



CH.S.D.ST.THERESA'S COLLEGE FOR WOMEN

(AUTONOMOUS)

Affiliated to Adikavi Nannaya University, Rajamahendravram

Gavaravaram, Katta Subbaraothota, Sanivarapupeta Road, Eluru - 534003 A.P.

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CAPACITY DEVELOPMENT AND SKILL ENHANCEMENT ACTIVITIES

2022-2023

DEPARTMENT OF BOTONY

28th June 2022: Awareness talk on Organic farming – Botany department organized an awareness talk on Organic farming techniques. Mr.B.Someswara Rao gave an awareness talk on cultivation techniques like soil preparation, irrigation, pest and disease management of vegetables in Organic farming.



DEPARTMENT OF ENGLISH

A Certificate course on Communicative English, Computer Skills & Soft Skills Course for Newly Inducted I year students

An intensive Communicative English Course for I year degree students was launched on 2nd of August 2022. As part of compulsory certificate course.

This one month Programme aims at training students in spoken English, communication skills, soft skills training and confidence building through a number of activities designed by the department of English and conceptualized by Dr.Sr.Mercy, principal of the college.

The Programme aims to train students in participatory learning activities such as pair work, group work, role play, oral drill, songs with the help of multimedia support. Ice breaking sessions, activities, input sessions and sensitization programs form part of the training schedule. The Programme has been designed by Dr.R.Madhavi, Head of the Department of English and taken forward by Dr. Fathima Rani, Dr. D.Rajani Deivasahayam, Mrs. M.K. Padmalata, Mrs. Beaula Swarupa, Ms. Mani Bhagyasri, Mrs. R.Sonia Priyadarsini, S. Hima Bindu.

The programme also included Soft Skill training in relation to communication Skills which is activity based by Dr.Esther Kalyani, Ms.Hepsibah, Dr.Santhosh Jhawar, Dr. Madhavi Rani, Dr.Padmavathi, Dr.Gayatri.



DEPARTMENT OF PHYSICS & ELECTRONICS

Workshop on “Soldering Techniques”:

As a part of Curriculum, Department of Physics & Electronics organized a workshop on Workshop on “Soldering techniques” by Sri Srinivasa Rao, Senior Engineer, Industrial Automation works, Eluru on 16th and 17th September 2022.

He explained about different soldering and desoldering techniques using soldering gun ,wax and lead. They also learnt to solder different electronic components on a Printed Circuit Board.

Through this workshop students

- Identified various components present in Electricity & Electronics Laboratory
- Learned soldering and desoldering techniques
- Gained critical knowledge of each component (like resistors, capacitors, inductors, power sources etc.) and its utility
- Acquired skills regarding operation, maintenance and troubleshooting of various devices used in labs
- Designed simple electrical circuits on their own.



Department of Botany Production Organic Vegetables

June to November 2022: Theresian Organic kitchen garden – For the upgradation of Theresian organic kitchen garden ploughed the soil and mixed two trucks of cow dung and compost in the soil. After ploughing added 50kgs of Ghanajeevamrutham and sprayed dravajeevamrutham to increase the fertility in the soil. Cleaned all the plots of organic kitchen garden made as furrows and ridges in four plots. Drip pipes were cleaned and fitted on the lines to prevent water wastage.



Installation of Mulching sheet in Theresian organic kitchen garden - Before the installation of mulching sheet, prepared a flat primary bed and removed the big stones, weeds etc because which can cause damage the mulching sheet. Covered the bed by stretching the mulching sheet evenly. Mulching was done with mulching sheet in order to prevent the wind and sun drying the bare soil and to control the weed growth. Made a holes with the help of a hot pipe to plant the chilli and lady's finger plants.



Plantation programme in Theresian Organic kitchen garden – Botany department organized plantation programme in Theresian Organic kitchen garden. In each plot one variety of vegetable saplings like 100 saplings of brinjal, 100 saplings of cluster bean, 100 saplings of tomato, 100 saplings of chilli and 100 saplings of lady's finger were planted. Dr.Sr.Mercy, Principal, Sr.P.Rajitha, Vice principal participated and blessed the programme and planted the fruity vegetable saplings in the kitchen garden.



Soil preparation for leafy vegetables and seed sowing – Allotted area made as small plots for sowing the seeds. Shoveled the plots to loosen and aerate the soil. Removed all the

rocks and weeds from the plot. Finally, rake the entire area and created garden beds. In each plot broadcasted leafy vegetable seeds like thotakura, gongura, menthikura, chukkura, palakura, pudina and kothimeera.

Plantation in Theresian Organic kitchen garden – Due to the heavy rains some plants were damaged. So, in each plot one variety of vegetable saplings like 150 saplings of brinjal, 150 saplings of cluster bean, 50 saplings of tomato, 150 saplings of chilli and 150 saplings of lady's finger were planted. Pudina and Sweet potato plants are planted in between the spaces of two mulched beds.



Seed sowing in Theresian Organic kitchen garden – Some climber fruity vegetables like bottle gourd, cucumber, bitter gourd, ridge gourd, snake gourd and green beans seeds were in the kitchen garden.

Harvesting of Vegetables – Botany project students harvested 55kgs of lady's fingers, 20kgs of chillies, 50kgs of brinjal, 17kgs of Cluster beans, 8kgs of long beans, 3kgs of bitter gourd, 5 snake gourds, 12 bottle gourds and 10 bundles of gongura, 3kg of ridge gourd, 26 bundles of gongura, 20 bottle gourds and 14 bundles of gongura harvested sold to teaching staff and non-teaching staff.





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Eluru, Andhra Pradesh, India
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DEPARTMENT OF PHYSICS & ELECTRONICS

Workshop on “Demonstration and working of Electrical Appliances”(2022-23)

Department of Physics & Electronics organized a workshop on “**Demonstration and working of Electrical Appliances**” by Sri Srinivasa Rao, Senior Engineer, Industrial Automation works, Eluru on 7th February 2023 to understand the design, applications and practices of various electrical and electronic devices used and also their trouble shooting in our daily life. He explained the construction, demonstrated the working, operational principles of various instruments, skills of handling, Maintenance & trouble shooting of different devices like Generator, Motor, Dynamo & Transformer and how they are used in our daily life.

Some of the demonstration highlights are:

- Construction of a Transformer and measurement of its output voltage
- Construction of a Motor and its working
- Construction and working of a generator and the differences between ac and dc generators
- Construction and working of Dynamo

DEPARTMENT OF BOTONY:

Preparation of Herbal medicines:

22nd February 2023: Preparation of Herbal medicine - Under the guidance of Dr.B.B.R.G.Vijaya Lakshmi and Mrs.G.Rani, Botany internship student Bhagya Lakshmi prepared herbal medicine like Ayush Kadha Choornam. The raw materials are large amount of tulasi leaves, 100gms of sonti, little amount of ghee, 100gms of cinnamom and 50gms of black pepper. Fry all these material in ghee, then make it as fine powder. This choornam is used to immunity booster and also used to cure cough and cold.



2nd March 2023: Preparation of Herbal medicine - Under the guidance of Dr.B.B.R.G.Vijaya Lakshmi and Mrs.G.Rani, Botany internship students Sindhu, Spandana, Prasanthi and Nirmala prepared herbal medicine like Lehyam. The raw materials are 150gms of guggilam powder, 30gms of turmeric powder pour in 350gms of coconut oil mixed well. Then this mixture pour in bucket which contain full of water. Immediately rubbed the mixture gently by using both the hands. Finally burnol is ready which is used to reduce the burning sensation and pain, provides immediate relief from the burn, prevent burning wound infections.



Trends in Technology - Drone Technology:

29th March 2023: - **Fertilizer application by using Drone in Rice fields** - Students of Agriculture B.Sc. and III B.Z.C of CH.S.D.St.Theresa's College for Women (A), Eluru involved demonstration of drone application in agricultural fields of CH.S.D.St.Theresa's College for Women (A), Eluru in co-ordination with ICAR – IIOPR. Fertilizer application was done in paddy fields of Theresa's College using Drone technology. Drone application is time saving, reduces labour cost and spraying only required amount of chemicals there by optimizing the overall cost of cultivation for the farmers. Students created awareness on advantages and effectiveness of Drone application over other traditional methods of applications in fields to local farmers. Dr. Sister Marietta Pudota, Superior and correspondent, Dr.Sr.Mercy, Principal, Sr.Suseela, Controller of Examination, Dr.Mary Rani, Principal Scientist of IIOPR Pedavegi, Mr.Hemanth, Founder of Drone, Dr.B.B.R.G.Vijaya Lakshmi, HOD of Botany and Agricultural Sciences, Mrs.G.Rani, faculty of Botany, Ms.Ch.Lakshmi Deepika, Mr.V.Siva Nagi Reddy, Mr.M. Ravi Kumar faculty of Agriculture B.Sc. and students involved in the demonstration of drone.



DEPT OF ARGICULTURE

Cultivation, Harvesting, Production and Marketing of Sorghum in Agricultural fields:

To educate and promote cultural techniques, marketing skills of cereals and entrepreneurial abilities among students, Agriculture department started the production of Sorghum crop. Students of Agriculture department cultivated sorghum crop variety of CSH-9 in area of 30cents in college fields. Students followed various tillage operations and prepared the field for a proper tilth. The field was divided into various rows and sorghum seeds were sown in the rows by adopting the spacing of 45×15 cm. FYM and Basal fertilizers of urea, DAP, MOP were applied to the field before sowing. Various intercultural operations like weeding, pesticide applications were done. After 105 days of sowing, sorghum ears were harvested with the sickle and later the stalks were harvested and used for fodder purpose. Dr.Sr.Mercy, Principal of CH.S.D.St.Theresa's college for women and Various heads of the department, faculty members and agriculture students harvested the sorghum ears. After 2-3 days of drying the ears, they were threshed and winnowed by the students. Collected sorghum grains were packed in one kg covers and sold in the college. Students marketed the harvested produce by promoting various health benefits of Major millet, Sorghum in our daily life. Students utilised the opportunity provided by the college to cultivate, harvest and sale such a important millet cum cereal, Sorghum. Thus this activity helps in increasing the cultural skills and marketing strategies among the students.



DEPARTMENT OF MANAGEMENT STUDIES:

PROGRAM ON G20 SUMMIT 2023:

The Group of 20 (G20) is a premier forum for international economic cooperation playing an role in shaping and strengthening the global architecture and governance on all major international economic issues. The G20 was held by India this year with the theme “Vasudhaiva Kutumbakam” which mean “One Earth, One Family, One Future”

On 25th September 2023, The Students of Department of Management Studies represented some major countries of G20 to discuss about the agenda of G20 summit 2023. This helped the students to gain knowledge on G20 summit which discussed about the current global issues, economic crisis, the establishment of G20, coordinate policies related to green development and technological transformation. The students represented the countries of India, USA, UK, CANADA, JAPAN and ITALY. Dr. Sr Mercy, Principal encouraged the students to conduct more programs on current issues to foster awareness and meaningful discussions in the fellow students. Sr. Maria Christia, Vice Principal appreciated the efforts of students for showcasing the issues discussed by leaders at G20 summit 2023. The faculty of Department of Management studies conducted this Program to create insight on G20.




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CAPACITY DEVELOPMENT AND SKILL ENHANCEMENT ACTIVITIES 2021-2022

DEPARTMENT OF BOTANY:

Plantation in Theresian Organic Kitchen garden:

September 2021 to March 2022: Theresian Organic Kitchen garden was cleaned and vegetable saplings were planted by III BZC students. To promote healthy organic vegetable production Department of Botany, continue Theresian organic kitchen garden in half an acre area near community college. By using Eco-friendly manures like Vermi-compost, cow dung and Neem powder prepared the field to produce organic vegetables. Area is divided into two blocks, one is meant for popular vegetables like Brinjal, Tomato, Chilli, Cluster beans. 150 saplings of four varieties each of Brinjal, Chillies, Tomato and Cluster beans. Botany faculty Dr.B.B.R.G Vijaya Lakshmi, HOD of Botany, Mrs. G.Rani and Ms.B.Asha Latha guided the activity.





DEPARTMENT OF ENGLISH

The Department of English, Ch. S. D. St. Theresa's College for Women, Eluru conducted a Three day Bridge course for the I year students who joined the college in this academic year 2021-22. The programme was conducted under the able guidance of the principal of the college Dr. Sr. Marietta D' Mello and under the leadership of Dr. R. Madhavi, Head of the Department of English. Dr. D. Fathima Rani, Associate Professor, Department of English, coordinated the programme supported by Dr. D. D. Rajini, Mrs. M.K.Padma Lata, Mrs. K. Beaula Swarupa, Ms. D. Mani Bhagya Sree and Mrs. M. Sreelakshmi. The course was conducted from 6th Oct, 2021 to 8th Oct, 2021.



The Bridge Course is conducted as a part of the Induction Programme in order to optimize the Language skills of students coming from different backgrounds. The Bridge course is aimed at training students to develop interest and excellence in the global language, English. The methodologies adopted in the Bridge course included usage of Audio and Video Aids along

with songs, remedial language training and oral and aural skill training. The Students who hailed from all disciplines participated actively in the programme which enabled many to showcase their skills in the fields of Histrionics, Singing, Debating and Eloquence. The Sessions were allocated to bring home to the students the significance of Functional and Spoken English Language along with the important aspects related to Soft skills. The programme was organized as an integral part of St. Theresa's Induction programme for new entrants to the campus.



Nearly 250 students from all combinations attended the Bridge course and gained a lot to improve their LSRW skills in English language. Apart from the ICT and other audio visual aids, Peer learning was a great motivator for all the participants. Student participants like Ms.Sravani Burman, BBA, Ms. Cassy, BZC, Ms. Keerthana Joseph, HEP, Ms. and Ms. Jyothi Swarupa, MBN shared their talent and became an inspiration to the other students. The above mentioned students grabbed the opportunity of the Bridge course to showcase their eloquence and interact with the students on a given topic spontaneously. The students were made to take pledge to speak only in English on the campus as well as they were motivated to take up some practices like reading an English newspaper daily, conversing only in English, writing diary, writing small skits, anecdotes and biographies of the family members. Also they were encouraged to articulate in English short stories, Dialogues and watch shows, interviews and speeches which are rendered in English.



The best performers were selected from each day and were appreciated in a befitting manner. Overall the three day Bridge course was full of Interactive methods and student-centric. On the third day of the Bridge course feedback was collected and a quick test on the inputs of the three days was conducted in methods like written test, JAM, conversations etc.. The majority of students expressed their delight on the conduct of the Bridge course. They were happy for making them aware of various methods in which they can strengthen their communicative skills in English.

DEPARTMENT OF BOTONY:

Harvesting of Organic Vegetables:

November: Vegetable Harvesting – Cluster students harvesting Organic vegetables like 20kgs of Tomato, 10kgs of Cluster beans, 10kgs of Chillies, 9 kg of Brinjal's, 1 kg Angular gourd and leafy vegetables like Spinach, Coriander leaves are Coriander leaves, Gongura, sold to the staff and npn-teaching staff.





Nursery raising - November 2021: Nursery raising main aim is to grow plants in open environment, maintain a good quality of plants and protect the plants from pests and diseases. The water sources for the nursery beds through drip irrigation. III BZC cluster students' collected from previous healthy vegetable crops. As a part of their practical III BZC students have filled the nursery trays with coco-peat, NADEP compost, Neem powder and soil. Sown the vegetable seeds such as tomato, brinjal, chillies, cluster beans, long beans, leafy vegetables in the nursery trays. Botany department along with the students have distributed the saplings of vegetables i.e., tomato, Brinjal Beans & Chilli in the campus. They have sold the bundle (2 Brinjal, 2 Tomato, 2 Beans, 2 Chilli) at a reasonable price of just rupees 10. Later the saplings were distributed to various departments.



MANAGEMENT STUDIES:

CPBFI Program

Customized Corporate Training for Professional Development:

Virtual Batch Launch of CPBFI 389 (Certificate Program in Banking, Finance & Insurance) of Ch.S.D. St. Theresa's College for Women (A), Eluru in collaboration with Bajaj Finserv was held on 10-12-2021. CPBFI is a customized 100 hour training program designed by Bajaj Finserv for graduates across India in collaboration with industry experts & educational institutes. The program aims to make graduates employable for the Banking, Financial Services and Insurance Sector.

The first batch consists of 56 Students from final BBA & B.Com. The coordinator of the program Dr. Santosh Jhawar welcomed & introduced the Bajaj Team to the students. She briefed the students as to how this program will equip the participants with the right attitude, skills and industry knowledge, thereby going beyond a typical skill development program.

Ms. Pallavi Gandhalikar, Deputy General Manager, Bajaj Finserv interacted with the students with an aim to discover new talent & potential in every student. Mrs. Swatilekha & Mr. Mitesh from Bajaj group set the technology platform and ensured smooth, effective delivery of the sessions.

Dr. Sr. Marietta D' Mello, principal of the college, congratulated the Bajaj Finserv fraternity for taking up the National Initiative under CSR activity. She appreciated the idea of joining hands with many institutions to unlock the potential of students and build a talent pool for a resurgent India.

The program came to an end with a vote of thanks proposed by Mrs. P. Vijayalakshmi, assistant professor in the Department of Management Studies.



DEPARTMENT OF PHYSICS:

Workshop on “Printed Circuit Board designing & Manufacturing”

Department of Physics & Electronics, has organized a Workshop on “Printed Circuit Board designing & Manufacturing” from 11th to 13th April 2022 in collaboration with MICROLINK Technologies, Vijayawada.. Altogether 108 students of II B.Sc. MPC, II B.Sc. Electronics and M.Sc. Physics have participated in this work shop. The resource person was Sri. V. Govinda Rao, Director, Microlink Information Technologies, Vijayawada.

The workshop was intended to enhance the skill development for the students, to have hands-on experience and to facilitate the students to learn more to explore it. Mr.V.Govinda Rao, the resource person of the day and his team presented the topic with the help of Power point presentation in a systematic manner.

On first day, he explained terms related to PCB Manufacturing, and then the process involved in designing and manufacturing of PCB. They involve the following steps:

- ❖ Art Work
- ❖ Green mask/ Solder mask
- ❖ Tinning
- ❖ Legend Printing/Silk Screen
- ❖ Drilling
- ❖ Etching
- ❖ Chemicals used in etching
- ❖ Process of designing

He explained about the types PCB and then he introduced two interesting tasks that students are going to learn and perform during the workshop. They are

- Designing Regulated power supply, IR Remote tester, Night lamp using PCBWizard Software
- Mounting various electronic components and constructing Regulated powersupply, IR Remote tester and Night lamp circuitry on a Single PCB.
- The methodology with hands-on demonstration and mind-on exposure will add wings to the learner's imagination.
- On first day the students have designed the circuits for the above projects using PCB

Wizard version 3.0.

- On second day the students printed the circuit on PCB using screen print technique and have practiced etching and drilling the PCB
- Third day was very much interesting as they mounted various electronic components of the projects on PCB and they have connected the circuits by soldering the components using lead and gun.

All participants were given time and guidance to do the projects on their own.



DEPARTMENT OF COMMERCE:

Financial literacy week celebrations

On 29th of February, the DCCB Bank and NABARD conducted a workshop on the occasion of financial literacy week awareness. All the department members have participated in that workshop



Business start ups by Management Studies Department :

Customized handmade Jewellery and Accessories (2021-22)

Name of the student entrepreneur -

- Ms. Dharani Devika- II MBA
- Ms. A. Kusulamma- IIMBA

Platform – Facebook, Instagram

Specialities - Customized Handmade jewellery products were advertised online and orders were undertaken. Finished products were then delivered to said customers via post. Payment was accepted on PayPal, Google pay, Rupay.

Products-accessories made with Silk thread, Zari beads and stone.

Success story – Business conducted so far, the team has had around 958 followers and sales have been made for nearly Rs.7000.

Description – The two students invested an initial supported by the Management Studies Department and the college to buy necessary material for crafting and designing jewellery with popular and modern designs. They were self-taught and Mentored by the department members. They attempted to sell their products online.

Training – Training for preparation of handmade customized jewellery and accessories has been provided through programs organized by the management studies department under the auspices of the St. Theresa's centre for enter entrepreneurship innovation and start-ups STCEIS directions of how to market products have been given to the students through conduct of awareness programs on marketing strategies.

Innovative Ideas – workshops on generation of innovative designing have helped students to come out with trendy designs and eye-catching jewellery.



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CAPACITY DEVELOPMENT AND SKILL ENHANCEMENT ACTIVITIES

2020-2021

DEPARTMENT OF ENGLISH:

Orientation Program for Newly Recruited Faculty with three years and below three years of service

An orientation program was conducted for newly inducted faculty of St. Theresa's college with an aim of training them in the quality parameters that leads them to professionalism. Dr.R. Madhavi H.O.D. English and Mrs. Ume Salma H.O.D languages the resource persons who initiated in the young faculty the different values and traditions the institution stood for Mrs.Ume Salma gave an orientation on "Etiquette and Ethics" in teaching standards while Dr.Madhavi spoke about "Professional Excellence" in the up gradation of teaching standards Around 36 faculty expressed this satisfaction and happiness.

Dr.Sr.Mariatta D'Mello, Principal under whose patronage this program was organized flagged off the event with her motivating speech and energetic enthusiasm. The program came to an end with the self introduction of the faculty members



DEPARTMENT OF PHYSICS:

Workshop on “Role of SMPS (switching mode power supply) in LED bulb Manufacturing”

The Dept. of Physics & Electronics has inaugurated a Two Day Workshop on “Role of SMPS (switching mode power supply) in LED bulb Manufacturing” on 21st Dec 2020 in collaboration with MICROLINK Information Technologies, Vijayawada. This program is intended to train the students in designing & making LED bulbs during 21st& 22nd December 2020. In this altogether 50 M.Sc. Physics & B.Sc. Electronics students along with 8 faculty have participated. The students are given hands on experience in making LED bulbs. This program is taken up under NISP & IIC. This Program is organized under the able guidance of Dr.Sr. Marietta D’Mello, Principal, Dr.Sr.K.Showrilu, Vice-Principal, P.G. Directress & Dr.A.Nirmala Jyothsna, Head, Dept. of Physics & Electronics.

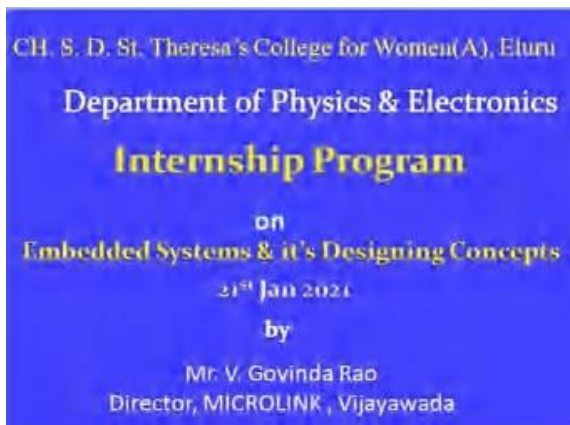




Workshop on “EMBEDDED SYSTEMS & IT’S DESIGNING Concepts”

Dept. of Physics & Electronics has inaugurated Internship Program “**EMBEDDED SYSTEMS & IT’S DESIGNING Concepts**” on 21st Jan 2021 in collaboration with **MICROLINK Technologies**, Vijayawada. **Mr. V. GovindaRao**, Director, **MICROLINK Technologies** was the Resource Person & trainer for this program. III B.Sc. Electronics Cluster students have participated in this during which they have learnt theoretical concepts & they have also learnt practical skills in doing the projects related to Embedded Systems. This Program is organized under the able guidance of Dr.A.NirmalaJyothsna, Head of Dept. of Physics & Electronics. The Projects taken up by the students are

1. RFID Based Attendance system using GSM modem.
2. Automated lighting control system for High ways using Arduino with Solar Panel.
3. Smart Crop Protection system for animals.
4. Accident avoiding system using drunk & drive & eye blinking (anti-Sleep)
5. Pre- Warning system for accident using Ultra-sonic distance sensor & Arduino.
6. Crop Protection against Rainfall.
7. Water Quality Monitoring System using Arduino.
8. Home Security Alarm System.
9. Soap Dispenser.



ST. THERESA'S CENTRE FOR ENTREPRENEURSHIP INNOVATION AND START-UPS STCEIS

1. Name of Business - Delicious handmade cakes and confectionery

Name of the student - Divya Sree Reddy

Mode of Marketing - Offline, Home delivery

Date of launching business- November 2020

Description - Orders are accepted from clients through word of mouth and via pamphlets distributed in the neighborhood of Eluru City.

Specialties- Preparation of a variety of cakes on order and delivered to customers, customized to suit occasions like birthdays and celebrations.

Types- Mango Rousse cake, Dark chocolate, chocolate truffle, pinata cake, ice cream cake, and homemade chocolates. Facility of home delivery of cakes is available.

Success story- so far the student has been able to deliver around 10-15 cakes in a year and each cake has got her the profit margin of rs.300/- each. Homemade chocolates with specially made gift wrapping have also seen a wide clientele in and around Eluru town. The student plans to expand her business by including one more partner to cope with the work load. Collaborations with local bakeries - Sweet magic, Athidi hotel, also on the

cards in the year 2021-2022.

Mode of preparation- So far the student has taken the support of the department of management studies and college to fund her project and also the help of student teamsto market her product. Most of the products are made by herself with support from her family and friends.

2. Student Start-up – “Manufacturing of LED Bulbs”- 2020-2022 (Mentored by Physics & Electronics Dept)

Students who involved –

- P. Anupriya - III Bsc MECS
- D. Sucharithi - III Bsc MECS
- K. Jyothisree - III Bsc MECS
- K. Bhagya sri - III Bsc MECS

Mentor – Mrs. B. Kanaka Durga asst prof. Physics Dept

Start-up Regd – The start-up is registered under government portal for MSME Udyam. Reference No Udyam – AP – 12 – 0005930.

Name of the Start-up – LED bulb manufacturing in collaboration with Microlink Information technologies Vijayawada.

Training Given – 30 Electronics students were trained in LED manufacturing in St. Theresa’s Incubation centre established by the IIC.

Description – with an initial investment of rupees one Lac sponsored by the management the team undertook purchase of raw material from a registered company in Delhi. Equipment to assemble the parts was procured with an initial expenditure of 1 Lac

the team marketed 200 LED bulbs to buyers from Eluru at ₹60 per LED bulb as part of the first drive conducted in 2020. This year the target sale of 1000 LED bulbs of 10W is planned with an estimated profit of rupees 40,000/-.

Process – the components of the LED bulb are soldered on the PCB and the PCB circuit is inserted into White Mountain cap of the bulb. The White Mountain cap is placed into the B22 cap which is locked using the instrument tikki fitting. The wires of the PCB are solded on the BCC cap an aluminum plate is placed and locked using the dumping kit, thermal gum is used for this. The connections are made using a soldering rod. The whole fabricated part is covered with the cap.



Success Story – With good sales being recorded in the initial sales, that team wishes to carry out further marketing in collaboration with the STCEIS incubation centre.

Student Start up – Marketing of Indoor Plants and Ceramic Pots – Green Thumbs

Mentor:Dr.B.B.R.G.Vijayalakshmi

Students Entrepreneurs:

- K.Meghana – II BZC
- V.Kalyani – II BZC
- M.Sumitra – II BZC
- G.Tejaswini – II BZC
- Ch.Durgadevi – II BZC

Business Sales Model:

1. **Setting up of sales Kiosk on campus**
2. Digital sales via Instagram, Facebook & Whats app

Training: Students were taught about the ways of procuring ceramic pots at a cheaper price and using them to showcase ornamental plants grown in the greenhouse. A proper dimension of mixing potting soil was demonstrated through workshops & hands-on training programs.

Activity: Students were able to sell around 120 potted plants. Marketing was done chiefly for women in and around the college campus. The plan on cards is to expand outlets to all localities of Eluru through pamphlets & advertising. On –line sales was also made a possibility.

Success Story: With an initial investment of around Rs.50,000/- a profit of 32,000/- was made proving the huge success of this initiatives undertaken under the aegis of STCEIS.

The students plan to take up this business on a larger scale and cater to celebrations and functions where plants are now a substitute for bouquets. The startup has been funded by the management and has been mentored by Dr.B.Vijayalakshmi.




PRINCIPAL

CH.S.O.ST. THERESA'S COLLEGE FOR WOMEN
ELURU-534003, ELURU DIST., A.P.



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(AUTONOMOUS)

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CAPACITY DEVELOPMENT AND SKILL ENHANCEMENT ACTIVITIES

2019-2020

DEPARTMENT OF ENGLISH:

June 25 th -28 th , by (U.G) Department of English conducted Bridge Course as a part of the Induction Programme conducted for a first year students The Bridge Course was conducted in four sessions starting from 25 th June to 28 th June, 2019. The programme intended to brush up the LSRW Skills of the students in English language accompanied by modules like importance of English language ,English as a world language, importance of communication Skills, Grammar, spoken skills introducing one self and other conversations, letter writing, small talk, public speaking, developing one's vocabulary and functional English. The Bridge Course was conducted in an interactive method with activities conducted for each module. Students actively participated in conversations, skits and action songs which helped to improve their pronunciation, accent and intonation. The ICT tools like ppt and videos were used extensively. Nearly 700 students participated in Bridge Course and the course consummated with a test. The Principal Rev.Dr.Sr. Marietta D'Mello addressed the students in the final session and stressed over the need for English in Professional life.



DEPARTMENTS OF PHYSICS & ELECTRONICS :

Departments of physics & electronics has organized a three day **Workshop on “Internet of Things”**(2019-20), on **29, 30 & 31 August 2019**. Sri. V. Govinda Rao, Director Technical **Microlink Peripheral Pvt. Ltd**, Vijayawada was the Resource person. More than 100 students of Physics & Electronics of III B.Sc. M.P.CS & M.E.CS actively participated in it. In this workshop the concepts & basic Electronics behind IOT & its application in Smart technologies was very clearly explained. The students have put the theoretical knowledge into practice by developing some smart appliances like “LED blinking”, “Buzzer”, Relay ON & OFF, Bluetooth, Smart Mobile interface for home Automation, ADC interface for measuring temperature & Light intensity.



CENTRE FOR FINE ARTS: Under RUSA 2.0 (Component 8) Centre for Fine Arts was inaugurated on 29th July 2019. Chief Guest for the programme was Ms.I. Aruna Kumari, Expert Teacher from PIDILITE INDUSTRIES, Mumbai. Under this programme Certificate/ Diploma/ Advance Diploma courses were organized for Students, Faculty and Housewives. Classes commenced from 30th July 2019.



Workshop on “PCB Designing & Manufacturing”

Dept. of Physics & Electronics, has conducted a Workshop on “PCB Designing & Manufacturing” on 18th & 19th NOV 2019 in collaboration with MICROLINK Technologies, Vijayawada, Sponsored by RUSA(2.0). In this M.Sc. Physics & II B.Sc. Physics & I B.Sc. Electronics students have participated during which they have learnt theoretical concepts & they have also learnt Circuit designing using PCB Wizard, Etching process, Drilling, Mounting the Electronic components on PCB and they have all done three projects namely...Power Supply, Night lamp, & IR tester. This program instilled confidence in them so that they can take up more innovative & higher level projects in future. This Program is organized under the able guidance Dr.Sr.K.Showrillu, Vice Principal & Dr.A.Nirmala Jyothsna, Head, Dept. of Physics & Electronics.



Internship program on “EMBEDDED SYSTEMS & IT’S DESIGNING”

The Department of Physics & Electronics, has inaugurated a six Day Internship program on “EMBEDDED SYSTEMS & IT’S DESIGNING” on 13th NOV 2019 in collaboration with MICROLINK Technologies, Vijayawada, Sponsored by RUSA (2.0). This program is conducted from 13th Nov to 19th Nov 2019. In this M.Sc. Physics & III B.Sc. Electronics students have participated in this during which they have learnt theoretical concepts & they have also learnt practical skills in doing the projects related to Embedded Systems. This Program is organized under the able guidance of Dr.Sr.K.Showrillu, Vice Principal & Dr.A.Nirmala Jyothsna, Head of the Dept. of Physics & Electronics.

Workshop on usage of ERDAS software-- Training on RS & GIS image analysis

Training on RS & GIS image analysis was organized by the Dept. of Physics & Electronics in GIS lab. In this, the resource person was Mr. Sai Venkateswar Reddy from Hexagon Solutions, Hyderabad. All together twenty faculty from dept of Physics, Mathematics, Chemistry, Computer science have participated in this training. This is a very useful tool to map the data used in different projects on 11th & 12th Dec 2019.



DEPARTMENT OF COMMERCE:

TRAINING ON GST, INCOME TAX AND TALLY

Department of Commerce organised two day Training programme on ‘GST, Income tax and Tally’ on 9th and 10th January 2020. This was inaugurated by Principal Dr Rev. Sister Marietta D’Mello by lighting of lamp. Sri G.Srikanth , one of the leading Chartered Accountants in W.G.Dt, Secretary of CA Institute, W.G.Dt was the resource person who delivered a talk and discussed both theory and practical issues on GST and Income tax on 9th January and on second day students were trained by Sri VSV.Chalapathirao, MS (IT) on Tally and by Mr RaviTeja on GST returns.

Department of Commerce arranged a lecture on Opportunities for paradigm shift in

Management by Dr. J.Sanathkumar on 25th January 2020, Principal Ideal College thanuku. It was commenced by greetings from Principal Dr.Rev.Sister Marietta D' Mello. The programme came to an end with an interactive session with students.

H.O.D of Commerce Department Dr. R.S.N Sarma, Faculty Mrs.R.Jagadeeswari, Sri.Subhrahmanyam, Mrs.Rajitha, Ms.Preethi, Mrs.Harika and B.Com. students participated in the program.

St. Theresa's Centre for Entrepreneurship Innovation and Start-ups STCEIS

❖ Student Start up – “Craft and Jute products” (2019 - 2021)

Students Involved –

- P. Jyothi (1908)
- Uma devi (1901)
- K. Durga Bhavani (1904)
- P. Sai Anjali (1907)

Mentors – faculty of the Community college, St. Teresa's in collaboration with St. Teresa's women's cell.

Training – after undergoing training in production of jute products - lunch bags, cotton bags, purses, Garland making, handbags, clay jewellery.

For a period of one-year 2019 - 2020 under the guidance of Mrs. Aswiya Tahera and Ms. Baby Sarojini, Ch. Sai leela rani faculty of the college the students imbibed the various factors of marketing and producing these handicrafts on a large scale initial exhibitions and sales promotions were facilitated by the women's cell.

Collaboration – whole sales of the West Godavari district, especially from Eluru, big bazaar, various other outlets have been roped into design and sell these wares social media has been used to advertise the products.

Success story – The team has been funded in the initial stage by the women's cell and the management an initial market subway had been conducted and orders are now on the rise. An

initial profit of rupees 9000 has encouraged the team to take up more orders. The initial sales was promoted by the women's sell off St. Teresa's in February 2021 here as within house customers. This year 2021 - 2022 the sales of the products will be carried out in nearby towns and villages through collaboration with local women's groups, Rotary Club and Lions club. The turnover is expected to rise.

❖ **Student Start up – Vermi Compost Production (2019-21)**

Students Involved:

1. K.Meghana Harshitha –III BZC
2. M.Sumitra – III BZC
3. K.Manjula –III BZC
4. N.Hemalatha – III BZC
5. P.Sudha Rani – III BZC
6. Y.Harika – III BZC
7. K.Susmitha Reddy III BZC

Mentor: N.Laxmi Prasana Asst.Prof Zoology

Regd: The startup is registered under government MSME portal

Name of the startup – STC Vermi compost

A production, maintenance and marketing of large scale vermin compost by the students.

Objective:

- To provide organic fertilizers to citizens of Eluru and nearby villages
- To conduct sales through STC outlets
- To promote entrepreneurial skills and solid waste management skills in students
- To motivate public to use vermi compost through pamphlets and training programmes.

Training & Procedure: The students were provided necessary training relating to production, maintenance and marketing of Vermi composting by the Eco Club initiatives. An initial investment of Rs. 4,00,000 /- was sponsored by the management for construction of Vermi

compost unit, setting up of compost beds for earthworms. Students were given hands-on training and began to produce Vermi compost. In a year 800 kgs of Vermi compost were prepared and marketed @ Rs.10/- per kg. Every 40 days compost is ready for packing.

The target for forthcoming years is upto 2000 to 3000 kgs.

Success Story: Due to the commendable sales of packets of Vermi compost support by the Zoology Department this start up also plans to rope in unemployed women to join hands in production. This initiative is carried out under the auspices of the STCEIS.




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CAPACITY DEVELOPMENT AND SKILL ENHANCEMENT ACTIVITIES 2018-2019

DEPARTMENT OF ENGLISH

An **ORIENTATION PROGRAMME** was conducted on 18 - 19th June 2018 for the newly inducted with the students along with their parents by the UG Department of English. The aim of this programme was to remove the inhibitions of the students to orient the students regarding various rules and regulations of this campus, various facilities, courses, programmes, various cells, committees etc. The programme was inaugurated by Correspondent Sr Lourd Mary who blessed the gathering. Dr. Sr Mercy wished the students a good academic year and also informed the students to update their details in the new Theresian App launched this academic year. **Dr. Sr. Marietta d' Mello, Dr. R. Madhavi**

H.O.D of English and Mrs. Ume Salma H.O.D of Hindi flagged off the first day of the programme. The second day of the programme constituted short presentations various head of the department on different aspects of collegiate life through demonstrations, lectures, and PPT presentations. The orientation was a resounding success as it was interspersed with lively dances, songs and speeches by II&III year students.



DEPARTMENTS OF PHYSICS & ELECTRONICS

Workshop on “PCB Designing & Manufacturing”

Dept. of Physics & Electronics, has organized a Workshop on “**PCB Designing & Manufacturing**” from **30th August to 10th September 2018** in collaboration with MICROLINK Technologies, Vijayawada, Sponsored by RUSA (2.0). In this technical session, 50 students belonging to I B.Sc(MECS), II B.Sc(MECS) have actively participated.

Dr.A.NirmalaJyothsna, Head, Department of Physics & Electronics gave the opening remarks in which she stressed the need for updating Knowledge in Electronics & learning the Circuit designing and manufacturing skills to put the theoretical knowledge into practice which enables the students to take up innovative projects.

- ❖ The resource person Mr.V.Govinda Rao explained the theoretical concepts such as Copper clad: Popper Epoxy & Glass Epoxy. They have also learnt Artwork which means different kinds of layouts in PCB (Printed Circuit Board) manufacturing.
- ❖ After getting the layout, students have printed the layout on PCB. For printing they have used screening technique. Finally they got entire layout on PCB. The students have done **Etching** which is a process of removing unwanted copper on PCB and the students have done **drilling** on PCB at which the components have to be inserted and the soldering has to be done in circuit making.
- ❖ The students have designed the circuits of Power supply, IR Tester and Night lamp using PCB Wizard 3.1.5 software in the Computer lab. Later the selection of components on PCB has been done by the students followed by the insertion of components of PCB such as resistors, diodes, transistors and LEDs into it and the components were mounted according to the circuits.
- ❖ All the three circuits i.e., Power supply, IR Tester and Night lamp were fixed on PCB by soldering the drilled holes with lead. After soldering, the extra wires of components were cut and fixed. This session was ended up by testing the manufactured PCBs with the battery by the technical personnel Mr. Kishore & Mr. Naidu.
- ❖ The workshop has ended with Valedictory session. Students have gained knowledge on circuit designing & they have learnt the skills of etching, drilling, mounting, soldering and connecting the circuits on the printed circuit board. This workshop has instilled confidence in them so that they can take up more innovative & higher level projects in future.

Dr.A.NirmalaJyothna, Head, Dept. of Physics & Electronics has given her valuable message by explaining the importance of learning PCB designing & Electronic devices which provides job opportunities in the field of Electronics. Later students shared their opinion on the usefulness of this workshop. They have highly appreciated the management and the department for organizing such a work shop which has helped them gain the most important knowledge in PCB designing and manufacturing and they opined that this workshop has provided an opportunity to gain practical skills which boosted their self confidence.



DEPARTMENTS OF MATHEMATICS AND STATISTICS

Training program on arithmetic:

Department of Mathematics and Statistics organized a three Day training program on Arithmetic from 18th to 20th December, 2018 for all the final year Mathematics Students.

The Resource Persons were Mr. T.Seshagiri Rao -Arithmetic skills Trainer, Mrs Sanvitha – Arithmetic Basic trainer, about 250 Students were benefitted through this programme.

The topics covered were as follows

Date	Day	Topics Covered
		Arithmetic
18-12-2018	Tuesday	Number System, Divisibility rules, LCM & HCF, Ratio & Proportions
19-12-2018	Wednesday	Problems on Ages ,Partnership, Aggregation, Time and work
20-12-2018	Thursday	Percentage, profit/loss



DEPARTMENT OF MICROBIOLOGY

A workshop was organized for the III year Microbiology Cluster students on “ Depericarping of Oilpalm Seeds” Dr. Anitha Pedapati, Scientist, ICAR – IIOPR, Pedavegi acted as the resource person.



The students participated actively as it enhances their skill. Name of the Startup – “I can win your Heart” Designer wear 2018-2022

Name of students Entrepreneurs:

- B.Kiranmayi – III B.SC HSC

Product: Apparel Designing, Embroidered sarees, frocks, Designer wear.

Clientele: Through Instagram & Facebook – up to 25000 of clients ranging from 10 to 80.

Business Model: Business to business (b2b) and
Business to customers (b2c)

Marketing Strategies: Purely handmade customized articles are prepared and delivered at affordable price at flexible time span.

Marketing Tools: Online tools of Whatsapp and Instagram have been used to advertise and regularize customer base

https://instagram.com/i_can_win_arts_and_crafts?utm_medium=copy_link

Success story: The students had started with an initial capital of 10,000/- supported by the Management and Dpt. of Home Science. She had launched her on-line business in 2018. Today she has been able to make a profit of more than 20,000/- per annum. She plans to rope in more designers and tailors to help her cater to the ever growing clients. Her products include designer wear such as designer sarees, blouses, churidhar sets and frocks.

The Startup has been mentored by Dr.Padmaja, Head of Home Science Department and conducted with training and support of St. Theresa’s Centre for Entrepreneurship, Innovation and Startups STCEIS.

DEPARTMENT OF APPLIED SCIENCES:

On November 20th , 2019 Demonstration of “**Cake, Biscuit and Bread making**” by Bakers from Dawood Bakery was arranged to all the II year Applied science students as a part of their Nutrition paper - Bakery and confectionery.

November 21, 2019 - As a part of POSHAN ABHIYAN, III B.Sc. Nutrition cluster students visited Joy play school, Eluru and emphasized on “Right choice of Food and Hand washing practices” to the school children. Staff members Mrs.B.Lakshmi Sudha and Mrs.Jaya Sheela accompanied the students throughout the programme.



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