

**Aurora's Degree & PG College**  
**Chikkadpally, Hyderabad -500020**  
**Short Report**



**On**  
**National E- Seminar on Role of Science and Technology for Future India - Challenges and Opportunities**

<b>NAME OF THE EVENT</b>	National E- Seminar on Role of Science and Technology for Future India - Challenges and Opportunities
<b>TYPE OF EVENT</b>	National level
<b>FACULTY INCHARGE</b>	Dr. L. Radhika Rani, G. Rahul
<b>DEPARTMENT</b>	Physical science and Life sciences dept.
<b>DATE</b>	28 <sup>th</sup> Feb 2022
<b>VENUE</b>	Online-Microsoft Teams
<b>TARGET AUDIENCE</b>	Faculty and students

**OBJECTIVE:**

To provide a platform for students and faculty to exchange various scientific ideas and results.

**BRIEF ABOUT THE EVENT :**

Aurora's Degree & PG College is known for establishing unique traditions in every aspect of its functioning with a mission to blend the strong cultural fundamentals of the Indian Heritage with advanced modern learning tools, thus providing a direction to education. The college hosts various National level and State level conferences, symposia, workshops, technical and non-technical events beyond curriculum to bring students from different backgrounds to a common platform to explore, discover and discuss the hidden potential and talent.

On the occasion of National Science Day, Aurora's Degree & PG College intends to organize this seminar with the objective to create a platform for students and experts to express, interact and debate on various concepts of Science and Technology for the development of society and Nation as well.

**OUTCOME:**

26 presentations were presented by students and faculty from institutions across the nation. Appreciation certificates were given to students who have performed very well.

**Photographs:**





**Aurora's Degree & PG College**  
**Chikkadpally, Hyderabad -500020**  
**A Detailed Report**



**On**  
**Outreach Program**  
**On the occasion of "Sir CV Raman Birthday Day"**

**EVENT / ACTIVITY DETAILED REPORT**

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28th February 2022

**About the College**

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**About the Seminar**

Science and technology have become the cornerstones for development of any nation in 21st century. The economics of our nation has been significantly changed due to development and applications of science and technology. Despite the importance given, there exists a reasonable deficit in the pace of Scientific research between our nation and world. A proper motivation is of

utmost importance to sharpen the Young minds and to encourage the students to make contributions in their respective fields. On the occasion of National Science Day, Aurora's Degree & PG College intends to organize this seminar with the objective to create a platform for students and experts to express, interact and debate on various concepts of Science and Technology for the development of society and Nation as well.

## **Areas**

The seminar invited lectures and oral/poster presentation in various disciplines as given below:

- Clinical Biochemistry
- Enzyme Research
- Pharmaceutical Biotechnology
- Genetics disorders
- Molecular Biology of Cancer
- Computational Biology
- Bioinformatics
- Anti-microbial agents
- Analytical chemistry
- Green synthesis of Organic compounds
- Nanotechnology
- Algebra
- Geometry
- Discrete Mathematics
- Data Analytics and Deep Learning
- Artificial Intelligence
- Digital Signal Processing
- Operational Research
- IOT
- Big Data
- Data Mining
- Molecular Dynamics
- Embedded Systems

- Instrumentation
- Material Science
- Astrophysics
- Polymer Physics
- Thin Film Technology
- Molecular Physics
- Quantum Computing

Apart from the above, any other area of research and innovations in science, technology will receive attention

**Eligibility:** M.Sc. Physical Science and Life science students.

### **Call for Abstracts**

Abstracts were invited for both oral and e-poster presentation (about 250 words). Abstracts were allowed to be uploaded in the registration form before 24th February 2022. Acceptance of Abstracts for presentation was to be communicated by 25th February 2022 through email and SMS to their phone no.

### **Seminar proceedings: 28-2-2022**

The day started as per the schedule at 10AM. The organizing secretary of the conference Dr. Ravi Kiran, Head, Department of Biochemistry, Aurora Degree & PG College gave an introductory note about the college describing activities at the college and about the conference. He appreciated the participants for their active involvement in communicating papers for the conference. He gave a warm welcome to the speaker, Dr. Naga Maruthi Kumari, Faculty, Department of Mathematics, Higher College of Technology, Muscat, Sultanate of Oman. She gave a talk on importance of science and ethics necessary to keep the field in proper direction. After the talk Dr. Ravi Kiran introduced the chairperson Dr. B.S. Ravikumar, Head Department of Botany and Environmental science AVK College for Women, Hassan. The participants were called according to the schedule for the talks

### Program schedule

S.No	Name of the Participants	Name of the Institution	Topic	Time
1	B.V.S. Yaraswini & K. Bhanu Sree	Aurora's Degree & PG College	Ferroptosis as a novel form of regulated cell death: Implications on cancer treatment	10:00AM-10:10AM
2	Nida Fatima & Kamati Shivani	Aurora's Degree & PG College	Immunotherapy for colorectal cancer	10:10AM-10:20AM
3	T. Pranathi Reddy & R. Sudha Gayathri	Aurora's Degree & PG College	Antimicrobial Peptides – Prospectives and Projections	10:20AM-10:30AM
4	Adeeba Azeem & K. Nagamounika	Aurora's Degree & PG College	Role of biochemical markers in monitoring the COVID -19 patients	10:30AM-10:40AM
5	D. Sandeep Kumar & A. Sai Prasanna Kumar Reddy	Aurora's Degree & PG College	Health Informatics	10:40AM-10:50AM
6	R. Meghana & D. Swetha	Aurora's Degree & PG College	An insight into Gene Ontology Enrichment Analysis	10:50AM-11:00AM
7	Kota Vamshi & Konda Ravindra Prasad	Aurora degree and PG college	Artificial intelligence	11:30AM-11:40AM
8	Pasham Bhupal Reddy & Kalali Rajashekar Goud	Aurora degree and PG college	Nano Technology	11:40AM-11:50AM
9	Kavali Balraj	Aurora degree and PG college	IoT	11:50AM-12:00PM
10	ODELA PRIYANKA & Tammanaboina Navya	Aurora's Degree & PG college	Predicting Wildfires	12:00PM-12:10PM
11	Kadam Chandrika Bai	Aurora Degree & Pg college	Smart Phone usage among	12:10PM-12:20PM

			college going students	
12	Angothkalpana&MarikantiSanthosha	Aurora's Degree & PG college	Mathematics : A key driver in solving economic challenges	12:20PM-12:30PM
13	ParnandiSushmitha, Durgam.Rajeshwari&EppakayalaPrasannalaxmi	Aurora's Degree & PG college	Graph theory and its applications	12:30 PM-12:40 PM
14	R. Sravanthi& D. Madhurya	Aurora's Degree & PG College	Next Generation Sequencing to Diagnose Genetic Disorders	1:00PM-1:10PM
15	N. Teja &Anandamma	Aurora's Degree & PG College	Innovative strategies for the drug delivery in cancer therapy by using Glycans as targets	1:10PM-1:20PM
16	P. Sai Soumya & K. Sowjanya	Aurora's Degree & PG College	Therapeutic peptides : Current applications and future research	1:20PM-1:30PM
17	Y. Anusha & M. Sravani	Aurora's Degree & PG College	DOSE – Hack and be Happy	1:30PM-1:40PM
18	M. Susmitha& G. Shravya	Aurora's Degree & PG College	Role of Molecular Biology in Cancer treatment	1:40PM-1:50PM
19	Afreen Khatoon & G. Anna Angel	Aurora's Degree & PG College	Sudden Evolutionary changes in Flowers	1:50PM-2:00PM
20	K. Balaji &G.Nagaraju	Aurora's Degree & PG College	A Comparative Analysis for the Solution of Transportation Problem by Various Methods	2:00PM-2:10PM



21	KadaveruSravani. Ajumera Anusha ArkaariDurgarani	Aurora's Degree & PG College	Optimal solution of an assignment problem by Zero suffix method.	2:10PM-2:20PM
22	Talla Sowmya sri&Merugu Sathish kumar	Aurora's Degree & PG College	Role of Mathematics in Future Technology: A perspective from Cryptography	2:20PM-2:30PM
23	A. Srinivas Goud, GudipallySahith Reddy & K Akhil	Aurora's Degree & PG College	Contemporary methods in solving Ordinary Differential Equations	2:30PM-2:40PM
24	B.Yankanna&NallaboluShivakanth Reddy	Aurora's Degree & PG College	Importance of Probability in real life	2:40PM-2:50PM
25	Mankala Vaishnavi	Aurora's Degree & PG College	Food Grains Production - Paddy in Telangana	3:00 PM- 3:10 PM
26	SalveruManasa	Aurora degree and PG college	Predicting Forest Fire	3:20 PM - 3:30 PM

### Presentation Sessions

There were 26 oral presentations, and each presenter was given 10 minutes time including the question answer sessions. The presenters had put lot of effort. The papers were on various areas in fields ranging from biochemical hormones to artificial intelligence. There were four best presentations selected among the oral presentations by the chairperson. They were given certificate of excellence by Principal Dr. Viswanadham Bulusu in person. The presentations went on smoothly without any technical difficulty. The participants gave positive feedback and appreciated the organizers for giving a platform to share their research work. The participants were able to gain knowledge by networking with different presenters and they were exposed to various fields apart from their field of interest.

The purpose of organizing this E-Seminari.e., celebrating national science day by active discussion, was completely achieved. It gave the organizers an immense satisfaction that an activity which contributed for a wholesome learning experience was conducted.

We thank one and all for making the E-Seminar a grand Success.

**Chief Patron**

Dr. Ramesh Nimmatoori, Secretary, Aurora Group of Institutions

**Patron**

Dr. Viswanadham Bulusu, Principal, Aurora's Degree & PG College

**Organizing Secretary**

Dr. Ravi Kiran S, Department of Biochemistry

**Joint Organizing Secretaries**

Dr. Radhika Rani L, Department of Electronics

Dr. Meera Joshi, Department of Mathematics

G. Rahul, Department of Biotechnology

**Conveners**

Mr. G. Sai Krishna, Vice-Principal

Mr. Hari Prasad Rao, Vice Principal

**Advisory Board**

Dr. B. S. Ravi Kumar, AVK College for Women, Hassan, Karnataka

Dr. T. Parameshwar Naik, Sahyadri Science College, Shivamogga

Dr. K. Shailaja, Osmania University, Hyderabad

Dr. N. D. Rekha, JSS College of Arts, Science and Commerce, Mysuru

Prof. S. N. Hasan, Maulana Azad National Urdu University, Hyderabad

Prof. N. Kishan, Osmania University, Hyderabad

**Photos**







**National E- Seminar on  
"Role of Science and Technology for Future  
India - Challenges and Opportunities "  
28th February 2022**



Speaker:  
**Dr. Naga Maruthi Kumari**, Faculty  
Department of Mathematics, Higher  
College of Technology, Muscat,  
Sultanate of Oman.

Chair person:  
**Dr. B. S. Ravi Kumar**  
Head, Department of Botany and  
Environmental Sciences, AVK College  
for Women, Hassan, Karnataka

