

KVRSS SMART (Science Meets ART) Awardees

1. Winner

Lithika N

Class X

D A V Public School, Velachery

Tamil Nadu

Topic: "Travel of Light Rays"

2. Runner Up I

Riya Solanki

Class X

K B D A V Senior Secondary Public School

Chandigarh, India

Topic: "Ozone for Life"

3. Runner Up II

Rohit Kumar

Class X

Army Public School, R K Puram

Secunderabad, Telangana

Topic: "DNA the Thread of Life"

4. Consolation

Sudhiksha S

Class IX

Mahatma Montessori Matriculation Higher Secondary School

Madurai, Tamil Nadu

Topic: "Art and Science have their Meeting Point in Methods"

5. Consolation

S Ashi Maduja

Class X

Bharatiya Vidya Bhavan's Sri Venkateshwara Vidyalaya

Tirupati, Andhra Pradesh

Topic: "With Gravity everything seems to Fall in Place"

School Talent Awardees

1. D Hari

Class IX

Zilla Parishad High School, Billalavalsa
Vizianagaram District, Andhra Pradesh
Supervisor: Ms. Ch Varalakshmi

Project Title: **"Agriculture Alarm"**

The Work: Developed a farm alarm with low cost for simple and efficient protection of crops from animals without causing harm to them

2. Meghana & Varsha

Class VI

Zilla Parishad High School, Gangavaram
Anantapur District, Andhra Pradesh
Supervisor: Ms. U Shailaja

Project Title: **"Grain Coated Maize Cups"**

The Work: Developed drinking cups using banana and Maize waste materials which have anti-viral, antibacterial, antifungal properties

3. P Devi Yasasree

Class X

AANM & VVRSR (EM) High School, Gudlavalleru
Krishna District, Andhra Pradesh
Supervisor: Mr. G M Satya Babu

Project Title: **"Use of Cockle Shell as Partial Coarse and Fine Aggregate Replacement in Concrete"**

The Work: Worked on replacement of partial coarse and fine aggregates in concrete mixture with cockle shell waste available in fisheries industry

4. T Abhishek

Class X

MJPAPBC WRS, Adavivaram,
Visakhapatnam District, Andhra Pradesh
Supervisor : Mr. M Sathibabu

Project Title: **"Eco-Friendly Multi-Purpose Farming Vehicle"**

The Work: Constructed a Vehicle that can be used in multiple ways in farming such as ploughing, sowing seeds, irrigation, cutting of weeds by using solar energy

SPARK Innovation Awardees

Ganitam - Maths

1. Winners

N Pavan Kumar, E Allwin Thomas & Prachi Singh
Class X
Army Public School, Lucknow, Uttar Pradesh
Project Title: **"Gamification of Mathematical Concepts"**

2. Runners Up

S Hari Srinivasan & Neel Umesh Mantri
Class IX
D A V Boys Senior Secondary School, Gopalapuram, Chennai
Supervisor: Mrs. Sucharitha
Project Title: **"NUMERICO"**

3. Consolation

Anushka Kutty & Rida Azam
Class X
Summer Fields School, Greater Kailash, New Delhi
Supervisor: Mr. Chandresh Thakur
Project Title: **"What's that Painting"**

Bhoutikam - Physics

1. Winners

Aarth Singal
Class IX
Bal Bharathi Public School, Pitampura, New Delhi
Supervisor: Mrs. Amandeep Kaur
Project Title: **"Comforting Sumo"**

2. Runners Up

Kushagra Patel, Aarush Agarwal & Abhinav Singh
Class VIII
Delhi Public School kalyanpur, Kanpur, Bihar
Supervisor: Mrs. Vimal Sharma
Project Title: **"AI Vacuum Cleaner"**

3. Consolation

Anunay Narayan Trivedi, Taapas Singh & Bhavik Mishra
Class IX
City Montessori School, Rajajipuram, Lucknow
Supervisor: Mrs. Afroz Ahamed
Project Title: **"SMART Bin"**

Jeevanam - Biology

1. Winners

Parth Nijhawan & Sukhleen Kaur

Class XII, X

Salwan Public School, Rajendra Nagar, New Delhi

Supervisor: Ms. Bhavna Kaushik

Project Title: "Household Wastewater Treatment using Natural Coagulants"

2. Runner Up

Kavyea Mittal

Class XII

Ridge Valley School, Gurugram, Haryana

Supervisor: Ms. Neelu Singh

Project Title: "Hindrance"

3. Consolation

Soha Aijaz & Lalnunkimi Hnamte

Class X

Tagore International School, Vasant Vihar, New Delhi

Supervisor: Dr. Remy Kaul

Project Title: "Grass Paper as an Alternative for Plastic Packaging"

Rasayanam – Chemistry

1. Winners

Lavanya Sachdev & Shlok Advani

Class XII

Salwan Public School, Rajendra Nagar, New Delhi

Supervisor: Dr. Shilpa Raghuvanshi Chauhan

Project Title: "Mosquitocidal cum Larvaecidal Cakes from Waste Cigarette Butts"

2. Runners Up

Manthan Gadhe, Sanchit Jaiswal & Kapish Jaiswal

Class X

Bhavans B P Vidya Mandir, Nagpur, Maharashtra

Supervisor: Mr. Ravindra Tadas

Project Title: "Particle Board from Crop Waste"

3. Consolation

Falgun Sukhija, Syed Shan Abbas Ali Naqvi & Tanmay Parikh

Class XII

Centre Point School, Nagpur, Maharashtra

Supervisor: Mrs. Sonia Vhora

Project Title: "Solar Desalination of Brackish Water"

Research Awardees

Ganitam - Maths

1. **Winner**

Pritam Ganguly

Indian Institute of Science, Bengaluru, Karnataka

Supervisor: Prof. Sundaram Thangavelu

Project Title: "An Uncertainty Principle Regarding the best Possible Decay of the Spectral Projections Associated with Hermite, Special Hermite and Laplace - Beltrami Operators on Rank one Compact Symmetric Spaces"

2. **Runner Up – I**

Poornendu Kumar

Indian Institute of Science, Bengaluru, Karnataka

Supervisor: Prof. Tirthankar Bhattacharyya

Project Title: "Distinguished Varieties with Respect to the Bidisk and the Symmetrized Bidisk"

3. **Runner Up - II**

Akshay Kumar

Univeristy of Hyderabad, Hyderabad, Telangana

Supervisor: Prof. R Radha

Project Title: "Riemann Problem for Rate-Type Materials with Nonconstant Initial Conditions"

Bhoutikam – Physics Awardees

1. **Winner**

Manali Nandy

Indira Gandhi Centre for Atmoic Research, Kalpakkam, Tamil Nadu

Supervisor: Dr. John Philip

Project Title: "Inter-Droplet Force Measurement between Gamma Alumina Stabilized Pickering Nano Emulsion Droplets: Role of Electrostatic and Electric Dipolar Interactions"

2. **Runner Up - I**

Y R Kartik

Manipal Academy of Higher Education, Manipal, Karnataka

Supervisor: Prof. Sujit Sarkar

Project Title: "Topological Quantum Phase Transitions and Criticality in Longer-Range Kitaev Chain"

3. **Runner - Up II**

Praveen Kumar

Indian Institute of Technology, Patna, Bihar

Supervisor: Prof. Naveen K Nishchal

Project Title: "Structured Light Beams and its use in Optical Encryption"

Jeevanam – Biology Awardees

1. Winner

Srividya Gorantla

Birla Institute of Technology and Science, Pilani, Pilani Campus, Rajasthan

Supervisor: Dr. Gautam Singhvi

Project Title: “Exploring the Affluent Potential of Glycerol Mono Oleate – Myristol Liquid Crystal Nanoparticles Mediated Localized Topical Delivery of Tofacitinib: Study of Systematic QbD, Skin Deposition and Dermal Pharmacokinetics Assessment”

2. Runner - Up I

Pallavi Deolal

University of Hyderabad, Hyderabad, Telangana

Supervisor: Prof Krishnaveni Mishra

Project Title: “A Novel ER Protein-uip⁴, Regulates Nuclear Function and Nuclear Pore Complex Quality in S. Cerevisiae”

3. Runner - Up II

Pallavi Deolal

University of Hyderabad, Hyderabad, Telangana

Supervisor: Prof Krishnaveni Mishra

Project Title: “A Novel ER Protein-uip⁴, Regulates Nuclear Function and Nuclear Pore Complex Quality in S. Cerevisiae”

Rasayanam – Chemistry Awardees

1. Winner

Diksha Rai

Indian Institute of Technology, Bombay, Maharashtra

Supervisor: Prof. Suvarn S. Kulkarni

Project Title: “Total Syntheses of Conjugation-ready Trisaccharide Repeating Units of Pseudomonas Aeruginosa O₁₁ and Staphylococcus Aureus Type 5 Capsular Polysaccharide for Vaccine Development”

2. Runner - Up I

Prachi Kour

CSIR – National Chemical Laboratory, Pune, Maharashtra

Supervisor: Dr. Shatabdi Porel Mukherjee

Project Title: “CsPbBr₃/Cs₄PbBr₆ Perovskite@COF Nanocomposites for Visible-Light-driven Photocatalytic Applications in Water”

3. Runner Up - II

T. Leelasree

Birla Institute of Technology & Science (BITS) Pilani, Hyderabad, Telangana

Supervisor: Dr. Himanshu Aggarwal

Project Title: “MOF Based Flexible, Low-cost Chemiresistive Device as a Respiration Sensor for Sleep Apnea Diagnosis”