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Dr. Ajil Kottayil



Dr. Sajeevan T. P.



Dr. Smart K. B.



Mr. Sarathkrishna S.



Mr. Rejoy Rebello



Dr. Renjith K. R.



Mr. George Snijin



Mr. Rohit T. P.



Mr. Mohamed Faraz M S



Mr. Arshif

Science Odyssey

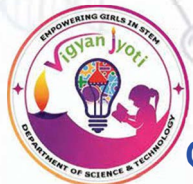
Explore the frontiers of science

#jnv1dukk1NG3.0

Vigyan Jyoti Programme

Jawahar Navodaya Vidyalaya, Idukki
Knowledge Partner

Cochin University of Science and Technology



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August
17-18
2024

Vigyan Jyoti Programme

Jawahar Navodaya Vidyalaya, Idukki

About JNV

Jawahar Navodaya Vidyalaya, Idukki was founded in October 1986 with the mission of delivering quality and value-based education to the deserving yet underprivileged students of Idukki, a district still facing developmental challenges in Kerala. The school offers students exceptional opportunities to excel in life through participation in sports, cultural activities, and literary competitions. The institution focus is on the holistic development of students, and we take pride in nurturing disciplined and responsible citizens with strong character and values. The approach institutional of planning each year by leveraging our physical and human resources to fulfill our vision of shaping future citizens and contributing to a better India. JNV embrace this challenge with dedication, combining knowledge, skills, and ethics to empower students to meet



CUSAT, or Cochin University of Science and Technology, is a state government-owned autonomous university located in Kochi, Kerala, India. Established in 1971 as the University of Cochin through a Kerala Legislature act, it was renamed CUSAT in February 1986. The university operates across three campuses and offers degrees in Engineering and Science at the undergraduate, postgraduate, and doctoral levels. Its mission is to advance education and research in applied science, technology, industry, commerce, management, and social sciences.

About CUSAT



About Vigyan Jyoti



The Department of Science & Technology started a unique programme 'Vigyan Jyoti' for meritorious girls with the aim to address the underrepresentation of women in different fields of Science, Technology, Engineering and Mathematics (STEM) in the country. As a first step, the "Vigyan Jyoti" has been introduced in the year 2019-20 at the school level wherein meritorious girl students of Class 9-12 are being encouraged to pursue higher education and career in STEM field. The Vigyan Jyoti envisaged hand-holding and interventions right from the school level i.e., Class IX and which will continue till the PhD level to encourage girls to pursue a career in underrepresented areas of STEM. Various activities such as science camps, special lectures/ classes, counselling of students and parents, interaction with role models, tinkering activities, visit to Knowledge Partners/ Research Labs/ Industries/ NGOs are being conducted in the programme in order to motivate girls. The Navodaya Vidyalaya Samiti (NVS), an autonomous organization of MHRD, is the implementation partner of Vigyan Jyoti. NVS has a network of Jawahar Navodaya Vidyalayas (JNVs) in more than 600 districts of India and at present, 100 JNVs are acting as 'Vigyan Jyoti Knowledge Centres' to cater for girls from JNVs, KVs, Govt. schools, army schools of small cities and rural areas for more diversity in STEM.

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Programme

Day 1

- Session 1** Inauguration
- Session 2** Topic: "**Satellite**"
Resource Person: Dr. Ajil Kottayil
(*Scientist, ACARR, CUSAT*)
- Session 3** Workshop on
"**Drone anatomy and Industrial Application of drone technology**"
Resource Person: Mr. Arshif
(*CEO Drone Imagination Pvt Ltd*)
- Session 4** Topic: "**Marine bio resources and emerging areas of Marine Biotechnology**"
Resource Person : Dr. Sajeevan
(*Professor, CUSAT*)
- Session 5** Topic: "**Wireless Communication Trends, Radar probing techniques and advanced meteorological instrumentation**"
Resource Persons : Mr. Sarathkrishna S. (*Engineer, ACARR, CUSAT*)
Mr. Rejoy Rebello. (*Engineer, ACARR, CUSAT*)
- Session 6** Topic: "**Ocean Worlds: Our Solar System's Hidden Treasures**"
Resource Person: Dr. Smart K. B.
(*University Post-Doctoral Fellow, ACARR, CUSAT*)

Day 2

- Session 7** Topic: "**Water- The Elixir of life**"
Resource Person: Dr. Renjith K. R
(*Scientist, CWRDM*)
- Session 8** Topic: "**Water quality analysis of aquatic ecosystems**"
Resource Person:
Mr. George Snijin.
(*Project Associate I, ISRO RESPOND NRSC Project, Department of Chemical Oceanography, CUSAT*)
- Session 9** Topic: "**Introduction to Product Management**"
Resource Person:
Mr. Mohamed Faraz M S
(*Head of Strategy and Operations, Lascade LLC.*)
- Session 10** Topic:
"**MATHeREAL - Mathematics that you can see for real**"
Resource Person: Mr. Rohit T. P.,
(*Solutions Architect, Lascade LLC*)

