

CH.SD.ST.THERESA'S (A) COLLEGE FORWOMEN, ELURU



**DEPARTMENT OF MATHEMATICS
ACTIVITIES
(2017-2018)**

**ACTIVITIES
OF
DEPARTMENT OF MATHEMATICS (2017-18)**

The College was reopened for the staff on 1st June 2017. Members of the Department gathered for a meeting to review the Results of even semester.

The even semester results of 2016 -17 were as follows

Semester	Paper	No.of Students Appeared	No.of Students Passed	No.of.Students Failed	Pass Percentage
VI	III	261	235	25	90%
	IV	262	256	6	97.7%
IV	II	206	183	23	88.8%
II	I	263	250	13	95.5%

Extra Curricular & cocurricular activities assigned to the faculty in Department of Mathematics (2017-18)

Name	Designation	Activity Assigned
Dr.K.L.Saraswathi Devi	Lecturer & HOD	<ul style="list-style-type: none"> • Coordinator of Placement & Career Guidance Cell. • JKC Coordinator • Executive officer of HRD Centre • Convener Boards of Studies of Mathematics, Adikavi Nannaya University, Rajahmahendravaram • Vice President of Theresian Alumnae Association • Academic Council Member • University Nominee for BOS of Dept of Mathematics Ideal College, Kakinada. • University Nominee for Academic Council of Govt WomensCollege, Kakinada. • Examination committee Member
Mr.V.Gopinath	Lecturer	Placement member
Ms.S.Nagadurga	Lecturer	Secretary of the Department Member in Theresian Alumnae Association. Incharge of Snehaahar
sMrs.A.Jyothi	Lecturer	Member in Theresian Alumnae Association.
Mrs.P.Poojitha	Lecturer	Member in Theresian Alumnae

		Association Incharge of Certificate Course (Yoga)
Ms.Y.Kusumanjali	Lecturer	Member in Theresian Alumnae Association.
Ms.R.Sravani	Lecturer	Incharge of Snehaahar Incharge of Certificate Course (Yoga)

With New Hopes and Flying colors II & III Years entered into The College for the new Academic Year on 5th June 2017.

On 21st June, 2017, Members of the Department participated in Holy Mass .College became more bright full with the entry of I Years on 19th June, 2017.

Members of the Department participated in Fresher's Day celebrations held on 24th June, 2017 and for I Year students. Classes were commenced from 27th June, 2017.

On 29th June 2017, 10 B.Sc statistics students under the guidance of Ms.Y.Kusumanjali attended 11th National Statistics day celebrations organized by National Sample Survey Organization (NSSO) at K.B.N College, Vijayawada.

The list of students who won prizes in various competitions was given below.
In Elocution, B.Sai chandhana & P.Jhansi of II B.Sc M.S.Computers were participated.

In Quiz the following students were participated and got II prize (Rs.300/- cash prize).

- | | |
|--------------------|-----------------|
| 1. M.Bhavana ganga | III B.Sc M.S.Cs |
| 2. D.Rani | III B.Sc M.S.Cs |
| 3. A.Sai spandhana | III B.Sc M.S.Cs |
| 4. A.Jagadeeswari | II B.Sc M.S.Cs |
| 5. P.Sai lakshmi | II B.Sc M.S.Cs |

In essay writing competition P.Jhansi of II B.Sc M.S.Computers got II Prize (Rs.300/- cash prize)





On 30th June, 2017, statistics day celebrations were organized by Department of Mathematics & Statistics. In our college various competitions were conducted for B.Sc Statistics students. As part of this Elocution, Essay writing, Poster presentation and Quiz competitions were conducted. Two students were presented Papers on the topic “Applications of Statistics” by M.Mahathi and “Statistical quality control” by A.Sravya of III B.Sc M.S.Computers.

The list of students who won the prizes in the competitions is as follows.

Elocution

I Prize - M. Pranaya (161652) II B.Sc M.S.Computers
 II Prize - P.Jhansi (161618) II B.Sc M.S.Computers

Essay writing

I Prize - V.Sai keerthi (151622) III B.Sc M.S.Computers
 II Prize - R.Nikhila (161631) II B.Sc M.S.Computers
 V.Sai sandhya (161639) II B.Sc M.S.Computers
 N.Divya naga sai (161609) II B.Sc M.S.Computers

Poster presentation

I Prize – N.Purna Surekha (171605) I B.Sc M.S.Computers
 II Prize – B.Swathi (161619) II B.Sc M.S.Computers

Quiz competition

Among 3 groups 1 group (Consists of 5 students) won the prize.

1. M.Mahathi (151603) III B.Sc M.S.Computers
2. M.Prathibha (151624) III B.Sc M.S.Computers
3. N.Divya naga sai (161609) II B.Sc M.S.Computers
4. M.Leela sravani (161634) II B.Sc M.S.Computers
5. D.Pujitha (171609) I B.Sc M.S.Computers

Paper presentations



Elocution



Essay writing

Poster presentation



Quiz



This year Department got the opportunity to do the project on Urban Slum Survey. About forty five students under the guidance of four faculties from the department of mathematics,

Ch.S.D.St. Theresa's college for women with the co-operation of Eluru Municipal Commissioner, Sri Y.Sayie Srikanth and his team, collected the primary data from 600 houses in two scheduled slums Kabbadigudem (notified) and Vijaya Garedens (non-notified) and submitted the report to the Municipal Commissioner,Eluru.

To collect the data, the questionnaire was prepared. To get the correct information from residents firstly the students got interaction with the residents beforehand with the help of project officers and sanitary helpers.

From 4th January 2016 onwards, students started collecting the data, by using the prepared questionnaires. On the occupational, economic, literacy status, educational facilities and the availability physical, infrastructure etc., in the selected slums

For more information, faculty had the face to face interviews with the following people:

1. Sri Y. Sayie Srikanth,Commissioner Eluru Muinicpal Corporation
2. Sri Dr. V Surya Rao, Municipal Health Officer- MCE
3. T. Vamsi Krishna ,Urban Infrastructure Expert-MCE
4. Miss Naresh Sharma,Urban Planner- MCE
5. Archana , PO Section , MEPMA Member
6. Swapna PO Section MEPMA Member



Project viva for final Year Students was conducted on 15th July,2017.Dr.K.L.Saraswathi Devi, Head of the Department of Mathematics ,Mrs.Srivani, Lecturer in the Department of Physics & Electronics, Mrs.K.Subhashini, Lecturer in the Department of Chemistry were Examiners for the Viva.



The Department of Mathematics joyfully celebrated the feast of St. Ann in the college on 25th July at 9.30Am. The Students depicted the life of St. Ann through a skit beautifully and variety of dance were put up in honor of St. Ann. The sisters were wished by all the staff members and students by offering fruits and sweets.

Glimpses of the Feast

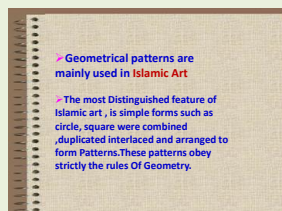
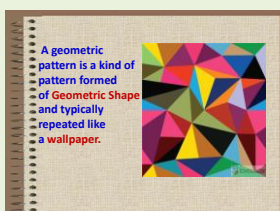
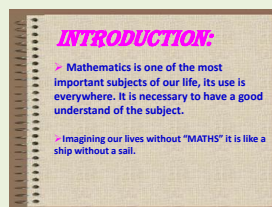
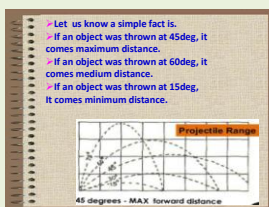
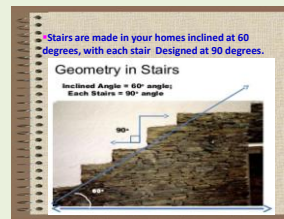
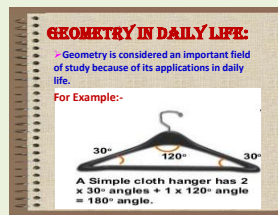


On 27th July 2017, The Ward students (III B.Sc MPCOMP) of Mrs.A.Jyothi Conducted an Extension Program with the title “Math in Real Life Action”

They expressed the idea that Mathematics is the cradle of all creations, without which the world cannot move an inch. Be it a cook or a farmer, a carpenter or a mechanic, a shopkeeper or a doctor, an engineer or a scientist, a musician or a magician, everyone needs mathematics in their day-to-day life. Even insects use mathematics in their everyday life for existence.

Snails make their shells, spiders design their webs, and bees build hexagonal combs. There are countless examples of mathematical patterns in nature's fabric.

Some of the slides, and photos of the programme





Members of the Department inculcated Moral values among the students during morning assembly from 29th July,2017 to 09th August,2017.

The Department of Mathematics in the College **organized** One - day Workshop titled as “**Vector Calculus**” on 11th **August 2017**.with the **target group** as IIB.sc (MPC,MPCOMP,MECOMP& MSCOMP)

Report On One - day Workshop Vector Calculus

The main objectives of the work shop are as follows

- To enhance and develop the target group understanding on Vector Calculus and its applications.
- To provide the opportunity to consolidate and develop their own **Mathematical skills** for the target group.

After a brief prayer service and Lighting of the Lamp by the dignitaries on the Dias, Dr.K.L.Saraswathi Devi, Head of the Department of Mathematics gave the opening remarks and explained the **significance of the workshop**.

The Resource Persons were, Prof.V.Radha Krishna Murthy, Head of the Department of Mathematics , Sir CRR college of Engineering,Eluru and Mrs.M.Padma Devi, Assistant professor,Department of Mathematics ,Sir CRR College of Engineering,Eluru.

The Faculty involved in the Workshop were Dr.K.L.Saraswathi Devi, Head of the Department of Mathematics, Mr.V.Gopinath, Mrs.A.Jyothi,Mrs.G.Jyothi & Mrs.P.Poojitha faculty Department of Mathematics

During the Workshop **Resource Person** Prof.V.Radha Krishna Murthy & Asst.Prof.Madhavi Devi explained the topics Gradient,Divergence & Curl. He made the students to work out **some of the problems** on Divergence & Curl of a Vector function.

The Work Shop was successful with the participation of 215 Students of

III B.Sc (MPC, MPCOMP, MECOMP& MSCOMP)



As a part of ACADEMIA-2017, On 14th August, 2017, Department organized a Brain Intelli-preneur (quiz programme) for all the students B.A,B.Com & B.Sc.

Nine groups Consists of 6 members each were appeared for Screening test from which four groups were selected for the Competition .The prize winners were as follows.

Group-I

Reg.No	Name	Class	PRIZE
150406	N.MOUNIKA	III B.A H.E.P (E.M)	II
171445	M.SAI SWAPNA	I B.SC M.E.COMP	
171438	SK.SUFIA	I B.SC M.E.COMP	
171436	A.POOJA	I B.SC M.E.COMP	
171421	G.TEJA SRI	I B.SC M.E.COMP	
152515	SONIA JAIN	III B.B.A	

Group-II

Reg.No	Name	Class	PRIZE
152516	LATHA JAIN	III B.B.A	III
161119	CH.SRAVANI	II B.SC M.P.C -I	
161105	MD.ASMAMEHNAAZ	II B.SC M.P.C -I	
161103	B.PRISKILLA	II B.SC M.P.C -I	
161106	U.NIKHILA	II B.SC M.P.C -I	
161100	M.NAGA ANJANI DEVI	II B.SC M.P.C -I	

Group-III

Reg.No	Name	Class	PRIZE
151234	SK.KATHIJA	III B.SC M.P.C -II	I
151200	V.MAMATHA	III B.SC M.P.C -II	
151207	V.DIVYA	III B.SC M.P.C -II	
151225	S.RAJESWARI DEVI	III B.SC M.P.C -II	
151603	M.MAHATHI	III B.SC M.S.COMP	
152523	P.LAKSHMI PRASANNA	III B.B.A	

Group-IV

Reg.No	Name	Class	PRIZE
160110	MD.LEHREEN	II B.COM COMP	
160114	K.MEGHANA	II B.COM COMP	
160167	K.GEORGE NITHYA	II B.COM COMP	
171617	D.LAKSHMI PRASANNA	I B.SC M.S.COMP	
171638	R.NAGA	I B.SC M.S.COMP	

	MALLESWARI		
152502	Y.PRAVALLIKA	III B.B.A	



As a Swachacha bharrath activity on 16th to 19th of August, 2017 the students of Mathematics Department Cleaned the adopted area of the Department(KSR thota)



As a part of vanam manam programme on behalf of TSBA Department of Mathematics planted the plants in MRC Colony,Sanathi Nagar 9th Road of Eluru Municipality.on 8th & 21st Aug ,2017 with the Colloboration of Eluru Municipality.



Department of Mathematics and the Department of Computer science in collaboration with Spectrum Solutions planned to organize an International conference on Recent Advancements in Technical fields of Computer science and Mathematics (ICRATFCM-

2017) on 21st & 22nd August 2017. With the target group as the faculty of both the Departments.

**REPORT
ON
International conference on Recent Advancements in Technical fields of Computer
science and Mathematics
(ICRATFCM-2017)
On**

21st & 22nd August 2017.

The main objectives of the conference are as follows

- * To combine the technical efforts in order to attain common goal of technical upliftment.
- * To share the latest ongoing trends and their corresponding impact all over the technical system.
- * Lectures by eminent professors and subject experts from foreign university and reputed organization to cope up With International Technical standards.
- * To promote students towards the research and show them technical path.

The programme took off with a glittering start on 21st August, 2017, at 10am with chief guest-Prof. Yesubabu Adimulam, Head of the Department of Computer Science, Sir CR Reddy College of Engineering, Eluru.

and Guest of Honor Raushan Kumar Singh, Managing Director, Spectrum Solutions, Pondicherry.

After a brief prayer service and lighting of the lamp by the dignitaries on the dais, the principal of Host college, Rev. Dr. Sr. Mercy delivered the welcome address then Dr. K.L. Saraswathi Devi, convener of the workshop presented the opening remarks and explained the significance of the conference.

Prof. Yesubabu Adimulam, Chief guest was introduced to the gathering by Mrs. B. Annapurna, Head of the Department of Computer Science.

After that, professor ignited the young minds with his intellectual, inspiring and informative manage.

Then, the Raushan Kumar Singh, The key note addressee, was introduced to the gathering by Mr.V.Gopinath, faculty department of Mathematics. In his key note address, Raushan Kumar Singh mainly focused on Internet of things (IOT), signal processing, Bigdata, embedded system, machine learning and Artificial Intelligence. He also explained the importance of International conference and Different types of Securities.

Then the program was followed by the blessings of Mother Ernestine Fernandes, correspondent, Ch.s.d.st.Therasas's(A) college for women, Eluru.

The inaugural session came to an end with vote of thanks by Mrs.V.Sravanthi, Faculty Department of Computer Science

After a small tea break the first Technical session was started with the Resource person prof.J.Saravanan, Bule Hore universite, Ethopia;

prof. J. Saravanan drew the attention of all the participants to the latest developments in the two fields Mathematics & computer science which are driving forces behind all modern techniques. He mainly focussed on Brain finger printing. He also explained the concept of Electrods, finger print and its usage.

After lunch the technical session-2 was started. In this session, prof.V.Radha Krishna murthy, Head of the department of mathematics, Sir CRR College of engineering, Eluru, enlightened the participants with his vast knowledge of "Bio fluid Dynamics".

He Explained the importance of Research Implementation, scope of Research, Details of Bio mechanics, Basic principles of mechanics etc. He also focused on Biological systems, such as cardiac cycle, Body neutral system, Blood pressure system. Hypertension etc. He also explained usage & applications of Mathematical modeling, modeling formulation and peristaltic pumping.

The parallel session of paper presentations began at 3.00pm, which were chaired by Prof. Y. Yesu Babu, Prof. J. Sravanan, prof. V. Radha Krishna Murthy & Raushan Kumar Singh respectively. The sessions were highly interactive and the papers were well received and The Session was concluded with a note of appreciation by the chair persons.

The second day of the conference started at 10.00am with the technical session -3 by prof. A. Yesu babu, Head of the department of computer science, Sir CRR College of

engineering ,Eluru was introduced to the gathering by Mrs.P.poojitha, Faculty Department of Mathematics.

During his talk he explained the History & development of Information Technology, Big data & its analytics , virtual Reality & Automation. He also focused on Artificial Intelligence, self driving car , Hyperloop train & cyber security.

After a small tea break, the IV technical session was started , by Mr. Raushan kumar singh on the topic “MATLAB & its applications”. He concentrated on usage of MATLAB, he explained equation solving , Intersection plotting , matrix solution & practical implementation of Matlab etc. After lunch break, Prof.J.Sarvanan, from Euthopia started the V technical session . In his talk , professor explained spin tronics, M-Ram, differences between spintronics & electronics , moore’s law, advantages of spin tronics & M-Ram etc.

Parallel paper presentation sessions were organized which were chaired by Prof.A Yesu Babu & Prof.V.Radha Krishna murthy more than 20 members were presented their papers.

After a small tea break , the programme came to an end with the valedictory in which , Mrs.B.Annapurna , Head of the department of computer science presented the closing remarks of the conference , later the participants were given the certificates.

The conference was successful with more than 200 participants including international participants & more than 35 paper presentations.

We have witnessed the land scape of technical fields of computer science and Mathematics is more & more inter-related & the dynamics are evolving fast .

We conclude that ICRATFM-2017, is a global community which is committed towards perpetual action with dynamism in spheres complementary to & in synergy with the field of Computer Science and Mathematics.

Glimpses of the Conference:





21, 22 తేదీల్లో అంతర్జాతీయ సదస్సు

ఏలూరు (ఆర్ఆర్ పేట) : స్థానిక గవరవరంలోని సెయింట్ థెరిస్సా స్వయం ప్రతిపత్తి మహిళా డిగ్రీ కళాశాలలో ఈ నెల 21, 22 తేదీల్లో ఇంటర్నేషనల్ కాన్ఫరెన్స్ ఆన్ రీసెట్ అడ్వాన్స్ మెంట్ ఇన్ టెక్నికల్ ఫీల్డ్ ఆఫ్ కంప్యూటర్ సైన్స్ అండ్ మేథమెటిక్స్ అనే అంశంపై అంతర్జాతీయ స్థాయిలో సదస్సు నిర్వహించనున్నట్లు ప్రిన్సిపల్ డాక్టర్ పి.మెర్సీ ఒక ప్రకటనలో తెలిపారు. ఈ సదస్సులో సీఆర్ఆర్ ఇంజనీరింగ్ కళాశాల కంప్యూటర్ సైన్స్ విభాగాధిపతి ఎ.ఎనుబాబు, ఇథియోపియా బులిహోరా యూనివర్సిటీ నుండి జె.శర్వాణన్, సీఆర్ఆర్ కళాశాల గణిత విభాగాధిపతి వి.రాధాకృష్ణ మూర్తి, పాండిచ్చేరికి చెందిన స్పెక్టం సొల్యూషన్స్ మేనేజింగ్ డైరెక్టర్ రోషన్ కుమార్ సింగ్ హాజరవుతారన్నారు. తమ కళాశాల గణిత విభాగాధిపతి కేఎల్ సరస్వతి, కంప్యూటర్ సైన్స్ విభాగాధిపతి బి.అన్నపూర్ణ ఆధ్వర్యంలో ఈ సదస్సు జరుగుతుందన్నారు.



సర్దిఫికేట్ అందిస్తున్న కళాశాల ప్రిన్సిపల్ మెర్సీ

ఏలూరు (ఆర్ఆర్ పేట) స్థానిక గవరవరంలోని సెయింట్ థెరిస్సా స్వయం ప్రతిపత్తి మహిళా డిగ్రీ కళాశాలలో సోమవారం ప్రారంభమైన రీసెట్ అడ్వాన్స్ మెంట్ ఇన్ డిజిట్లీ ఆఫ్ కంప్యూటర్ సైన్స్ అండ్ మ్యాథ్ మెటిక్స్ అంశంపై సదస్సు మంగళవారంతో ముగిసింది. ఆఖరిలో పాండిచ్చేరికి చెందిన స్పెక్టం సొల్యూషన్స్ ప్రతినిధి రోషన్ కుమార్ సింగ్ మ్యాట్ ల్యాబ్, విజువల్ జిజ్యూస్ తదితర అంశాలపై వివరించారు. రాష్ట్రంలోని వివిధ జిల్లాలకు చెందిన 15 కళాశాలల నుంచి పాల్గొన్న ఆచార్యులు, అధ్యాపకులు, పరిశోధక విద్యార్థులకు కళాశాల ప్రిన్సిపల్ డాక్టర్ పి.మెర్సీ సర్దిఫికెట్లు ప్రదానం చేశారు. కార్యక్రమాన్ని గణితశాస్త్ర విభాగాధిపతి కేఎల్ సరస్వతి, కంప్యూటర్ సైన్స్ విభాగాధిపతి బి.అన్నపూర్ణ పర్యవేక్షించారు. సీఆర్ఆర్ ఇంజనీరింగ్ కళాశాల కంప్యూటర్ సైన్స్ విభాగాధిపతి ఎ.ఎనుబాబు, బులిహోరా యూనివర్సిటీ ప్రొఫెసర్ జి.శర్వాణన్ పాల్గొన్నారు.

ముగిసిన అంతర్జాతీయ సదస్సు

ఏలూరు అర్బన్: కంప్యూటర్ సైన్సు, మ్యాథ్ లో నూతన ఆవిష్కరణలు-సవాళ్లు (ఐసీఆర్ఎఎఫ్ సిఎం-2017) అంశంపై సెయింట్ థెరిస్సా మహిళా కళాశాలలో రెండురోజులుగా జరిగిన సదస్సు మంగళవారం ముగిసింది. ఇథియోపియా బులిహోరా యూనివర్సిటీ ప్రొఫెసర్ జె.శర్వాణన్ మాట్లాడుతూ జెయింట్ మ్యాగ్నెట్ రెసిస్టెన్స్ గురించి విద్యార్థినులకు వివరించారు. సీఆర్ఆర్ ఇంజనీరింగ్ కళాశాల కంప్యూటర్ సైన్సు విభాగాధిపతి ప్రొఫెసర్ ఎ.ఎనుబాబు జీపీఎస్, బిగ్ డేటా, జినోమ్ డేటా గురించి తెలియజేశారు. పరిశోధనాపత్రాలపై చర్చ జరిగింది. ముగింపు కార్యక్రమంలో స్పెక్టం సొల్యూషన్స్ మేనేజింగ్ డైరెక్టర్ రోషన్ కుమార్ సింగ్, ప్రిన్సిపల్ పాల్ సిస్టర్ మెర్సీ డాక్టర్ కెఎల్ సరస్వతి, సీఎస్ఈ విభాగాధిపతి జి.అన్నపూర్ణ, తదితరులు పాల్గొన్నారు.

The Department of Mathematics in the College **organized** One - day Workshop titled as “**Higher Order Differential Equations**” on **23rd August 2017**.with the **target group** as I B.sc (MPC,MPCOMP,MECOMP& MSCOMP)

**Report
On**

One - day Workshop on

Higher Order Differential Equations

The main objectives of the work shop are as follows

- To enhance and develop the target group understanding on Higher Order **Differential Equations** in various branches of Sciences.
- To provide the opportunity to consolidate and develop their own **Mathematical skills** for the target group.

After a brief prayer service and Lighting of the Lamp by the dignitaries on the Dias, Dr.K.L.Saraswathi Devi, Head of the Department of Mathematics gave the opening remarks and explained the **significance of the workshop**.

The Resource Person was Dr.S.Sekhar Panda , Sr.Assistant Professor,Department of mathematics ,Sir S.K.R.College of Engineering, Eluru ,W.G.Dt and Mr.V.Gopinath, faculty Department of Mathematics.

The Faculty involved in the Workshop were Dr.K.L.Saraswathi Devi, Head of the Department of Mathematics, Mr.V.Gopinath, faculty Department of Mathematics.

During the Workshop **Resource Person** Dr.S.Sekhar Panda Concentrated on Method of Undetermined Coefficients, Variation of Parameters & Non Constant Coefficients. He made the students to work out **some of the problems** on Method of Undetermined Coefficients, Variation of Parameters.

The Work Shop was successful with the participation of 270 Students of

I B.Sc (MPC,MPCOMP, MECOMP& MSCOMP)

On 24th Aug, Department of Mathematics distributed Clay idols of (Ganesh about 1000) with the Colloboration of Lioness club of Helapuri, Eluru.



On 27th August, 2017, Dr.K.L.Saraswathi Devi delivered a Guest lecture on “Swachha Bharath” at Lioness Club of Helapuri, Eluru.



From 1st September onwards the Department is preparing for the NAAC visit. On 22nd & 23rd NAAC PEER team visited the Department.

On 3rd Oct, 2017 According to the Instruction of Dean of Academic Affairs, (AKNU), Prof.S. .Teki, Dr.K.L.Saraswathi Devi (Convener of Boards of Studies of Mathematics, AKNUR) organized a meeting at PR College, Kakinada for all the Senior Faculty of Mathematics from East & West Godavari Districts to get the Collective idea in order to finalize the Cluster papers of VI Semester and to Discuss the Project.

All the Members of the Department attended a Workshop on 3rd & 4th Oct, 2017 “Effective teachers are Principle –Centered”, **Challenges and strategies**. The Resource persons were Rev.Dr.Joe Arimpoor, Sd b, Mr.Abhishek S. John, Don Bosco Animation & Research Kendra, New Delhi.

On 16th Oct, 2017, Dr.K.L.Saraswathi Devi, Convener of Boards of Studies of Mathematics, AKNUR, attended Boards of Studies Meeting at Adikavi Nannaya University, Rajahmendravaram and finalized the Papers of Clusters of VI Semester.



Dr.K.L.Saraswathi Devi, Convener of Boards of Studies of Mathematics, AKNUR is initiated to organize a State Level Faculty Development Workshop titled with “A Project Work in Mathematics”, with the Co operation of Dean of Academic

Affairs, (AKNU), Prof .S.Teki,& Department of Mathematics, PR Govt Degree College, Kakinada on 27th Oct,2017,at PR Govt Degree College, Kakinada & actively participated as member of Organizing Committiee. Mr.V.Gopinath,Mrs.S.Nagadurga,Mrs.P.Poojitha were also participated in the Programme.

The College was reopened for the Students On 6th Nov .

The Odd semester results of 2017 -18 were as follows

Semester	Paper	No.of Students Appeared	No.of Students Passed	No.of.Students Failed	Pass Percentage
V	V	212	204	8	96.3%
	VI	212	162	50	76%
III	II	265	258	7	97.2%
I	I	277	257	20	92.4%

On 16th & 17th November, 2017Mr.V.Gopinath presented a paper titled “Cotorsion Groups” in the First International Conference on Recent Innovations in Computers and Mathematics (ICRICM-2017) at J.M.J.College for women, Tenali.

- Department of Mathematics organised a **Five Day Workshop** on Skill Development (Communication Skills, Technical Skills & Analytical Skills) from 16-11-17 to 19-11-17for all the Final Year Maths Students. The Resource Persons were Mr.Sai Krishna, Mr.Subham and Mr.Stanley from APSSDC about 210 Students were benefitted through this programme. The topics covered were as follows.

DATE	DAY	TOPICS COVERED		
		COMMUNICATION SKILLS	APTITUDE	ARITHMETIC
15-11-17	Wednesday	Interview skills	Series	Number System,Percentages
16-11-17	Thursday	Group Discussion	Coding /Decoding	Profit & Loss
17-11-17	Friday	TAM, building Self Confidence	Directions	Simple Interest & Compound Interest
18-11-17	Saturday	Body Language, Presentation Skills	Seating Arrangement	Ratio & Proportion, Averages
19-11-17	Monday	Gestures,Reading Comprehension	Calendar, Clock	Time & work Time & Distance



On 16th November, 2017, ward extension program was performed by The Ward students (III B.Sc M.S.Computers) of Dr.K.L.Saraswathi Devi & Ms.Y.Kusumanjali with title “**Mathematics and Rangoli**”.

Mathematics is defined Geometry is the branch of mathematics which is being used in the art of rangoli. as science which deals with logic of shape, quantity and arrangement.

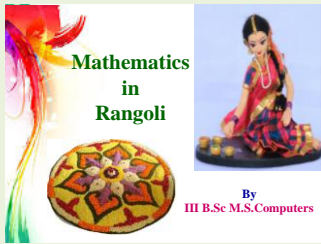
Geometry is the branch of Mathematics concerned with the question of shape, size and relative position of and with properties of space.

Rangoli is an art originated in India in which patterns are created on the floor in living room (or) courtyard using materials such as color rice, dry flour, colored sand, flower petals it is usually made during Diwali or Tihar, Onam, Pongal and other Indian, Bangladeshi, Napoli festivals for keeping both the art form and traditional alive.

In this program they explained about the Mathematical perceptions in rangoli.

Some of the slides and photos of the program were attached below.

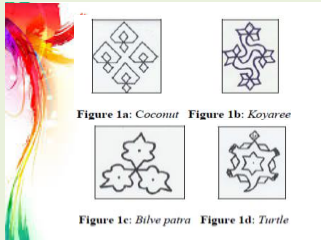




There are three basic methods in drawing Rangoli

- ❖ 1. Dots are drawn as part of a rectangular or isometric lattice and are then connected in a certain order to form geometrical shapes, or patterns, or natural objects.

Example: fruit, leaves, flowers, animals or birds. Figures 1a, 1b, 1c, and 1d are of this form.



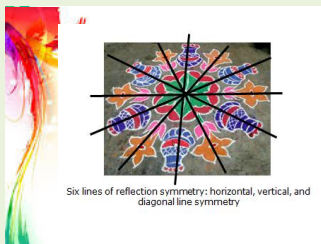
- ❖ 2. Dots are drawn as in (a) and curves are drawn around them to form geometrical patterns or natural objects. These are known as rangoli.

Brahma knot in rangoli

Symmetry

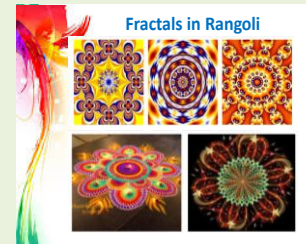
If rangoli is pleasing to eyes, there is often some kind of symmetry behind it. All rangoli designs show some type of symmetry. Looking over the figures one sees all sorts of types of rotational and reflective symmetries, including full dihedral symmetry and pure cyclic symmetry of Fig. 1b and 2b.

Figure 1b: Koyaree Figure 2b: Nabhi Ramal



Fractals

- ❖ Fractals are a prominent feature of nature and such famous fractals as the Sierpinski gasket date back almost a century. A common source of fractals is decreasing self-similarity.
- ❖ We can perceive 2-step fractal self-similarity in some designs, where the basic cross is repeated on three scales.



1) 1 to 4, 2 to 5, to form two clockwise spirals; and 3 to 1, 4 to 2, and 5 to 3 to form three counterclockwise spirals. This is the most common way of connecting dots;

2) connecting 1 to 3, 2 to 4, 3 to 5 to form three clockwise spirals; and connecting 2 to 1, and 3 to 2 to produce two counterclockwise spirals. After repeating this pattern for 8 times, dnyan kamal is completed. This is a mono linear drawing.

ITERATIONS

Making larger patterns out of a basic pattern is an interesting and challenging activity. For example we saw above how to draw the basic pattern of the coconut. We can iterate the construction based on 8 dots from the hexagonal lattice.

A further iteration is based upon 12 dots. One can write this in the form of recursion where the number of dots is given by the $n(i+1)=n(i)+4$.

Figure 4c: Lotus of knowledge, first three iterations

Department of Mathematics arranged a Guest Lecture on PDAS for Cluster students of both Mathematics & Statistics on 22nd Nov, 2017. The Resource person was A.SureshKumar from Institute of Insurance and Risk Management, Hyderabad.



On 20th Nov, 2017, 75 students from Maths Combinations attended a placement drive conducted by Infosys at Adithya Engineering College, Surampalem, Kakinada and five members were placed.

1. Ms.K.Swarupa Rani- III B.Sc –MPC-II
2. Ms.K.Manju - III B.Sc - MPCComp

3.Ms.Sk.Shabiya Bhanu - III B.Sc – MPC-I

4.Ms.S.Khatija - III B.Sc –MPC-II

5.Ms.P.Mohitha - III B.Sc – MPCComp

Members of the department actively participated in the Annual Alumnae meet held on 9th Dec, 2017.

Report on Alumnae meet - 9th Dec, 2017

Alumnae meet of 2017 was held on 9th Dec 2017 in the auditorium. Mrs.Dr.D.Fathima Rani acted as comperer for the event and it started around 2:30 pm in the afternoon. Alumnae meet started by imploring god's blessing by Mrs.Dr.Jyothi paul and her team. Nearly 300 old students from different places like Chennai, Bangalore, Vijayawada, Hyderabad, Abu Dabi attended the meet. Rev.Sr.Graciana, Rev.Dr.Sr. Marrieta pudotta, Mrs.Sulochana,Former Head of the Department of Chemistry, ,Mrs.Nalini,the former coordinator of TAA

,Mrs.Dr.Saraswathi Retd.HOD of PG. Econimics were special invitiees of the event and were welcomed with floral greetings.Rev.Sr.Graciana addressed the great gathering as she is celebrating her golden jubilee.



Later,Sr.Sunila on behalf of the principal Dr.Rev.Sr.Mercy ,the

Alumnae and gave a brief report of the events & recent developments that took place in our college & special announcement was made about the A+ status that is given by NAAC to the college in this year i.e.,2017.. Later, the alumnae meet again started by Dr.Fathima and her team sang carols, members had their refreshments.Some of the alumnae shared their memories with college & gave suggestions to improve the connectivity between old students through facebook, twitter& whatsapp. Then the programme continued performing felicitations to the special guests Mrs.Prathima, daughter of Dr.G.Nalini former coordinator of Alumnae presented the cheque of \$1000(dollars) to snehitha scholarship. Being alumni,



she too was felicitated on the same occasion. Later, the programme was continued by cake cutting & Christmas celebrations. Later, Mrs.S.Naga Durga Lecturer, Department of Mathematics proposed vote of thanks.

Department of Mathematics Conducted Seminars by the students who opted Self Study Course (Matrix Theory) of Mathematics Cluster on 12th & 14th Dec,2017.About 35 Students Presented the papers.



On 28th Dec, 2017 Dr.K.L.Saraswathi Devi, Mr.V.Gopinath attended One day faculty development programme on “Discrete Mathematical Structures” organized by Dept of Mathematics, SDM Siddartha Mahila Kalasala,Vijayawada.



On 8th Jan 2018, The Department organized awareness program on the Puraseva app, which is developed by Andhra Pradesh State Government.for the Students of I,II & III B.Sc Mathematics students in coordination with the Municipal Corporation of Eluru.



The Cluster students who opted Self Study paper (Matrix Theory) of Mathematics Cluster gave seminars on 6th & 8th Feb 2018in which about 35 Students Presented the papers.

On 9th & 10th Feb 2018 Dr.K.L.Saraswathi Devi, attended International Seminar on Women in 21st Century : Challenges & Opportunities. Organized by Ch.S.D.St.Theresa’s (A) College for women, Eluru, Department of Management Studies

On 12th & 13th Feb 2018 Dr.K.L.Saraswathi Devi, attended International Conference on. Materials for Energy and Environmental Protection Organized by Sir C R Reddy college ,Eluru

Department of Physics, Chemistry& Electronics

On 15-2-18 Department of Mathematics Organized Science day celebrations

Report On Science Day 15-2-18

The Department of Mathematics took the challenge of Organizing Science Day at college level on 15th February, by coordinating all the science Departments.

All the Different Science Departments organized various competitions, such as Essay Writing, Elocution, Debate, Quiz programs etc, in their respective subjects Related to the theme of the Science Day “Science & Technology- Specially abled persons”. From 5th Feb to 10th Feb.

On 15th February the Department of mathematics celebrated the Science Day by presenting Five power point presentations

- (1)About the science Day
- (2)C.V.Raman Biography
- (3)Science and Technology-Specially able people
- (4)Indian Inventions for Specially able people
- (5)Citizens responsibility towards Specially able people etc for all the college students.

By 2nd B.sc .Maths combination Students while the Master of ceremonies are Sr.Santha and Sr.Suseela from III B.Sc .

Prizes were distributed to the winners of various competitions. A bout 30 Students received the prizes from various Science Departments.





On 15-2-18 Dr.K.L.Saraswathi Devi Head of Department of Mathematics and Statistics. And Dr.T. Rohini Kumari Senior lecturer of Chemistry Department, Organized a Quiz Competition and cooking competition for the house wives of one town. Eluru at YMHA hall on behalf of the Helapuri lions culb at 2 p.m . In Which Dr.K. Kanchana mala and Dr.M. Padmanabham were the chief guest and guest of Honor.



On 16-2-18 Boards of studies meeting was held Dr.K.Venkataanadam Principal and HOD of the Department of Mathematics M.V.N.J.S and AVR college of Arts and Science Malkipuram and Mr.Y. Sridhar lecturer in Mathematics SVKB & Dr.K.S. Raju Arts and Science college

Penugonda were the subject experts and all the departmental members were present for the meeting.



Practical Examination for B.Sc Students Commences from 1st March 2018

The Academic Plan of the Department for the Year 2018-19

Month	Activity	Week/Date	Topic
June	Review of the Student Projects Association Inaugural	2 nd week	1.Applications Group theory Games & puzzle
		3 rd week	2.Application of Cyclic Groups 3.Application of Permutation Groups in our daily life 4.Application of Real Analysis 5.Visual Group Theory
July	Student Seminars-final years	During Club hours	Inner product Space
August	Guest Lectures for I&III	2 nd & 3 rd 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 nd week	Applications of Difference Calculus
December	National Mathematics Day Celebrations	3 rd 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

The Members of the Department Prepared for the Departmental Meeting with the Principal on 13th March 2018

Ch.S.D.St.Theresa's College for Women

Department of Mathematics Work Load

S.No	Class	No.of Sections	No.of the hours per week	Total No.of Hours
1	IB.Sc	5Sections	5x7	35
2	IIB.Sc	5Sections	5x7	35
3	IIIB.Sc	4Sections	4x12	48
4	IIB.Sc	3Sections	3x3	9
	Total			127

Guest Lectures Organized

S.NO	DATE	NAME & ADDRESS OF THE RESOURCE PERSON		GROUP	TOPIC	NO.OF. STUDENTS BENEFITTED
1	22 nd Nov, 2017	A.SureshKumar from Institute of Insurance and Risk Management , Hyderabad.	III B.Sc	Cluster students for Mathematics And Statistics	PDAS	57

Work shops/Seminars Organized

Date	Title of the workshop	Organizing Department	Amount Spent	Target Group	No.of Students Participated
11 th August 2017.	Vector Calculus	Department of Mathematics, Ch.S.D.St.Theresa's (A)College for Women	2500/-	III B.Sc Final Year	180
23 rd August 2017	“Higher Order Differential Equations”	Department of Mathematics, Ch.S.D.St.Theresa's (A)College for Women	2500/-	I B.Sc	292
16-11-17 to 19-11-17	Skill Development (Communication Skills, Technical Skills & Analytical Skills)	Department of Mathematics, Ch.S.D.St.Theresa's (A)College for Women	2500/-	Final Year Maths Students	210

Guest lectures delivered

S.No	Date	Name of the Faculty	Topic	Target Group
1	27 th August, 2017	Dr.K.L.Saraswathi Devi	“Swachcha Bharath”	Lioness Club of Helapuri, Eluru
2	03.02.2018	Mr.V.Gopinath	Sequences	II B.Sc KAHL Degree College Eluru

Name of the Lecturer	Particular's	Date& place
Dr.K.L.Saraswathi Devi	University Nominee for Boards of Studies meeting ,Kakinada	15-3-2017 Ideal College , Kakinada
Dr.K.L.Saraswathi Devi	Chief Guest for Women's Day Celebrations	8-3-2017 Sri Ramachandra College of Engineering,Eluru
Dr.K.L.Saraswathi Devi	Convener of Boards of Studies of Mathematics, AKNUR, attended Boards of Studies Meeting	16 th Oct, 2017, Adikavi Nannaya University, Rajahmahendravaram
Dr.K.L.Saraswathi Devi	Convener of Boards of Studies of Mathematics,	On 3 rd Oct, 2017, PR College,

Ch.S.D.St.Theresa's college for women, Eluru
Name & Details of Experts/ Resource persons/ Guest/ Visiting
Faculty paid 2017-18

S.No	Name of the Resource person	Address	Topic	Brief report on topic	Amount paid Rs.
1	Dr.S.Sekhar Panda	Sr.Assistant Professor,Department of mathematics ,Sir C.R.R.College of Engineering, Eluru	Higher order differential equations	About 280 students were benefitted	2500
2	Prof.Yesubabu Adimulam	Head of the Department of Computer Science , Sir CRR college of Engineering,Eluru	-----	-----	----
3	prof.J.Saravanan	prof.J.Saravanan ,Bule Hore universite,Ethopia;.	-----	-----	-----
4	Prof.V.Radha Krishna Murthy	Head of the Department of Mathematics , Sir CRR college of Engineering,Eluru	Vector Space	About 220 Students	2500
5	Mrs.M.Padma Devi,	Assistant professor,Department of Mathematics, Sir CRR College of Engineering,Eluru	Vector Space	About 220 Students	2500
6	Dr.K.Venkataanadam	Principal And H.O.D of mathematics , MVNJS and RVR Govt Degree college, Makipuram	Subject Expert for BOS meeting	2,500
7	Dr. G. Sridhar	Lecturer in mathematics SVKB & Dr.K.S. Raju Arts & Science college Penegonda	Subject Expert for BOS meeting	2,500

List of Students Who Received Remedial Coaching During the

Academic Year 2017-2018

(Students who are not successful Odd Semesters)

CLASS	I B.Sc		II B.Sc		III B.Sc	
S.No	Regd. No	Name of the Student	Regd. No	Name of the Student	Regd.No	Name of the Student
1	171204	S.Ramya	161258	K.Rajanandhini	151105	K.kaveri
2	171208	N.Sravani	161411	T.Gayatri	151106	A.L.prasanna
3	171217	B.Kusuma kumai	161417	P.Premambika	151107	V.Neelima
4	171229	B.Anitha	161444	V.Sri Vidya	151112	K.Sai Swathi
5	171233	J.K.Venkata	161451	Ch.Mrudula	151120	N.pavani
6	171244	P.P.Nandna	161452	E.V.Rageswari	151127	S.Puja Prasad
7	171246	M.Nikitha			151128	T.Mounica
8	171248	B.Sowmya			151142	B.Anusha
9	171257	K.Kanaka Durga			151145	G.Bhavgavi
10	171325	Ch.Charlen Riya			151148	P.Phani Manasa
11	171410	Y.Lydia			151150	A.Rajeswari
12	171413	S.Chandrikasi Eswari			151152	K.Sandhya Rani
13	171444	K.Vedaya Sushma			151153	Y.Kranthi
14	171448	G.Sandhya			151154	S.B.V Sunayana
15	171612	Ch.Teresa Roselin			151156	Y.Pavani
16	171614	K.Dhana Laxmi			151157	M.Jhansi
17	171623	Anusha			151158	P.Sai Pavani
18	171625	S.Delsi Srividya			151209	S.Divya Sree
19	171626	S.Gayathri			151211	K.Puja rani
20	171627	P.Jahnavi			151213	K.Rama Devi
21	171629	V.susela			151216	B.Jahnavi
22	171637	Ch.Malleswari			151220	G.Kiranmai
23	171643	V.BhrigaSri			151222	S.Parvathi
24	171649	N.Devi Sai Chandana			151223	P.Naga Lavanya
25					151227	S.Sarada
26					151310	N.Jagadeeswari
27					151325	K.Subhadra kalyani
28					151328	A.S.U Bhargavi
29					151331	P.Deepika
30					151409	G.Krishna Veni

31					151416	T.Nee Harika
32					151417	K.Sai Lakshmi
33					151422	P.Deepthi
34					151425	V.Pravallika
35					151426	MadhuriMinz
36					151430	U.G.L Prasanna
37					151601	I.Gayathri
38					151604	K.Vyshnavi
39					151606	S.Roji
40					151607	K.Chandana
41					151610	M.Neha
42					151614	T.Pujitha
43					151617	B.Eswari
44					151622	V.Sai Keerthi
45					151625	A.SaiSpandana
46					151626	Ch.Indira
47					151628	B.Anusha
48					151633	M.Tanuja
49					151642	B.J.S.L.Bhavana

(Students who are not successful in Even Semesters of 2016-17)

CLASS		I B.Sc		II B.Sc	
S.No	Regd. No	Name of the Student	Regd. No	Name of the Student	
1	161117	N.Kanaka Sujatha	151102	S.Prasanna	
2	161119	Ch.Sravani	151104	M.Rajeswari Devi	
3	161142	G.Vani	151105	K.Kaveri	
4	161143	G.jyothika	151126	K.N.Mounica	
5	161165	P.Gani Suma	151127	S.Puja Prasad	
6	161166	M.Priyadarshini	151137	G.VamsiPriya	
7	161220	U.Sanathi Buela	151139	Y.Devi Chaitanya	
8	161242	T.Lakshmi Prasanna	151149	K.Sumalatha	
9	161247	K.Kalyani	151156	Y.Pavani	
10	161250	G.Manju	151159	K.Venkata Satya	
11	161258	K.Rajanandhini	151210	M.Sumalini	
12	161259	K.Sri Leela	151214	N.R.Venkata	
13	161317	A.Poojitha	151215	G.S.Lakshmi	
14	161322	R.Durga Bhavani	151216	B.JahnaVi	

15	161326	K.Naga Rani	151218	S.Hima Bindu
16	161328	D.Sai Spandana	151220	G.Kiranmai
17	161621	V.Srujana	151228	M.Anjali
18	161624	K.Yamunaphanichandana	151230	D.Vijaya Santhi
19	161632	K.Sravani	151239	A.Geetha
20	161635	A.Anusha	151240	N.Priyaka
21	161640	K.Vimala	151249	S.Mounika
22	161642	J.Kusuma	151331	P.Deepika
23	161643	Y.Durga Rajeswari	151350	V.Gowri Deepika
24			151417	K.Sai Lakshmi
25			151417	K.Sai Lakshmi
26			151420	K.Pavan Kalyani
27			151429	B.Naga mani
28			151430	U.B.Lakshmi Prasanna
29			151605	T.Anusha
30			151607	K.Chandana
31			151612	N.Elizibeth
32			151630	D.Meghana Uday
33			151631	A.Sravya
34			151641	B.Divya
35			151642	B.J.S.L.Bhavana