



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE (SHIFT-II)
(Autonomous)

Re-accredited with A++ Grade by NAAC
College with Potential for Excellence, Linguistic Minority Institution
Affiliated to University of Madras, Arumbakkam, Chennai – 600 106

PostGraduate Department of Physics
Details of Department Activities Report (2022-2023)

S.No	Date	Department Activities
1.	16/8/2022 to 24/8/2022	Prarambh 2022 - Student Induction Programme(UG)
2.	9/9/2022, 12/9/2022 & 13/9/2022	Deeksharambh - Student Induction Programme- 2022 (PG)
3.	15/9/2022	Seminar - Nanomaterials And Its Applications
4.	23/9/2022	Student Welfare Activity - Yoga For Youth Empowerment
5.	14/10/2022	Guest Lecture I - Green Energy for the Future Magazine - ILLUMINATE 2022
6.	14/10/2022	Guest Lecture II- Building a career out of your academic experiences - Unravelling the Mystery behind connecting the Dots better
7.	15/10/2022	Student Welfare Activity - World Students Day
8.	25/11/2022	Parents Teacher Meeting
9.	3/2/2023	Alumni Meet
10.	9/2/2023	EVS Trip
11.	14/2/2023	State Level Science Exhibition to commemorate National Science Day
12.	18/2/2023	Industrial Visit
13.	24/2/2023	National Level Workshop on DFT Calculation and Nanomaterial Characterization Techniques
14.	28/2/2023	Radiate 2023 - An Intercollegiate Event
15.	15/03/2023	Skill Enrichment On Electric Vehicle & its battery Technologies
16.	14/12/2022 - 4/3/2023	10 Value added courses conducted

**1. Name of the program : Deeksharambh – Student Induction Programme - 2022
(B.Sc. PCA)**

Date : 16.08.2022 to 24.08.2022

Resource Persons:

- 1) Mr. T. SelvaGanapathy,
Vice President,
Information Security in Infoziant Security, Chennai
- 2) Mr. K. Manohar,
Professor in Yoga (Yoga for Human Excellence) ,
Maanagar Arivuthirukovil (CALM TRUST), Chennai
- 3) Mr. R. Ajith Kumar,
Head Compliance & Company Secretary, Sundaram Asset Management
Company Limited (Subsidiary of Sundaram Finance Limited),Chennai

Total number of students participants: 38

Detailed Report of the Program:

Post Graduate Department of Physics has organized “Deeksharambh - Student Induction Program Prarambh 2022” from 16th August 2022 to 24th August 2022. Eminent speakers were invited from various fields as to motivate the students to develop their personalities. Mr. T. SelvaGanapathy interacted with students to develop their Entrepreneurship skills and imbibe the various industrial techniques. Mr. K. Manohar gave lively sessions on the topic “Yoga for Human Excellence” regarding how to lead a stress free life which energises the students. Mr. R. Ajith Kumar gave lectures on ”Judicious use of time”. Activities like essay writing, painting, elocution, debate, reading books and pencil carving were conducted. Students actively participated and exhibited their skills. Students also participated in chess to showcase their extracurricular activities.

Outcome of the programme/event:

- From the feedback obtained from the students, this Student Induction program provided a strong platform to showcase their talents.
- These lectures delivered by eminent speakers laid a foundation for a better student life.



**2. Name of the program : Deeksharambh – Student Induction Programme
Prarambh-2022 (PG)**

Date : 09.09.2022, 12.09.2022 and 13.09.2022

Resource Persons:

- 1) Mr. G. Gnanasambandan,
Assistant Director,
Forensic Sciences Department, Chennai.
- 2) Mr. B. Shanmugapriyan,
Assistant Professor,
Department of Physics, Loyola College, Chennai.
- 3) Mr. SnehaPrakash,
Head, HR & Administration,
Sundaram Business Services, Chennai.

Total number of students Participants: 22

Detailed Report of the Program:

The Post Graduate Department of Physics has conducted Student Induction Programme for I M.Sc. students to inspire them and lift their spirits during the course and in future. Mr. R. Shankar, RJ in Rainbow FM 101.4 MHz, All India Radio shared his experience about the career in media after earning a degree. Mr. G. Gnanasambandan Assistant Director, Forensic Sciences Department, Chennai shared his extensive knowledge in forensic science with the students as well as his wisdom in life. Mrs. Sneha Prakash Head, HR & Administration Sundaram Business Services instructed the youngsters about the conduct in workplace and interaction with individuals after reaching a crucial juncture in their lives. After that, the students were encouraged to participate in a range of activities, including essay writing, debate and painting, to exhibit their skills.

Outcome of the programme/event:

- The students enjoyed the Student Induction Programme
- The students had a good opinion about the institution and the course.
- Students grasped the experience from the alumni.
- The students volunteered to actively participate in the department's activities and they were able to form bonds with one another.



3. Name of the program : Seminar on “Nanomaterials and Its Applications

Date : 15.09.2022

Resource Person:

Dr. S. Gokul Raj,
Assistant Professor,
Department of Physics,
C. Kandaswami Naidu College for Men, Chennai.

Total number of Participants: 121

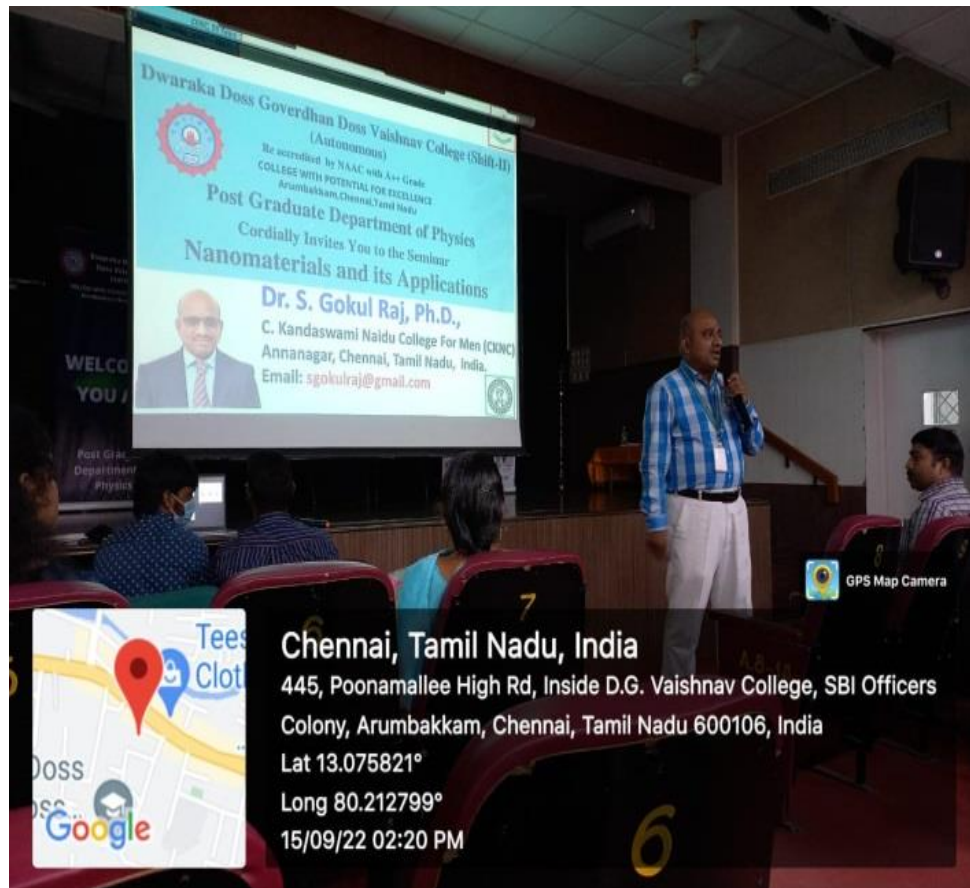
Detailed Report of the Program:

The main objective of the program is to expose the students to the concepts of Nanomaterials and make them easily understandable. The speaker Dr. S. Gokul Raj gave a presentation about nanomaterials, its synthesis methods, characterization techniques, types of nanotubes, advantages and disadvantages. He explained about the importance of nanomaterials. He highlighted the applications of Nanomaterials.

Outcome of the programme/event:

Based on the feedback collected from the students, the following outcomes are recognized:

- The program was interesting and interactive.
- Enlightened students about the importance of science in their daily lives.
- Realizing that Nanomaterials are extensively used in the field of medicine, science & technology including food processing, food packaging, functional food development, food safety, detection of foodborne pathogens, and shelf-life extension of food and/or food products.



4. Name of the program: Student Welfare Activity - Yoga For Youth Empowerment

Date : 23/9/2022

Resource Persons:

- 1) Dr. A. Kala,
Assistant Professor,
Department of Physics,
Nandanam Arts College for Men, Chennai.
- 2) Dr. JahiraParveen,
Assistant Professor,
College of Management,
SRM Institute of Science and Technology, Chennai.
- 3) Mr. G. Achuthan,
Professor in SKY Yoga, Chennai.

Total number of Participants: 72

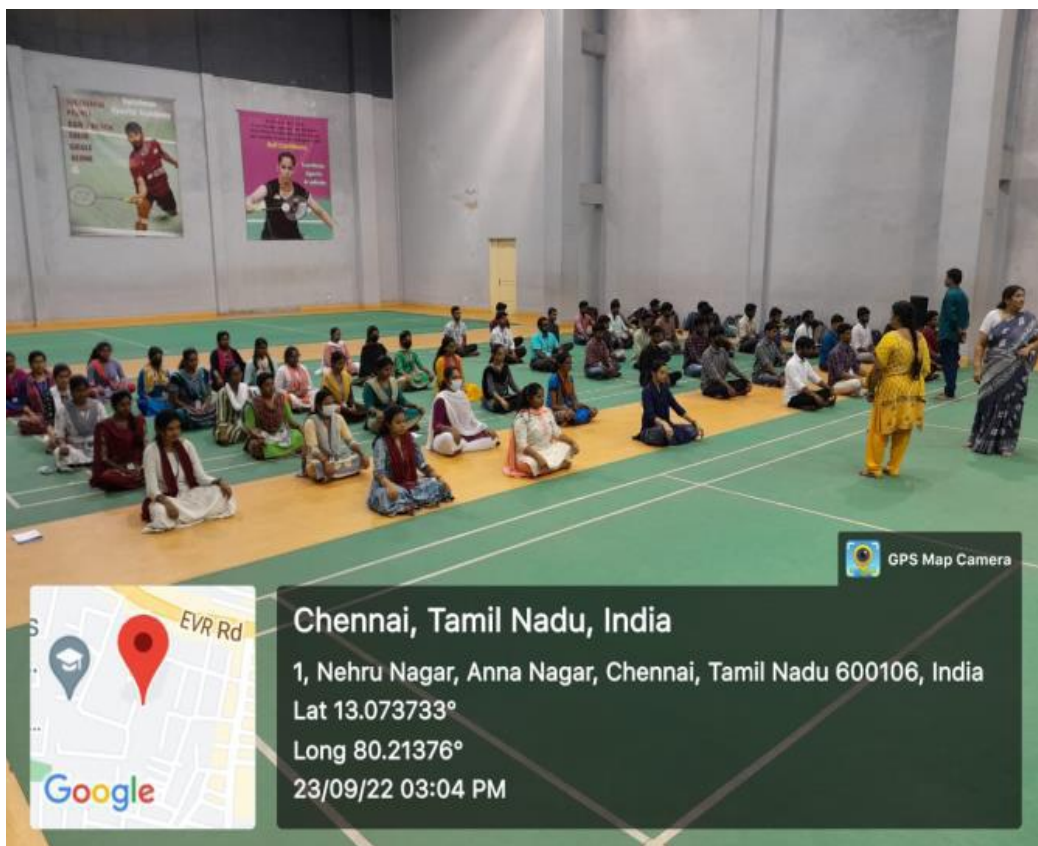
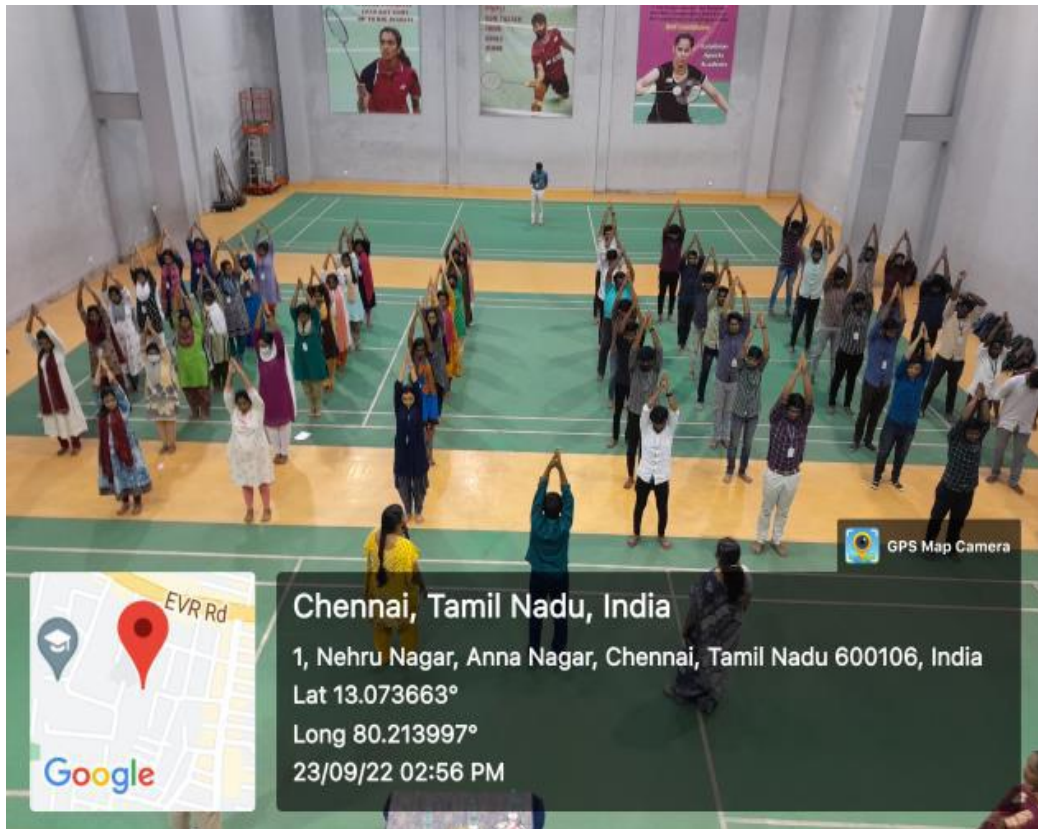
Detailed Report of the Program:

The objective of the program is to explore the methods of Yoga and its benefits to the students. Dr. A. Kala, Assistant Professor, Department of Physics, Nandanam Arts College for Men, Dr. JahiraParveen, Assistant Professor, College of Management, SRM Institute of Science and Technology and Mr. G. Achuthan, Professor in SKY Yoga, Chennai were the resource persons. They taught the method of Yoga for nearly two and half hours which would be helpful to increase the concentration and memory power of the students. Students have participated enthusiastically, and they learnt a lot from them. The students have been inspired by the resource persons and they wanted to continue with the yoga practice to enrich their lives in all aspects.

Outcome of the programme/event:

Based on the feedback collected from the students, the following outcomes are recognized:

- The program was interesting and highly useful.
- Enlightened students about the importance of yoga in their daily lives.
- Realize that yoga is the best practice.



5. Name of the program: Guest Lecture I -Green Energy for the Future

Date : 14.10.2022

Resource Person:

Dr. B. Muthuraaman,
Head and Assistant Professor,
Department of Energy, University of Madras, Chennai

Total number of Participants: 140

Detailed Report of the Program

Chief Guest Dr. B. Muthuraaman, Head and Assistant Professor, Department of Energy, University of Madras, Chennai, has delivered a lecture on the importance of Green energy in our daily life and their applications like solar energy, Wind energy, Hydro energy, Tidal energy. He also provided insight about the possibilities of research and development in Green energy. The recent works on Green energy and fabrication of polymer electrolytes based dye-sensitized solar cells prepared by their team were explained.

Outcome of the Programme/event:

- Students got information about importance of green energy or free energy which is easily obtained from the natural resources.
- Students acquired knowledge about various types of natural energy.
- Students understood the research possibilities in the area of green energy



6. Name of the program: Guest Lecture II-Building a career out of your academic experiences - Unravelling the Mystery behind connecting the Dots better

Date : 14.10.2022

Resource Person:

Dr. Humeshkar Bhaskar Nemala, M.Sc., M.Tech., M.S., Ph.D.,
Guest Lecturer,
Department of Nuclear Physics,
University of Madras,
Guindy campus, Chennai.

Total number of Participants: 119

Detailed Report of the Program:

The main objective of the program is to expose the students to the concepts of Building a career. The speaker Dr. Humeshkar Bhaskar Nemala gave a presentation about the life skills, time management, emotional intelligence, Resource management, people management, Risk management. He motivated students to do develop their skills.

Outcome of the programme/event:

Based on the feedback collected from the students, the following outcomes are recognized:

- The program was interesting and interactive.
- The program enlightened students about the importance of time, resource, risk management in their daily lives.



7. Name of the program: Student's Welfare Activity-World Students' Day

Date : 15/10/2022

Resource Person:

Dr. A. Stephen, Head i/c,
Department of Material Science and Professor,
Guindy Campus, Chennai.

Total number of Participants: 114

Detailed Report of the Program:

The PG Department of Physics has organized a Student Welfare Activity-World Students' Day in commemoration of Dr. A.P.J Abdul Kalam's Birth Anniversary. Our chief guest Dr. A.Stephen gave a special address on Development in Science and Research and our students gained knowledge about current ongoing research work through the program. The following competitions were held for the students in the PG Department of Physics. The winners were appreciated with memento and certificates

- i. Writing Competition- Topic : Inspiring books Written by Dr. A.P.J. Abdul Kalam
- ii. Oratorical Competition-Topic : Turning points of Dr. A.P.J. Abdul Kalam :
A Journey through challenges
- iii. Drawing Competition-Topic : Dreams of Dr. A.P.J. Abdul Kalam
- iv. War of Words (Debate)-Topic : Role of Dr. A.P.J. Abdul Kalam :
Scientist Vs President

Outcome of the programme/event:

- The sessions were highly informative and motivated the students to pursue their research.
- The students curiously asked a lot of questions and were seeking the information on how to write various competitive exams.
- The resource persons inspired the students to realize their dreams.



Chennai,TN,India

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600106, TN, India

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Note : Captured by GPS Map Camera



Chennai, Tamil Nadu, India

MCA Department, Mangali Nagar 1st St, SBI Officers Colony,
Arumbakkam, Chennai, Tamil Nadu 600106, India

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Long 80.21251°

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8. Name of the Program : Parents Teacher Meeting

Date : 25/11/2022

Total number of students participants: 35
Detailed Report of the Program

Parents Teacher Meeting was organized on 25.11.2022 from 2.00 p.m to 6.00 p.m for I PCA and I M.Sc. class students. We had a very good interaction with parents. We collected feedback form from parents. Most of the Parents were happy for their wards to be in this college. This meeting helps to understand better about student's activities at home and helps to take remedial measures in developing student's knowledge level.

Outcome of the programme/event:

- Parent-teacher meetings encourage students to work on themselves, improve their academic performance and widen their skills.



9. Name of the program : Alumni Meet

Date : 03.02.2023

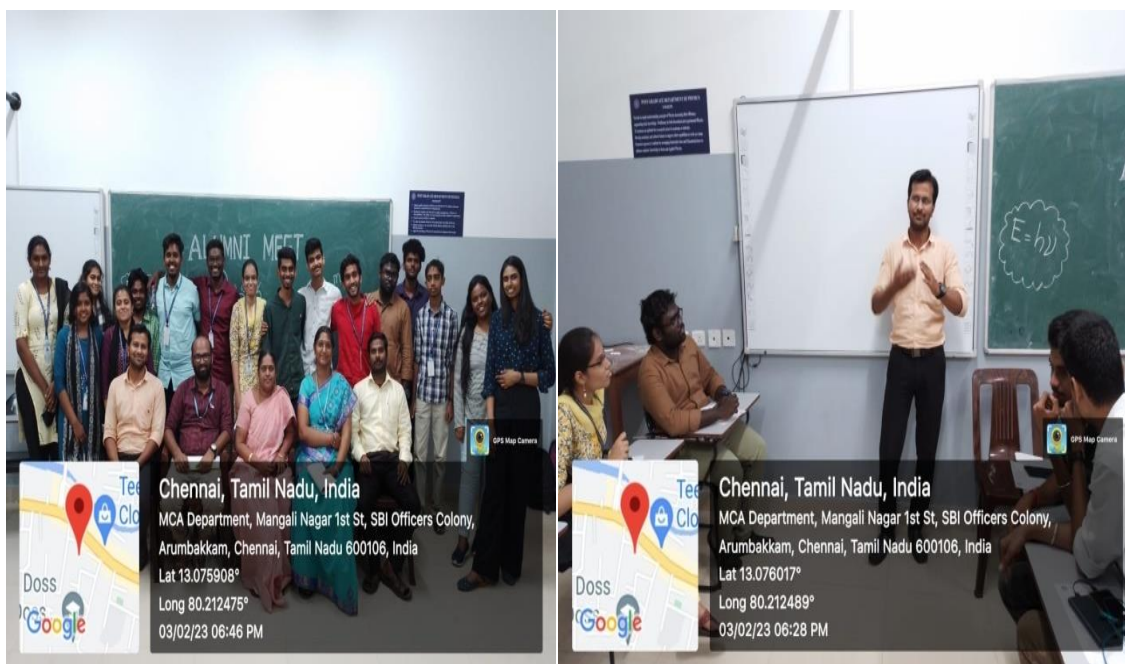
Total number of Participants: 35

Detailed Report of the Program

Post Graduate Department of Physics has organized “Alumni Meet” for UG and PG Students on 03.02.2023. Welcome Address was given by Dr. B. Sylaja, Head i/c, Assistant Professor, PG Department of Physics. Alumni Students had a very good interaction and discussed more about current opportunities. We conducted many activities to alumni to make the session memorable. Gifts were given to all Alumni as token of appreciation. Vote of Thanks was delivered by Dr. K. Annapoorani, Assistant Professor, PG Department of Physics.

Outcome of the programme/event:

- From the feedback obtained from the students, we found that this Alumni Meet provides platform to discuss about various career opportunities.



10. Name of the program : EVS Trip

Date : 09.02.23

Total number of students participants: 30

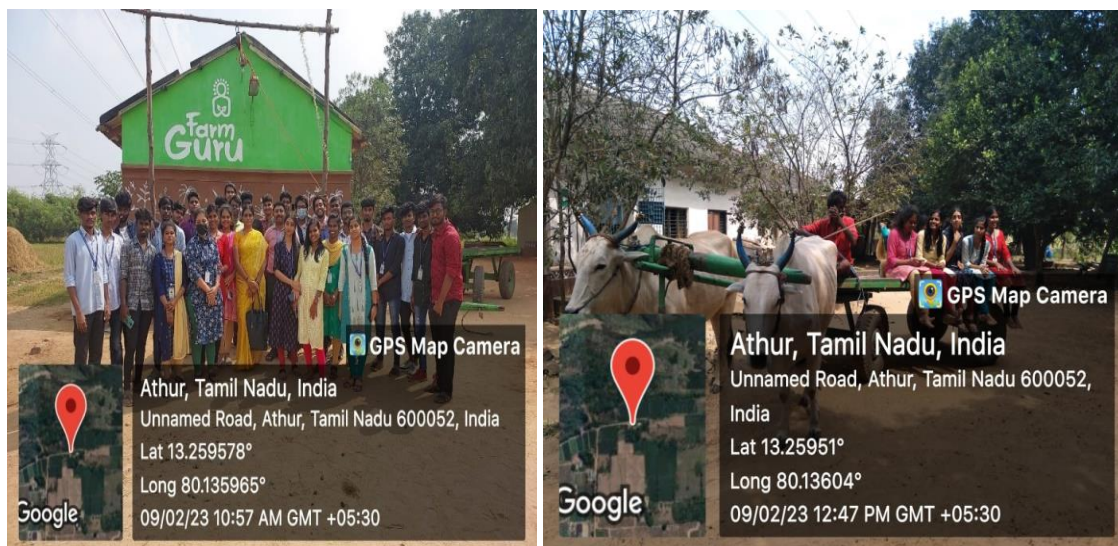
Detailed Report of the Program:

Two staff along with 30 II BSc PCA students started from college at 8.45 am and reported at Farm Guru at 10 am. Introduction about Farm Guru were given to students. Snacks & Tender Coconut/Juice were served to students. Students have done many activities like ploughing, sowing, transplanting, harvesting, threshing, pounding & winnowing. Session on organic farming & food security were taken. Students went for bullock cart and tractor ride. Organic lunch was provided to the students. Post-lunch students had fun at the chill water fall. Students were given a session on modern techniques of farming. Then staff and students returned back to college at 5 pm.

Outcome of the programme/event:

Following outcomes are recognized:

- The trip was interesting and interactive.
- Students got awareness about the importance of the food they eat.
- Students learnt about the economics of genetically modified crops.
- Students realised the economic and ecological importance of farm animals.



11. Name of the program: State Level Science Exhibition To Commemorate National Science Day “Atoms in the service of Mankind”

Date : 14/02/2023

Resource Persons:

- 1) Dr. N. Sivaraman,
Director,
MCMFCG,
IGCAR, Kalpakkam
- 2) Ms. Jalaja Madan Mohan,
Head, TCPAS,
IGCAR, Chennai.
- 3) Dr. R. Venkatesan,
Former Division Head,
RESO, IGCAR, Chennai.

Total number of Participants:

- School students : 426
- School teachers : 38
- Other college students : 23
- DGVC students (Other Department students): 111
- Total : 598

Detailed Report of the Program

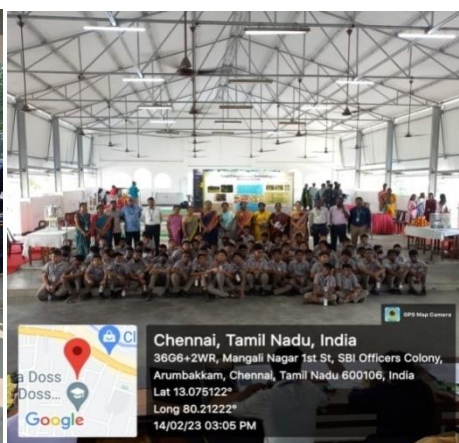
The Postgraduate Department of Physics, Dwaraka Doss Goverdhan Doss Vaishnav College (Shift II) organizes a State Level Science Exhibition to Commemorate National Science Day “Atoms in the service of Mankind” on February 14, 2023 Co-Sponsored by Tamil Nadu State Council For Science And Technology in association with Indira Gandhi Centre For Atomic Research, Department Of Atomic Energy, Kalpakkam. The following nuclear models are displayed in the exhibition.

1. 2-D LED working models of Fission reaction and DAE establishments in India using India Map.
2. 3-D LED models on PHWR 700 MWe
3. FBTR and FBTR fuel pins
4. KAMINI
5. Safety Grade Decay Heat Removal System (SGDHRS).
6. Bhabhatron
7. Gamma Chamber 5000
8. PFBR GRID Plate and standee display panels on irradiation technology used in
 - Agriculture and Food preservation
 - Water Technology and Sewage treatment.
 - Power plants of NPCIL in India through India Map, and about Indian research reactors
 - Industrial application and Heavy water Board.

Physics Working Models done by UG and PG Students of PG Department of Physics, DDGD Vaishnav College, Arumbakkam Chennai are displayed.

Outcome of the Programme/event:

- Students got information about the importance of Career Opportunities in Department of atomic energy.
- Students acquired knowledge about various types of nuclear reactors.
- Students understood about the research possibilities in Department of atomic energy.



12. Name of the program: Industrial Visit

Date : 18-02-2023

Total number of students participants: 30

Detailed Report of the Program:

With the specific objectives of exposing the students to the latest technology, machinery and good industrial practices, PG Department of Physics has organized an Industrial Visit for the I and II year M.Sc. students to **Kerala Electrical & Allied Engineering Private limited, Mamalla, Cochin**. Thirty-six PG students along with four faculties visited the industry. Really, that was a wonderful experience to the students. KEL is a Transformer manufacturing Industry. It is manufacturing Power distribution transformers and supplying them to all over India. In the last year itself, it has supplied 5000 Transformers to our state Tamil Nadu. The Engineers over there explained very well about the manufacturing process of the transformers. Students have been really excited to gain a complete practical knowledge about the manufacturing of the transformers.

Outcome of the programme/event:

- Students have been really excited to gain a complete practical knowledge about the manufacturing of the transformers.



13. Name of the program : National Level Workshop on DFT Calculation and Nanomaterial Characterization Techniques

Date : 24/2/2023

Resource Persons:

- 1) Dr. S.Gokul Raj,
Assistant professor,
CKNC college for men, chennai.
- 2) Dr.ArjunanPonnaiah,
NPDF,
Dept of energy, UNOM, Chennai.
- 3) Dr.V.Ragavendran,
Assistant professor,
SCSVMV, Kanchipuram.
- 4) Dr.N.Kanagathara ,
Prof of Physics,
Saveetha school of Engineering, Chennai.

Total number of Participants: 78

Detailed Report of the Program:

The main objective of this workshop is to provide a platform for researchers, educators and students to discuss the evolving developments in materials. This workshop elucidates the principles of material synthesis and characterization of Nanomaterials and also emphasis hands-on training in electric vehicles batteries and their analysis techniques using battery lab software. This workshop intends to introduce the basic concepts in Density Functional Theory and provides hands-on training in quantum chemical computation using DFT.

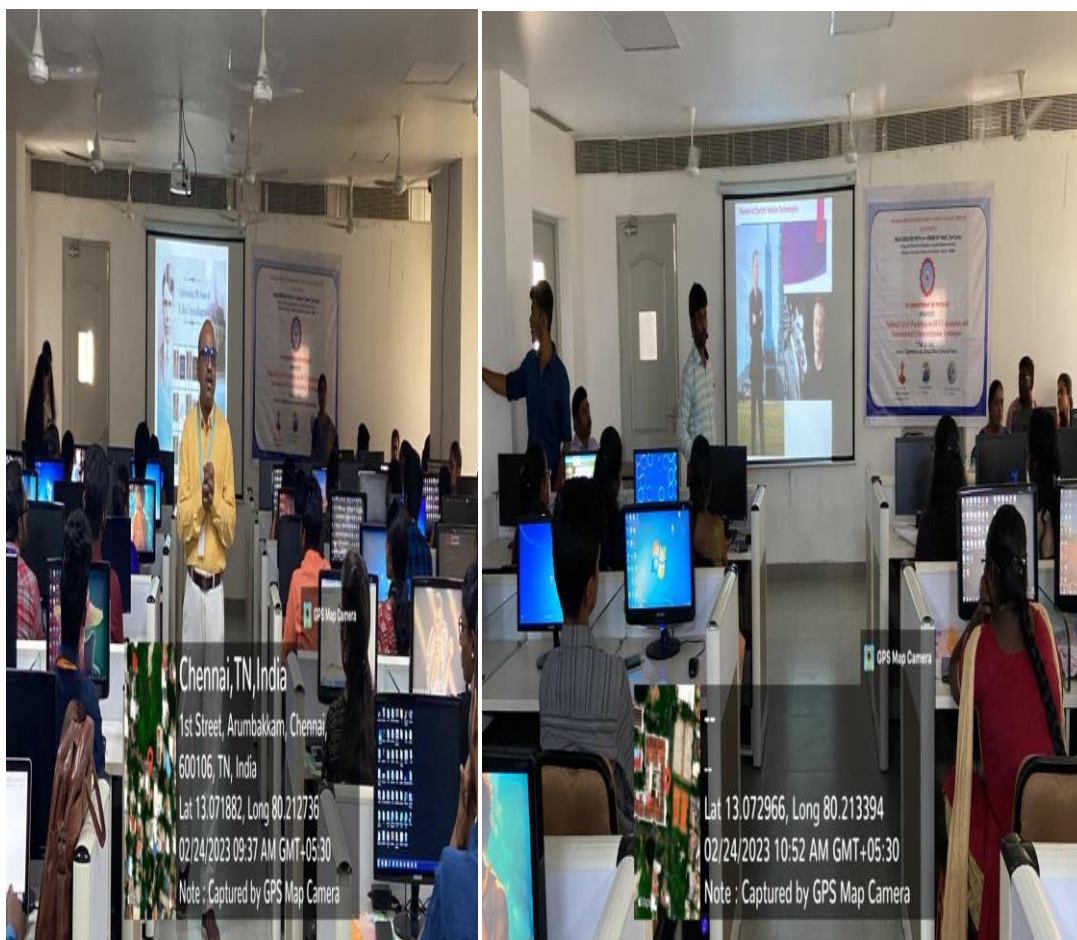
The following guests were invited and hands - on training was provided for the participants in the workshop.

- i. Dr. S. Gokul Raj : Material Synthesis and Characterization of Nanomaterials
- ii. Dr. Arjunan Ponnaiah : Electric Vehicle batteries and their analysis techniques using battery lab software
- iii. Dr. V. Ragavendran : An Introduction to Density Functional Theory and Hands on training in Quantum Chemical Computation using DFT
- iv. Dr. N. Kanagathara : Hands – on training in Quantum Chemical Computation using DFT

Outcome of the programme/event:

Based on the feedback collected from the participants, the following outcomes are recognized:

- The invited talk and Hands - on training sessions were highly informative and motivated the participants to do their research in theoretically and experimentally.
- The program was interesting and interactive.
- The participants curiously asked a lot of questions about computing the molecules of the given compound.
- The resource persons inspired the participants to realize their research work convert into effective scientific publication.



14. Name of the program : Radiate 2023- Intercollegiate Event

Date : 28/2/2023

Resource Persons:

- 1) Ariviyal Mudhu Munaivar, S. Gunasekaran Ph.D., D.Sc.
TANSA Awardee,
Dean R&D,
St. Peter's Institute of Higher Education and Research, Chennai.
- 2) Dr.S.Srinivasan,
Assistant professor
PG and Research Department of Physics
Presidency College, Chennai.

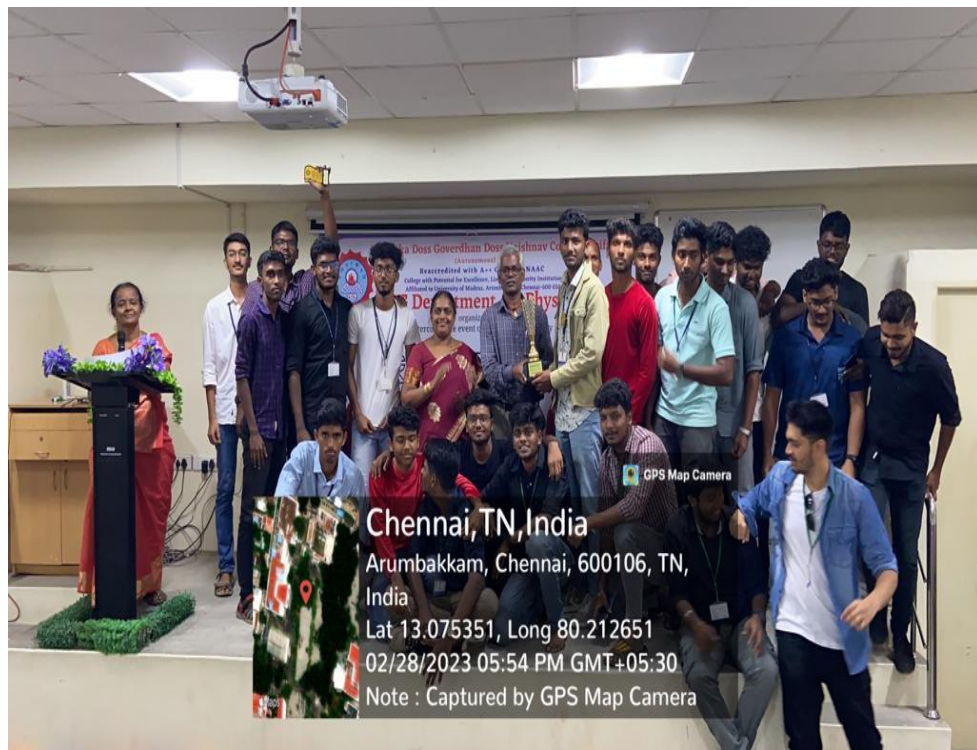
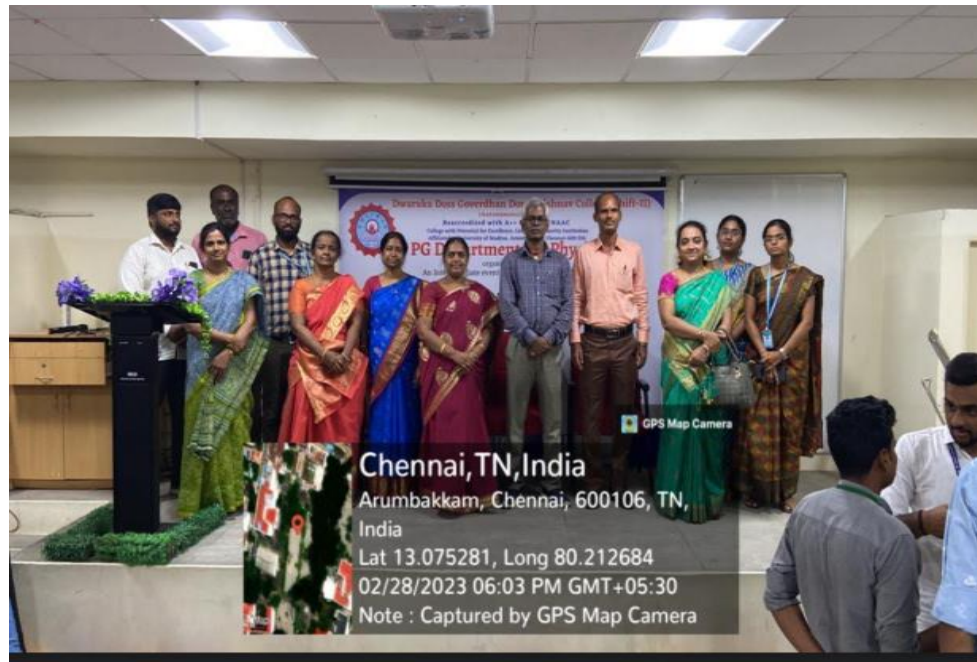
Total number of Participants: 223

Detailed Report of the Program:

RADIATE 2023, an intercollegiate event, was organized by Post Graduate Department of Physics on 28th February 2023. Ariviyal Mudhu Munaivar, S.Gunasekaran Ph.D., D.Sc. TANSA Awardee, Dean R&D, St. Peter's Institute of Higher Education and Research, was the Chief Guest. Our Principal Captain Dr. B. Santhosh Baboo sir felicitated the chief guest. The welcome address was delivered by Head i/c Dr. B. Sylaja. The inaugural address was delivered by Dr. S. Gunasekaran. Sir has inspired the students with his thought-provoking motivational Speech. Events like Rivalry of Witz, Razzmatazz, Potpourri, War of Words, Words of Intution and view through Concave were conducted. Dr. S. Srinivasan, Assistant professor from Presidency College presided over the Valedictory function. Prizes have been distributed to the winners of the events.

Outcome of the programme/event:

- Participating in intercollegiate events outside the college provides them with an opportunity to build networks and new friendships



15. Name of the program: Skill Enrichment on Electric Vehicle & its Battery technologies

Date : 15/03/2023

Resource Person:

Dr. Aravind Kumar Chandiran,
Associate professor,
Department of chemical Engineering,
IIT Madras

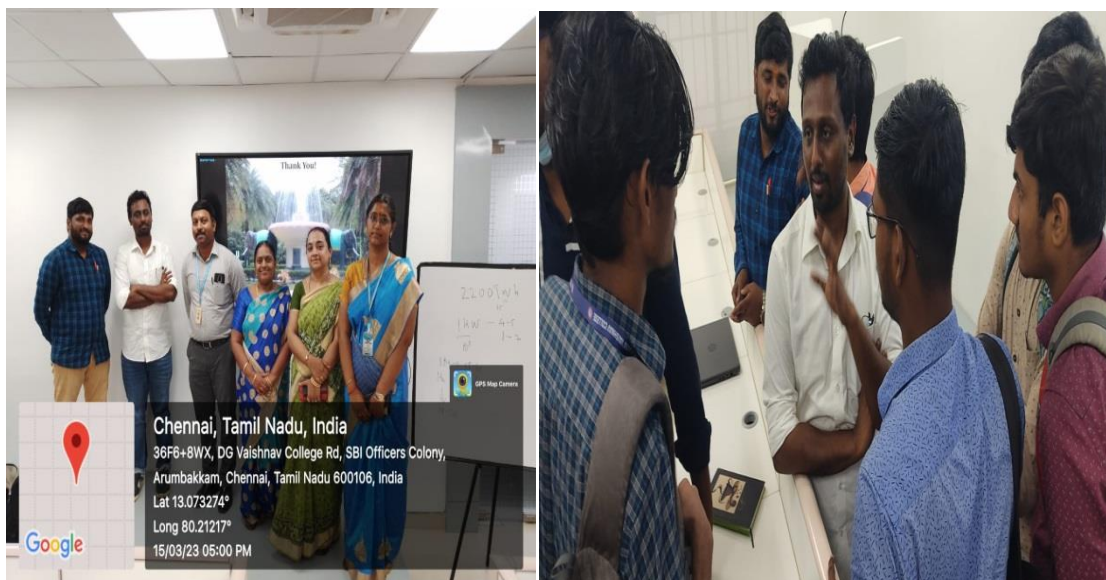
Total number of Participants: 97

Detailed Report of the Program:

The chief guest Dr. Aravind Kumar Chandiran, Associate professor, Department of chemical Engineering, IIT Madras delivered a talk about Skill Enrichment on Electric Vehicle & its Battery technologies for the benefit of student community. The students interacted with him about the present and future scenario of electric vehicle and the various technologies involved for the production of electric vehicle batteries.

Outcome of the programme/event:

- The programme kindles the interest in students as the topic is a real time scenario.
- The students were able to see the electric battery vehicle from scientific perspective.



PG DEPARTMENT OF PHYSICS

MOU-2022-2023

The Post Graduate Department of Physics has signed four MoU's for Value added course with

- Aptitude Buster
- Sindujaa Academy for Science and Maths
- Astrone Solutions and Services
- Ingu's Knowledge Academy Pvt. Ltd. ("SkillsDA") for value added course.

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<p style="text-align: center;">Aptitude Buster</p>	<p style="text-align: center;">AstroneSolutions and Services</p>
 <p>Chennai, Tamil Nadu, India NO.833, Gokul Bagh, Poonamallee High Rd, SBI Officers Colony, Arumbakkam, Chennai, Tamil Nadu 600106, India Lat 13.073693° Long 80.212139° 16/12/22 10:25 AM GMT +05:30</p>	 <p>Chennai, Tamil Nadu, India NO.833, Gokul Bagh, Poonamallee High Rd, SBI Officers Colony, Arumbakkam, Chennai, Tamil Nadu 600106, India Lat 13.073693° Long 80.212139° 16/12/22 10:25 AM GMT +05:30</p>
<p style="text-align: center;">Sindujaa academy for science and maths</p>	<p style="text-align: center;">Skillsda</p>

Value Added Courses-10

I B.Sc Physics with Computer Applications

1. Name of the Program : Advanced Excel with Data Visualization and Power Bi

Date : 17.02.2023 – 02.03.2023
Resource : Sindujaa Academy for Science and Maths
Venue : I PCA Classroom
Participants : I B.Sc PCA - 35 Students

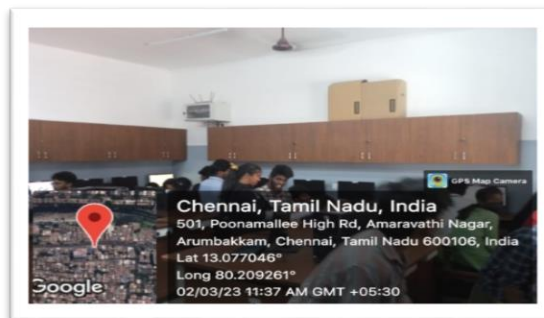
Detailed Report of the Program

The PG Department of Physics has organized a Value added course on “Advanced Excel With Data Visualization and Power Bi” for I PCA students. An MOU with **Sindujaa Academy** was signed and the course taught the essentials and basics of advanced Excel to visualize data. They were made to perform operations with Formulas and Functions, Create Charts and Objects, Insert and Format Objects. The course was also intended to learn about modeling, publishing and sharing with Power Bi. They were also taught on how Power Bi and excel functions together for effective data visualization.

Outcome of the Programme:

The following are the outcomes framed from the responses of the students participated in the Programme.

- Its motivated the students in learning further deeply about the Power Bi and its concepts.
- The Students has learned that how Power Bi relates with Excel Functions on Effective Data Visualization



I B.Sc Physics with Computer Applications

2. Name of the Program : App Development

Date	: 19.1.2023 to 2.2.2023
Resource	: Sindhujaa Academy for Science and Maths
Venue	: I PCA Classroom
Participants	: I B.Sc PCA - 35 Students

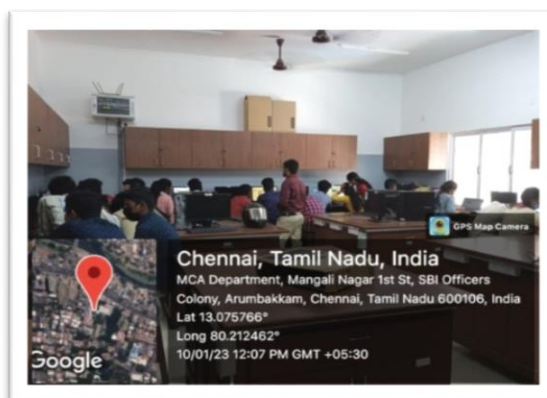
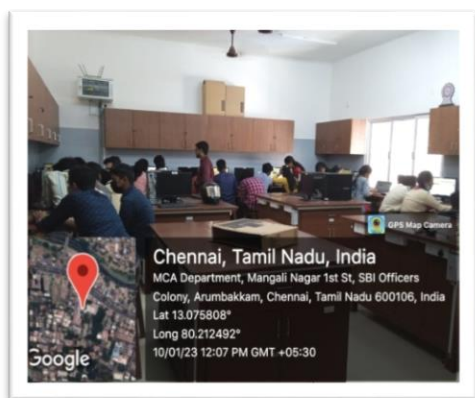
Detailed Report of the Program

The PG Department of Physics has organized a second Value added course on “App Development” for I PCA students. This course was also given by Sindhujaa Academy for 30 hours as a value added program. Introduction to User Interface, Layout Palette, Media Palette were given to students. The knowledge has been transferred through both theoretical and practical sessions which added the value to the session. Usage of Player, Video Player etc. of Media Palette and Designing of Media Player App was given as a mini project for students. During the course Timer, Time Picker & Switch, Variables, Delay & Clock and Designing of Age Calculator App were discussed.

Outcome of the Programme:

The following are the outcomes framed from the responses of the students participated in the Programme.

- As this programme involves both theoretical and practical session, it benefited the students in learning further deeply about the APP development.
- Instant guidance were provided to the students which made the event, very interactive.



II B.Sc Physics with Computer Application

3. Name of the Program: Machine learning essentials, Python for data science and design issues in ML

Date	: 19.01.2023 – 2.02.2023
Resource	: Astrone Solutions and Services
Venue	: II B.Sc PCA Classroom
Participants	: III B.Sc PCA - 37 Students

Detailed Report of the Program

The PG Department of Physics has organized a Value added course on “**Machine learning essentials, Python for data science and design issues in ML**” for II PCA students. A 30 hour course on Machine Learning Fundamentals -Learning from Data, Basics behind ML, Working with Data, Data Manipulation & Data Wrangling and students were able to distinguish between Statistical Learning vs Machine Learning.

Outcome of the Programme:

The following are the outcomes framed from the responses of the students participated in the Programme.

- Design issues in Machine Learning were also dealt in detail so that the students will be able to solve business problems with efficiency using the learnt Data Science skills.



II B.Sc Physics with Computer Applications

4. Name of the Program: App Development

Date	: 20.02.2023 – 4.03.2023
Resource	: Sindhujaa Academy for Science and Maths
Venue	: II B.Sc PCA Classroom
Participants	: III B.Sc PCA - 37 Students

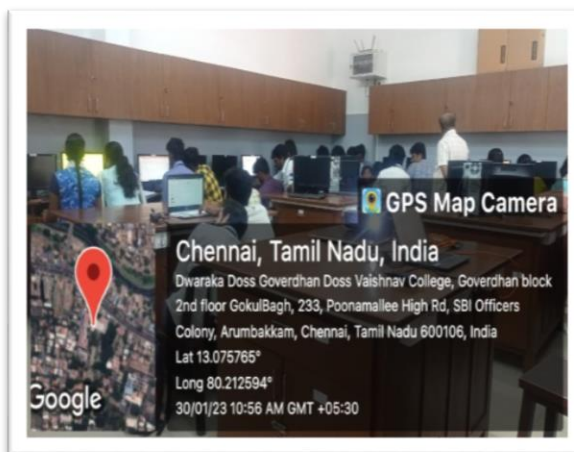
Detailed Report of the Program

The PG Department of Physics has organized a second Value added course on “App Development” for I PCA students. This course was also given by Sindhujaa Academy for 30 hours as a value added program. Introduction to User Interface, Layout Palette, Media Palette were given to students. Usage of Player, Video Player etc of Media Palette and Designing of Media Player App was given as a mini project for students. Detailed discussions on Timer, Time Picker & Switch, Variables, Delay & Clock and Designing of Age Calculator App was performed during the course.

Outcome of the Programme:

The following are the outcomes framed from the responses of the students participated in the Programme.

- As this programme involves both theoretical and practical session, its benefited the students in learning further deeply about the APP development.
- Instant guidance provided to the students which made the event, very interactive.



III B.Sc Physics with Computer Applications

5. Name of the Program: Python , Kali Linux , Cyber Security

Date	: 19.01.2023 – 31.01.2023
Resource	: SKILLSDA
Venue	: II M.Sc Classroom
Participants	: III B.Sc PCA - 20 Students

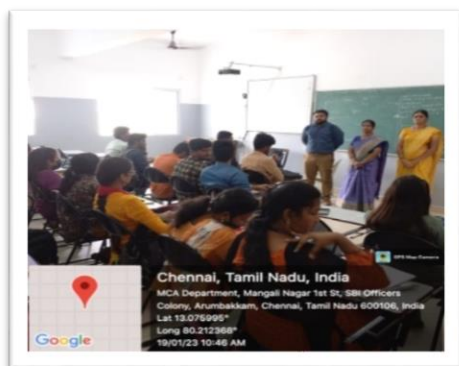
Detailed Report of the Program

The PG Department of Physics has organized a Value added course II on “**Python, Kali Linux and Cyber security**” for III PCA Physics students from 19th January 2023 to 31st January 2023. Ingu’s Knowledge Academy Pvt. Ltd. (SkillsDA) conducted this software training program. Two resource persons from Ingu’s Knowledge Academy taught this software and its applications. Mr. Joel explained the introduction of Python and its data types, control flow, loops condition and packages. Mr. Roshan taught Kali Linux, Cyber security, ethical hacking and defensive security.

Outcome of the Programme:

The following are the outcomes framed from the responses of the students participated in the Programme.

- Students were trained to do mini project and able to write program in both software which will be helpful to place in cyber security related jobs.
- At the end of this training program, online test have been conducted and students have been provided with the certificates based on their performance which motivated the students to great extent.



6. Name of the Program: Campus Recruitment Training Program

Date	: 14.12.2022 – 24.12.2022
Resource	: Aptitude Buster
Venue	: II M.Sc Classroom
Participants	: III B.Sc PCA - 20 Students

Detailed Report of the Program

The PG Department of Physics has organised a Campus Recruitment Training Programme on **Aptitude Buster** for III PCA students from 14th December 2022 to 24th December 2022 as a part of their Value Added Course. SKILLSDA Academy conducted this training programme.

Outcome of the Programme:

The following are the outcomes framed from the responses of the students participated in the Programme.

- Students were trained to solve Various Aptitude tests which helped them lot to appear for their Placement tests.
- On this training programme , mock tests have been conducted and students have been motivated by issuing certificates based on their performance.



I M.Sc Physics

7. Name of the program : Certified Ethical Hacking Program

Date	: 03 .01.2023 – 13.01.2023
Resource	: Astrone Solutions and Services
Venue	: I M.Sc Classroom
Participants	: I M.Sc Physics – 25 students

Detailed Report of the Program

The PG Department of Physics has organized a Value added courses on “**Certified Ethical Hacking Program**” for I M.Sc Physics students from 19th January 2023 to 31st January 2023. AICL conducted this Ethical Hacking Training Program. Resource persons from AICL conducted this training program and gave hands on training. Mr. Ashwin explained about the Introduction to Cyber world and Ethical Hacking, Session Hijacking, Social Engineering, Hacking Web servers Hacking Web Applications, SQL Injection and Hacking Wireless Networks.

Outcome of the Programme:

The following are the outcomes framed from the responses of the students participated in the Programme.

- Students were trained on SQL Injection to websites and able to apply and procure Global Certification for CEH – US Based, to use tools like: Burp Suite, Metasploit, Nmap, Wireshark.
- To Secure and manage websites and web pages with high level of confidentiality and Certified Ethical Hacker certification, this event will fortify the application knowledge of security officers, auditors, security professionals, site administrators, and anyone who is concerned about the integrity of the network infrastructure.



8. Name of the program : Sensor Based Automation Using Embedded Systems

Date : 19/12/2022 to 23/12/2022 (30 Hrs)

Resource : Floranix

Venue : I M.Sc Classroom

Participants : I M.Sc Physics – 25 students

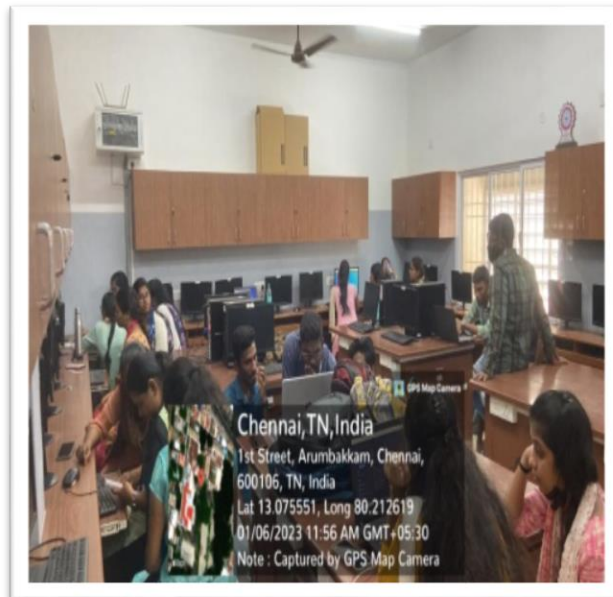
Detailed Report of the Program

This value added course is an approach to learn and know about “**Sensor Based Automation Using Embedded Systems**”. During value added course they got to explore and work on Electrical components, Sensors, IC’s, Electronics based mini projects, Microprocessor 8085 and interfaces, Embedding systems and ATMEGA 328 based Electronics.

Outcome of the Programme:

The following are the outcomes framed from the responses of the students participated in the Programme.

- Students gained hands on experience with Embedded C programming and gained knowledge of concept of IOT and applications for home automation and agriculture automation .



II M.Sc Physics

9. Name of the Program : Campus Recruitment Training Programme

Date	: 14.12.2022 – 24.12.2022
Resource	: Aptitude Buster
Venue	: II M.Sc Classroom
Participants	: II M.Sc - 26 Students

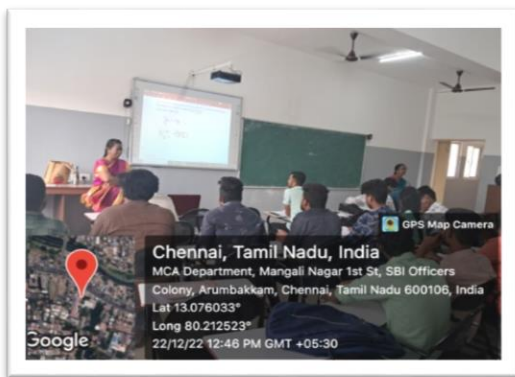
Detailed Report of the Program

The PG Department of Physics has organised a Campus Recruitment Training Programme on **Aptitude Buster** for II M.Sc. Physics from 14th December 2022 to 24th December 2022 as a part of their Value Added Course. SKILLSDA Academy conducted this training programme. Students were trained to solve Various Aptitude tests which helped them lot to appear for their Placement tests. At the end of this training programme , mock tests have been conducted and students have been provided with the certificates based on their performance

Outcome of the Programme:

The following are the outcomes framed from the responses of the students participated in the Programme.

- Students were trained to solve Various Aptitude tests which helped them lot to appear for their Placement tests.
- On this training programme, mock tests have been conducted and students have been motivated by issuing certificates based on their performance.
- 3 students got placed in Accenture and 3 students in Veecon with the help of this aptitude training course.



10. Name of the Program: Python , Kali Linux , Cyber Security

Date : 19.01.2023 – 31.01.2023
Resource : SKILLSDA
Venue : II M.Sc Classroom
Participants : II M.Sc - 26 Students

Detailed Report of the Program

The PG Department of Physics has organized a Value added course II on “Python, Kali Linux and Cyber security” for III PCA Physics students from 19th January 2023 to 31st January 2023. Ingu’s Knowledge Academy Pvt. Ltd. (SkillsDA) conducted this software training program. Two resource persons from Ingu’s Knowledge Academy taught this software and its applications. Mr.Joel explained the introduction of Python and its data types, control flow, loops condition and packages. Mr. Roshan taught Kali Linux, Cyber security, ethical hacking and defensive security.

Outcome of the Programme:

The following are the outcomes framed from the responses of the students participated in the Programme.

- Students were trained to do mini project and able to write program in both software which will be helpful to place in cyber security related jobs.
- At the end of this training program, online test have been conducted and students have been provided with the certificates based on their performance which motivated the students to great extent.
- 3 students got placed in Accenture with the help of python programming knowledge.

