

## DEPARTMENT OF MATHEMATICS & STATISTICS

### REPORT 2021 – 2022

#### **Extra Curricular & cocurricular activities assigned to the faculty in Department of Mathematics (2021-22)**

<b>Name</b>	<b>Designation</b>	<b>Activity Assigned</b>
Ms.S.Nagadurga	Lecturer & HOD	Head of the Department Placement Member in REDC Member in Theresian Alumnae Association. Convener Boards of Studies of Mathematics
Mr.V.Gopinath	Lecturer	Placement member Member of Boards of Studies of Meeting Course Co – Ordinator of Analytical Skills
Mrs.G.Jyothi	Lecturer	Mentor for Analytical Skills
Mrs.P.Poojitha	Lecturer	Member in Theresian Alumnae Association NSS Program Officer Mentor for analytical Skills
Ms.R.Sravani	Lecturer	Mentor for analytical Skills
Mrs .P.Rajita	Lecturer	Mentor for analytical Skills

Mrs. G. Kusuma	Lecturer	Mentor for analytical Skills
Mrs. K. Harika	Lecturer	Secretary of the Department Mentor for Analytical Skills
Ms.V.Sailalitha	Lecturer	Mentor for Analytical Skills

Due to the occurrence of Covid – 19 pandemic, it is inevitable for the World to transform itself in order to face new challenges. It is the need of the hour to face several changes in the educational sector

. Mrs.P.Poojitha, Lecturer in Mathematics and NSS Program Officer actively participated in the Plantation program on 5<sup>th</sup> June 2021 which was conducted in the college campus On the occasion of World Environmental Day



On 10<sup>th</sup> June members of the department attended Online workshop on Guidance on Psycho –social and counseling skills organized by St.Theresa’s COVID -19 Counselling & Wellbeing Hub in collaboration with MGNCRE.

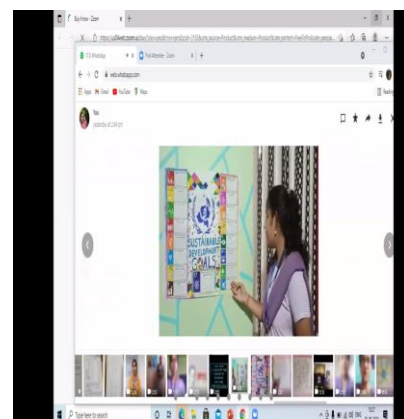
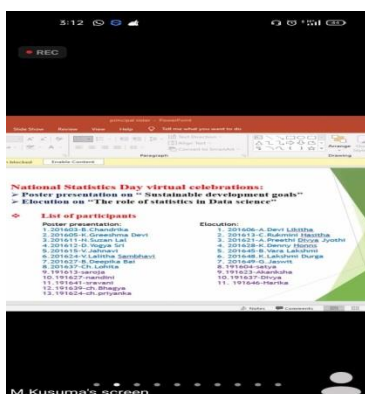
On 21<sup>st</sup> June 2020, Mrs. P.Poojitha, Lecturer in Mathematics participated in the virtual celebrations of “International Yoga Day” as NSS Program officer.



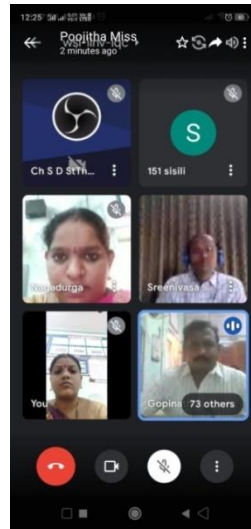
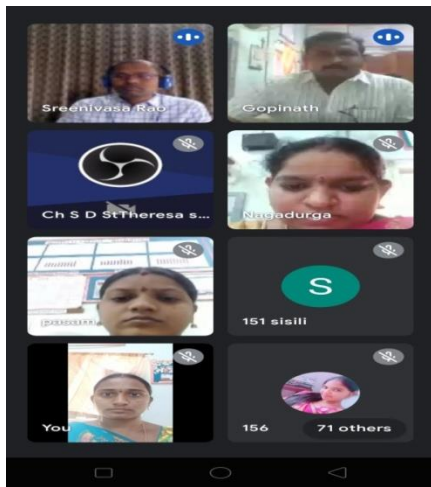
The Department of Mathematics and Statistics conducted various competitions for all statistics students in view of Statistics Day on 29-6-2021 .

The Following competitions were conducted virtually.

Poster presentation on ‘Sustainable development goals’ and Elocution competition on ‘The role of Statistics in Data Science’







## Mathematical Tools in Data Communications

### Expert Details:

**Name:** Dr.Sreenivasa Rao Y

Asst.Professor

National Institute of technology Warangal,  
Telangana.

**Organization:** National Institute of technology Warangal,  
Telangana.

### Brief details of the event:

The Department of Mathematics and Statistics of Ch.S.D. ST.THERESA'S COLLEGE FOR WOMEN (A), Eluru in association with Institution's Innovation Cell organized a webinar on “Mathematical Tools in Data Communications” for

the final year Mathematics students on 24th July 2021 in virtual mode. All the faculty members of the Department of Mathematics and statistics attended the session. The participants were indeed privileged to be a part of such innovative programs designed by our Institution under the able guidance of IIC President Dr.Sr.Marietta D'Mello, our Principal.. The aim of this webinar to acquire knowledge, conceptual understanding and skills on how Mathematical tools used in Data communication and its application in technological developments using appropriate modes of communication.

**The number of participants:** Students: 200

**Learning Outcomes:**

The webinar was about how to find out how transmitted signal can be coded and expressed in mathematical terms. Mr. Dr.Sreenivasa Rao Y Explained applications of Number theory and Linear Algebra in data communication and Students came to know how a Mathematical model must be formulated for the analysis of data communication.

**Expert Narration:**

Dr.Sreenivasa Rao .Y explained in detailed how the Mathematical tools plays an importance role in data communications. He also explained the applications of Linear Algebra and Number theory in Data Communication.

The Webinar was Successful with the Participations of degree Students (200) and Staff members.

The Department of Mathematics and Statistics were Celebrated Virtually “ The Feast of St .Ann under the guidance of Principal Dr.Sr.Marietta D’mello ,on 25<sup>th</sup> July 2021 at 10:00 am.

In this celebrations superior and correspondent Dr.sr.Marietta Pudota explained the life history of st.Ann .Principal Dr.Sr.Marietta D’Mello gave feast wishes to the students. Dr.D.MadhuMalathi HOD of PG Economics delivered a message about feast of st .ann . Dr.Sr.Showrilu Vice Principal ,Dr.Sr. Suneela rani controller of Examinations, Heads of various departments ,faculty members and students were participated.

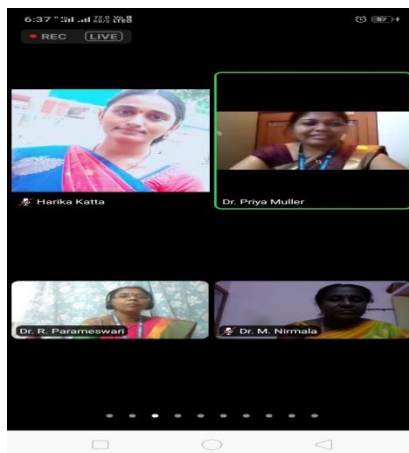


All the members of the department of mathematics and Statistics attended training programme for teachers on online assessment tools on 1st August 2021 organized by CV Raman science club,Kadapa division in Association with AP Biological science teachers forum (APB STF).

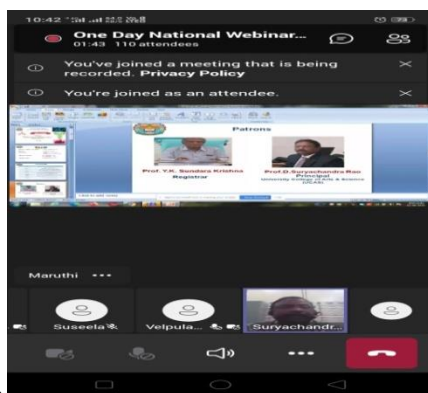
All the department members were attended two week National FDP on research advances in mathematics and its applications from 2nd August to 14th



August 2021 .Organized by the department of mathematics School of Science and Humanities,Sathyabhama Institute of Science and Technology Chennai.



On 12th August all the department members were attended a national webinar on Bioinformatics and Molecular tools to understand plant Genome diversity(NBMPGD 2021) organized by University College of Arts and Science (UCAS), KrishnaUniversity,rudravaram,Machilipatnam.

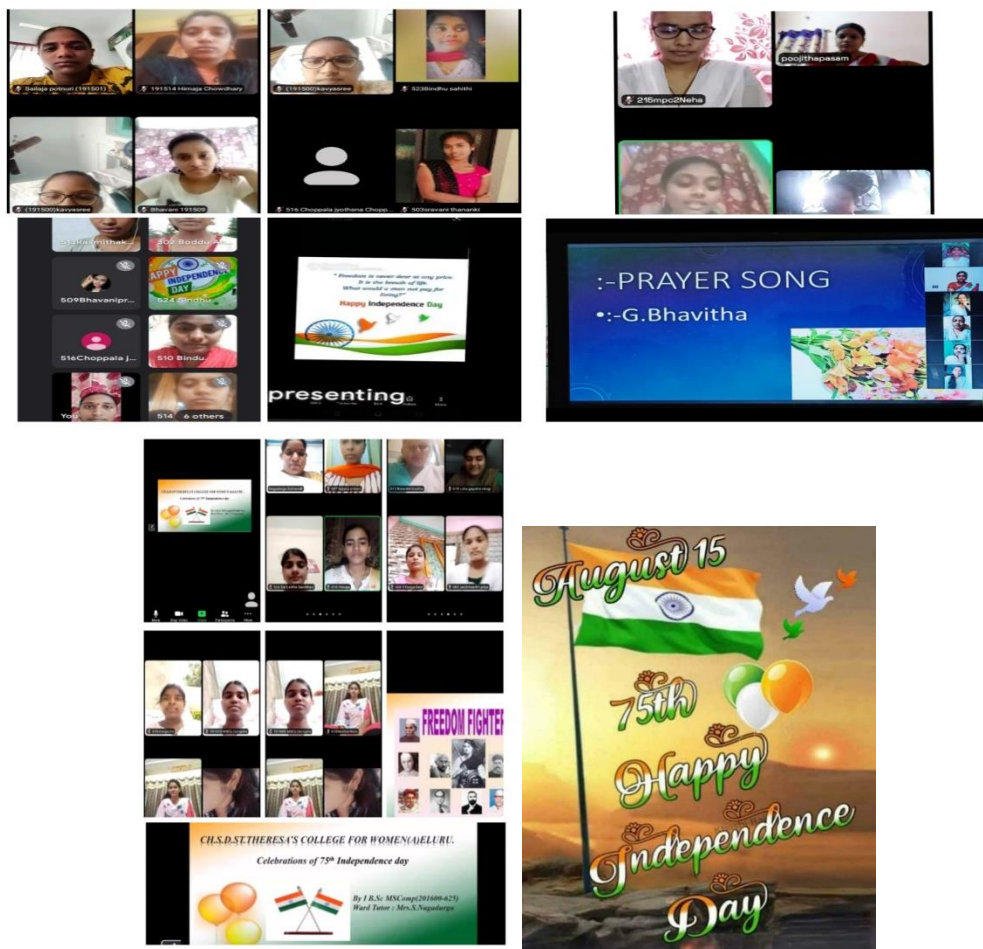


Members of the department of mathematics published the paper entitled Abstract Algebra in Rubik's Cube others were Gopinath Veeram, poojithapasam,Rajitaparvathaneni in ANVESAK journal with ISSN: 0378-4568 volume- 51 No-01(XXVI) January - June 2021.



On 28<sup>th</sup> August 2021 all the members of the department of mathematics and Statistics attended webinar on media education in Andhra Pradesh scope and opportunities for the students, organized by the department of Visual communications.

Members of the department celebrates 75<sup>th</sup> INDEPENDENCE DAY ward wise with active participation of all the students.



On 9<sup>th</sup> September 2021, All the members of the Department were attended A Webinar for students on “soft skills for strengthening tomorrow's ambition “ organized by the department of English, under the guidance of

international Quality Assurance cell (IQ AC), JMJ college for women autonomous Tenali.

On 4<sup>th</sup> September 2021, All the members of the Department were attended A webinar on “Importance of millets in Indian diets “organized by the department of home science in Association with ICAR( Indian Institute of soil Palm research) pedavegi, Andhra Pradesh.

On 7<sup>th</sup> September 2021, All the members of the Department were attended A webinar on “feeding smart right from start role of a parent” organized by the department of nutrition and dietetics.

On 8<sup>th</sup> September 2021, All Department members were actively participated in exhibition and sales” Table top planters, plant products and Medicinal plants” organized by the Department of Botany (Club Quest).

On 4<sup>th</sup> September 2021, Mr.V.Gopinath Sir attended Boards of Studies meeting as a Subject expert which was conducted by St.Joseph College for Women (A), Visakhapatnam through Google meet.



Mrs.V.Gopinath & P.Poojitha completed NPTEL Online Certification Course “Basic Linear Algebra “.

Mrs.P.Poojitha as NSS Programme officer attended vaccination programme on 18<sup>th</sup> September 2021.



On 24<sup>th</sup> September 2021 All the Department members were attended a Webinar on “Online safety for women” organized by Andhra Pradesh state women women's commission and Adikavi Nannaya University in collaboration with the National Commission for Women and Association with cyber peace Foundation.



All the Department Members for attended Impact lecturer sections in IISC Institutions session by Department of Commerce On 24<sup>th</sup> September 2021.

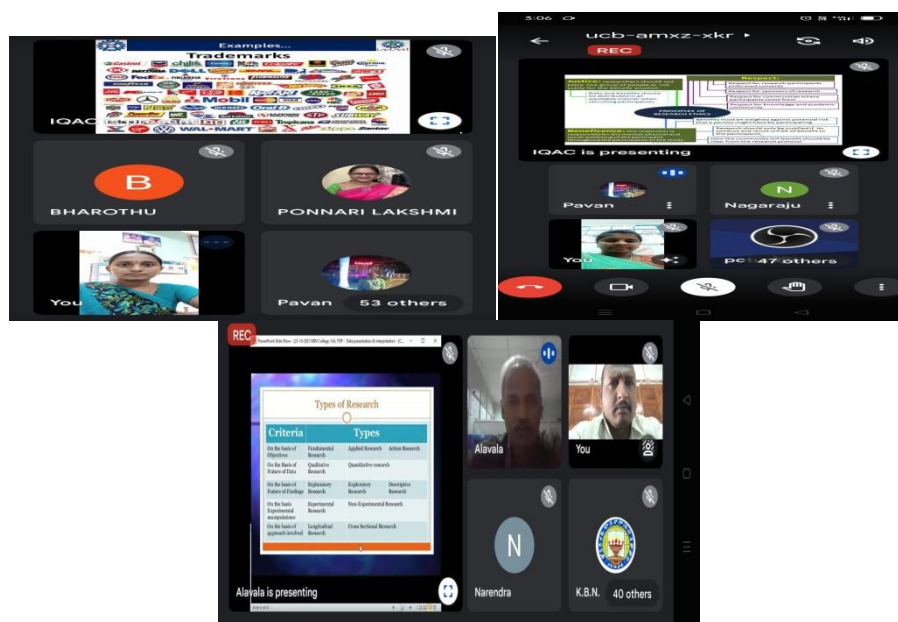
All the Members of the Department of Mathematics and Statistics were actively participated in QUIZ for World animal day organized by Department of Zoology on 4<sup>th</sup> October 2021.

All the Department members were attended 2<sup>nd</sup> series of YES-J’S Wellness webinars in collaboration with Andhra Loyola College and And Andhra Loyola institute of Engineering and Technology on 7<sup>th</sup> October .

All the members of the Department of Mathematics and Statistics were attended Three day International Webinar on Women Empowerment Gender ,Health and Space science Jointly organized by IQAC and the Department of Physics ,Maris Stella college ,Vijayawada From 7<sup>th</sup> October to 9<sup>th</sup> October 2021.

On 9<sup>th</sup> October 2021 all the Department Members were Attended IIC Impact Lecture Session.

All the Members of the Department of Mathematics and Statistics were attended One –Week Virtual FDP on ‘RESEARCH DESIGN ,ETHICS & METRICS from 18<sup>th</sup> to 23<sup>rd</sup> OCTOBER ,2021 organized by IQAC & Research Promotion & Monitoring Cell ,K.B.N.COLLEGE (AUTONOMOUS).



Mrs. P.Poojitha Lecturer in Department of Mathematics and Statistics as NSS Programme Officer attended Awareness Programme on “Azadi ka Amrut Mahostav -Clean India Programme “ from October 1<sup>st</sup> to 31<sup>st</sup> under guidance of Principal Dr.Sr.Marietta D’Mello .



Project Viva for final year students was conducted on 21st August 2021. Mrs .S. Naga Durga head of the department of mathematics, Mrs. P. Rajita ,Mr. V. Gopinath, Mrs. P.Poojitha lecturers in department of mathematics and Statistics were examiners for the Viva.



2020-2021 :

Title of the project	Project Guide	Regd No.of Students
Applications of Calculus in Real Life	Mrs.S.Naga Durga	191100
		191102
		191104
		191106
		191133
		191134
Linear Algebra in Various Fields	Mr.V.Gopinath	191131 191139

		191112 191110 191115 191107
Application of Arithmetic in our Daily Life	Mrs.P.Poojitha	191101 191105 191103 191119 191130
Role of Mathematics in Agricultural Field	Mrs.P.Rajita	191108 191109 191111 191116 191140
Solving The Rubik's Cube Using Group Theory	Mrs.K.Harika	191122 191125 191127 191129 191132
Linear Algebra in Various Disciplines	Ms.V.Sai Lalitha	191114 191117 191118 191120 191135



Mr.V.Gopinath Completed ANNUAL REFRESHER PROGRAMME IN TEACHING (ARPIT) titled with “Pedagogical Innovations And Research Methodology (Interdisciplinary) on 21<sup>st</sup> October 2021.

Mrs.P.Poojitha as NSS Programme officer attended an awareness programme on ‘COMMUNAL HARMONY ‘ on 19-11-2021 .



Mrs.P.Poojitha as NSS Programme officer attended ‘COMMUNAL HARMONY ‘ week Competitions on 22-11-2021 .



Mrs.S.Naga Durga Head of the department of Mathematics and Statistics Participated Inauguration of A Skill development training programme for recruitment processes outsourcing (RPO) in coordination with AP State skill Development Corporation (APSSDC).

Mrs.P.Poojitha from department of Mathematics and Statistics as NSS Programme officer participated in Awareness Programme on HIV-AIDS on 1<sup>st</sup> December 2021.





Mrs.P.Poojitha from department of Mathematics and Statistics as NSS Programme officer participated in Plantation Programme on the eve of Birthday of Honorable chief minister Sri.Y.S.Jagan Mohan Reddy on 21<sup>st</sup> December 2021.



Mrs.P.Poojitha from department of Mathematics and Statistics as NSS Programme officer participated in Joy of giving at Various Places as a part of Christmas Celebrations in our college on 22<sup>nd</sup> December 2021 .



On the eve of National Mathematics Day (22-12-2021), the Dept. of Mathematics & Statistics organizes the following competitions for all Mathematics students.

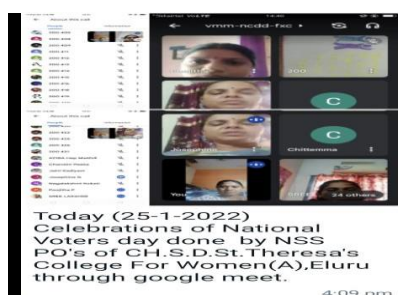
- On 20<sup>th</sup> December 2021 ,Essay writing competition on “ Mathematical Genius Srinivasa Ramanujan -Contributions and Achievements
- On 21<sup>st</sup> December 2021 Power point presentation on “Role of Mathematics in Science and technology”
- On 22<sup>nd</sup> December 2021 , Poster presentation on “Mathematics in daily life “





On 24<sup>th</sup> January 2022 Mrs.P.Poojitha as NSS Programme officer attended National Girl Child Day celebrations through Online.

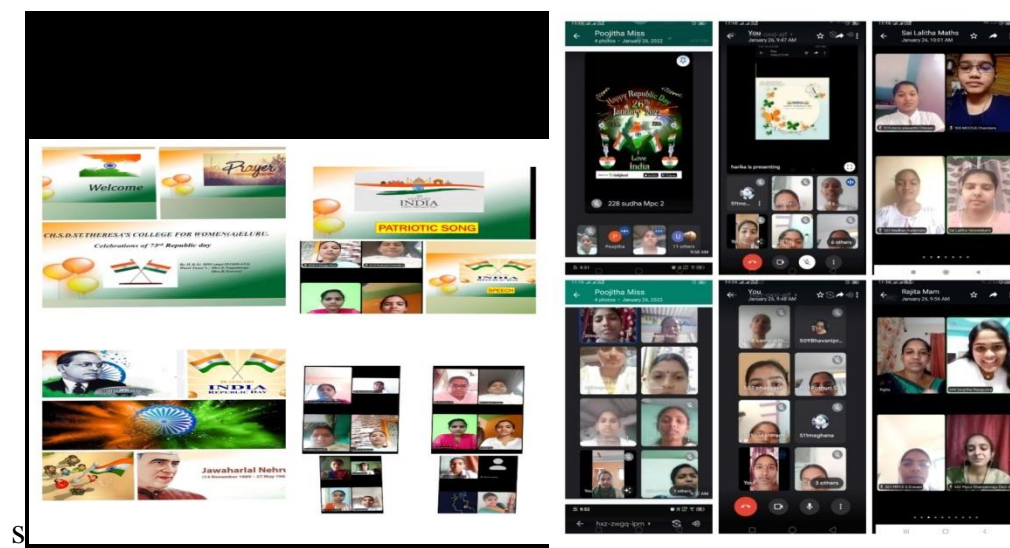
On 25<sup>th</sup> January 2022 Mrs.P.Poojitha as NSS Programme officer attended Voters day celebrations through Online.



On 27<sup>th</sup> January 2022 Mrs.S.Naga Durga head of the department of Mathematics & Statistics and Mr.V.Gopinath from the department of Mathematics & Statistics attended Meeting with all Registrars of Universities on Microsoft UP Skilling Programme Hosted by APSCH E AP.

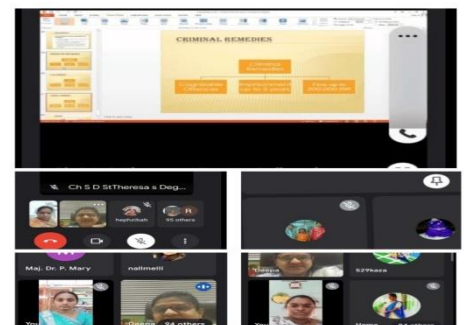


Department of Mathematics & Statistics Celebrated 73<sup>rd</sup> Republic Day innovatively through virtual platform by the students of different wards under the guidance of their respective ward tutors. All the Staff and Students of the department actively participated in the celebrations, during the programme some students explained the significance of this auspicious day through power point presentations, some students expressed their patriotism by singing patriotic songs and performed skit related to freedom fighter



All the department members were actively participated in the section on IPR an overview on 26th April 2022 organized by the ICC (institution innovation Council). The resource person was Dr. Deepa.

On 7<sup>th</sup> April 2022, 2<sup>nd</sup> B.Sc students of statistics Submitted their project work. Mrs .S.Naga Durga and





Mrs. G.Kusuma were the examiners . Students done their project work on applications of statistics in various fields ,they actively presented their Projects through PPT and charts etc.

The Titles were

1. A Project OnFiscialAnalysis In India
2. A Project OnManufacturing Of Non Oven Bags
3. A Survey In Fish Production And Average Growth Rate
4. ACase Study OnDifferent Banking Systems in Southern Region States Of India
5. Forecast The National Income AndExpenditure Of India
6. Study On Election Commission Different CategoriesOf Voters
7. Advance Estimates OfProduction Of Food Grains And Non-Food Grains In India
8. A Case Study On Anganwadi Centres

On 20<sup>th</sup> April 2022 All the Department members of mathematics and Statistics participated in the superannuation celebration of principal Dr.Sr.Marietta D'Mello.

Members of Mathematics Association knowledge gathered for a program on 29<sup>th</sup> April 2022 . The program started with a small prayer. The students of second year M.S .Computers presented seminar on mathematics in seven wonders. Among them they discussed the importance of mathematics in the construction of Great

Wall of China, Manchu Picchu. The program come to end with wishes from Mrs.S.Naga Durga, HOD of the Department of Mathematics and Statistics.



On 14th may 2022 , all the members of the Department of Mathematics and Statistics were participated in National webinar on "Basics of Matlab " organized by department of mathematics in Association with IQAC, S.V.K.P & Dr.K.S. Raju Arts and Science College(A), Penugonda.

Members of the Department of Mathematics published the paper entitled "Simulation of Dissipative hybrid Nanofluid ( PEG - water + Zro2 + Mgo) flow by a curved shrinking sheet with Thermal Radiation and Higher Order Chemical Reaction" Authors were Gopinath. Veeram, Poojitha. paasam ,Harika. Katta in MDPI Journal with ISSN :2227 -7390 in month of may 2022 .

On 23rd may 2022, All the members of the Department of Mathematics and Statistics were attended National webinar on "Strategies for building a shared future for all life- our Responsibility", organized by the department of Botany (UG) & IQAC , S.V.K.P & Dr.K.S. Raju Arts and Science College Penugonda.

All the members of the Department of Mathematics and Statistics were attended a five day National level online FDP on "Promoting Innovations in Business Management" from 26th to 31st May 2022, organized by the department of Master

of Business Administration and internal Quality Assurance cell Andhra Loyola Institute of Engineering and Technology Vijayawada.

The Academic Plan of the Department for the Year 2021-22

Month	Activity	Week/Date	Topic
June	Review of the Student Projects	2 <sup>nd</sup> week	Student Projects
	Association Inaugural	3 <sup>rd</sup> week	
July	Student WEbinars- I,III years	4 <sup>th</sup> week	Webinar on Mathematical tools in Data Communication
August	Guest Lectures for I&III	2 <sup>nd</sup> & 3 <sup>rd</sup> week	Permutations & Combinations, Linear Differential equations
September	Quiz Competitions in the Subject for I,II&III years	Every Saturday	Differential Equations, Group theory, Vector Space
October	-----	-----	-----
November	Two day national Workshop	2 <sup>nd</sup> week	Applications of Difference Calculus
December	National Mathematics Day Celebrations	3 <sup>rd</sup> week	Activities have to be planned



January	Student Seminars-II year	During Club hours	Monotonic Sequences
February	Focus on Remedial Coaching	Every day From 4pm to 5pm	Corresponding Syllabi

CH.S.D.ST.THERESA'S COLLEGE FOR WOMEN (A),ELURU.

DEPARTMENT OF MATHEMATICS & STATISTICS

REPORT

ON

ACTIVITIES OF THE PLACEMENT CELL

2019-20 & 2020-21