

## **Evolution of the Department**

Department of Physics & Electronics stands tall today with nearly six decades of experience, growth, confidence and vision. It has aims and aspirations soaring high into challenging future. The united effort of the department cuts the woods easily, makes the journey of progress smooth and steady and continue to strive to improve each day. The Department is fortunate to have had Mr.D.Anji Reddy who was bestowed with Telangana Government's Best Teacher Award -2016

1964 → Started with Pre-university course affiliated to Osmania University.

1972 → Intermediate courses with MPC & Bi PC were added

1986 → U.G (B.Sc.) with Physics started with MPC

1992 → Electronics course with MPE started at UG level

2000 → Started the combinations MPCs & MECs at UG level

2006 → P.G (M.Sc.) Physics with Electronics & instrumentation specialization started

### **Vision**

Foster the spirit of inquiry in the students to expand their potential and enhance their intellectual growth to the highest possible levels of academic achievement.

### **Mission**

Encourage and equip the students with diverse abilities to pick and analyse by keenly observing the nature through the lens of physics. Impart education through adoption of methods that create interest, stimulate curiosity and inculcate critical and independent thinking essential for pragmatic learning. This is proposed to be accomplished through interactive teaching, arranging guest lectures and organizing relevant field visits that uncover the minds of students. The scientific fervour thus acquired is expected to facilitate the students in choosing to pursue higher education in physics and electronics as well as in interdisciplinary areas.

## Faculty Profiles

S.No	Name of the Faculty	Designation	Qualification	Years of Experience
1.	K.Subba Rao	Assoc. Prof & Vice Principal (Sciences)	M.Sc.Ed., M.Tech, M.Phil.	33
2.	V.Anuradha	Assoc. Prof & HOD	M.Sc.	29
3.	Dr.E.Rukmini	Assoc. Prof	M.Sc, B.Ed., Ph.D.	24
4.	K.Vijaya	Assoc. Prof	M.Sc.	17
5.	Swamy Reddy	Asst. Prof	M.Sc, B.Ed.	12
6.	K. Sunitha	Asst. Prof	M.Sc, B.Ed.	10
7.	S.Prashanthi	Asst. Prof	M.Sc.	09

### **Subba Rao Kachiraju, M.Sc.Ed, M.Phil, M.Tech**

Associate Professor

Vice Principal (Sciences)

33 years of Teaching experience

Email: [srkachiraju@gmail.com](mailto:srkachiraju@gmail.com)



### **Professional Experience:**

- 33 years of Teaching experience
- Working as a Coordinator IQAC, UBA, NPTEL & SWAYAM SPOC
- Working as a Training & Placement Officer
- Worked as Director (PG) 2022
- Worked as Head of the Department Physics & Electronics from 2019 to 2022
- Worked as Head, Department of Computer Science from 2000 to 2019

### **Books Publications (Co-authored):**

- Intermediate Physics Textbook published by TOSS, HYD
- B.Sc. II year (IV semester) text book titled Waves and Optics, published by Telugu Akademi.2022
- Waves & Optics, Published by Telugu Akademi(2021)
- B.Sc. II year Physics, Published by Telugu Akademi (First published in 2006, Revised in 2010)
- Senior Secondary Course Physics (Three Books) published by TSOSS (Telangana State Open School Society)
- Intermediate Physics Practical Manuel (Author & Editor) published by TSOSS (Telangana State Open School Society)

- EAMCET Physics Question Bank I & II (Revised) Published by Telugu Akademi (First published in 2006, Revised in 2011)
- SSC Physics Study Material published by TSOSS (Telangana State Open School Society)
- Senior Secondary Course Physics Text book National Open School Society, Delhi

### Achievements

- Worked as Member Board of Studies at St Ann's Degree College, Hyderabad.
- Paper setter and examiner for Electronics & Physics for Osmania University
- Chief editor of quarterly newsletter **Photon** published by the Department of Physics & Electronics
- **12-10-2023 to 21-10-2023:** Attended UGC-Sponsored Online NEP Orientation & Sensitization Program Organized by UGC-MMTTC, OU, Hyderabad.
- **16-04-2024** Attended one day seminar on **"Restructuring of Physics Curriculum at UG Level- The Teachers Colloquium"** organized by Dept. of Physics, OU, Hyderabad

### Resource Person for the Workshops/ Webinars

- **07-01-2023 :** Chaired the session in the preview conference of 46th Indian Social Science Congress organized by Department of Social Sciences, SNVMV.
- **26-11-2022:** Special Chair for award selection committee of 5th Pure earth environment conference held in the college .
- **27-11-2021:**Resource person, for 3rd pure Earth Environment Conference (PEEC) In Virtual Mode. The focus theme for this conference is "Environment and Education ".
- **25.06.21 to 03.07.21:**Participated in 9-Day National Level Online Faculty Development Program on "Foregrounding the Spectrum of Character Building in Modern Human Life" organized by Department of Humanities & Sciences .
- **19-7-2020 to 25-07-2020:** Attended National Workshop on "Understanding NAAC revised Accrediation guidelines" organised by Gopichand Arya Mahila College, Punjab.
- **14-04-2020 to 15-04-2020:**Acted as resourse person for a 2 days online Workshop organized by SNVMV on Topic "Blended Teaching and Learning" .
- **23-01-2020:**Inaugarated Book Bank in the Department of Physics & Electronics

### Research Papers\Book Chapters Published:

- Published a Paper titled **characterization and study of Electrical properties of Lanthanum doped Bismuth Layered Ferroelectrics La<sub>0.1</sub>Bi<sub>3.9</sub>Ti<sub>3</sub>O<sub>12</sub> and La<sub>0.5</sub>Bi<sub>3.5</sub>Ti<sub>3</sub>O<sub>12</sub>** in International Journal of Academic Research & International Journal of Advanced Multidisciplinary Research (2016)
- Presented paper at National Conference on "The emergence of Startup eco-system in India", held at Indo Asian Academy Degree College, Bengaluru on 30<sup>th</sup> April 2019.
- Contributed a Chapter titled "Characterization and Comparison of Online Teaching Aids" in International E-Publication published by Ideal International E-Publication (ISBN: 978-93-8981-31-7).

- Presented paper at National Conference on “The emergence of Start –up eco-system in India”, held at Indo Asian Academy Degree College, Bengalure on 30th April 2019.
- Presented a paper at National Level Language Conference titled “Digital Presentation in Local Languages” ISBN No. 978-81-922167-1-3
- Presented a paper at National Level Language Conference titled “Sanskrit as Natural Language Processor” ISBN No. 978-81-922167-1-3
- Presented and published Paper titled “Best Practices in Online Teaching” – in 3 day International E-Conference organized by Nizam College, Hyderabad. Dated: 23rd to 25th Sept 2020. Published by Divya Lakshmi Publishers with ISBN: 978-93-90226-05-4
- Presented and published article titled “Adoption of Online Learning by Students” – in International Conference organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar. Dated 22nd to 23rd Oct 2020.
- On 5, 6<sup>th</sup> May 2021, Submitted paper titled “Nighantuvulu Nutana Sastra Oadalu” in 2 day international e-conference organised at RBVR Reddy College
- Contributed a book chapter titled “Characterisation & Comparison of Online Teaching Aids” ISBN No. 978-93-89817-31-7
- Published a paper at 3rd Pure earth Conference titled “Carbon Emission in Classrooms – Effects and Measures
- 12-09-2022, Published a paper titled "THE CHATBOT – EMOTIONS INTELLIGENCE" in an UGC approved International Journal of Emerging Technologies and Innovative Research (JETIR)
- Contributed a Chapter titled “Characterization and Comparison of Online Teaching Aids” in International E-Publication published by Ideal International E-Publication (ISBN: 978-93-8981-31-7).[http://www.isca.co.in/SOC\\_HU\\_SCI/book/ISBN%20978-93-89817-31-7.pdf](http://www.isca.co.in/SOC_HU_SCI/book/ISBN%20978-93-89817-31-7.pdf)

#### **Conferences/ Workshops/Extension Lectures organized:**

- **29-11-2022:** Organized field trip for UG & PG students to National Remote Sensing Centre (NRSC), Jeedimetla, Hyderabad.
- **07-11-2022 :** Worked as Coordinator for Inter collegiate competitions conducted for UG & PG students on “Design of Low–Cost Experiments” for High School level. The chief Guest Prof. K. Karuna Sagar, HOD Physics, Osmania University (OU)
- **26-03-2022:**Delivered lecture on “Re-imaging Education” in the FDP organized by IQAC, SNVMV .
- **28-02-2022:** Delivered lecture on “Inspiration of Experimentation in Learning Basic Sciences” in online workshop Conducted by Sri Rama Krishna Engineering College, Chennai, in association with IEEE & ISTE as a part of National Science Day Celebrations.
- **26-02-2022:**Organized Guest Lecture On “Applications Of Spectroscopy” by Dr.Usha Praveena, Asst. Prof. in Physics & Electronics, St. Francis College ,Hyderabad on the occasion of National Science Day -2022 Celebrations .
- **25-02-2022:** Organized Field trip to NIN for PG students along with faculty on the event of “Azadi Ka Amrit Mahotsav”.
- **22-02-2022:** Conducted Inter collegiate Essay writing Competition On “Role of Physics in Health Care Industry.
- **13-12-2021:** Organized field trip for PG and UG students to BDL and MIDHANI on the occasion of Azadi Ka Amrit Mahotsav .

- **27-11-2021:** Organized guest lecture by Dr. Gopala Krishna, Distinguished Member & Lead Enterprise Architect, WIPRO to guide students in planning their career commemorating Sir C.V Raman's birth anniversary.
- **30-12-2020:** Convenor & Resource Person for Workshop organized at SN Vanita Maha Vidyalaya on "Teaching with Technology".
- **16-07-2020:** Organized online Orientation for B.Sc. Final Year students about "Various Career Options in Physics".
- **16-6-2020:** Conducted Webinar on "Awareness & Adoption of MOOC courses on SWAYAM and NPTEL".
- **28-05-2020 to 29-05-2020:** Headed the Creative and Technical Team in E-Conference organized by Department of Languages, SNVMV on "Language and Literature".
- **25-05-2020:** Delivered an extension lecture for Webinar organized by BJR College on "Grand Unified Theory".
- **07-03-2020:** Resource Person for Workshop organized at Govt. Degree College, Siddipet on "Low-Cost Models with Simulation for Physics".
- **04-03-2020:** Organized guest Lecture on "Network Configurations" by Mohd. Saifuddin for B.Sc. Final Year Electronics students.
- **14-02-2020:** organized Seminar for P.G. students on "Environment and Space Technologies" by Mr. M. V. Krishna Rao, IPS and Dr. K. Jayachandra.
- **14-12-2019:** Organized workshop on "Teaching Models in Physics" for P.G & UG students was organised. Mr. Sai Prasad, School Asst. ZPHS, Kothapet was the resource person.

## **Anuradha Budaraju, M.Sc**

Associate Professor

Head, Department of Physics & Electronics

29 years of Teaching Experience

Email: [anubmurthy@gmail.com](mailto:anubmurthy@gmail.com)



### **Achievements**

**Completed the following online courses offered by SWAYAM / NPTEL**

- Appreciating Carnatic Music with Elite + silver
- Effective Writing” with Elite + silver and All India topper

**Completed the following online courses conducted by Center for Continuing Education, IIT, Kanpur:**

- Classical Electromagnetism II (15/08/2022 to 25/12/2022)
- Story of Photoelectric Effect (15/07/2021 to 17/08/2021)
- Classical Mechanics I (26/01/2021 to 25/04/2021)
- Learning Physics through Simple Experiments (2/04/2020 – 19/06/2020)
- Basics of Special Theory of Relativity (18/12/2018 to 08/03/2019)
- Physics of Semiconductors (15/08/2017 to 20/11/2017)

### **Other Activities**

- **Member of Board of Studies-Physics** Bhavan’s Vivekananda College, Sainikpuri, Secunderabad, 2019 – 2021
- **Co-author** of intermediate Physics Textbook published by TOSS, HYD
- **06-11-2023 to 15-11-2023** : Attended UGC-Sponsored Online NEP Orientation & Sensitization Program Organized by UGC-MMTTC, OU ,Hyderabad
- **16-04-2024** Attended one day seminar on “**Restructuring of Physics Curriculum at UG Level- The Teachers Colloquium**” organized by Dept. of Physics ,OU, Hyderabad
- **Editor** of quarterly newsletter **Photon**, published by the Department of Physics & Electronics
- In-charge of **Sangeet Vanita** (Music club)
- **Resource person** of FDP, conducted by IQAC, SNVMV
- **Chaired** the technical session of **5th Pure earth environment** conference
- **Coordinator**, NAAC criterion 7
- Examination **paper setter and evaluator** for autonomous colleges

**Dr. E. Rukmini, M Sc , B.Ed, Ph.D**  
Associate Professor  
24 years of Teaching Experience  
E-mail: [erukmini1510@gmail.com](mailto:erukmini1510@gmail.com)



### List Of Publications

1. Crystal free-ion energy level analysis of  $Er^{3+}$  in various crystal hosts-oxygen coordinated systems **E. Rukmini**, A. Renuka Devi , C.K. Jayasnakar PHYSICA B 193 (1994)
2. Optical properties of  $Tm^{3+}$  ions in Zinc borosulphate glasses and comparative energy level analyses of  $Tm^{3+}$  ions in various glasses ,**E. Rukmini**, C.K.Jayasnakar, Journal of Non – Crystalline Solids . 176 (1994)
3. Spectroscopic properties of  $Ho^{3+}$  ions in Zinc borosulphate glasses and comparative energy level analysis of  $Ho^{3+}$  ions in various glasses. **E.Rukmini**, C.K.Jayasnakar Optical materials (1995)
4. Correlation crystal field analysis of  $Nd^{3+}$  energy level structures in various crystal hosts. **E.Rukmini**, C.K.Jayasnakar and M.F. Reid, Journal of physics : Condensed Matter . 6 (1994 )
5. Comparative crystal free – ion energy level analysis of  $Nd^{3+}$  ions in various oxygen coordinated systems , **E.Rukmini**, C.K.Jayasnakar PHYSICA B (1995)
6. Comparative analysis of free- ion energy levels of  $Er^{3+}$  in various crystal hosts. C.K.Jayasnakar , A.Renuka devi and **E.Rukmini** M.F. Reid. Journal of alloys and compounds 193 (1993)
7. Crystal free ion energy level analysis of  $Er^{3+}$  in various crystal hosts.1. Halids and Garnet systems, A. Renuka Devi, **E.Rukmini** and C.K. Jayasankar Physics Stat . Sol (a) 131. (1992)

### Books Published:

1. Co-author of B.Sc IV Sem (II year) physics Textbook, published by Telugu Academy
2. Co-author of intermediate Physics Textbook published by TOSS, HYD
3. Senior Secondary Course Physics published by TSOSS (Telangana State Open School Society)

### Completed the following online courses conducted by Center for Continuing Education, IIT, Kanpur:

- Classical Electromagnetism II (15/08/2022 to 25/12/2022)
- Story of Photoelectric Effect (15/07/2021 to 17/08/2021)
- Classical Mechanics I (26/01/2021 to 25/04/2021)
- Basics of Special Theory of Relativity (18/12/2018 to 08/03/2019)
- **12-10-2023 to 21-10-2023** : Attended UGC-Sponsored Online NEP Orientation & Sensitization Program Organized by UGC-MMTTC, OU ,Hyderabad

### Other Activities:

- **Member**, NAAC criterion 1
- **Resource person** for workshop on Experiments in Nuclear Physics, organized by Department of Physics & Electronics, SNVMV

**K. Vijaya, M.Sc**

Assistant Professor

17 Years of Teaching Experience

Email: [kasturi.vijaya05@gmail.com](mailto:kasturi.vijaya05@gmail.com)



**Achievements:**

**Completed the following online courses offered by SWAYAM / NPTEL**

- Microprocessor and Interfacing with Elite (Jan-Apr 2021)
- **12-10-2023 to 21-10-2023** : Attended UGC-Sponsored Online NEP Orientation & Sensitization  
Program Organized by UGC-MMTTC, OU ,Hyderabad

**Other Activities:**

- Worked as Student Advisor
  - **Member** ,NAAC criterion 4
- 

**B. Swamy Reddy, M. Sc, B.Ed**

Assistant Professor

12 years of Teaching Experience

Email: [bsreddy14886@gmail.com](mailto:bsreddy14886@gmail.com)



**K. Sunita M.Sc, B.Ed**

Assistant Professor

10 years of Teaching Experience

Email: [sunithakanike11@gmail.com](mailto:sunithakanike11@gmail.com)



**S. Prashanthi, M.Sc**

Assistant Professor

09 years of Teaching Experience

Email: [prashanthielec08@gmail.com](mailto:prashanthielec08@gmail.com)





## **Courses offered**

- PHYSICS
- ELECTRONICS

## **Infrastructure Details**

- Department maintains a library with a good collection of prescribed & reference textbooks and practical manuals
- Book bank comprises of a repository of Books donated by senior students and specimen copies of books received from publishers. These books are issued to the needy students.
- Internet facility in the department is extended to students and faculty
- Department has a classroom with ICT facility and a laboratory with LCD projector
- Well-equipped laboratories with more advanced and precision instruments

## **UG Laboratories (6)**

- **Physics Laboratories (3)**
  - Mechanics lab & Thermal-physics lab
  - Optics lab
  - Modern physics lab
- **Electronics Laboratories (3)**
  - Analog lab
  - Digital lab
  - Simulation lab with 6 computer systems with necessary software

## **UG Laboratories (6)**



**Mechanics Lab**



**Thermal-Physics Lab**



**Optics Lab**



**Modern Physics Lab**



## Analog Lab



## Digital Lab



## Simulation Lab

### Department Activities - (2023-24)

S.No	Date	Event	Report
1.	<b>05.10.2023</b>	Workshop	One day workshop on “Experiments in Nuclear Physics” for B.Sc. (V Sem ) Physics Students of IPGDC for women
2	<b>11.10.2023</b>	Guest Lecture	<b>Topic:</b> “Fundamentals Of Nuclear Physics” by Dr.M. Sreenath Reddy ,Assoc. Prof. in Physics ,OU.
3.	<b>24.02.2024</b>	National Science Day Celebrations	Guest Lecture <b>Topic:</b> “Advances in Medical Physics” by J.Deepa Medical Physicist ,American Oncology Institute.
4.	<b>28.02.2024</b>	National Science Day (NSD)-2024	<b>Interclass Competitions-</b> Display of Science Projects Number of participants registered -21 Projects -10 <b>Judges for competitions:</b> 1 Ms.S.Prashanthi Assistant Professor in Physics, SNVMV,Hyderabad 2 Ms.M.NagaLaxmi, Assistant Professor in Computer Science , SNVMV,Hyderabad
5.	<b>30.03.2024</b>	Power Consumption Awareness Program	Release of Power Consumption Sticker by Principal in Room No. 215. 50 Students participated

### Department Activities - (2022-23)

S.No	Date	Event	Report
1	<b>05.09.2022</b>	Teachers Day Celebrations	<b>1.</b> Released Quarterly Newsletter Photon <b>2.</b> Department & Staff received academic excellence badges
2	<b>07.11.2022</b>	Sir C.V. Raman Birth Anniversary. Inter college competitions for UG & PG students on “ <i>Design of Low–Cost Experiments</i> ” for High School level.	<b>1.</b> A total of 30 exhibits, explaining 23 concepts by various colleges <b>2.</b> Judges: Dr.P.Indira,assoc. Professor ,IPGDC for Women,Nampally,Hyd’ Dr.E.Rukmini Assoc.Professor, SNVMV <b>3 .</b> Prof.K.Karuna Sagar, HOD Physics, Osmania University (OU) was the Chief Guest for the event & distributed prizes to winners <b>4.</b> released Photon Newsletter Of Vol-3

3	<b>16.11.2022 to 20.12.2022</b>	Add-on course on "Know Your Electrical Appliances – Selection, Protection & Safety"	<ol style="list-style-type: none"> <li>1. Number of students registered 78</li> <li>2. Classes commenced on 16-11-2022</li> <li>3. Students acquired knowledge about selection, protection &amp; safety of electric equipment</li> <li>4. certificates were given to all 64 qualified students</li> </ol>
4	<b>29.11.2022</b>	Field Trip To NRSC	<ol style="list-style-type: none"> <li>1. UG &amp; PG Physics students total of 47 with 4 faculty visited NRSC, Jeedimetla.</li> <li>2. The students interacted with the Scientists who explained topics related to launching of satellites</li> </ol>
5	<b>22.02.2023</b>	Open Day	Class-X students of shankerji school, Exhibition Grounds visited Physics Labs. They were exposed to various instruments & experiments explaining concepts of Physics
6	<b>24.02.2023</b>	Inter collegiate Competitions as part of National Science Day Celebrations	<ol style="list-style-type: none"> <li>1. PPT <b>Topic:</b> "Applications of physics in Health care " No of teams participated: <b>05</b> No.of participants :10</li> <li>2. Poster Presentation <b>Topic:</b> "Advances in physics for Welfare of Society " No of teams participated: <b>09</b> No.of participants :17 Prizes for winners &amp; certificates for all participants were given</li> </ol>
7	<b>28.02.2023</b>	National Science Day Celebrations	<ol style="list-style-type: none"> <li>1. Felicitations to retired Physics Faculty Dr.A.K Priyadarshini &amp; Mr.D.AnjiReddy</li> <li>2. Chief Guest Dr .Nagaratna,scientist –E Head. Indian Meteorological Department, Released Photon News Letter Photon by Chief Guest</li> </ol>

### Department Activities – (2021-22)

S.No.	Date	Event	Report
1	30.08.2021	Guidance & awareness for B.Sc. Final year students appearing for PG Entrance Exams.	Online guidance was provided by Physics Faculty to motivate the final year students of SNVMV.
2	27.11.2021	C.V.Raman's Birth Anniversary celebrations-2021	Guest Lecture Topic: " <b>Role of Technology in Shaping our Future</b> " by Dr. Gopala Krishna Behra, Lead Enterprise Architect & Distinguished Member of Technical Staff-Wipro.  Followed by Release of Quarterly News Letter Photon. Audience present in auditorium: 400
3	13.12.2021	Field Trip to BDL and MIDHANI	Sixty students from B.Sc. (MPC, MPCs, MECs) along with five staff visited BDL and MIDHANI as part of Azadi-Ka-Amrit Mahotsav Exhibition. They have seen the display of the defence products. At MIDHANI they had an opportunity to see right from the raw materials and alloys that are used for specific aerospace application.
4	22.02.2022	Inter-Collegiate Essay Competition	Topic: "Role of Physics in Healthcare Industry" No. of participants: 27
5	26.02.2022	National Science Day (NSD)-2022	Guest Lecture: topic: " <b>Applications of Spectroscopy</b> " by Dr Usha Praveena, Assistant Professor in Physics & Electronics, St. Francis College, Hyderabad No. of participants: 100

### Department Activities – (2020-21)

S.No.	Date	Event	Report
1	10.07.2020	Guidance and awareness for students appearing for PG Entrance Examinations Conducted by various Central and State Universities	Online guidance was provided by Mathematics and Physics Faculty joined by alumni of SNVMV to motivate the final year students. No. of participants: 40
2	07.11.2020	C.V.Raman's Birth Anniversary Celebrations-2020	Online Guest Lecture Topic: " <b>Semi-Conductor Physics &amp; Fabrication</b> " Webinar by Dr V. Swarnalatha. Relayed on YouTube

			No. of views: 290
3	<b>28.02.2021</b>	National Science Day (NSD)-2021	Online Guest Lecture Topic: “ <b>Laboratory Plasmas and Applications</b> ” by Dr G.Mohana Rao (Prof. Emeritus), IISc, Bangalore Relayed on YouTube No. of views: 798 Release of Quarterly News Letter Photon
4	<b>26.06.2021</b>	Webinar	Topic: “ <b>Simulation Of Electronics Experiments using Multisim</b> ” Resource person: Mr V. Narasimha Rao, Lab Faculty VBIT No. of participants: 50

#### Department Activities - (2019-20)

S.No.	Date	Event	Report
1	<b>26.11.2019</b>	Guest Lecture	Topic: “ <b>Angular momentum and C.G. coefficients</b> ” by Prof Yadagiri Reddy (Retd.), Department of Physics Osmania University
2	<b>14.12.2019</b>	Workshop	Topic: “ <b>Teaching Models in Physics</b> ” Resource person: Mr Sai Prasad School Assistant, Kotturu, RR District No. of participants: 50
3	<b>23.01.2020</b>	Book Bank inauguration	Inaugurated by Dr. D.Shobana, Principal Repository of books collected from old students, specimen copies received by lecturers from publishers, books donated from various sources. These books are issued to students in need and collected back after examinations.

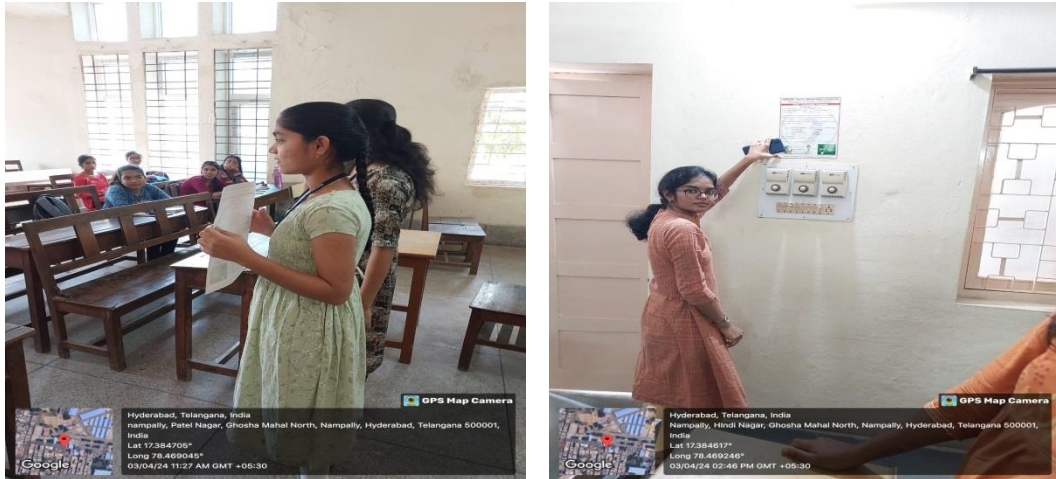
### Department Activities - (2018-19)

S.No.	Date	Event	Report
1	21.02.2019	Two-day event SPARK-2K19 as part of National Science Day Celebrations-2019 in collaboration with TSCOST	Day-1: Inaugural Chief Guest for inaugural: Prof. Ravi Kumar, Member Secretary TSCOST Guest Lectures: 1. Prof K.Venugopal Reddy, Department of Physics, Osmania University. Topic: <b>“Evolution of Electronics”</b> 2. Dr Ravi Chandra, Scientist-F, ARCI, Hyderabad. Topic: <b>“Importance of materials”</b>
		Inaugural on 21.02.2019 followed by competitions	Inter-collegiate Competitions 1. Poster Presentation: Topic: <b>“Recent innovations in Physics and its relevance”</b> Number of participants registered -65 2. Electronic Projects Topic: <b>Innovation and its usefulness</b> Number of participants registered -65 Judges for competitions: 1. Dr Gopi Krishna, Associate Professor in Physics, A.V. College, Hyderabad 2. Dr Srinath Reddy, Assistant Professor in Physics, Nizam College, Hyderabad
2	22.02.2019	SPARK-2K19 Valedictory	Day-2: Valedictory Chief Guest & Key note Speaker: Professor Prasad, Head, Department of Physics, Osmania University Topic: <b>“Raman Effect and its importance”</b>
3	18.04.2019	Field Visit to ARCI	Fifty students from both UG & PG, along with staff visited ARCI Work-Centres visited: 1. Centre for Solar Energy Materials 2. Centre for ceramic processing 3. Centre for laser processing of materials 4. Centre for sol-gel coatings



## Student Achievements

2023-24



Students Participation in Power Consumption Awareness Initiative



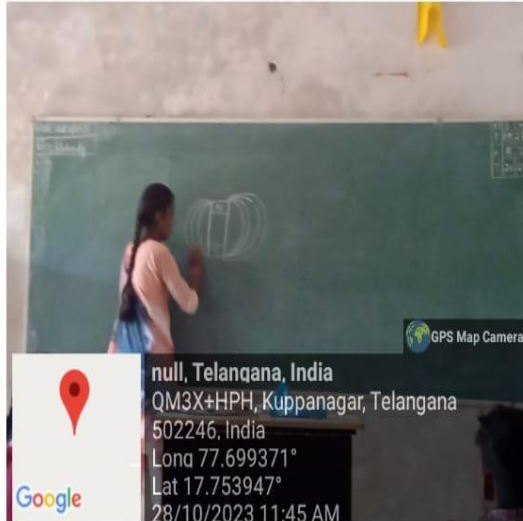
Ms. Hyndavi (BSc MPCs II sem) and Ms. Sindhuja (BSc MECs II sem) won 3<sup>rd</sup> Prize in Intercollegiate Live Demonstration cum Competition in Physics & Electronics fields, conducted by St. Ann's College for Women in collaboration with IAPT RC 22 & Cluster Colleges.



Our students participation in Intercollegiate Live Demonstration cum Competition in Physics & Electronics fields, conducted by St. Ann's College for Women in collaboration with IAPT RC 22 & Cluster Colleges on 29-02-2024

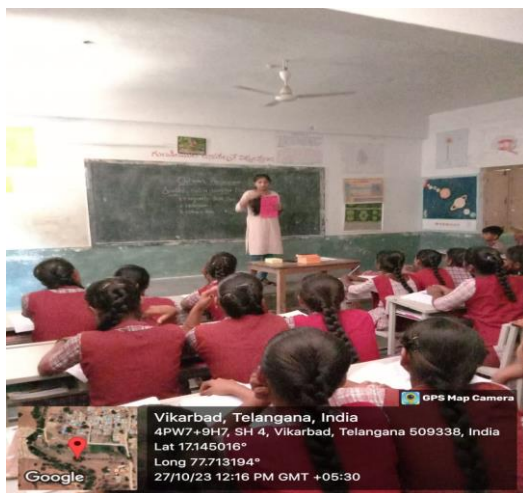


Students Listening to the Guest Lecture On “Advances in Medical Physics”  
by Ms. J.Deepa (Alumnus of Dept. Of Physics & Electronics)  
Medical Physicist, American Oncology Institute, Hyderabad  
On 24-02-2024



Ms.R.Mamatha B.Sc. (MPCs II-Sem ) Visited her Alma mater –Govt. Model School, Jarasangam , sangareddy district and demonstrated three concepts / experiments to high school students as part of outreach program on

28-10-2023



Ms.G. Surya Prabha B.Sc. (MPCs III-Sem ) visited her Alma mater –Govt. School, Vikarabad and demonstrated four concepts / experiments to high school students as part of outreach program on 27-10-2023





2022-23



Congratulations to Satya Srinidhi Pulapally for securing admission in M.Sc Physics at IIT -Bhubaneswar



Ms.Sadhana & Ms.Navya from B.Sc.(IV SEM) participated in the workshop on "SUN & SPECTROSCOPY " at St.Francis college held on 30 Jan 2023.



P.Deepthi, our Alumni completed MSc Physics with Distinction & received **8<sup>th</sup> Rank** among the students of OU



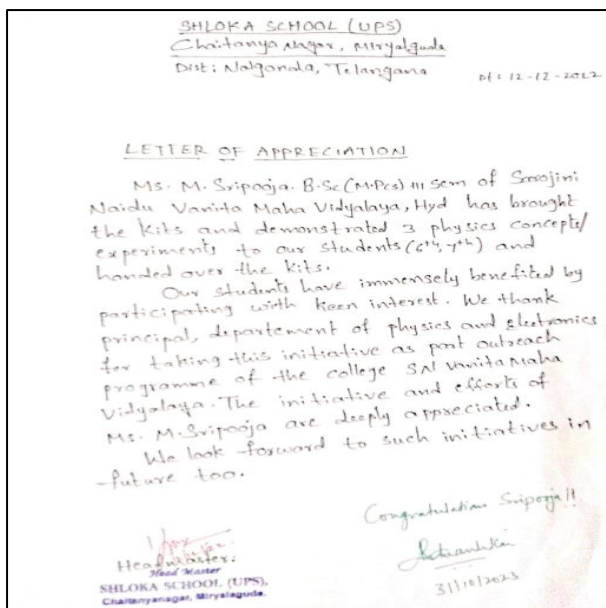
Students received certificates on completion of Add-on Course, “Know your electrical appliances – selection, protection and safety”, on 09/01/2023



Ms.Mounica of B.Sc VI Sem (MPC) won 1<sup>st</sup> prize in classical solo singing competitions, conducted by All India Industrial Exhibition-2023.







Ms. Sripooja, B. Sc (M.PCS) III Semester at Shloka school, Miryalaguda demonstrated experiments to students as part of outreach programme on 12/12/2022.



B.Deepa (BSc MPCs VI sem & DivyaGiri (BSc MPCs II-sem ) won gold medal in Yogasana championship held in Hyderabad on 19<sup>th</sup> & 20<sup>th</sup> Nov 2022



Students Participation in Sangeet Vanita Day Celebrations



Felicitation to Preeti Munde, Miss Beauty With Brain, at Miss Maharashtra 2022 Competition



2021-22



N Vinay Kumar, Hon Secretary. Sri K. Dilip Reddy Hon. Treasurer & Dr. D. Shobhana, Principal felicitated Ms. P.Saahithi (MECs) on securing 2<sup>nd</sup> Rank in CPGET (Electronics) - 2021



Prize winning rangoli of our B.Sc (MPCS, MPC) students, Ms. Vishwahitha, N.Deepthi Reddy, K.Veena Vani, A.Mamatha, in the competition as part of Azadi Ka Amrith Mahotsav



Ms. Nigasha Fatima B.Sc (MPCs), received the highest rank of senior from the group commander



Felicitations to Ms. Nigasha Fatima B.Sc (MPCs) , by Telangana Citizen's Council on International Women's Day – 2021

2020-21



Ms. Supraja, B.Sc(MECs) was felicitated by Sri Aditya Margam, Chairman, Sri N. Vinay Kumar, Secretary, Dr. D. Shobhana, Principal and GB members for securing First Rank in Telangana State PG (Electronics) Entrance Examination

## Testimony



Department of Physics and Electronics.  
I am an ever-loving student and deep  
love to my department. I express my heartfelt regards  
to the Dept. of Physics and Electronics.  
Being an ever-loving student of Electronics  
I'm a blessing of our beloved faculty. They  
developed a great passion for the subject. They  
instructed me with the subject which was greatly inspired  
by their enthusiasm and zeal for the subject.  
Thank you.



## Best Practices

**1. Book Bank :** Department maintains **Book Bank** which is repository of books generously donated/contributed by former students, staff and specimen copies of text books given by publishers . Students can barrow the essential books and materials required for their courses . This practice ensures that all students have access to the resources they need to succeed academically, regardless of financial constraints. This initiative promotes equity and inclusivity fostering a supportive learning environment where every student has the opportunity to excel



**Book Bank**

**2 .Optimal utilisation of equipment:** The department prioritize the design of **Experiment Cycles** to maintain a better student – to – equipment ratio. This practice ensures that each student has ample access to apparatus /equipment, facilitating hands-on learning experience.

### B.Sc (PHYSICS) PRACTICALS, SEM-IV

CYCLE-I

Date: 21-1-2024

GROUP	Roll No.	Strength	Experiment No.
MPCs	1175-22-468-001 TO -009	8	1
	1175-22-468-010 TO -018	8	2
	1175-22-468-019 TO -026	8	3
	1175-22-468-027 TO -035	9	4
	1175-22-468-036 TO -044	8	1
	1175-22-468-045 TO -053	8	2
	1175-22-468-054 TO -061	8	3
MPCs &MPC	1175-22-468-062 TO -068 & 1175-22-441-001 TO -004	9	4

Experiment No.	Name of the Experiment
1	Wedge method
2	Dispersive power of a Prism
3	Pulfrich refractometer
4	Sonometer

*Zunraha*  
21/1/2024

# Photon

Dept. of Physics & Electronics, Publishes a Quarterly Newsletter titled "Photon" with a view to bringing updates on current advancements in Physics & Electronics .It includes a brief biography of renowned Scientists who made significant contributions in the field of Physics & Electronics. In addition , It includes information about prestigious National Scientific establishments where research facilities are available ,Guest Column, Physics News round up, and fun filled content such as puzzles , quizzes and anecdotes related to Physics & Electronics.

<https://drive.google.com/drive/folders/1DdbwWLWv8dnPkBaIMn13b1cnEoPTskpE>

2023-24



**DEPARTMENT OF PHYSICS & ELECTRONICS**  
**Power Consumption Awareness**

Room No.	_____
Total wattage of all appliances used for six hours	_____
Total wattage of fluorescent lights	_____
Total wattage of tube lights	_____
Total wattage of all appliances used for one hour = _____	
Average power consumption of all appliances used for six hours = _____	
Power consumed per unit for T connection = 84.10 (subject to change)	
Power consumed per unit of this room = _____	
Power consumed per hour	_____
Power consumed per month	_____
Power consumed per term	_____

Power collected by \_\_\_\_\_  
Name of student \_\_\_\_\_  
H.T.No. \_\_\_\_\_ Class: B.Sc (Computer) Date: 30-03-24

Power Saver  
Switch off lights & fans before leaving the room

Power Consumption Awareness on 30-03-2024







## Interclass Competitions on the occasion of NSD-2024

28-02-2024




## Guest Lecture by Ms. J.Deepa, Medical Physicist, American Oncology Institute

24-02-2024





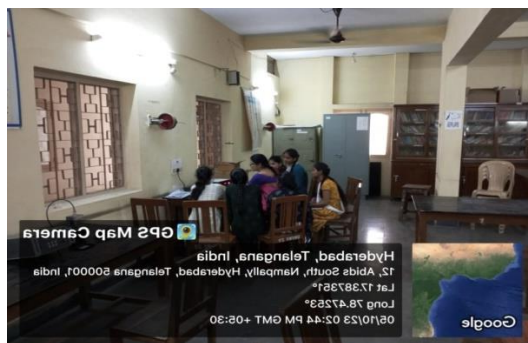
Guest Lecture by Dr. Sreenath Reddy on " Fundamentals Of Nuclear Physics " 11-10-2023

  
**SAROJINI NAIDU VANITA MAHA VIDYALAYA**  
 (Sponsored & Managed jointly by Osmania Graduates' Association and Exhibition Society)  
 Exhibition Grounds, Nampally, Hyderabad. Ph-04024603266  
 NAAC accredited (3<sup>rd</sup> Cycle)

**Department of Physics & Electronics**  
 Organising One day Workshop

**Experiments in Nuclear Physics**  
 For B.Sc (V Sem) Physics Students  
 5-10-2023 at 10:00 AM

Dr.E.Rukmini Coordinator	V. Anuradha Head of Department	Dr.D.Shobhana Principal
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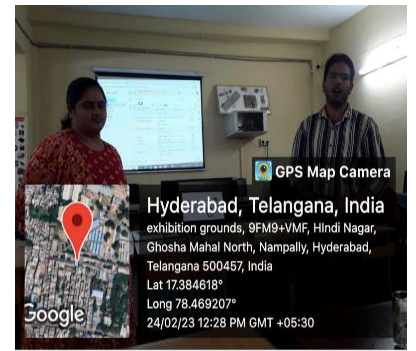
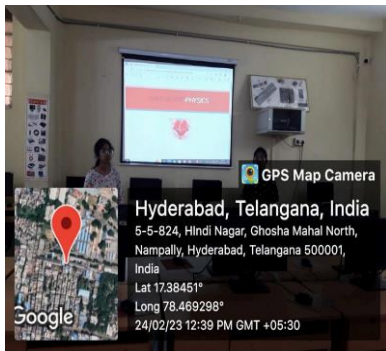


Workshop on "Experiments in Nuclear Physics " 05-10-2023

## 2022-23

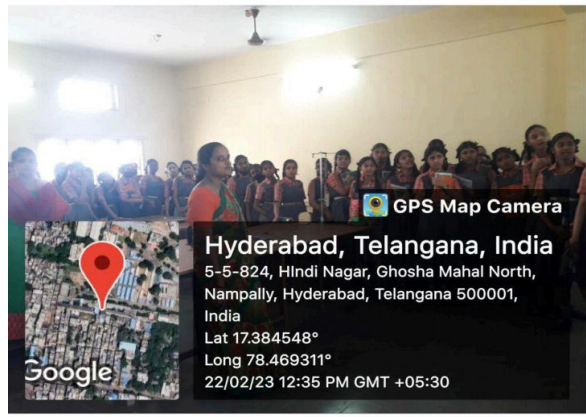


Felicitations to retired faculty (Dr. AK Priyadarshini, Mr.D. Anji Reddy) on the occasion of Diamond Jubilee Celebrations on 14-03-23



Intercollegiate competitions on the occasion of NSD-2023  
On 24-02-2023





Class -X students of Shankerji School Visited Physics Labs  
On Open Day 22-02-2023



Field Visit to NRSC on 29-11-2022



Sir C.V Raman Birth Anniversary Celebrations, Inter Collegiate competitions  
07-11-2022

2021-22





Prize winners of intercollegiate essay writing competitions organised on account of NSD-2022 on 26-02-2022



Presenting Bouquet to Chief Guest Dr.Usha Praveena, Assistant Professor St. Francis college for Women on 26-02-2022




**Sarojini Naidu Vanita Maha Vidyalaya**  
 (Sponsored and managed jointly by Osmania Graduates' Association and Exhibition Society)  
 Exhibition Grounds, Nampally, Hyderabad  
 Diamond Jubilee Year (1962-2022)




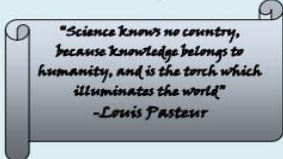
**National Science Day 2022**  
**Department of Physics & Electronics**  
 Cordially invites to a Guest Lecture on  
**APPLICATIONS OF SPECTROSCOPY**  
 By  
**Dr. Usha Praveena**  
 Assistant Professor, Department of Physics.  
 St. Francis College for Women  
 Begumpet, Hyderabad.


**Saturday, 26<sup>th</sup> February 2022**  
**Venue:** Golden Jubilee Hall. **Time:** 11:00 am


**K. SUBBA RAO**  
 Head, Dept. of Physics & Electronics

**Dr.D.SHOBHANA**  
 Principal




*"Science knows no country, because knowledge belongs to humanity, and is the torch which illuminates the world"*  
 -Louis Pasteur


**Sarojini Naidu Vanita Maha Vidyalaya**  
 (Sponsored and managed jointly by Osmania Graduates' Association and Exhibition Society)  
 Exhibition Grounds, Nampally, Hyderabad  
 Diamond Jubilee year.(1962-2022)



**Department of Physics & Electronics**

Inveits  
 All U.G and P.G Students  
 to participate  
 in  
 Inter collegiate Essay Writing Competition  
 in connection with

**NATIONAL SCIENCE DAY CELEBRATIONS-2022**

**Topic:**  
**PHYSICS in Healthcare Industry**

**Instructions:**

1. U.G and P.G students from any college in India are eligible to participate.
2. The essay should not exceed 750 words.
3. Typed of legibly hand written essay's should be uploded in the given google form in PDF format.
4. Student name, college name, location, email i'd, mobile number should be written on the first page of the essay.
5. Plagiarism check will be done.
6. The decision of the department is final.

Please send your essay through the following link:  
<https://forms.gle/zr5PKsrtfGRfyY6>

Last date of the entry 22<sup>nd</sup> February

Prizes for Winners

E-certificates will be issued to all the participants

For any queries contact  
 Supriya, Asst professor  
 Dept. of Physics and Electronics  
 Mobile No. 6281574108

**K. Subba Rao**  
 Head, Dept. of Physics and Electronics

**Dr.D.Shobhana**  
 Principal

## National Science Day - 2022



## Field Visit to BDL and MIDHANI

13-12-2021



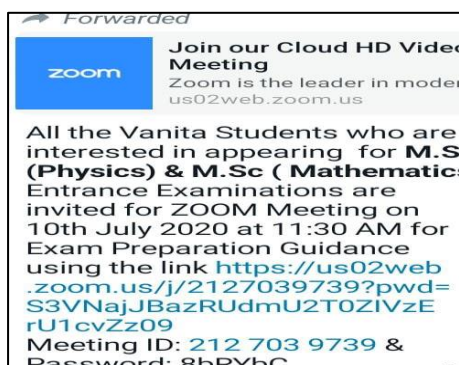
Release of Quarterly News Letter "Photon"

27-11-2021



Guest Lecture by Dr. Gopala Krishna Behara on the Occasion of Sir C.V.Raman Birth Anniversary Celebrations -2021

2020-21



*Guidance & Awareness for students appearing for Entrance Examination*  
Conducted by Various Central and State Universities

**Sarojini Naidu Vanita Maha Vidyalaya**  
(Sponsored & Managed jointly by Osmania Graduate Association and Exhibition Society)  
Exhibition Grounds, Nampally, Hyderabad. Ph:0402932474  
NMAC, Awarabida (Drift)Ch

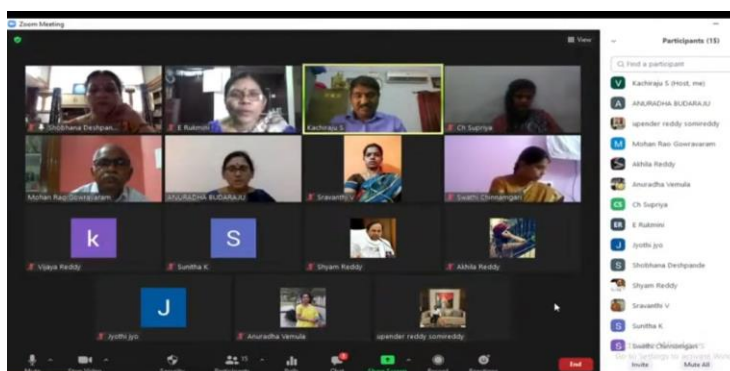
Department of Physics & Electronics  
is organising a Lecture on the occasion of  
**National Science Day**  
28th February, 2021 at 11:30 AM

**"Laboratory Plasmas & Applications"**  
by  
Distinguished Speaker  
**G.Mohan Rao**  
Professor Emeritus  
Dept. of Instrumentation & Applied Physics  
Indian Institute of Science, Bangalore

Please click on the link to join the session  
<https://youtube.com/gwtrZGuMYY>

K. Subba Rao  
Head, Dept. of Physics & Electronics

Dr. D. Shobhana  
Principal





**Lecture on the occasion of National Science Day**

798 views 2 yr ago ...more


Sarojini Naidu Vanita Maha Vid... 1.98K

Guest Lecture by Dr.Mohan Rao (Prof. Emeritus) – Dept. Of Instrumentation & Applied Physics , IISc Bangalore on 28-02-2021




**SAROJINI NAIDU VANITA MAHA VIDYALAYA**  
(Sponsored & Managed jointly by Sarojini Graduates' Association and Exhibition Society)  
 Exhibition Grounds, Sarojini, Hyderabad. Ph: 3462499/2396  
 NAAC ACCREDITED (3<sup>rd</sup> CYCLE)



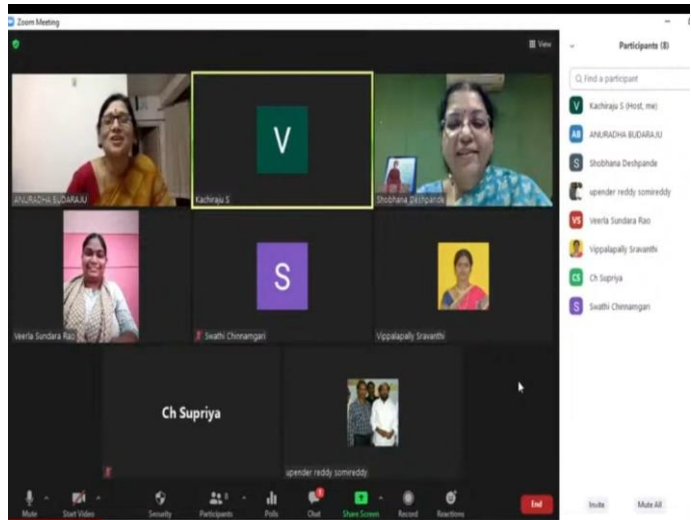
**Department of Physics & Electronics**  
**Cordially Invites you to a Webinar on**  
**Semiconductor Physics and Fabrication**  
*Resource Person*  
**Dr. Veerla Swarnalatha**  
 Post Doctoral Fellow  
 IIT, Hyderabad  
 (Alumna Of S N Vanita Maha Vidyalaya)


 Organized on the occasion of  
**SIR C. V. Raman Birth Anniversary**  
 on  
**7<sup>th</sup> November, 2020 at 4:00 P.M.**

Join us using YouTube Link  
[https://youtu.be/L\\_dO\\_W\\_D570](https://youtu.be/L_dO_W_D570)

**K. Subba Rao**  
 Head, Dept. of Physics & Electronics

**Dr. D. Shobhana**  
 Principal

Guest Lecture by Dr.V,Swarnalatha (Post Doctoral Fellow) , Dept. of Physics, IIT  
 – Hyderabad (Alumnus of SNVMV) 07-11-2020

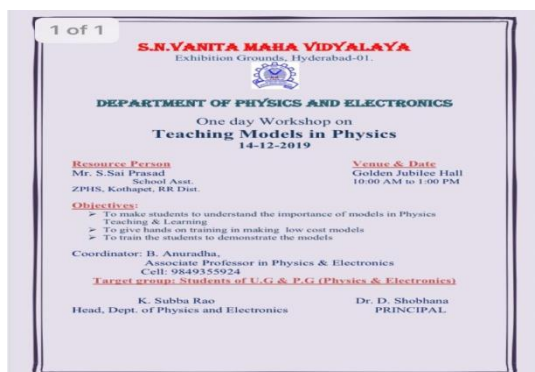


2019-20



Book Bank Inauguration by principal Dr.D.Shobana

23-01-2020



Mr.S. Sai Prasad explaining the importance of Teaching Models

On 14-12-2019.



Hands on Experience in making Models

On 14-12-2019

2018-19



Field Visit to ARCI on 18-04-2019.



Inauguration of SPARK 2K19 – Chief Guest Prof. Ravi Kumar Member Secretary TSCOST on 21-02-2019





Chief Guest interacting with the participants in intercollege competitions in ppt & Projects



Newspaper clippings pertaining to Inauguration of SPARK -2K19.



Guest Speaker Dr.Ravi Chandra Scientist F ARCI, Hyd. interacting with students

On 21-02-2019