “EkadhikenaPurvena”, “NikhilamNavatashcaramamDasatah” & “Urdhuva-Tiryagbhyam” were explained and how the above sutras help us to find the product of two numbers whose sum of last two digits equal to 10, to find the product of any two numbers whose Purva is same, to find the product of any numbers with any digits was illustrated with examples.

**Day-3 (13-05-2022)****Topic: Division**

On the third day of the program, Dr.R.Mageswari, Assistant Professor of Mathematics, explained the concept of the vinculum and its simple applications. Then, explained the Vedic methodology for numerical division for the above base number and polynomial division using the sutras “NikhilamNavatashcaramamDasatah” and ParavaartyaYojayet” with suitable examples.

Department of Mathematics, Profile 2021 - 2022



Day-4(14-05-2022)

Topic: Flavors of Mathematics in Vedas and Mantras

On the fourth day of the program, Dr. T.N. Kavitha, Assistant Professor of Mathematics, explained the Vedic Mathematics sutra: ShunyamSaamyasamuuay and how BagavadGeetha's sloka is compared here. By decoding the slokas, we can realize that any slokas in the ancient Hindu manuscripts have more than one meaning and all concepts are already there in the Vedas. For example, Vedic numeric for Papa (sin) is 11, and the Vedic numeric of Bhagavadgeetha's sloka is 74951211551525280847411150115556, which is divisible by 11.



Day-5(16-05-2022)

Topic: Division

On the fifth day of the program, Dr.E.Geetha, Assistant Professor of Mathematics, delivered division in numerals by using two different methods, namely Nikhilam method and Flag division method. The Nikhilam method is used to divide any number by the number which is below base number. The flag division method is used to find the division of any number by any number by various examples.



Day: 6(17/05/2022)

Topic: Partial Fractions-Using ParavartyaYojayet Sutra

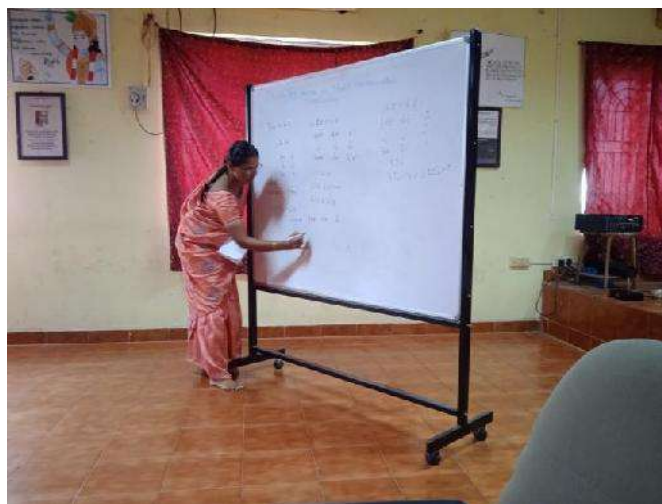
On the 6th day of the Programme, Dr.K.Pramila, Assistant Professor of Mathematics,discussed the decomposition of complex rational expression into a simpler partial fraction using ParavartyaYojayet Sutra. Three types of partial fractions (i) Non-Repeated Linear Factors (ii) Repeated Linear Factors and some Non-repeated Linear Factors (iii) Linear Factors along with Quadratic Factors were covered on that day.



Day-7 (18-05-2022)

Topic: Vedic Multiplication Methods

On the seventh day of the program, Dr. N. Saradha, Asst. Prof. of Mathematics, explained about various sutras applied for multiplication. Multiplication of any numbers by 25 and 50, was explained in detail using Vedic Sutra: *Anurupyena*. Using Vedic Sutra "*Adyamadyenantyamantyena*" how to find the product of any two-digit number by any two-digit number in which the sum of first digit is 10 and the last digits are the same is explained with some examples. The application of the sutra "*Urdhuva-Tiryagbhyam*" in the multiplication of any number with 111, 1111, 11111 was explained with suitable examples. Applying Vedic Formula, "*Ekanyunena Purvena*" and "*Nikhilam*" in finding the product of any numbers with 9, 99, 9999, 99999, etc., was illustrated with an examples.



Day- 8 (19-05-2022)**Topic: Addition and subtraction using Vedic Mathematics**

On the eighth day of the program, Dr.J. Sengamalaselvai, Assistant Professor of Mathematics, explained the classification of Addition such as Line addition (Dhamshamsha-Dropping Tens), Spark addition (Vilokanam-Observation) and Classification of Subtraction such as Vinculum method (Nikhilam Navatah Charamam Dasatah- All from 9 and last from 10) and Base Complement method (Vyavakalanam) with suitable examples. More than that, exceptional cases of Addition and Subtraction are also practiced with examples.

**Day-9(20-05-2022)****Topic: Squares and Square Root by Vedic Mathematics**

On the ninth day of the program, Dr.K.Bharathi, Assistant Professor of Mathematics, explained the Vedic Math sutra Dvandayoga trick with examples and the use of it in squaring the numbers easily. The Vedic Math sutra Vilokanam trick is a powerful tool for finding square root values within a few seconds and is explained in steps.



Department of Mathematics, Profile 2021 - 2022

Day- 10 (21-05-2022)

Topic: Cube & Cube Roots

On the 10th day of the program, Dr.A.Dhanalakshmi, Assistant Professor of Mathematics, explained the sutras Anurupyena and Yavadunam to find the cube. The methods used to find the cube roots were also explained to the participants.



Day- 11 (23-05-2022)

Topic: Factorization

On the 11th day of the program, Dr. P.Balaji, Assistant Professor of Mathematics explained the factorization of quadratic expressions using Anurupenya and Adyamantyananthamanthasutras. Also, factorizing cubic expressions using ParvarthayaYoojayatha sutra was discussed.



Day-12 (24.05.22)

Topic: Magic Square

Faculty Name: Dr.P.Nagarajan

Department of Mathematics, Profile 2021 - 2022

On the 12th day of the program, Dr.P. Nagarajan, Assistant Professor of Mathematics, has given a lecture on the topic "Magic Squares", which is covered by the Vedic sutra "ParavartyaYojayet," which means "Transpose and Apply." The presentation began with an overview of magic squares, followed by a discussion of their history, odd-order magic squares, properties of magic squares, and even order magic squares. Using examples and animation, Vedic ways of solving different order magic squares were described in-depth during the lecture.



Topic: Sulba Sutra – An Introduction

Date: 25.05.2022

Faculty Name: DrRadhakrishnan V K

On the 13th day of the program, DrRadhakrishnan V K, Assistant professor of Mathematics, introduced the concepts and methodologies of geometrical shape used in ancient India through the topic Sulba Sutras – An Introduction. Sulba Sutras, branches of Sruta Sutras, deal specifically with rules for the measurement and construction of various sacrificial fires and altars. The word Sulba is derived from the root 'Sulb' meaning the act of measurement; hence Sulba Sutra means the study of shapes – Geometry. He also highlighted the existence of the construction of the right triangle before the period of Pythagoras from the sutras made by *Apastamba* and *Baudhayana*. Faculties from various departments participated in this lecture and got the advantage of knowing the usage of mathematics in ancient India.



Day14 (26-05-2022)

Topic : Equations

On the 14th day of the program, Dr. K.SrinivasaRao, Professor of Mathematics explained Vedic mathematics techniques to solve equations using the Vedic sutra: *ShunyamSaamyasamuccaye* and also explained the methods to solve quadratic equations using *vilokam*.



Venue of the Program: MBA Seminal Hall (II Floor- Mechanical Block)

Time: 4:00 pm to 4:45 pm

Dr.K.SrinivasaRao

HoD, Department of Mathematics

Department of Mathematics, Profile 2021 - 2022

RESULT ANALYSIS

RESULT ANALYSIS

S.No.	Department	Year/Sem	Subject	Pass %
1.	Mathematics	I M.Sc./I	Abstract Algebra	100%
2.		I M.Sc./I	Real Analysis	80%
3.		I M.Sc./I	Ordinary Differential equations	80%
4.		I M.Sc./I	Programming with PYTHON	100%
5.		I M.Sc./I	Software Lab - I (MATLAB Programming)	
6.		I M.Sc./I	Software Lab - II (PYTHON Lab)	
7.		I M.Sc./I	Ancient Mathematics	100%
8.		II M.Sc./III	Discrete Mathematics	100%
9.		II M.Sc./III	Operations Research	100%
10.		II M.Sc./III	Functional Analysis	100%
11.		II M.Sc./III	Fluid Dynamics	100%
12.		II M.Sc./III	Software Lab - V (Operations Research Lab)	100%
13.		II M.Sc./III	Software Lab - VI (Applied Mathematics using SAGE)	100%
14.		II M.Sc./III	Quantitative Aptitude	100%
15.		I B.Sc./I	Calculus	100%
16.		I B.Sc./I	Analytical Geometry & Trigonometry	100%
17.		I B.Sc./I	Allied Statistics-I	100%
18.		II B.Sc./III	Differential Equations and its Applications	100%
19.		II B.Sc./III	Numerical Methods	100%
20.		II B.Sc./III	Quantitative Aptitude	100%
21.		III B.Sc./V	Abstract Algebra	100%
22.		III B.Sc./V	Statics	100%
23.		III B.Sc./V	Sequence & Series	100%
24.		III B.Sc./V	Complex Analysis	100%
25.		III B.Sc./V	Data Interpretation	100%

ADDITIONAL RESPONSIBILITIES

ADDITIONAL RESPONSIBILITIES

Dr.K.SrinivasaRao

- Nodal Officer
- Coordinator – NIRF 2022
- Member – Committee 3

Dr.N.Saradha

- Member-Hostel Accommodation Facilities Committee
- I M.Sc. Class incharge
- Placement co-ordinator
- Member-Admission Committee
- Prepared Newsletter for the period of Jan 2021-June 2021
- Evaluation report of academic year 2019-2020
- AQAR
- Internal Examiner-M.Sc.Project Viva -Voce Examination

Dr.D.Vijayalakshmi

- Member – Student Grievance Readdressal Committee
- Member – General Hygiene and safety Committee
- Class in Charge - - II B.Sc Mathemtics (III semester)
- Class in Charge - - I B.Sc Mathemtics (II semester)

Dr.E.Geetha

- Department Coordinator for Online Exams – June - July 2021.
- III B.Sc. Class incharge

Dr.R.Mageswari

- NSS Programme Officer – Unit I, SCSVMV, since Sep 2017
- Member – Green Cell, SCSVMV
- Member – Unnat Bharat Abhiyan 2.0 – Survey Coordination Committee, since April 2019.

Department of Mathematics, Profile 2021 - 2022

- Member – Committee for General Maintenance, Hygiene and Safety
- Department Research Coordinator
- Department Coordinator for Online Exams – November – December 2021.

Dr.P.Balaji

- Department Profile for the Academic year 2021-2022.
- Coordinator for online University Examinations held during June and July 2022.

Dr.P.Nagarajan

- NSS Programme Coordinator
- Convenor of Green Cell
- Member of BOS, Department of Mathematics
- News Letter In charge for July-Dec, 2021, Department of Mathematics
- Department Exam Coordinator, University Theory Examination June 2022.
- Member of ICC committee, SCSVMV
- Class Incharge for II-M.Sc Mathematics

Dr.K.Pramila

- Class Incharge for II M.Sc., (Even semester).

Dr.V.K.Radhakrishnan

1. Member - University IQAC Composition Committee
2. Member - University NIRF Committee
3. Dept. IQAC Coordinator
4. Dept. Online Class Coordinator
5. Dept. Timetable Incharge
6. Dept. eVarsity Coordinator
7. Dept. Colloquium Coordinator
8. Class Incharge - IIIBSc Mathematics Even Semester 21-22.

Dr.J.Sengamalaselvi

- Class Co-ordinator of I B.Sc., (Odd semester).

Department of Mathematics, Profile 2021 - 2022

Dr.K.Bharathi

- Class Co-ordinator of II B.Sc., (Even semester).

Dr.T.N.Kavitha

- IQAC Coordinator, Department of Mathematics

Dr.A.Gayathri

- Placement Coordinator, Department of Mathematics
- Website In-charge, Department of Mathematics

Department of Mathematics, Profile 2021 - 2022

RESEARCH COLLOQUIM

RESEARCH COLLOQUIM

The following faculties were given talks in the Department's Weekly Colloquium every Friday between 4.00 PM and 5.00 PM during the academic year 2021 – 22 on the mentioned dates.

Sl. No.	Name of the Faculty	Date of the Colloquium Talk
1.	Dr. K. Srinivasa Rao	25.06.2021
2.	Dr. N. Saradha	02.07.2021
3.	Dr. P. Nagarajan	30.07.2021
4.	Dr. P. Balaji	06.08.2021
5.	Dr. D. Vijayalakshmi	09.07.2021
6.	Dr. E. Geetha	16.07.2021
7.	Dr. R. Mageswari	23.07.2021
8.	Dr. K. Pramila	13.08.2021
9.	Dr. A. Gayathri	24.09.2021
10.	Dr. J. Sengamalaselvi	27.08.2021
11.	Dr. V.K. Radhakrishnan	20.08.2021
12.	Dr. A. Dhanalakshmi	03.09.2021
13.	Dr. K. Bharathi	10.09.2021
14.	Dr. T.N. Kavitha	17.09.2021

Department of Mathematics, Profile 2021 - 2022

AWARDS RECEIVED BY THE
FACULTY MEMBERS

AWARDS RECEIVED BY THE FACULTY MEMBERS

Dr.A.Gayathri

- International Young Women Researcher Award 2021, Centre for Professional Advancement Continuous Education (CPACE), on Dec 18, 2021.

Department of Mathematics, Profile 2021 - 2022

OUTREACH ACTIVITIES

OUTREACH ACTIVITIES

- **Dr. K. SrinivasaRao, Professor of Mathematics** acted as a resource person on 14-06-2021 to deliver two expert lectures in the **Two Days National Level Workshop on EDA Simulation Tools and Its Applications in Engineering** held from 14-06-2021 to 15-06-2021 organized by the Department of Electronics and Communication Engineering, **B.P.S. Women University, KhanpurKalan (Sonepat), Haryan**
- **Dr. K. SrinivasaRao, Professor of Mathematics** acted as a resource person in 5 days **Online National Level Short Term Training Program on Matrix Method of Structural Analysis By Using MATLAB** held from 30-07-2021 to 03-08-2021 organized by the Department of Civil and Structural Engineering, **Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Kanchipuram.**
- **Dr. K. SrinivasaRao, Professor of Mathematics** delivered an invited talk in the **International Conference on Recent Advances in Basic and Applied Sciences**, held on 27th & 28th August 2021, organized by Faculty of Sciences, **Baba Mastnath Univeristy, Rohtak, Haryana.**
- **Dr. K. SrinivasaRao, Professor of Mathematics** acted as a Resource person in **Value Added Course in MATLAB**, organized by the Department of Mathematics, **Sir C.R. Reddy College, Eluru**, during 13-15, September, 2021.
- **Dr. K. SrinivasaRao, Professor of Mathematics** acted as a resource person in **National Webinar on Basics of MATLAB** organized by the Department of Mathematics, **V.K.V Government Degree College, Kothapeta, East Godavari District, Andhra pradesh** on 10-12-2021.
- **Dr. K. SrinivasaRao, Professor of Mathematics** delivered one expert lecture on **Basics of MATLAB in Online One week Hands on Workshop on Programming Skills Using Python**, organized by the Department of Electronics and Communication Engineering, **B.P.S. Mahila Vishwavidyalaya, KhanpurKalan, Haryana**, from 21.2.2022 28.2.2022.
- **Dr. K. SrinivasaRao, Professor of Mathematics** acted as a resource person in **National Webinar on Basics of MATLAB**, organized by the Department of Mathematics, **S.V.K.P & Dr.K.S.Raju Arts & Science College(A), Penugonda, West Godavari District, Andhra Pradesh**, on 14-05-2022

Department of Mathematics, Profile 2021 - 2022

- **Dr.D. Vijayalakshmi, Assistant Professor of Mathematics**, acted as resource person for **Webinar on Vedic Multiplication Methods** organised by **Avinashillingam Institute for Home Science and Higher Education for Women – School of Engineering , Rotaract Club of AU Engineering RID 3201 & Shiksha Sankskriti Utthan Nyas SSUN – Vedic Mathematics , Tamil Nadu.**
- **Dr. D.Vijayalakshmi, Assistant Professor of Mathematics**, acted as resource person for **Workshop on Matlab and it's applications** organised by PG & Research, Department of Mathematics, **Jamal Mohamed College (Autonomous) College, Tiruchirappalli – 620 020** on 02.11.2021.
- **Dr.R.Mageswari, Assistant Professor of Mathematics**, acted as Resource Person in the **Webinar on Vedic Algebraic Division** organized by the **Science and Humanities Association, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore & SSUN, Tamilnadu** on 22/03/2022.
- **Dr.J.Sengamalaselvi, Assistant Professor of Mathematics**, acted as a Resource person in the **National workshop on Open source Mathematics software and its application** organized by the Department of Mathematics, **St.Peter’s Institute of Higher Education Research, Avadi, Chennai** on 22.10.2021 to 23.10.2021.
- **Dr.J.Sengamalaselvi, Assistant Professor of Mathematics** has delivered a **Hands on Training on Matlab and its applications** organized by the **Jamal Mohamed college, PG &Research Department of Mathematics, Tamilnadu** on 02.11.2021.
- **Dr.V.K.Radhakrishnan, Assistant Professor of Mathematics** acted as a Resource Person in a **One Day National Level Workshop on Open Research Problems in Operations Research**, organised by **AVIT, Paiyanoor, Chennai** on 31/05/2022.
- **Dr.V.K.Radhakrishnan, Assistant Professor of Mathematics** acted as a Resource Person in a **One-Day Workshop on Statistical Analysis using MegaStat in Excel for Non-Teaching and Technical Staffs of SCSVMV** organised by **IQAC of Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya** on 04/06/2022.
- **Dr.A.Dhanalakshmi, Assistant Professor of Mathematics** acted as a Resource Person in the **2nd National Workshop on Open Source Mathematics Software and Its Applications** organized by the Department of Mathematics under the auspices of **St.Peter’s Institute of Higher Education and Research, Chennai** held during 22.10.2021 to 23.10.2021.

Department of Mathematics, Profile 2021 - 2022

- **Dr.A.Dhanalakshmi, Assistant Professor of Mathematics** has delivered a **Hands on Training on Matlab and its applications** organized by the **Jamal Mohamed college**, PG & Research Department of Mathematics, Tamilnadu on 01.11.2021.
- **Dr. K.Bharathi, Assistant Professor of Mathematics** has delivered a **Hands on Training on Matlab and its applications** organized by the **Jamal Mohamed college**, PG & Research Department of Mathematics, Tamilnadu on 01.11.2021
- **Dr. K.Bharathi, Assistant Professor of Mathematics** acted as Resource Person in **Webinar on Duplex calculation – Squares of Numbers** organized by **Avinashillingam Institute for Home Science and Higher Education for Women – School of Engineering , Rotaract Club of AU Engineering RID 3201 & Shiksha Sankskriti Utthan Nyas SSUN – Vedic Mathematics, Tamil Nadu** on 14.03.2022.
- **Dr.T. N, Kavitha, Assistant Professor of Mathematics** acted as a resource person of **National level webinar on recent trends in statistical theory and Applications** in **Rathinam college of Arts and Science, Coimbatore** on 8th July 2021.
- **Dr.T. N, Kavitha, Assistant Professor of Mathematics**, acted as a resource person of **Webinar on a brief acquire of discrete mathematical structures** in **Sai Ram Engineering, Institute of Technology, Tambaram, Chennai** on 24th July 2021.
- **Dr.T. N, Kavitha, Assistant Professor of Mathematics**, acted as a resource person of **Webinar on Recent trends in Mathematics in Vidhyasagar women’s college, Chengalpattu**, on 7th September 2021.
- **Dr.T. N, Kavitha, Assistant Professor of Mathematics**, acted as a resource person of **National workshop on ‘R’ in St Peter’s University, Chennai** on October 23, 2021.
- **Dr.T. N, Kavitha, Assistant Professor of Mathematics**, delivered a **Hands on Training on Matlab and it’s applications** organized by PG & Research Department of Mathematics, **Jamal Mohamed College, Tiruchirapalli** on 01st November, 2021 to 3rd November 2021.

Department of Mathematics, Profile 2021 - 2022

EXTENSION ACTIVITIES

EXTENSION ACTIVITIES

- **Dr. K. SrinivasaRao, Assistant Professor of Mathematics** acted as a Chair Person in the **3rd International Conference on Mathematical Physical and Computational Sciences-2021**, held on 27th & 28th August 2021, organized by **Andhra Pradesh and Telangana Society for Mathematical Sciences (APTMS)**.
- **Dr. K. SrinivasaRao, Professor of Mathematics** acted as a Chair Person in the **International Conference on Recent Advances in Basic and Applied Sciences**, held on 27th & 28th August 2021, 22 organized by **Faculty of Sciences, Baba MastnathUniveristy, Rohtak, Haryana**.
- **Dr. T. N. Kavitha, Assistant Professor of Mathematics** acted as **Juri in an International virtual Conference on research innovation in Science and Technology** on 2nd march 2022, the Technical session of **Kings Engineering College, Chennai**.
- **Dr. T. N. Kavitha, Assistant Professor of Mathematics** has reviewed the manuscript of **Quantitative Aptitude for Competitive Examinations** which has been translated from English to Tamil for **S Chand and Company Publication Limited** on the month of April 2022.
- **Dr. T. N. Kavitha, Assistant Professor of Mathematics**, invited as **Special Guest for annual academic award function** and delivered a talk titled **Real life Application of Mathematics** held on 30.05.2022 at **Sri Sankara Arts and Science College, Enathur, Kanchipuram**.

Department of Mathematics, Profile 2021 - 2022

BOOKS PUBLISHED BY THE
FACULTY MEMBERS

BOOKS / BOOK CHAPTERS PUBLISHED BY THE FACULTY MEMBERS

- **Dr. D.Vijayalakshmi, Assistant Professor of Mathematics, Graph Kernals in Protein Study: A Survey, a chapter in book History and Development of Mathematics in India Published by National Mission for Manuscripts, IGNC, New Delhi, Co- publisher: D.K.Printworld (P) Ltd., ISBN: 978-93-80829-70-8, page 523-532.**
- **Dr. D.Vijayalakshmi, Assistant Professor of Mathematics, Spectral Techniques in Protein Study: A Survey, a chapter in book History and Development of Mathematics in India Published by National Mission for Manuscripts, IGNC, New Delhi, Co- publisher: D.K.Printworld (P) Ltd., ISBN: 978-93-80829-70-8, page 533-536.**
- **Dr. D.Vijayalakshmi, Assistant Professor of Mathematics, Mat Lab in Protein Study, a chapter in book History and Development of Mathematics in India Published by National Mission for Manuscripts, IGNC, New Delhi, Co- publisher: D.K.Printworld (P) Ltd., ISBN: 978-93-80829-70-8, page 545-554.**
- **Dr.E.Geetha, Assistant Professor of Mathematics, History of Fluid Dynamics, a chapter in book History and Development of Mathematics in India published by National Mission for Manuscripts, IGNC, New Delhi, Co- publisher: D.K.Printworld (P) Ltd., ISBN: 978-93-80829-70-8, page 467-475.**
- **Dr.J.Sengamalaselvi, Assistant Professor of Mathematics, History of Operations Research, a chapter in book History and Development of Mathematics in India published by National Mission for Manuscripts, IGNC, New Delhi, Co- publisher: D.K.Printworld (P) Ltd., ISBN: 978-93-80829-70-8, page 545-554.**
- **Dr. K. Bharathi, Assistant Professor of Mathematics, History of Optimization models in Evaluutionary Algorithms: A Survey, a chapter in book History and Development of Mathematics in India published by National Mission for**

Manuscripts, IGNCA, New Delhi, Co- publisher: D.K.Printworld (P) Ltd., ISBN: 978-93-80829-70-8, page 489-496.

- **Dr. T. N, Kavitha, Assistant Professor of Mathematics**, has a contribution of the book chapter entitled **History and Development of Mathematics in India** with the topic of **A Note on Confusion Matrix and its Real Life Application** published by **National Mission for Manuscripts, IGNCA, New Delhi, Co- publisher: D.K.Printworld(P) Ltd., New Delhi. ISBN: 978-93-80829-70-8.**
- **Dr. T. N, Kavitha, Assistant Professor of Mathematics** has a contribution of the book chapter entitled **History and Development of Mathematics in India** with the topic of **The origin of semiring- Valued Graph** published by **National Mission for Manuscripts, IGNCA, New Delhi, Co- publisher: D.K.Printworld(P) Ltd., New Delhi. ISBN: 978-93-80829-70-8.**
- **Dr. T. N, Kavitha, Assistant Professor of Mathematics** has a contribution of the book chapter entitled **History and Development of Mathematics in India** with the topic of **Graph Theory for Detection of Crime** published by **National Mission for Manuscripts, IGNCA, New Delhi, Co- publisher: D.K.Printworld(p) Ltd., New Delhi. ISBN: 978-93-80829-70-8.**
- **Dr. T. N, Kavitha, Assistant Professor of Mathematics** has a contribution of the book chapter entitled **History and Development of Mathematics in India** with the topic of **A Discussion on Real Life Application of Mathematics** published by **National Mission for Manuscripts, IGNCA, New Delhi, Co- publisher: D.K.Printworld(p) Ltd., New Delhi. ISBN: 978-93-80829-70-8.**

Contribution in AICTE Book Project

- *Member in the Technical book writing project of AICTE and writing the Tamil version of Diploma Mathematics- II Book & completed the task.*

Department of Mathematics, Profile 2021 - 2022

M. SC PROJECT DETAILS

M.SC PROJECT DETAILS

- **Dr.J.Sengamalaselvi**, Assistant Professor of Mathematics, has guided the M.Sc Project to the Student **G. KEERTHANA (Reg. No. 112044001)** under the topic **AN PROSECUTION OF FUZZY SOFT MATRICES IN ACCOUNTABILITY BASED ON REAL LIFE PROBLEM** in APRIL 2022.

- **Dr.V.K.Radhakrishnan**, Assistant Professor of Mathematics, has guided the M.Sc Project to the Student T.Narmadha (Reg. No. 112044002) under the topic **CONSTRUCTION OF CORDIAL LABELLING FOR AN FULL STEINER TREE** in April 2022.