

# Report of Physics Department

(2019-20)



Mehr Chand Mahajan  
DAV College for Women

Sector-36, Chandigarh

[www.mcmdavcwchd.in](http://www.mcmdavcwchd.in)

**Department Name:** Physics Department

**Session:** 2019-20

**Names of Courses offered:**

1. B.Sc. (Non Medical and Vocational)- Three year Degree Course (Semester system).
2. B.Sc. (Hons.) Physics.

**FACULTY DETAILS:**

**1. Publications:**

Permanent Faculty/ Contractual faculty	Title of Paper	Title of the Journal with ISSN	Month/ Year
<b>Dr. , Renu Bala (Permanent)</b>	Exact ground-state properties of one-dimensional electron gas at high density	Phys. Rev. B <b>101</b> , 075130 (2020).	2020
<b>Ms. Aakriti Bagai (Contractual)</b>	Minimal texture of quark mass matrices and precision CKM measurements	Progress in theoretical and experimental Physics(2020) volume:2020, ISSN: 2050-3911	2020

**2. Activities Organized by Physics Department:**

➤ **Lectures:**

- Department of Physics organized an International Webinar on Applications of Multi-Duality Imaging In Nuclear Medicine on 10<sup>th</sup> June, 2020. In this context, Department of physics invited Dr. Nand K. Relan, Clinical Director of Nuclear Medicine and Physics Associate Professor of Clinical Radiology at Health Sciences & Bio-medical Engineering of New York, USA to deliver an international webinar about the importance of Nuclear medicine in diagnosing and treating many diseases like cancer.
- An interactive talk on Nanoscience and Nanotechnology by invited speaker “Prof. H.N. Ghosh, Director Institute of Nanoscience and Technology, Mohali” was organized by Physics Department.

➤ **Celebrations of various days:**

- **World Environment Day:** MCM ECO-CLUB in collaboration with Physics Department under the aegis of Swachhta Committee (sciences) celebrated World Environment Day

on 5<sup>th</sup> June 2020. On this occasion Inter-college competitions on Bookmark making and T-shirt painting with an Environmental message were organized.

- **Celebration of International day for Biological diversity:** Swachhta Committee (Sciences) in collaboration with Physics Department celebrated International day for Biological Diversity on 22<sup>nd</sup> May, 2020. A Caption contest competition was organized for students on this occasion.
- **Celebration of Akshay Urja Diwas:** Under the aegis of Chandigarh Renewable Energy and Science & Technology Promotion Society (CREST), Chandigarh Administration (UT), the Renewable Energy Committee in collaboration with Physics Department celebrated Akshay Urja Diwas with great enthusiasm by organizing popular lectures and poster making competition on the theme- 'Impact of Akshay Urja in India'
- **Celebration of World Oceans Day:** Department of Physics and MCM Eco-Club celebrated World Oceans Day on 8<sup>th</sup> June, 2020. On this occasion competitions like Video and write up contest on the topic- “Satellite Oceanography”, Power point presentation contest on the topic- “Innovation for a Sustainable Ocean”, Report writing contest on the topic- “Basic Technologies to Study the Oceans” were organized for students through online mode.
  
- **Competitions organized by Department:**
- **Essay Writing Competition:** To create awareness on challenges and issues related to pandemic outbreaks of covid-19, Swachhta Committee (Sciences) in collaboration with Physics Department organized a creative learning essay writing competition on the topic ‘Impact of Covid-19 Pandemic on Wild Life in India’ for the students of science and arts streams.
- **Power Point Presentation Competition:** Swachhta Committee (Sciences) in collaboration with Physics Department organized Power Point Presentation on Science, Technology and Innovation for a Clean, Green and Healthy Nation on 22<sup>nd</sup> May, 2020.
- **Fests:**
- ✓ **Science Fest-2020:** Department organized a fest themed “Emerging Trends in Science and Technology” sponsored by Department of Science and Technology and Renewable Energy, Chandigarh Administration.
  
- ✓ **Physics Fest. Eureka -2019:** Physics Department, organized a fest “Eureka-2019” where invited speaker Prof. Manjit Kaur, Professor, Physics Department, Panjab University delivered a motivational lecture on “Nobel dreams of mysteries of universe”. Another speaker Dr. J.K Goswamy, Professor at UIET, P.U. Chandigarh gave a glance to the era of nanotechnology.

- ✓ **Workshop on LED bulb Assembling and Energy Conservation:** Physics Department organized a two day workshop for teaching, non teaching staff and non med. students about assembling 9 W and 12 W LED bulbs under the theme of energy conservation.
- ✓ **Book Club:** Physics Department of MCM DAV College for women has formed a 'BOOK CLUB', which is student's resource for all the course books that the students may require for their academic pursuits.
- ✓ **Visits:**
  - ✓ Educational trip To Pushpa Gujral Science City, Kapurthala
  - ✓ Visit to National Agri-Food Biotechnology Institute (NABI), Mohali
  - ✓ Visit to Venus Remedies Limited at Baddi.
  - ✓ Visit to Panjab Engineering College.

## STUDENTS' DETAILS

### 1. Achievements:

Name (Roll No. and class of the Student)	Name of the Award/Project/Position	Name of the event and the organizing Agency/University	Month/Year
Gurnoor Deepanshi	1 <sup>st</sup> in Poster Making	Event on Akshay Urja Diwas organized by Mehr Chand Mahajan College for Women, Chandigarh	20.08.2019
Aayushi(Roll No. 900) (B.Sc.II NM )  Devorah(Roll No. 821 ) (B.Sc II NM. )	2 <sup>nd</sup> in Poster Making	Event on Akshay Urja Diwas organized by Mehr Chand Mahajan College for Women, Chandigarh	20.08.2019
Vibhuti Shreya	3 <sup>rd</sup> in Poster Making	Event on Akshay Urja Diwas organized by Mehr Chand Mahajan College for Women, Chandigarh	20.08.2019
Jasleen Namisha	Consolation Prize	Event on Akshay Urja Diwas organized by Mehr Chand Mahajan College for Women, Chandigarh	20.08.2019

Palak (Roll No. 1351) (B.Sc. I NM)	1 <sup>st</sup> Prize in Collage making with Scientific Photography	Eureka Fest 2020, oraganised by by Mehr Chand Mahajan College for Women, Chandigarh	31.09.2019
Pinkey Chaudhary (Roll No. 1303) (B.Sc. I NM)	2 <sup>nd</sup> Prize in Collage making with Scientific Photography		
Tania Singla (Roll No.1367) (B.Sc. I NM)	3 <sup>rd</sup> Prize in Collage making with Scientific Photography		
Vibhu Bharti (Roll No. 1402) (B.Sc. I NM)	1 <sup>st</sup> Prize in Poster Making	Eureka Fest 2020, oraganised by by Mehr Chand Mahajan College for Women, Chandigarh	31.09.2019
Deepanshi (Roll No. 1421) (B.Sc. I NM)	2 <sup>nd</sup> Prize in Poster Making		

Shrishti (Roll No. 1001) (B.Sc. I VOC)	1 <sup>st</sup> Prize in Power Point Presentation	Eureka Fest 2020, oraganised by by Mehr Chand Mahajan College for Women, Chandigarh	31.09.2019
Muskaan (Roll No. 1032) (B.Sc. I VOC)	2 <sup>nd</sup> Prize in Power Point Presentation		
Raymanjot (Roll No. 1033) (B.Sc. I VOC)	3 <sup>rd</sup> Prize in Power Point Presentation		

<p>Kirti Devi (Roll No. 874) (B.Sc. II NM)</p> <p>Namisha (Roll No. 826) (B.Sc. II NM)</p> <p>Khushi Girdhar (Roll No. 909) (B.Sc. II NM)</p> <p>Sanya Pahwa (Roll No. 899) (B.Sc. II NM)</p>	<p>1<sup>st</sup> Prize in Research Paper</p> <p>2<sup>nd</sup> Prize in Research Paper</p> <p>3<sup>rd</sup> Prize in Research Paper</p> <p>Consolation Prize</p>	<p>Eureka Fest 2020, organized by by Mehr Chand Mahajan College for Women, Chandigarh</p>	<p>31.09.2019</p>
<p>Muskaan (Roll no. 535)</p> <p>Rinki (roll No. 542)</p> <p>Nitika(Roll No. 514) (B.Sc. II NM)</p>	<p>1<sup>st</sup> Prize in Essay Writing</p> <p>2<sup>nd</sup> Prize in Essay Writing</p> <p>3<sup>rd</sup> Prize in Essay Writing</p>	<p>Eureka Fest 2020, organized by by Mehr Chand Mahajan College for Women, Chandigarh</p>	<p>31.09.2019</p>
<p>Shreya Shrishti Prarthna Deborah Astha (B.Sc. II) Radhika Aditi Priyanka Sakshi Mittal (B.Sc. II)</p>	<p>1<sup>st</sup> Prize in making Hydraulic Robotic Arm competition.</p> <p>2<sup>nd</sup> Prize in making USB Fan</p>	<p>Science Fest 2020 organized by Department of Science and Technology and Renewable energy Committee, Mehr Chand Mahajan College for Women, Chandigarh</p>	<p>17.02.2020</p>

Vritika Kirti	1 <sup>st</sup> Prize in On the spot working model making	Inter College Competition on 'Experiencing the marvelous World of Science and Mathematics' at CGC LANDRAN	25.02.2020
Janvee(Roll No. 1345) ( B.Sc I) Aanchal Garg( Roll No.1333) (B.Sc I) Palak(Roll No.1351) ( B.Sc I)	3 <sup>rd</sup> Prize in Rangoli Competition	Inter College Event 'Gravitino 2020' organised by DAV College, Chandigarh	26.02.2020 27.02.2020
Diksha(Roll No. 803)(B.Sc II) Shreya Sharma(Roll No. 903)(B.Sc II)	Consolation Prize in Rangoli Competition	Inter College Event 'Gravitino 2020' organised by DAV College, Chandigarh	26.02.2020 27.02.2020
Tania Singla (Roll No.1367) (B.Sc I) Sheena (Roll No. 1312) (B.Sc I) Umang (Roll No.1309) (B.Sc I)	3 <sup>rd</sup> Prize in Poster Making	Inter College Event 'Gravitino 2020' organised by DAV College, Chandigarh	26.02.2020 27.02.2020
Vijayta Kumari (Roll No.301) (B.Sc III) Mahima Kaushik (Roll No. 367) (B.Sc III) Tanya Singla (Roll No. 845) (B.Sc III)	3 <sup>rd</sup> Prize in Quiz	Inter College Event 'Gravitino 2020' organized by DAV College, Chandigarh	26.02.2020 27.02.2020