

Department of Physics

Faculty Academic events Attended or Organized Details

Dr.D.Uthra M.Sc., Ph.D. with SLET
Associate Professor & Head



Level	Category (Type)	Title	Month & Year	Attended / Organized
Inter National	Orientation Program	Completed Online course Promoting access to Medical Technologies and innovation- a WHO, WIPO, WTO Executive course on the intersection between Public health, Intellectual Property and trade organised by World Health Organisation, WHO, World Trade Organisation, WTO and World Intellectual Property Organisation, WIPO held during 29, Sep to 31, Oct, 2020	31-10-2020	Attended
Inter National	Orientation Program	Completed Distance Learning Course on e-tutorial on Using Patent Information organised by World Intellectual Property Organisation, WIPO on 7, Oct, 2020	07-10-2020	Attended

Inter National	Orientation Program	Completed PCT Distance Learning Course on INTRODUCTION TO THE PATENT COOPERATION TREATY organised by World Intellectual Property Organisation, WIPO on 6, Oct, 2020	06-10-2020	Attended
National	Workshop	One day National Online Workshop on Outcome Based Education and NBA Accreditation by CREATES, IISER Bhopal under under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching PMMMNMTT, MHRD, Govt.of India on 10, Oct, 2020	10-10-2020	Attended
National	FDP/FIP	5-day online FDP on Universal Human Values for DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna during 21 - 25 September 2020.	25-09-2020	Attended
Inter National	Workshop	Internation Virtual Workshop on Global seismology and Tectonics organised by GeoScience & Technology Division, NIESET, CSIR, Jorhat, Assam, India during 14-25, Sep, 2020	25-09-2020	Attended
National	Workshop	Online Workshop on Evidence Based Teaching and Learning Strategies in Higher Education organised by CREATES, IISER Bhopal under under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching PMMMNMTT, MHRD, Govt.of India on 20-22,July, 2020	22-07-2020	Attended
National	Online Conference	Online Lecture Light & Einstein's $E=mc^2$ organised by Indian Asociation Of Physics Teachers, IAPT (RC-Delhi & Haryana) on 20, June, 2020	20-06-2020	Attended
National	Workshop	Two day workshop on Ancient Indian Mathematics and Astronomy conducted by Department of humanities and Social Siences, IITMadras on 12, March, 2020	01-03-2020	Attended
State	Workshop	Workshop in Physics- Revision of UG Curriculum based on LOCF organised by University of Madras, at Guru Nanak College, Chennai on 13, Dec, 2019	01-12-2019	Attended
National	Orientation	Five day course Instructional Course on Indian Sciences organised	01-12-2019	Attended

	Program	by KV Sarma Research Foundation, Chennai supported by TATA Trusts during 27, Nov-1, Dec, 2019		
Inter National	Symposium	Delegate in IISF 2019, India International Science Festival 2019 at Kolkatta during 5-8, Nov, 2019	08-11-2019	Attended
National	FDP/FIP	Training Programme on Academic Leadership , organized by Centre for Academic Leadership and Education Management, Aligarh Muslim University under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching PMMMMNMTT, MHRD, Govt.of India at MEASI Institute of Management, The New College, Chennai, 1-4, April, 2019.	04-04-2019	Attended
National	FDP/FIP	Level2 of the STEM Teacher Training Workshop on Research based Pedagogical Tools (RBPT) organized by Centre of Excellence in Science and Mathematics Education (COESME), IISER Pune jointly with Indian Institute of Technology (IIT) Gandhinagar, Gujarat; Department of Biotechnology (DBT), Government of India; and Newton Bhabha Fund of the British Council along with experts from University of Sheffield at IISER, PUNE under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching PMMMMNMTT, MHRD, Govt.of India, 17-19, Jan, 2019	19-01-2019	Attended

Invited Talks Delivered /Acted as Resource Person

Program Type	Program Level	Month & Year	Description (Title)
Webinar	National	09-2020	Delivered Talk on “Empowerment Schemes for Persons with Intellectual Disabilities – Integrating in Inclusive Education” in 7 day National Webinar on Exploration of Opportunities for Women Empowerment organized by the Centre for Women Empowerment & Women Studies of Manonmaniam Sundaranar University, Tirunelveli, India on 30, Sep,2020
Webinar	National	09-2020	Delivered Talk on "Empowerment of persons with disabilities (Divyangjan) by effective utilization of schemes of Govt. of India” in 7 day National Webinar on Exploration of Opportunities for Women Empowerment organized by the Centre for Women Empowerment & Women Studies of Manonmaniam Sundaranar University, Tirunelveli, India on 25, Sep,2020
Webinar	National	07-2020	Talk on Incorporating Science & Technology Innovations in everyday Teaching through our Curriculum, organised by Department of Physics, SIVET College, Chennai on 27, July, 2020
Webinar	National	07-2020	Talk on Science and Technology Innovations for COVID-19: Teaching perspective Organised by the Department of H&S in association with Institution’s Innovation Council, REC Rajalakshmi Engineering College, Chennai on 3, July, 2020

Workshop	National	01-2020	Resource person at National Level Workshop on Microscopy and Photomicrography, organised by PG & Research Department of Microbiology, DG Vaishnav College, Chennai on 21, Jan, 2020
FDP/FIP	State	10-2019	Resource person for session on Development of e-content for the Faculty Development Programme organised by Justice Basheer Ahmed Sayeed College for Women, Chennai on 31, Oct 2019
Conference	National	06-07-2019	Invited Talk on Concession in Entry into Colleges for Children with Special Learning Difficulties organised by Madras Dyslexia Association, MDA, Chennai on 06, July, 2019
Workshop	State	05-2019	Resource person for session on Higher Education & ICT in Three day workshop on UGC-NET Preparatory Sessions organised by NAAC Coordination Committee, DG Vaishnav College, Chennai during 3-6, May, 2019
Conference	National	03-2019	Guest speaker at Society for Women Engineers, SWE Chennai Affiliate on Indian Women in STEM , as a part of International Women's Day Celebration

Dr.D.Syamala, M.Sc., M.Phil., M.E., Ph.D.
Associate Professor



Level	Category (Type)	Title	Month & Year	Attended / Organized
State	Workshop	One day workshop on PFMS-EAT Module	11-2019	Attended
National	Conference	Hierarchy structured materials (NCHSM2020)	02-2020	Attended
Inter National	Conference	International Conference on Physics of Advanced Materials and Molecules (ICPAMM2020)	01-2020	Attended
National	Seminar	Unravelling Quantum Mechanics	08-2019	Organized
Invited Talks Delivered / Acted as Resource Person				
Program Type	Program Level	Month & Year	Description (Title)	
Webinar	State	05-2020	Webinar on Introduction to ADC and DAC Converters	

Dr.V.Renganayaki, M.Sc., Ph.D. with SLET
Assistant Professor



Level	Category (Type)	Title	Month & Year	Attended / Organized
State	Workshop	Identification and supporting Dyslexic Students by IQAC, D G Vaishnav College	02-2019	Attended
Inter National	Workshop	Applications of IoT, D G Vaishnav College	07-2019	Attended
National	Seminar	Recent Trends in Materials Science and Nanoscience, Dept. of Physics, Bharathi Women's College, Chennai	02-2020	Attended
National	Webinar	"Faculty Awareness Program on NAAC Accreditation" by RD's Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune	10/05/2020 to 15/05/2020	Attended
State	Webinar	"COVID 19 Awareness E-Quiz" Conducted by P.G & Research Department of Microbiology, D G Vaishnav College, Chennai	13-05-2020	Attended
National	Webinar	ICT for effective Physics Teaching, Learning and Evaluation, by Department of Phsics, Stella Maris College, Chennai	18-05-2020	Attended
National	FDP/FIP	Faculty Development Programme on Managing online classes and co-creating MOOCs by TLC, Ramanujan College, Delhi under PMMMNMTT	18/05/2020 TO 03/06/2020	Attended
National	Webinar	Online lecture series-Solid state Physics-Dept. of theoretical Physics,University of Madras	1/6/2020-4/6/2020	Attended

National	FDP/FIP	FDP-A brief Course on superconductivity-NPTEL	1/2020 TO 4/2020	Attended
National	FDP/FIP	Arpit Course for CAS-Curriculum Pedagogy and Evaluation for Higher Education-SWAYAM	1/2020 to 4/2020	Attended
National	Workshop	National level virtual Training on ICT Competancy for Higher Education Teachers-By IQAC, D G Vaishnav College	13/7/2020 to 15/07/2020	Attended
National	FDP/FIP	Online FDP on Universal Human Values for Dheeksharambh by NIT Patna	21/09/2020 to 25/09/2020	Attended

Dr.V.Sangeetha, M.Sc., M.Phil., Ph.D.
Assistant Professor



Level	Category (Type)	Title	Month & Year	Attended / Organized
State	Workshop	Identification and supporting Dyslexic students	02-2019	Attended
Inter National	Workshop	Applications of IOT(Internet of things)	07-2019	Attended
	Refresher Course	UGC sponsored Refresher course in Physics, Batch XXI, UGC-HRDC,University of Madras	10-2019	Attended
	FDP/FIP	A Brief course on Superconductivity	01-2020 to 04-2020	Attended
	Refresher Course	Teacher and Teaching in Higher education	02-2020	Attended
National	Webinar	Faculty awareness program on NAAC accreditation	05-2020	Attended
National	FDP/FIP	Online faculty enrichment programme	05-2020	Attended
State	Webinar	ICT for effective Physics teaching, learning & evaluation	05-2020	Attended
National	Webinar	Online lectures in Solid State Physics series "Electrons in solids"	05-2020	Attended
State	Webinar	Sensors &Microcontroller and Earth's magneticfield	06-2020	Attended
National	Webinar	Century of Quantum Mechanics and still going strong	06-2020	Attended
State	Webinar	Role of Siddha medicine in combating COVID-19	07-2020	Attended
National	Workshop	ICT competency for Higher Education Teachers	07-2020	Attended
Inter	Webinar	Revisiting Human Rights, Ethics and Environment during Covid-19	08-2020	Attended

National				
National	Seminar	National seminar on Applications of vibrational Spectroscopy	08-2020	Attended
National	Workshop	Outcome based Education and NBA accreditation	10-2020	Attended
Inter National	Webinar	Silicon and beyond	09-2020	Attended
Inter National	Webinar	Current trends in Condensed matter Physics	09/2020 to 10/2020	Attended

Dr. D.Sridevi, M.Sc., M.Phil., Ph.D.
Assistant Professor



Level	Category (Type)	Title	Month &Year	Attended / Organized
Inter National	Workshop	• International workshop on applications on Internet of Things , DG Vaishnav College	07- 2019	Attended
National	Webinar	Faculty Awareness Program on NAAC Accrediation	05-2020	Attended
National	Webinar	Nonlinear wave in Physics:From solitary waves and solutions to Rogue waves	05-2020	Attended
State	Webinar	ICT for Effective Physics Teaching, Learning and Evaluation	05-2020	Attended
State	Webinar	COVID -19 What do we understand?	05-2020	Attended
National	FDP/FIP	Online National Faculty Enrichment Programme	05-2020	Attended
National	FDP/FIP	Two week Faculty Development Programme: Managing online classes and co- creating MOOCs 2.0	05-2020	Attended
State	Webinar	Science and Technology Innovations for COVID-19 : A Teaching Perspective	07-2020	Attended
State	Webinar	Role of Siddha medicine in combating COVID 19	07-2020	Attended
State	Workshop	The Virtual Hands-on Training Workshop on "ICT Competency for Higher Education	07-2020	Attended
National	Webinar	Driving Innovation in Advanced Materials with Modeling and Simulations	07-2020	Attended
Inter National	Webinar	Development of Ultra High Temperature Materials for Hypersonic Applications	07-2020	Attended
State	Webinar	Incorporating Science & Technology Innovations in our Everyday Teaching Through Curriculum	07-2020	Attended
Inter National	FDP/FIP	Five Day, International FDP Series	07-2020	Attended
Inter	Webinar	Recent Advanced Materials in Energy Applications	07-2020	Attended

National				
National	Webinar	Advanced Electronic Materials and Devices for Select Aero-Space and Aero-Defence Applications	08-2020	Attended
State	Webinar	Revisiting Human Rights, Ethics and Environment During COVID -19	08-2020	Attended
State	Webinar	studies on phase matchable non linear materials	08-2020	Attended
National	Webinar	Recent Trends in Physics of materials	08-2020	Attended
Inter National	Webinar	Advanced Materials for Energy Conversion and Storage	08-2020	Attended
National	Webinar	National Seminar On Applications Of Vibrational Spectroscopy	08-2020	Attended
National	Webinar	National Skill India Programme on Materials Synthesis and Products for Self Reliant India	08-2020	Attended
State	Webinar	Research methodology	09-2020	Attended
Inter National	Webinar	International Webinar on "Silicon and beyond"	09-2020	Attended
National	Webinar	Current and future aspects of electro organic synthesis	09-2020	Attended
Inter National	Symposium	Two Day International Web Symposium on "Nonlinear Systems and its Applications"	09-2020	Attended
National	Seminar	National level virtual training on "ICT tools for effective assessment- formative and summative"	09-2020	Attended
National	FDP/FIP	One day National Level Faculty Development Program on Holistic approach to Skill based higher education to face new normal NEP 2020	09-2020	Attended
National	Workshop	Five-day National Level Workshop on "Functional Materials, Dye-sensitized Solar Cells and Perovskite Solar Cells"	09-2020	Attended
National	FDP/FIP	5 – day Online Faculty Development Program on Universal Human values for DEEKSHARAMBH(Student induction Program)	09-2020	Attended
National	Workshop	outcome base education NBA accreditation- Creates, IISER,Bopal,MHRD-Oct 10,2020	10-2020	Attended
Inter National	Workshop	Gravitational Waves:A New Window to Universe-St.Thomas College Kozhencherry in association with the IQAC-Oct 30,2020	10-2020	Attended
State	Orientation Program	Faculty Induction Programme / Orientation Programme organised by the Human Resource Development Centre University of Madras in Online Mode from 5th November, 2020 to 4th December 2020.	11-2020	Attended

Mrs. Pourkodee D , M.Sc., NET
Assistant Professor



Level	Category (Type)	Title	Month & Year	Attended / Organized
Inter National	Workshop	International Workshop on Applications of IOT (Internet of Things), organized by PG & Research Department of Computer Science and Application, DG Vaishnav College on 16 July 2019.	07-2019	Attended
State	Webinar	Catalyst - Making Science fun for Children - Vedanta Academy- 8th April 2020	04-2020	Attended
National	Webinar	"Enter into the world of Electronics" organised by Visvesvarya Industrial and Technological Museum, Bangalore on April 10,2020 at 10.30 am	04-2020	Attended
Inter National	Webinar	Nonlinear waves in Physics: From Solitary waves and Soliton to Rogue waves by Dept of Physics, SRMIST, Ramapuram Campus, Chennai-13/05/20 at 6.30 to 8 PM	05-2020	Attended
National	FDP/FIP	Online National Faculty Enrichment Programme for the academicians in the cosmic level-13th May to 19th May 2020-The Internal Quality Assurance Cell of Mannar Thirumalai Naicker College, Madurai	05-2020	Attended
National	Webinar	"COVID-19....what do we understand?" -20.05.2020 - Department of Microbiology, Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai	05-2020	Attended
State	Webinar	Micro, Nano and Atomic scale Approaches in Electronic Applications- 21.05.2020 -Erode Arts and Science College, Department of Electronics ,Erode	05-2020	Attended

Inter National	Webinar	Materials for Energy, Environment and Health Care Applications - 21.05.2020 & 22.05.2020-Department of Chemistry, Gandhigram Rural Institute (Deemed to be University), Dindigul-624302, Tamil Nadu	05-2020	Attended
National	FDP/FIP	Two Week FDP on Managing Online Classes and Co-Creating MOOCS 2.0- 18th May, 2020 to 01 June 2020-Teaching Learning Centre, Ramanujan College University of Delhi	06-2020	Attended
State	FDP/FIP	Faculty Development Programme on Recent Advances in Physics-June 3 & 4, 2020.-SRM	06-2020	Attended
State	Webinar	Science and Technology Innovations for COVID-19 : A Teaching Perspective	07-2020	Attended
State	Webinar	Role of Siddha medicine in combating COVID 19	07-2020	Attended
State	Workshop	The Virtual Hands-on Training Workshop on "ICT Competency for Higher Education	07-2020	Attended
National	Webinar	Driving Innovation in Advanced Materials with Modeling and Simulations	07-2020	Attended
Inter National	Webinar	Development of Ultra High Temperature Materials for Hypersonic Applications	07-2020	Attended
State	Webinar	INCORPORATING SCIENCE & TECHNOLOGY INNOVATIONS IN OUR EVERYDAY TEACHING THROUGH CURRICULUM"	07-2020	Attended
Inter National	FDP/FIP	Five Day, International FDP Series	07-2020	Attended
Inter National	Webinar	Recent Advanced Materials in Energy Applications	07-2020	Attended
State	Webinar	"Technologies for the Exploration of the Inner Space"	07-2020	Attended
State	Webinar	SNLABKON-2020 WEBINAR "EMERGING TRENDS IN MEDICAL TECHNOLOGY – A KALEIDOSCOPIIC VIEW "-17.07.2020 & 18.07.2020-The Sankara Nethralaya Academy (TSNA)	07-2020	Attended
State	Webinar	"PROSPECTS AND CHALLENGES OF A SUSTAINABLE FUTURE WITH SOLAR ENERGY"-Francis Xavier Engineering College (Autonomous), Tirunelveli.	07-2020	Attended
National	Webinar	"Research on Metallic Glasses-An Overview "-28.07.2020-Condavaru Kandaswami Naidu College for Men, Chennai	07-2020	Attended
National	Webinar	"Advanced Fiber Technology for Various Sensing Applications"-29.7.2020-RMK College of Engineering and technology	07-2020	Attended
National	Webinar	`The Beauty of Nonlinear Systems', organized by the Department of physics, WMO Arts & Science college, Muttill on 01 August 2020	08-2020	Attended

National	Webinar	Advanced Electronic Materials and Devices for Select Aero-Space and Aero-Defence Applications	08-2020	Attended
State	Webinar	REVISITING HUMAN RIGHTS, ETHICS AND ENVIRONMENT DURING COVID -19	08-2020	Attended
State	Webinar	studies on phase matchable non linear materials	08-2020	Attended
National	Webinar	RECENT TRENDS IN PHYSICS OF MATERIALS	08-2020	Attended
Inter National	Webinar	Advanced Materials for Energy Conversion and Storage	08-2020	Attended
National	Webinar	NATIONAL SEMINAR ON APPLICATIONS OF VIBRATIONAL SPECTROSCOPY	08-2020	Attended
National	Webinar	National Skill India Programme on Materials Synthesis and Products for Self Reliant India	08-2020	Attended
State	Webinar	"Research methodology"- 2.09.2020- New College, Chennai	09-2020	Attended
Inter National	Webinar	"Silicon and beyond"- 03.09.20-Department of Physics, shift II DG Vaishnav College,Chennai	09-2020	Attended
State	Webinar	" Current and future aspects of electro organic synthesis-07.09.20- Department of Physics, Saveetha Engineering College, Chennai	09-2020	Attended
Inter National	Symposium	"Nonlinear Systems and its Applications"- 11.09.20 & 12.09.20- Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai	09-2020	Attended
National	Webinar	virtual training on"ICT tools for effective assessment- formative and summative"- 17.09.2020 & 18.09.20- IQAC, DG Vaishnav College,Chennai	09-2020	Attended
National	FDP/FIP	Holistic approach to Skill based higher education to face new normal NEP 2020-19.09.2020- Department of B.Com., CS and IQAC, D G Vaishnav College, Chennai	09-2020	Attended
National	Workshop	"Functional Materials, Dye-sensitized Solar Cells and Perovskite Solar Cells"- 21.09.2020 To 25.09.2020- Department of Physics, School of Science and Humanities, Kongu Engineering College, Perundurai, Erode, Tamil Nadu	09-2020	Attended
National	FDP/FIP	Universal Human values for DEEKSHARAMBH(Student induction Program)- 21.09.2020 To 25.09.2020- NIT Patna	09-2020	Attended
National	Workshop	outcome base education NBA accreditation- Creates, IISER,Bopal,MHRD-Oct 10,2020	10-2020	Attended
Inter National	Workshop	Gravitational Waves:A New Window to Universe-St.Thomas College Kozhencherry in association with the IQAC-Oct 30,2020	10-2020	Attended

State	Orientation Program	Faculty Induction Programme / Orientation Programme organised by the Human Resource Development Centre University of Madras in Online Mode from 5th November, 2020 to 4th December 2020.	11-2020	Attended
-------	---------------------	--	---------	----------

Dr.K.Selva Kothai Nachiyar, M.Sc., M.Phil., Ph.D.
Assistant Professor



Level	Category (Type)	Title	Month & Year	Attended / Organized
State	Workshop	IDENTIFICATION AND SUPPORTING DYSLEXIC STUDENTS-IQAC,DGVC.	02-2019	Attended
National	Seminar	NANOTECHNOLOGY-THE FASCINATING WORLD OF SCIENCE-ANNA ADARSH COLLEGE.	08-2019	Attended
National	Webinar	VIRTUAL TRAINNING ON ICT COMPETENCY FOR HIGHER EDUCATION TEACHERS -IQAC - DGVC	07-2020	Attended
Inter National	Webinar	SILICON AND BEYOND -NEED FOR NEW LOW DIMENSIONAL MATERIALS IN THE FIELD OF NANO SCIENCE - DEPT.OF.PHY-SHIFT II - DGVC	09-2020	Attended
National	Webinar	LIQUID CRYSTALS TECHNOLOGY AND CURRENT TRENDS, DEPT.OF.PHY, SHIFT II , DGVC	09-2020	Attended

DEPARTMENT OF PHYSICS(DAY)

REPORT (JUNE -OCTOBER 2019)

Activity 1

- 1. Name of the event** : **Workshop Series on “Imparting 21st Century learning Skills” – Creating Google forms**
- 2. Date** : **17.07.2019 and 22 .07.2019**
- 3. Venue** : **Physics Dept, D G Vaishnav College**
- 4. Organisers** : **Dept. of Physics**
- 5. Resource Person** : **B. Harini, II B.Sc.Physics**
- 6. No. of Staff Participants** : **3**
- 7. No. of student participants** : **50 students on 17.07.2019 & 140 students on 18.07.2019**
- 8. Detailed Report of the Programme**

A workshop Series on “**Imparting 21st Century learning Skills**” was organised in the Department of Physics for undergraduate students. As the first step, Harini B, II B.Sc.Physics shared her knowledge on creating Google forms. 50 students of II.B.Sc.Physics participated on 17.07.2019 and learnt to create Google forms. Students of I B.Sc.Physics, III B.Sc.Physics and I B.Sc. Mathematics (140 students) participated on 22.07.2019 and equipped themselves with ICT skills.

9. Outcome of the programme/event

These skills help the students keep up with the lightning-pace of today’s modern markets. This type of activity motivates peer learning, collaborative learning and usage of ICT tools effectively.



Dept. of Physics, DGVC
17.07.2019

ACTIVITY 2

1. Name of the event : ISRO SPACE QUIZ
2. Date : 19/08/2019
3. Venue : Physics Dept, D G Vaishnav College
4. Organisers : Dept. of Physics
5. Resource Person : Faculty, Dept. of Physics
6. No. of Staff Participants : 6
7. No. of student participants : 300 students
8. Detailed Report of the Programme

Indian Space Research Organisation in collaboration with MyGov conducted ISRO SPACE online quiz competition 2019. The competition was held on 19/08/2019 at the Department of Physics for the UG students to increase students' awareness of the space programme. Under the banner of Triple Helix, Science Club of the Department, 300 students from I, II, III B.Sc.Physics, II B.Sc.Chemistry, I B.Sc.Mathematics and I B.Com (C) have completed online Space Quiz and obtained the certificates.



9. Outcome of the programme/event

The students became enthusiastic and the quiz helped them to increase awareness about the space programme of our country. They obtained their participation certificates from ISRO website.

ACTIVITY 3

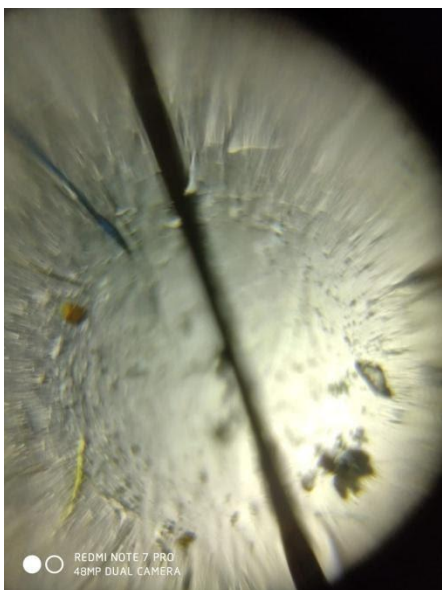
1. Name of the event : Foldscope workshop
2. Date : 27/08/2019
3. Venue : Physics Dept, D G Vaishnav College
4. Organisers : Dept. of Physics
5. Resource Person : Dr.D.Uthra, Associate Professor &Head,
Dept. of Physics, D G Vaishnav College
6. No. of Staff Participants : 3
7. No. of student participants : 50 students and 10 student volunteers

8. Detailed Report of the Programme

Foldscope is the ultra-affordable, paper microscope. Designed to be extremely portable, durable, and to give optical quality similar to conventional research microscopes (magnification of 140X and 2 micron resolution), Foldscope brings hands-on microscopy to new places!

It was developed by Manu Prakash of Stanford University. It is part of the "frugal science" movement which aims to make cheap and easy tools available for scientific use in the developing world.

Our students have become a part of this initiative and have been actively uploading images in microcosmos.foldscope.org. As an activity of the Triple Helix, Dr.D.Uthra and 10 Foldscopers from our Department conducted Foldscope assembling workshop on 27.08.2019. Around 50 students of I B.Sc. Mathematics participated in the workshop. Dr.D.Uthra emphasized the assembly and handling of the Foldscope with their importance and usage of Foldscope. The participants were very excited on hearing the description of Foldscope by the trainer. At end of the session, they clarified the doubts about foldscope.



Dept. of Physics, DGVC 27.08.2019

9. Outcome of the programme/event

The main concept of programme was to promote science knowledge to the students mainly focused by the Origami based paper microscope. Foldscope is so affordable and versatile that it brings science to our life activities. It is really a useful and wonderful research tool for the students. The students assembled the foldscopes by themselves. They viewed the microscopic images of flower petals, pollen grains, insect legs, hair etc.

ACTIVITY 4

1. Name of the event

: Celebrate Women in Science!
Celebrate Navratri!!

2. **Date** : **03.10.2019**
3. **Venue** : **Dept. of Physics, I B.Sc.Physics class room**
4. **Organisers** : **Dept. of Physics**
5. **Resource Person &Head,** : **Dr.D.Uthra, Associate Professor**
Dept. of Physics, D G Vaishnav College
6. **No. of Staff Participants** : **5**
7. **No. of student participants** : **50**
8. **Detailed Report of the Programme**

As a part of our Triple Helix Science club activity, our I B.Sc. Physics students learnt about Women in Science - Lilavati's Daughters - Janaki ammal, Obala Bosh, Kadambini Ganguli, Anandibai Joshi and Kamala Sohonie. The You tube video of Dr.D.Uthra's presentation on Lilavathy's daughters at Varahamihira Science Forum was viewed by 50 undergraduate students of I B.Sc. Physics.



9. **Outcome of the programme/event**

The students learnt about the life and achievements of pioneer Women scientists of our country. The young generation got motivated by the highlights of the talk, i.e. how women in those early years, before independence tackled many hurdles and succeeded in their scientific career.

ACTIVITY 5

- 1. Name of the event** : **Fun with Physics – Hands- on activity**

- 2. Date** : **04.10.2019**

- 3. Venue** : **Dept. of Commerce, I B.Com. class room**

- 4. Organisers** : **Dept. of Physics**

- 5. Resource Person &Head,** : **Dr.D.Uthra, Associate Professor**
Professor, **Ms.D.Pourkodee, Assistant**
Dept. of Physics, D G Vaishnav College

- 6. No. of Staff Participants** : **3**

- 7. No. of student participants** : **57**

- 8. Detailed Report of the Programme**

The hands –on activity based workshop “FUN WITH PHYSICS” was organised by the Dept. of Physics, D G Vaishnav College for the first year undergraduate students of Commerce department of the college. The fundamental concepts of Physics, based on the non major elective paper, Physics in Everyday life-I were presented by the students as working models and hands-on experiments. Around 57 students of I year B.Com participated in the workshop on 4th October, 2019.



9. Outcome of the event

The students understood the basic concepts of Physics in everyday life and designed their own hands –on experimental activity. They participated enthusiastically and they could associate the theory that they learnt, apply it and inferred the experimental results.

REPORT (OCTOBER 2019 - MARCH 2020)

ACTIVITY 1

- 1. Name of the event** : **Celebrate Women in Science!
Celebrate Navratri!!**
- 2. Date** : **03.10.2019**
- 3. Venue** : **Dept. of Physics, I B.Sc.Physics class
room**
- 4. Organisers** : **Dept. of Physics**
- 5. Resource Person
&Head,** : **Dr.D.Uthra, Associate Professor**
Dept. of Physics, D G Vaishnav College
- 6. No. of Staff Participants** : **5**
- 7. No. of student participants** : **50**
- 8. Detailed Report of the Programme**

As a part of our Triple Helix Science club activity, our I B.Sc. Physics students learnt about Women in Science - Lilavati's Daughters - Janaki ammal, Obala Bosh, Kadambini Ganguli, Anandibai Joshi and Kamala Sohonie. The You tube video of Dr.D.Uthra's presentation

on Lilavathy's daughters at Varahamihira Science Forum was viewed by 50 undergraduate students of I B.Sc. Physics.



9. Outcome of the programme/event

The students learnt about the life and achievements of pioneer Women scientists of our country. The young generation got motivated by the highlights of the talk, i.e. how women in those early years, before independence tackled many hurdles and succeeded in their scientific career.

ACTIVITY 2

1. Name of the event activity- : Fun with Physics – Hands- on Part 1
2. Date : 04.10.2019
3. Venue : Dept. of Commerce, I B.Com. class room
4. Organizers : Dept. of Physics
5. Resource Person &Head, Professor, : Dr.D.Uthra, Associate Professor
Ms.D.Pourkodee, Assistant
Dept. of Physics, D G Vaishnav College

6. No. of Staff Participants : 3

7. No. of student participants : 57

8. Detailed Report of the Programme

The hands –on activity based workshop “FUN WITH PHYSICS” was organised by the Dept. of Physics, D G Vaishnav College for the first year undergraduate students of Commerce department of the college. The fundamental concepts of Physics, based on the non major elective paper, Physics in Everyday life-I were presented by the students as working models and hands-on experiments. Around 57 students of I year B.Com participated in the workshop on 4th October, 2019.



9. Outcome of the event

The students understood the basic concepts of Physics in everyday life and designed their own hands –on experimental activity. They participated enthusiastically and they could associate the theory that they learnt, apply it and inferred the experimental results.

ACTIVITY 3

1. Name of the event : Virtual Seismologist
2. Date : 13.02.2020

3. Venue : Dept. of Physics
4. Organizers : Dept. of Physics

5. Resource Person : Dr.D.Uthra, Associate Professor
&Head,
Dept. of Physics, D G Vaishnav College

6. No. of Staff Participants : 1

7. No. of student participants : 46- I B.Sc.Physics & 5 B.Com A students

8. Detailed Report of the Programme

The department of Physics has been encouraging the students to take up online courses and virtual labs and get trained to use virtual labs for the past few years. Virtual Courseware Project by **California State University** produces such interactive, online simulations for earth science field studies and life science laboratory. *Virtual Earthquake* is an interactive Web-based activity designed to introduce the user to the concepts of how an earthquake EPICENTER is located and how the RICHTER MAGNITUDE of an earthquake is determined. Activities are designed to enhance an existing curriculum and include online assessments. Students learn to analyse data, derive data from graph / seismograms and predict the epicenter. Students are able to visualize and apply the concepts of Amplitude, Frequency, Time – distance that they learn in theory through this lab courseware. **All the students of I B.Sc. Physics and a few motivated I B.Com.(A) students took part in this online learning workshop on 13.02.2020.** Each of them took part in this activity to apply their knowledge – to collect data, estimate, analyse, improvise, calculate, compare and find the result.

9. Outcome of the event

Upon completion of this activity successfully our students were given the opportunity to receive a personalized **Certificate as a "Virtual Seismologist"** from the **California State University** along with the **Name of our college**. In order to get this certificate, each of them had to make careful measurements throughout the activity, which is personalized. It was indeed a step forward for our Department in using ICT tools consistently and collaborate with international projects and explore beyond our classrooms!

ACTIVITY 4

- 1. Name of the event** : **Science at Sabha**
- 2. Date** : **16.02.2020**

- 3. Venue** : **The Music Academy, Chennai**
- 4. Organizers** : **IMSc., Chennai**
- 5. Resource Person** : **Various Scientists**
- 6. No. of Staff Participants** : **1**

- 7. No. of student participants** : **Few UG students**

- 8. Detailed Report of the Programme**

Science at the Sabha is a series of talks aimed at bridging the gap between science and everyday life. College students, teachers, children and history buffs get answers to their questions on science and mathematics as they attend this outreach programme organised by The Institute of Mathematical Sciences, Chennai every year. This year, this program was held on 16.02.2020 and the speakers for this year were

- Shannon Olsson, National Centre for Biological Sciences, TIFR, Bengaluru-
Connecting with nature
- Harinath Chakrapani, Indian Institute of Science Education and Research, Pune-
Chemical darts to find antibacterial targets
- V Madhurima, Central University of Tamil Nadu, Thiruvarur-
A balancing act: Appreciating dance through understanding motion
- R Ramanujam, The Institute of Mathematical Sciences, Chennai-
Looking for logic in social practice

9. Outcome of the event:

Students have made a video presentation based on these talks. Few of our enthusiastic students attended this public science lecture and were inspired to learn beyond textbooks.

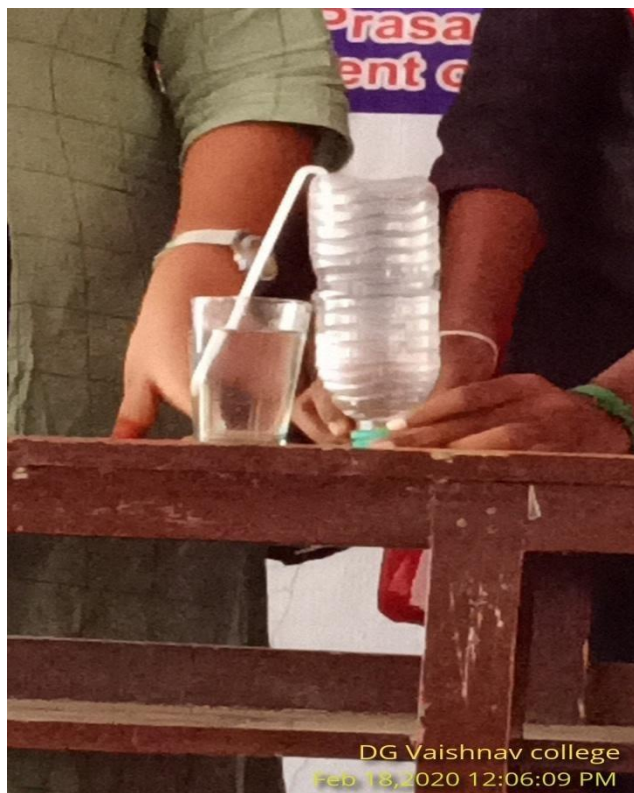
ACTIVITY 5

- 1. Name of the event activity- : Fun with Physics – Hands- on Part 2**
- 2. Date : 18.02.2020**
- 3. Venue : Dept. of Commerce, I B.Com. class room**
- 4. Organizers : Dept. of Physics**
- 5. Resource Person &Head, Professor, : Dr.D.Uthra, Associate Professor
Ms.D.Pourkodee, Assistant
Dept. of Physics, D G Vaishnav College**
- 6. No. of Staff Participants : 3**
- 7. No. of student participants : 57**
- 8. Detailed Report of the Programme**

The hands –on activity based workshop “FUN WITH PHYSICS” was organised by the Dept. of Physics, D G Vaishnav College for the first year undergraduate students of Commerce department of the college. The fundamental concepts of Physics, based on the non major elective paper, Physics in Everyday life-II were presented by the students as working models and hands-on experiments. Around 57 students of I year B.Com participated in the workshop on 18th February, 2020 explored the properties of liquids, Bernouli’s theorem and friction.

9. Outcome of the event

The students could share various concepts of Physics and designed & demonstrated their own hands – on experimental activity. This activity enhanced the 21st century learning skills of the students.



ACTIVITY 6

1. Name of the event : **Unfolding nature with Foldscope**
2. Date : **18.02.2020**

3. Venue : **Dept. of Physics**
4. Organizers : **Dept. of Physics**

5. Resource Person : **Dr.D.Uthra, Associate Professor**
&Head,
Dr.Selva Kothai Nachiar, Assistant
Professor,
Dept. of Physics, D G Vaishnav College

6. No. of Staff Participants : **2**

7. No. of student participants : **48**

8. Detailed Report of the Programme

Our college has a rich flora and fauna that need to be documented. As a step towards it, each of our II B.Sc. students have been taught to appreciate this. A few students learnt to capture microscopic images of leaves and flowers from the gardens of our college, while another set has been involved to capture picturesque arboreal view of our college. Through these projects students get to understand the change in the pattern of the same during different seasons. Currently with Vasanth / Spring season is on to be followed by flowering and fruit bearing periods, each student was awed by the progression.



9. Outcome of the event

Students took samples of flowers and leaves from our college as well as brought many samples which have day to day medicinal value. The microscopic image of these samples were caught and documented along with other details- botanical name, family, environment they grow, their use and the ecological threats they face. A few students collected small insects like ants, bees, spiders around the campus and caught their microscopic images. Through these hands-on activities students could understand the web of life. This helped them to hone their observation skills, thinking ability, and curiosity and build empathy towards nature.

ACTIVITY 7

1. Name of the event : Mission: Starlight – Global Experiment
2. Date : 19/02/2020
3. Venue : Dept. of Physics

4. **Organizers** : **Dept. of Physics**
5. **Resource Person** : **Dr.D.Sridevi** ,
Assistant Professor,
Dept. of Physics, D G Vaishnav College
6. **No. of Staff Participants** : **1**
7. **No. of student participants** : **46**
8. **Detailed Report of the Programme**

Royal Society of Chemistry, London provides a wonderful opportunity to students to take part in global experiments and through that students can share the data with thousands of students from around the world. Under the Science Club - Triple Helix, the Department of Physics organised one of such global experimental session-**Mission: Starlight**, for I B.Sc. Physics students. The first year under graduate Physics students (46) did this global experiment in the physics lab on 19.02.2020, under the guidance of our teachers. Upon successful completion, they all received certificates from Royal Society of



Chemistry.



ACTIVITY 8

1. Name of the event : 5E Learning
2. Date : 29.02.2020
3. Venue : Dept. of Physics, III B.Sc. class room
4. Organizers : Dept. of Physics
5. Resource Person &Head, : Dr.D.Uthra, Associate Professor

Professor,

Ms.D.Pourkodee, Assistant
Dept. of Physics, D G Vaishnav College

6. No. of Staff Participants : 9

7. No. of student participants : 57

8. Detailed Report of the Programme

5E Learning was organised by the Dept. of Physics, D G Vaishnav College for the first year undergraduate students of Commerce department of the college.

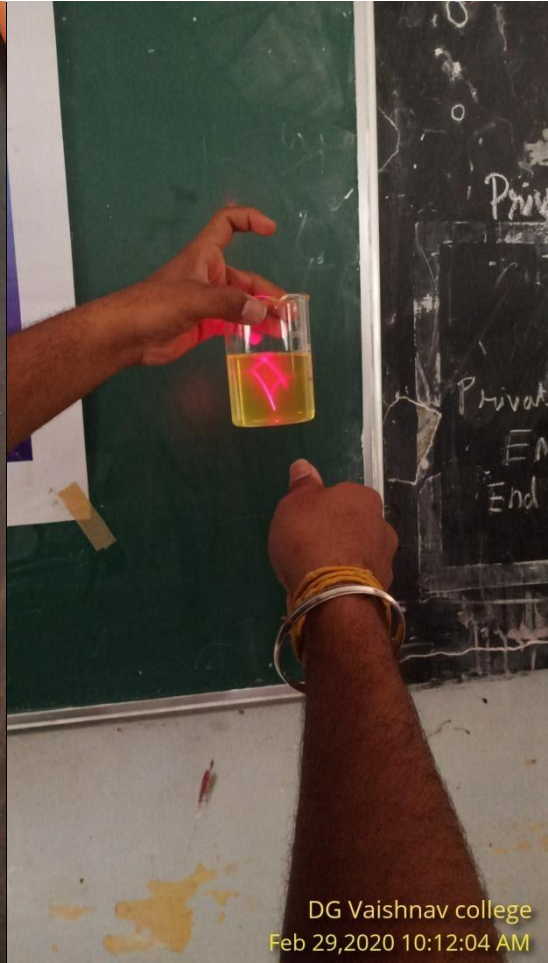
It is an active **Engagement** of students, Scientific **Exploration**, concept **Explanation**, **Extension** of their Ideas and 360° **Evaluation** based on 5E model. The fundamental concepts of Physics- Surface tension, Capillary rise , conduction of heat , Bernoulli's principle, reflection, refraction, Reverberation were presented by the students. Around 57 students of I year B.Com participated in the workshop on 18th February, 2020 explored the properties of liquids, Bernouli's theorem and friction. this was an active engagement of students that gave them opportunity to learn through doing and reflection through activities.

9. Outcome of the event

This helped in co-operative learning and peer learning among students. This empowered students to apply there theoretical knowledge of fundamental Physics to practical endeavour in settings inside and outside classrooms.



DG Vaishnav college
Feb 29,2020 10:02:12 AM



DG Vaishnav college
Feb 29,2020 10:12:04 AM

REPORT - June 2020-Sep 2020

ACTIVITY 1

1. Date of program : 5th June to 19th June 2020
2. Title/Theme of the Program : Annual Solar Eclipse Quiz
3. Program for the benefit of Students : For Undergraduate

4. Total no. of participants : 150 Under graduate
Physics Students

5. Venue of the program : Online Quiz

6. Summary of the program

Vigyan Prasar (VP) is a national institute for science and technology communication established in 1989 under the Department of Science and Technology, Government of India. It promotes and propagates a scientific and rational outlook in society; nurtures interest in science, encourages creativity and develops capacity for informed decision making. **The principal objective of VP is to popularize science to every nooks and corners of India.**

India is going to witness an amazing, rare celestial phenomenon of Annular Solar Eclipse on 21st June 2020. Vigyan Prasar would like to utilize this opportunity to popularize science in general and astronomy in particular among the people. Thus, Vigyan Prasar initiated an awareness drive. The goal of the drive is to encourage people to watch the eclipse in a safe manner and to foster an interest in astronomy.

To increase the awareness about the Solar Eclipses, Vigyan Prasar has organized an online quiz competition in coordination with MyGov.in from **5th June to 19th June, 2020**. The quiz was of **2 minutes during which 10 questions** need to be answered. An E-certificate was given to all the participants. Under the banner of Triple Helix science club, 150 students of B.Sc.Physics (all the three years of the programme) participated in the quiz.



ACTIVITY 2

1. **Date of program** : **23/07/2020 to 27/07/2020**
2. **Title/Theme of the Program** : **Kargil Vijay Diwas Quiz**
3. **Program for the benefit of Students** : **For Undergraduate**
4. **Total no. of participants** : **150 students**
5. **Venue of the program** : **online quiz**
6. **Summary of the program**

The **Kargil War** was fought during May-July, 1999, between India and Pakistan in the Kargil District of Jammu and Kashmir, along the Line of Control (LoC). This was the first ever Indian war fought, under constant media coverage. Frontline battles were taken into every Indian

home, which generated tremendous public support. This boosted the morale of our young soldiers and encouraged them to accomplish greater feats. ‘Operation Vijay’ was launched by India to flush out the Pakistani intruders from Kargil. The war was finally won by India and the whole nation celebrated this victory. However, not all soldiers, who fought in those most treacherous conditions, survived to be a part of this celebration.

India is celebrating 21st Kargil Vijay Divas on 26 July 2020 to commemorate the contribution of our warriors. To inculcate patriotism among students the Government of India has organised a national level quiz. . An E-certificate was given to all the participants. Under the banner of Triple Helix science club, 150 students of B.Sc.Physics (all the three years of the programme) participated in the quiz.



ACTIVITY 3

1. Date of program : 27/07/2020

**2. Title/Theme of the Program : International Astronomy
Astrophysics Competition**

**3. Program for the benefit of : For Undergraduate
Students**

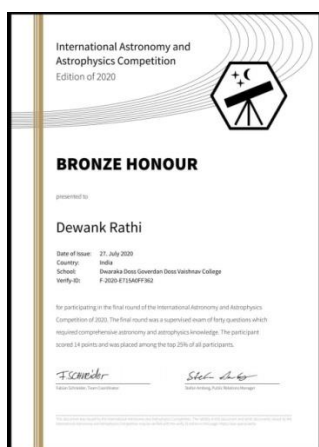
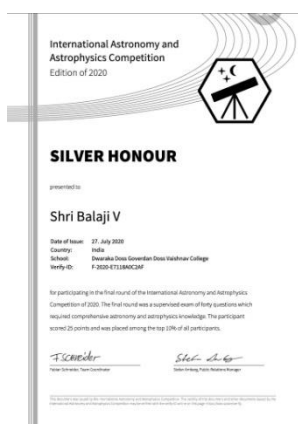
4. Total no. of participants : 30 students

5. Venue of the program

: Online platform

6. Summary of the program

Under the banner of Triple Helix Science club, the talented students of Third and second year of B.Sc.Physics participated in online **International Astronomy Astrophysics Competition 2020** which was an independent international Astronomy competition for talented and interested high school and university students. The students achieved outstanding results throughout the tournament.



ACTIVITY 4

1. Date of program

: 18/08/2020

2. Title/Theme of the Program Life-Tuesday Lecture

: Crystals in Daily series

3. Program for the benefit of Students

: For Undergraduate

4. Total no. of participants faculty

: 150 students and five

5. Venue of the program

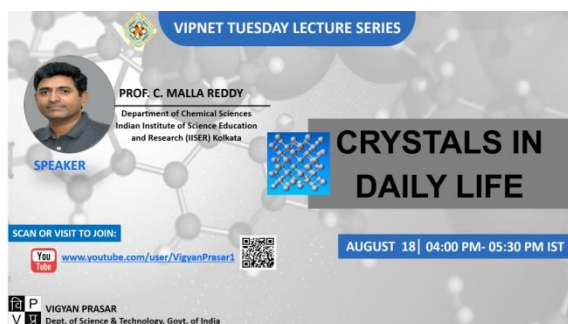
: Online platform

6. Summary of the program

A crystal is the regular arrangement of atoms or ions. But what is so special about them? How are they different from non-crystals or amorphous materials? Where do we find them? Indeed, they are everywhere, including in our body, in soil and rocks. The answers to all the questions asked above were clarified by the speaker in the ninth Tuesday lecture series of VIPNET.

Under the banner of Triple Helix Science club, the talented students of Third and second year of B.Sc.Physics participated in the online lecture.

The speaker Prof. C. Malla Reddy, Department of Chemical Sciences, Indian Institute of Science Education and Research (IISER) Kolkata delivered the lecture and made the students to know more about the crystals, how we can study them, their internal order, and the factors that govern the formation of crystals.



ACTIVITY 4

1. Date of program

: 08/09/2020

2. Title/Theme of the Program
Environmentr-How important

: Ozone and

it is for us-Tuesday Lecture series

3. Program for the benefit of
Students

: For Undergraduate

4. Total no. of participants
three faculty

: 150 students and

5. Venue of the program

: Online platform

6. Summary of the program

Under the banner of Triple Helix Science Club, the students of B.Sc.Physics Programme attended Tuesday Lecture series- 12th Lecture on, “Ozone and Environment: How important it is for us?”. It was delivered by Dr. Kripa Ram, Assistant Professor, Institute of Environment and Sustainable Development, Banaras Hindu University.

Ozone (O₃) is an important gas in the atmosphere which not only absorb the incoming solar ultraviolet radiation in the stratosphere and protects the earth’s environment (also known as good Ozone), it also acts as a powerful oxidising species in the troposphere & helps to remove other toxic gases in the troposphere. However, it serves as a pollutant and contribute in smog formation, and also has greenhouse characteristics, thus called as bad Ozone. The students knew about the different aspects of ozone and it’s impact on human health, anti-bacterial UV treatment, crops, global warming etc.

The poster is for a lecture series event. At the top left, it says 'VIPNET TUESDAY LECTURE SERIES'. At the top right, it says 'V P VIGYAN PRASAR Dept. of Science & Technology, Govt. of India'. The main title is 'OZONE & ENVIRONMENT: How Important It Is For Us?'. Below the title is a photo of the speaker, Dr. Kripa Ram, with his name and title: 'DR. KRIPA RAM ASSISTANT PROFESSOR IESD, BANARAS HINDU UNIVERSITY VARANASI'. A red banner at the bottom right indicates the date '08 SEPTEMBER' and time '04:00 PM To 05:30 PM'. On the left, there is a QR code and a link to the YouTube channel: 'www.youtube.com/user/VigyanPrasar'. At the bottom left, there are logos for 'India SCIENCE' and 'WATCH LIVE ON' with icons for the App Store and Google Play.

ACTIVITY 5

1. **Date of program** : **08/09/2020**
2. **Title/Theme of the Program** : **Meet your Alumni**
3. **Program for the benefit of Students** : **For Undergraduate**
4. **Total no. of participants faculty** : **82 students and 7**
5. **Venue of the program** : **Online platform**
6. **Summary of the program**

Under the banner of Triple Helix Science club, the department organised Meet Your Alumni – an online interactive programme. The students of B.Sc.Physics programme interacted with the alumni of 2014-2017 batch who were persuing higher studies and working in different fields.

Alumni Vimal Raj and Bharath (2014-2017 batch) who completed their PG in Physics and presently preparing for the NET/CSIR examinations guided the present set of UG students to prepare for various competitive exams, walk their path to understand exams for Higher Education. Alumnus Amarnath who completed Forensic Science and Cyber Security after his UG in our college stressed on the significance of developing skills during the course of study. Gokul and Kishore Kumar threw light upon the significance of giving seminar presentations and active participation in concept related peer learning processes. The programme was really interactive and helped to train the students to develop the scientific temper, achieve excellence in education in the field of Physics and related areas.

DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE



(AUTONOMOUS), Arumbakkam, Chennai - 600109
College with Potential for Excellence
Linguistic Minority Institution



DEPARTMENT OF PHYSICS (Shift - I)

Triple Helix science club

Cordially Invites you to the

MEET YOUR ALUMNI

Date: 30.09.2020(Wednesday)

Time:-11.00 am

Dr. V.Renganayaki Dr. D.Uthra Dr.S.Santhosh Baboo Shri.Ashok Kumar Mundra
Organising Secretary Head of the Department Principal Secretary