

## Maris Stella College, Vijayawada

### Departmental Activities

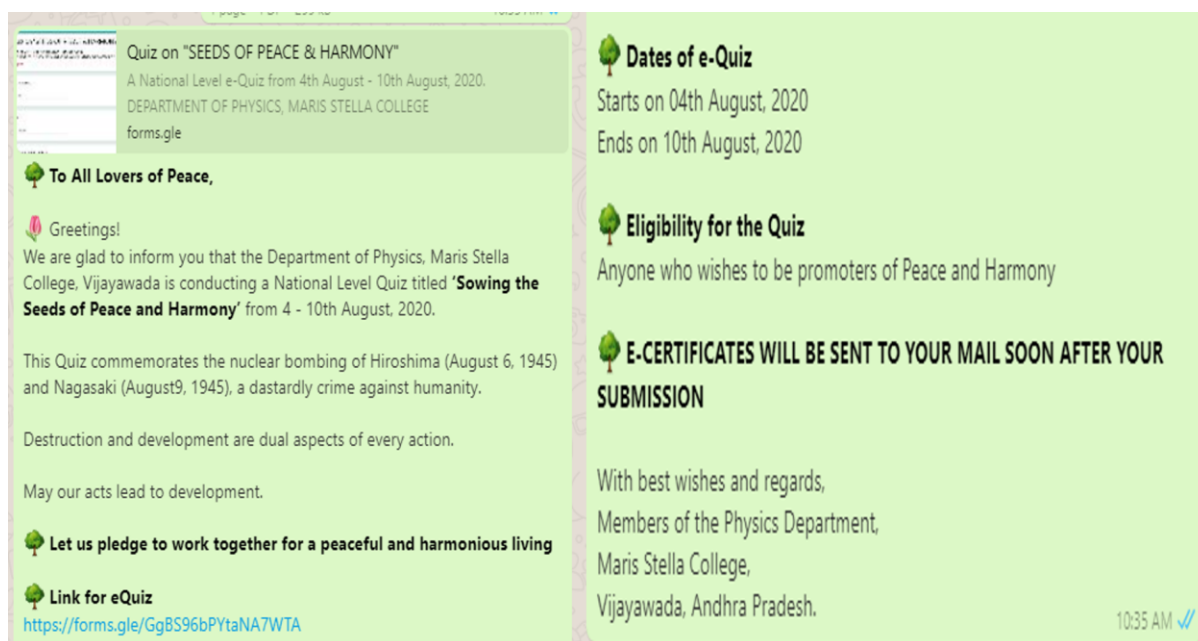
2020-21

➤ **Quiz on "Seeds of Wisdom and Harmony"**

The Department of Physics, Maris Stella College, Vijayawada conducted a National Level Quiz titled 'Sowing the Seeds of Peace and Harmony' from 4 - 10th August, 2020.

This Quiz commemorated the nuclear bombing of Hiroshima (August 6, 1945) and Nagasaki (August 9, 1945), a dastardly crime against humanity and invited all peace lovers to pledge for harmonious living.

Number of persons participated in the quiz: **1088**



**Quiz on "SEEDS OF PEACE & HARMONY"**  
A National Level e-Quiz from 4th August - 10th August, 2020.  
DEPARTMENT OF PHYSICS, MARIS STELLA COLLEGE  
forms.gle

**To All Lovers of Peace,**

Greetings!  
We are glad to inform you that the Department of Physics, Maris Stella College, Vijayawada is conducting a National Level Quiz titled '**Sowing the Seeds of Peace and Harmony**' from 4 - 10th August, 2020.

This Quiz commemorates the nuclear bombing of Hiroshima (August 6, 1945) and Nagasaki (August 9, 1945), a dastardly crime against humanity.

Destruction and development are dual aspects of every action.

May our acts lead to development.

**Let us pledge to work together for a peaceful and harmonious living**

**Link for eQuiz**  
<https://forms.gle/GgBS96bPYtaNA7WTA>

**Dates of e-Quiz**  
Starts on 04th August, 2020  
Ends on 10th August, 2020

**Eligibility for the Quiz**  
Anyone who wishes to be promoters of Peace and Harmony

**E-CERTIFICATES WILL BE SENT TO YOUR MAIL SOON AFTER YOUR SUBMISSION**

With best wishes and regards,  
Members of the Physics Department,  
Maris Stella College,  
Vijayawada, Andhra Pradesh.

10:35 AM ✓



**MARIS STELLA COLLEGE**  
(Autonomous)  
A College with Potential for  
Excellence  
Vijayawada, Andhra Pradesh



### **To All Lovers of Peace,**

The Department of Physics,  
Maris Stella College, Vijayawada, proposes  
to hold a National Level Quiz titled '**Sowing  
the Seeds of Peace and Harmony**' to  
commemorate the nuclear bombing of  
Hiroshima (August 6, 1945) and Nagasaki  
(August 9, 1945), a dastardly crime against  
humanity.

The quiz will remain open from 4 - 10th  
August, 2020. We hope for wide partici-  
pation. You are welcome to refer to open  
educational resources to find correct  
answers. While browsing, you will be  
learning many facts about the atomic  
bombings and the pain and devastation it  
caused.

Destruction and development are dual  
aspects of every action. May our acts lead to  
development. Let us pledge to work  
together for a peaceful and harmonious  
living.

Yours sincerely  
Members of the Physics Department,  
Maris Stella College.

### **Link for the Quiz:**

**<https://forms.gle/Y3QQY7wvf65ZKduG7>**



➤ **International webinar on “Impact of Physics in Healthcare”**

The Department of Physics, Maris Stella College, Vijayawada organized a three day international Webinar on “**Impact of Physics in Healthcare**” in collaboration with Emtron Technologies, Mumbai from 14th to 16th October 2020. The objective of this webinar was to provide delegates with the knowledge of biosensors and bio instrumentation that use principles and concepts of physics for medical imaging, and health-tracking applications.

A Three Day International Webinar on  
**IMPACT OF PHYSICS IN HEALTHCARE**

Organized by the Dept. of Physics, Maris Stella College, Vijayawada in collaboration with Emtron Technologies, Mumbai



**Maris Stella College**  
(AUTONOMOUS)  
A COLLEGE WITH POTENTIAL FOR EXCELLENCE  
VIJAYAWADA-8, A.P, INDIA  
ISO 9001:2015 CERTIFIED

Since 1962

-  UG & PG students, Research Scholars and Faculty of Physical and Biological Sciences
-  Certificate will be given to all registered participants after submission of feedback.
-  **NO REGISTRATION FEE**  
<https://forms.gle/5srDQiRo3DMXYNpk9>
-  **3.00 - 4.30 PM** on all three days



**PRINCIPAL & CONVENOR**  
Dr. Sr. Jasinthra Quadras

October  
**14**

Impact of  
Wearable  
Technology in  
Healthcare

October  
**15**

Spice of  
Physics in Life:  
Application in Bio  
Instrumentation

October  
**16**

Promising areas of  
Bio-Physics for  
Higher Education &  
Job Opportunities



**DAY 1**  
**DR. Y. S. RAO**  
PhD (ES-IIT-Bombay),  
Vice-Principal, Dean R&D,  
Sardar Patel Institute of  
Technology (S.P.I.T),  
Director Emtron Technologies,  
Mumbai.



**DAY 2 & DAY 3**  
**DR. RAJ KUMAR VUTUKURI**  
Postdoctoral fellow,  
Dept. of Neurology & Neurosurgery,  
Department of General  
Pharmacology and Toxicology,  
Pharmazentrum Frankfurt,  
Germany.

**COLLABORATOR**  
Dr. Y. S. Rao, S.P.I.T

**ORGANIZING SECRETARY**  
Dr. G. Little Flower

**EMPOWER, ENRICH, EXCEL & TRANSFORM**

**LINK: [Phy.dept.activities 2020-21](https://forms.gle/5srDQiRo3DMXYNpk9)**

## 2019-20

1. **Summer Internship at Efftronics Pvt.Ltd., from 22nd April to 5th June, 2019.**  
Ms. P. Likitha Santhoshini (III MPC), Ms. S. Asha (III MPC) and Ms. M.Divya Bharathi (III MPC) have completed their internship for 45 days.
2. Twenty-three students took part in a Certificate Course on MATLAB offered by the ECE department of Andhra Loyola Institute of Engineering and Technology (ALIET) from 30th April to 7th May 2019.
3. Twenty-eight students from III MPC took part in a Certificate Course on ‘**Digital Design Using Verilog HDL**’ offered by ECE department of Andhra Loyola Institute of Engineering and Technology (ALIET) from 22<sup>nd</sup> to 29th April, 2019.
4. Commemoration of Hiroshima and Nagasaki Bombings on 6<sup>th</sup> August, 2019. A talk on “**Energy from Fusion for future**”



5. Two days ‘**Educational tour**’ to IGCAR, Chennai 9<sup>th</sup> & 10<sup>th</sup>, August, 2019.
6. **SIEMEN** certificate course during fourth week of October, 2019.
7. Three days’ Workshop on “**Physics and Technology: Modern Sensors Characteristics, Interfacing & Programming**” from 14<sup>th</sup> to 16<sup>th</sup>, November, 2019.
8. MHRD certified Training at SIEMENS Skill enhancement centre at Andhra Loyola Institute of Engineering and Technology (ALIET) in collaboration with Andhra Pradesh State Skill Development Corporation (APSSDC) during fourth week of December, 2019.

**LINK:** [3 day National Workshop on Sensors 2019](#)

**LINK:** [Phy.dept activities 2019-20](#)

## **2018-19**

1. Organized one day Physics Meet-2018 in collaboration with The Indian Association of Physics Teachers (IAPT) on 05.07.2018,. The objective of this meet was to nurture passion for Physics. Two guest Lectures on “Advent of Quantum Mechanics: A Modern Perspective” by Prof. N. Veeraiah, Department of Physics, Acharya Nagarjuna University, Guntur and the other guest Lecture on “Enhancing Learning Skills in Physics” by Prof. Adam Paul Patteti, Maulana Azad National Urdu University, CTE, NUH, Mewat, Haryana were arranged. 400 hundred students of I, II and III B.Sc Physics students and Junior intermediate students participated in the Meet and got benefitted.

### **Various competitions held**

- Quiz
  - Students Paper Presentations
  - Essay Writing competitions.
2. A youtube video in commemoration of Hiroshima day 6.08.2018 on Disaster and development face of Nuclear energy: The Need for promotion of World Peace and Harmony” at 3.30 p.m. to 4.30 p.m.
  3. Organised a two day **Educational tour to Bangalore** for the students of I, II and III B.Sc MPC and MPCS students during 10 and 11<sup>th</sup>, August 2018. Forty seven students and two faculty members Dr.G. Little Flower and Sai Nagalakshmi took part in this tour. The objective of arranging this tour was to kindle the scientific temper among the students and to explore, experience and enjoy the wonders of science.

LINK: [Educational tour to bangalore](#)

LINK: [Phy.dept. activities 2018-19](#)

## 2017-18

### 1. **Summer Internship Programme**

Arranged an internship programme of six weeks duration from April 15<sup>th</sup> 2015 to May 31<sup>st</sup> 2015 at Efftronics Systems Pvt.Ltd, Vijayawada and sent two students Ms.K.Bhagya Rekha (III MPCS), Ms.Sravya (III MPC).

### 2. **Faculty Industrial training programme**

Dr. G. Little Flower (Physics), Miss. T. Bhagya Lakshmi(Physics) and Mrs. Niraja (Electronics) underwent Faculty Industrial training programme from 15<sup>th</sup> May, 2017 to 7<sup>th</sup> June, 2017 at Efftronics Systems Pvt Ltd. and got trained in “Number systems & Conversions, basic programming in C language, Embedded C, Practice on ARM Controller”.

3. Arranged an educational tour to Sriharikota Higher Altitude Range (SHAR), Andhra Pradesh on 17.08.2017. We visited Mission Control Centre (MCC), first Launch Pad FLP, called IOP – Integration on pad facilitates where the vertical integration of the stages of the PSLV and GSLV are assembled, the Second Launch pad (SLP) and Vehicle Assembly Building (VAB) which then moved in vertical position to the Launch Pad, working platforms that provide access to the vehicle at various levels and Mobile Service Tower (MST) that acts as a shelter to the vehicle and personnel during integration. This educational tour provided additional knowledge to what students had studied in the course “Mechanics and properties of Matter” during I semester about variable mass systems, multistage rocket launching techniques, types of fuels enclosed in various stages of rockets, the need of heat sink coverage of the rocket, tracking techniques of launched rockets using RADARS. Students learnt about job opportunities in Indian space programme at Sriharikota.

4. One day workshop on “Hands on experience with experiments in Analog and digital Electronics” as faculty enrichment programme for its members on 13.10.2017, Friday from 9.30 a.m to 5.30 p.m. Mr. K.Ramakrishna M.Tech from Alpha Electronics was the resource person.

5. Arranged Students’ skill development training programme on “Home appliances and their servicing” at the MHRD instituted ‘SIEMEN’s Skill Development Centre’ at Andhra Loyola Institute of Engineering & Technology(ALIET) approved by the Govt. of AP. **Twenty six students** of II and III B.Sc MPCS and MPC underwent a five day training from 30.10.2017 to 3.11.2017 in their campus.

6. Arranged two days students' training programme on "MATLAB" organized by ECE department of Andhra Loyola Institute of Engineering & Tecnology. Thirty two students of II and III B.Sc MPCS and MECS underwent two days training from 15.11.2017 to 16.11.2017 in their campus.
7. Arranged 14<sup>th</sup> D.P. Somayaji's Memorial Physics Lecture on 4.11.2017. Sri Anita Sure, senior technology specialist, Honeywell technology solutions Pvt.Ltd. addressed the students on the topic "Lighting, Displays & Sensors-Applications and career opportunities in Industry. Two fifty students from I II and III B.Sc MPC and MPCS students and thirty external members associated with Sri D.P. Somayaji attended this memorial talk.

**LINK:** [Phy.dept.activities 2017-18](#)

## 2016-17

1. Organized an inter-collegiate Physics Meet on 23.07.2016. Students from St. Theresa Women College, Eluru, JMJ College, Tenali, Post Graduate and under graduate Physics students of Andhra Loyola College, P.B.Siddhartha College of Arts and Science and Nalanda Degree College and B.Sc MPC and MPCs students of Maris Stella college had participated in this event. Dr. B.S. Murty, Professor & Head, Dept. of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, Chennai was the resource person of the event and delivered a talk “**The Excitement of probing advanced materials at the atomic scale**”.

### **Various events organized**

UG and PG students of various colleges actively participated in various contests:

- Debate on “Mobile Use: a distraction or development”
- Essay writing competition on “The Energy Future”
- Just a minute talk on physics related topics and
- dumb charade in which students had to explain physics terms through actions so that the team members could identify the word.



**Just a minute talk on physics related topics on 23.07.2016**

The campus was filled with vibrant energy and students actively participated and shared their creative ideas. The deliberations of the inter-collegiate seminar



enlightened the students' community and motivated them and the various contests provided a channel to pour out their talents and refreshed the young minds.



Debate on "Mobile Use: a distraction or development" on 27.07.2016

2. Arranged D.P.Somayaji lecture on 16.11.2016 for its II and I year students. Prof.Krishna Chaitanya, M.Sc., Ph.D. Sai Sathya Baba institute of Higher learning, Puttaparthi addressed the gathering on "Laser & Matter interaction: Femto second laser micro matching, optofluidic devices for photonics and bio-medical applications".
3. Arranged one day workshop on the topic "The Science and Technology of Nanomaterials & fundamentals to Applications" for its B.Sc Physics students on 23.11.2016. D. Dibakar Das, PhD, Associate Professor, School of Engineering Sciences and Technology (SEST), University of Hyderabad, Gachibowli, Hyderabad-500046, was the resource person.
4. Arranged a one day field trip to Doordarshan studio at Bundar road and Transmitting station at Prasara Bharathi, Doordarshan Kendra, Kondapalli, Ibrahim Patnam on 20.01.2017. Mr.Kalee Prasad, Director of Doordarshan explained the functions of various units at the studio and Mr.Anil Kumar, Asst.Eng, explained how a programme is transmitted and received using radio waves. 87 students of II B.SC MPC, MPCS and MCE participated in it. Mrs.R.Sara Kumari and Ms.Shagufta accompanied them.

**LINK:** [Phy.dept.activities 2016-17](#)

## 2015-16

1. Arranged a guest lecture & conducted a Energy saver program tilted on “**Green Energy-Energy Conservation Mission**” on 10<sup>th</sup> July 2015 to create awareness among school students & their parents through “ENERGY SAVER CONTEST”. Mr.K.Madhubabu(Holder of Limca book of records), Sr.Engineer, Public health Mott MC Donald, Chennai was the resource person. 70 students from our college and 16 from other 5 colleges such as PVP Siddhartha Eng.College, Vijayawada, Andhra Loyola Eng.College, Vijayawada, Lakki Reddy Balireddy College, Myllavaram, Vignan Eng.College, Vadlamudi, Guntur, PG Physics of P.B.Siddhartha Science and Arts College, Vijayawada participated.
2. Mrs. Sara Kumari and Miss. Sagufta Fatima along with fifteen students from II MPC and II MPCS sections visited ZPH school, Patamata, Amaravani School, Patamata, ZPH School, Ramvarappadu on 17/7/2015 and explained the need for Energy conservation and the goals of “GREEN ENERGY-ENERGY CONSERVATION MISSION” and distributed cards in which electrical consumption units had to be recorded for three months.
3. Mrs. Sara Kumari and Miss. Sagufta Fatima along with ten students from II MPC section visited Atkinson school, one Town, Vijayawada, Ravindhrabharathi School, BRTS Road, Vijayawada, on 20.7.2015 and explained the need for Energy conservation and the goals of “GREEN ENERGY-ENERGY CONSERVATION MISSION” and distributed cards.
4. Volunteers of Energy Conservation unit went to different schools on 20.11.2015 and collected back all the cards distributed to them and submitted to Mr.K.Madhubabu, Sr.Engineer, Public health Mott MC Donald, Chennai.
5. Organized a paper presentation contest on 25<sup>th</sup> November,2015. Ms. Jansi Rani, Dept. of Chemistry and Ms. Deepika, Dept. of Computer Science adjudicated the contest.
6. Arranged a guest lecture on 26<sup>th</sup> November 2015.Dr. B.V.R Tata scientist, Professor & Dean-Academics Homi Bhabha National Institute Head, Condensed Matter Physics division Indira Gandhi Center for Atomic Research, Kalpakam delivered a talk on “Photonic band gap crystal, semiconductors of light”.
7. Organized a *UGC Sponsored* Two day National Conference on “**E**merging **F**rontiers of **M**aterials **S**cience” on 12<sup>th</sup> and 13<sup>th</sup> February 2015. The conference intended to

introduce frontier areas of research in Materials science to graduate students, young researchers and identify research needs and opportunities in this emerging field. Renowned experts, academicians, senior scientists from various leading organizations like IIT M Chennai, TIFR Mumbai, NIIT Nagpur, JNTU H, Osmania University and Acharya nagarjuna university etc. provided a pedagogic view of the background and emerging ideas in a given area of Materials sciences.

**Link: [UGC sponsored National Conference 2015](#)**

- 25 students of I MPC, I MPCs, I MECS, and III CBZ of Maris Stella College to participate in the two day Workshop on “Radiation and its uses, Nuclear Power and Environment” on 27-28<sup>th</sup>, February, 2016 at PB Siddhartha College, Vijayawada. Ms.Likitha of I MPC won second prize in the oral presentation competition.



**Prize winning charts of drawing competition on “Disaster and Development side of Nuclear energy”-23.07.2016**

**LINK: [Phy.dept.activities 2015-16](#)**