



**Organized by Department of Science, Technology & Waste Management,
Government of Goa**

The Government of Goa through Department of Science, Technology & Waste Management organized an event Manohar Parrikar Vidnyan Mahotsav (MPVM) to honour the Hon'ble Former Chief Minister of the State of Goa and Former Defense Minister of India, Late. Shri. Manohar Parrikar. This year the 5th Inaugural event was held on 13th of December 2023 at the National Institute of Oceanography, Dona Paula, Goa and 8 other venues across Goa which was attended by 6000 students.



Background:

The State of Goa, hosted a three-day successful event on Nobel Prize series in the year 2018 in collaboration with the Nobel Foundation, Sweden, Sweden Embassy in India, and Department of Bio-technology (DBT), Govt. of India. Four Nobel Laureates Namely Dr. Christianne Nusslein-Volhard, Dr. Searge Haroche, Dr. Tomas Lindahl and Dr. Richard J Roberts participated in the event and interacted through lectures, panel and round table discussion with wide range of stakeholders including students, researches, academicians, industry and general public.

As part of this, a one-month exhibition on Nobel Prize series was also organized by Nobel Media Sweden AB along with DBT, Govt. of India and Department of Science and Technology (DST), Govt. of Goa at the Kala Academy, Panaji. Information panels and working modules on scientific inventions by Nobel Laureates as well the life and scientific contribution of Indian scientists were displayed. The Department of Education, Directorate of Higher Education, Goa University and various research and academic institution helped facilitate visitors to go through the exhibits. Daily special lectures on life of Indian Scientists was also organized as part of Exhibition. Around thirty thousand participants were benefited.

The event was inaugurated by the then Chief Minister of Goa Late Shri. Manohar Parrikar, a scientific visionary who himself was a graduate from the Indian Institute of Technology (IIT), Mumbai. In his inaugural address, he opined that the Nobel Prize series is an excellent opportunity to meet and interact with scientific luminaries across the globe and learn from them and their research inventions. He announced in his inaugural speech, that Nobel series would be an annual feature in Goa and his government would support organize the same.

The untimely demise of Shri Parrikar in the year 2019, created a void in scientific and political arena. However, his vision and ideas are now being taken ahead by his successor, Dr Pramod Sawant Hon'ble chief minister of Goa. The yearly Vidnyan Mahotsav is the testimony of his commitments and to Honor his commitments the Government of Goa is observing 13th December as Manohar Parrikar Vidnyan Mahotsav.



Since 2019, Manohar Parrikar Vidnyan Mahotsav has set a glorious tradition of exchanging scientific ideas. Subsequently, The Government of Goa vide Department of Science, Technology & Waste Management has organized this event in the year 2019, 2020, 2021 and 2022. the Event was again organized on 13th of December by the Government of Goa though Department of Science, Technology & Waste Management at the National Institute of Oceanography at Dona Paula. To date around 20000 students have been part of this Mahotsav. Learned minds including Nobel Laureates and scientists of international repute have shared their insights and experience on this platform which include Dr. Christopher Brett , Prof. P. S. Goel , Prof. Raghavendra Gadagkar , Dr. Tessy Thomas , Prof. Arindam Ghosh and many more. This tradition of learning from the brightest minds in India and exchanging ideas to expand scientific knowledge will grow stronger with the passage of time, inspiring future scientists, experts, and policymakers with a scientific temperament.



Event Details:

This year also honouring his commitment, and taking his scientific vision forward, the Government of Goa, decided to organize a One-day scientific event to commemorate his birth anniversary on the 13th of December, 2022 under the banner 'Manohar Parrikar Vidyan Mahotsav'. The event was held through the Department of Science and Technology and Waste Management. The Government has approved Pattern of Assistance for undertaking the Manohar Parrikar Vidyan Mahotsav annually, which is organized through Goa Waste Management Corporation.

Lecture Seminars and interactive sessions were held at Nine different venues across the State on the 13th of December as part of enlightening school children across the State on various Scientific topics. The programme was conducted simultaneously at 9 different venues. Inaugural Event will be held at NIO, Dona Paula and First Lecture was given by Dr S. Somanath which was common and the event was streamed live social media across 8 other venues and also on YouTube and Facebook Live for wide spread viewership of audience across the State:

1. Don Bosco College of Engineering, Fatorda, Margao – Goa.
2. Rajiv Gandhi Kala Mandir, Ponda, Goa
3. Government College of Arts, Science and Commerce, Quepem – Goa
4. Government College of Arts and Commerce, Pernem, Goa.
5. Government Higher Secondary School, Canacona – Goa.
6. Ravindra Bhavan, Sankhali
7. Birla Institute of Technology and Science, Pilani, Zuari Nagar, Vasco.
8. Sadashiv Marathe Samaj Mandir (Gomantak Vidhyalaya), Tisk, Usgao, Dharbandora

The event was proudly supported by the following organizations:

1. Directorate of Higher Education
2. Directorate of Education
3. Directorate of Technical Education
4. Department of Information and Publicity
5. Goa State Pollution Control Board (GSPCB)
6. Goa State Innovation Council
7. Goa Waste Management Corporation (GWMC)
8. Centre for Environment Education (CEE-Goa)
9. Department of Science and Technology and Waste Management

The following organizations were also appointed as the technical advisors for the event:

1. CSIR-National Institute of Oceanography, Dona-Paulo, Goa.
2. Indian Institute of Technology, Goa.
3. Birla Institute of Technology & Science, Pilani-Goa Campus.
4. National Institute of Technology, Goa.

The Manohar Parrikar Vidnyan Mahotsav 2022 event was set into motion on 13th December 2022, with the inaugural session at 09:30 am in the auditorium of the National Institute of Oceanography, Dona Paula. The esteemed guests which included the Hon'ble Minister of Health, Town and Country Planning, Forest, Urban Development, Women and Child Development, Shri Vishwajit P Rane, Chairman-ISRO, Bengaluru, Dr Sreedhara Somanath, Former Chairman, Atomic Energy Commission of India, Dr Anil Kakodkar, Scientist F, U R Rao Space Centre ISRO – Bengaluru, Dr Mathavaraj S, Chairman Goa Public Service

Commission & Chairman of the executive committee for the Manohar Parrikar Vidnyan Mahotsav, Shri. Jose Manuel Noronha, Secretary for Science, Technology and Waste Management, Govt. of Goa, Shri. Sanjay Goel – IAS, Director – National Institute of Oceanography, Goa, Dr Sunil Kumar Singh, Director Science and Technology and Waste Management & Managing Director Goa Waste Management Corporation, Dr. Levinson Martins and Chairman Dempo Group, Shri Shrinivas Dempo.

Then, Shri. Jose Manuel Noronha, Chairman, Goa Public Service Commission and also the Chairman, of the executive committee MPVM, extended his warm welcome to the dignitaries and audience followed by the welcoming of dignitaries with a brief address note about the Manohar Parrikar Vidnyan Mahotsav (MPVM). He also elaborated on how Manohar Parrikar Vidnyan Mahotsav was envisaged and also briefly touched upon the previous editions of the Manohar Parrikar Vidnyan Mahotsav. He then requested to play a commemorative video/film on Late Shri. Manohar Parrikar.



Shri. Jose Manuel Noronha, welcoming the dignitaries and the audience with a brief address note about the Manohar Parrikar Vidnyan Mahotsav 2023

The dignitaries were then escorted for the Lighting of the Lamp which was done at the auspicious hands of Hon'ble Minister of Health, Town and Country Planning, Forest, Urban Development, Women and Child Development, Shri Vishwajit P Rane, Chairman-ISRO, Bengaluru, Dr Sreedhara Somanath, Former Chairman, Atomic Energy Commission of India, Dr Anil Kakodkar, Scientist F, U R Rao Space Centre ISRO – Bengaluru, Dr Mathavaraj S, Chairman Goa Public Service Commission & Chairman of the executive committee for the Manohar Parrikar Vidnyan Mahotsav, Shri. Jose Manuel Noronha, Secretary for Science, Technology and Waste Management, Govt. of Goa, Shri. Sanjay Goel – IAS, Director – National Institute of Oceanography, Goa, Dr Sunil Kumar Singh, Chairman - Dempo Group, Shri Shrinivas Dempo, to mark the auspicious beginning of the event in memory of the Hon'ble Former Chief Minister towards a bright and intelligent future of the State.



Lighting of the Lamp

The dignitaries were then escorted on to the dais by Dr. Levinson Martins Director (S&T&WM & MD GWMC) where they assumed their respective places on the dais which was promptly followed by a floral welcome.



Floral welcome of the dignitaries on the Dais



A glimpse of audience participation at NIO, Dona-Paulo.

The gathering was welcomed by Dr Anil Kakodkar, Former Chairman, Atomic Energy Commission of India who extended his warm welcome to all the dignitaries present at the Venue and also welcomed the audience. He also briefed about the new initiative announced by the Hon'ble Chief Minister of Goa, Dr Pramod Sawant with respect to identifying Manohar Parrikar Yuva Scientist Award 2023.



Dr Anil Kakodkar, Former Chairman, Atomic Energy Commission of India delivering his welcome address.

With great pleasure and pride Dr Mathavaraj S, Scientist F, U R Rao Space Centre ISRO – Bengaluru, was called on the dais and was awarded The Manohar Parrikar Yuva Scientist 2023 award by Hon'ble Minister of Health, Town and Country Planning, Forest, Urban Development, Women and Child Development, Shri Vishwajit P Rane.



Dr Mathavaraj S, Scientist F, U R Rao Space Centre ISRO – Bengaluru, awarded The Manohar Parrikar Yuva Scientist 2023

Further Hon'ble Minister of Health, Town and Country Planning, Forest, Urban Development, Women and Child Development, Shri Vishwajit P Rane launched the book which is a compilation of 5 years journey photo guide of Manohar Parrikar Vidnyan Mahotsav.



The gathering was later addressed by Shri Vishwajit P Rane, Hon'ble Minister of Health, Town and Country Planning, Forest, Urban Development, Women and Child Development. He highlighted the memories and flashbacks of Ex-Chief Minister late Shri. Manohar Parrikar, on the type of individual he was. He also mentioned how he wanted to use Science and Technology to drive the policies for development of Goa and create a unique product of Goa. Shri Vishwajit P Rane also said that achievers from various fields would guide the young students to develop scientific temper towards prosperity of this nation and gain maximum knowledge from this event. He then congratulated Chairman-ISRO, Bengaluru, Dr Sreedhara Somanath for the landing of Chandrayan 3 on the south pole of the moon.



Shri Vishwajit P Rane, Hon'ble Minister of Health, Town and Country Planning, Forest, Urban Development, Women and Child Development delivering his address.

The Hon'ble Chief Minister, Dr. Pramod Sawant then addressed the gathering virtually in which he spoke about the dedication and greatness of former Chief Minister of the State of Goa and Defense Minister of India, late. Shri. Manohar Parrikar. He Congratulated the Department of Science, Technology and Waste Management for meticulously planning this Scientific Event and getting such great Scientist of international repute to deliver lectures at different venues in

Goa so that Goan Students can benefit from their experience in field of Science and Technology. He welcomed all the Speakers in Goa. He also said that the students, teachers and researchers are looking forward for this date to listen and interact with scientist of international repute. He added that he wants a Goan student to become a prominent scientist and contribute for the progress of state of Goa, Country and World at large. He also congratulated the awardee, Dr Mathavaraj S, Scientist F, U R Rao Space Centre ISRO – Bengaluru for the Manohar Parrikar Yuva Scientist Award 2023.



The Hon'ble Chief Minister, Dr. Pramod Sawant then addressing the gathering virtually

Chairman-ISRO, Bengaluru, Dr Sreedhara Somanath was then facilitated by Shri Vishwajit P Rane, Hon'ble Minister of Health, Town and Country Planning, Forest, Urban Development, Women and Child Development in presence of all the dignitaries.



Chairman-ISRO, Bengaluru, Dr Sreedhara Somanath facilitated by Shri Vishwajit P Rane, Hon'ble Minister of Health, Town and Country Planning, Forest, Urban Development, Women and Child Development

The dignitaries were then presented with a memento as a token of appreciation for their efforts by Shri. Jose Manuel Noronha, Chairman, of the Executive Committee MPVM



The dignitaries were presented with a memento as a token of appreciation

Dr. Sunil Singh, Director, NIO-CSIR proposed the words of thank to all the dignitaries present at the Venue and also all the speakers at various venues. He also thanked the organizing committee and all the departments of state of Goa for their support.



Dr. Sunil Singh, Director, NIO-CSIR delivering Vote of Thanks

Dr. Sujeet Kumar Dongre, Scientist E (CEE) then commenced the Technical Session by welcoming the first Lecturer Chairman-ISRO, Bengaluru, Dr Sreedhara Somanath

The First Lecture was an online session by Chairman-ISRO, Bengaluru, Dr Sreedhara Somanath which was common and streamed online at all the 8 different Venues across Goa. He acknowledged the contribution of The Hon'ble Chief Minister, Dr. Pramod Sawant for making this event happen continuously for the last five years and also congratulated the Hon'ble Chief Minister and the Government to making this celebration of Manohar Parrikar Vidnyan Mahotsav for the benefit of the young talents of the state. He addressed the gathering about The Exploration side of Chandrayan 3 and other missions of ISRO



Chairman-ISRO, Bengaluru, Dr Sreedhara Somanath delivering a lecture

Shri. Sujeet Kumar Dongre, then relayed the questions from Students to the Guest Speaker during the Question and Answer (Q&A) session. The Q&A session concluded the first lecture.

This was followed by the Second Lecture by Dr Anil Kakodkar, Former Chairman, Atomic Energy Commission of India on the topic, Science and Development and offline Lectures by respective lectures at all the 8 different venues across Goa.



Dr Anil Kakodkar, Former Chairman, Atomic Energy Commission of India delivering a lecture on Science and Development

This session was then followed by a Question-and-Answer Session moderated by Mr. Sujeet Dongre.

And the last technical lecture was delivered by Dr Mathavaraj S, Scientist F, U R Rao Space Centre ISRO – Bengaluru, He enlightened the gathering about Spaceflight Exploration.



Dr Mathavaraj S, Scientist F, U R Rao Space Centre ISRO – Bengaluru delivering a lecture on Spaceflight Exploration

This session was also then followed by a Question-and-Answer Session moderated by Mr. Sujeet Dongre.

Shri. Jose Manuel Noronha, Chairman, of the executive committee MPVM, then took to the podium and summarized the technical session recapping the three lectures and further expressed his gratitude to the speakers for taking time and effort to make this event successful. He also thanked the Advisory Committee and the organizing team for fruitfully organizing this Event. He lastly thanked the Govt. of Goa and expressed gratitude to the organizing this Scientific Event. The vote of thanks marked that successful conclusion of the Manohar Parrikar Vidnyan Mahotsav 2023 edition.

For maximum outreach this event was also live streamed on online social media platforms such as Facebook, YouTube and electronic print media for online viewership for interested viewers across the State from National Institute of Oceanography (NIO) in Dona Paula and further live streamed at 8 other locations across the State which was attended by approx. 6000 students:

1. Don Bosco College of Engineering, Fatorda.
2. Rajiv Kala Mandir, Ponda
3. Govt.College of Arts, Science And Commerce, Quepem
4. Government College of Arts and Commerce, Pernem
5. Government Higher Secondary, Canacona
6. Ravindra Bhavan, Sankhalim
7. BITS Pilani, K.K. Birla Goa Campus, Zuarinagar
8. Sadashiv Marathe Samaj Mandir, (Gomantak Vidhyalaya), Tisk, Usgao, Dharbandora

Report of Manohar Parrikar Vidnyan Mathotsav 2023 at Fatorda Venue.

Don Bosco college of Engineering successfully hosted the 5th Manohar Parrikar Vidnyan Mahotsav organised by the Department of Science, Technology & Waste Management, Government of Goa on 13th December 2023, marking the birth anniversary of the honourable former Defence Minister of India and former Chief Minister of Goa, Manohar Parrikar.

Students from various schools and colleges in South Goa such as Multipurpose Higher Secondary, Presentation Higher Secondary, Loyola Higher Secondary, Damodar Higher Secondary School, Parvatibai Chowgule College, Arts and Science, Our Lady of Rosary Higher Secondary School, Kare College of Law, Carmel Higher Secondary School, Cuncolim United School, and Perpetual Higher Secondary School attended the Mahotsav at Don Bosco College of Engineering, Fatorda. A total of 423 students attended the Vidnyan Mahotsav. Snacks and event kits were distributed to the students on arrival to the venue.

The students attended the online inaugural ceremony & key note session by Dr. Sreedhara Somanath, Chairman, ISRO which was screened from NIO, Goa.

The second session was delivered by Prof. V Ramgopal Rao, Vice-Chancellor, Birla Institute of Technology & Science (BITS) Pilani on the topic - Bridging Research & Innovation in Indian Institutions: A Vision for an AtmaNirbhar Bharat at the venue. The students actively participated in this session by asking interaction and actively asked questions on the topic of Research projects, innovative projects & funding opportunities.

The third Lecture was delivered by Prof. Bedangadas Mohanty, Director, National Institute of Science Education and Research, Bhubaneswar on the topic - Recreating Microsecond old Universe conditions in the laboratory - Science and Societal benefits at the venue. The students found this session to be interesting as the topics involved Recreating the Big Bang at the Large Hadron Collider, Geneva Switzerland facility. The facility and the process at the Large Hadron Collider was explained with animation and real life examples. The student actively participated in the session.



Don Bosco College of Engineering, Fatorda

Report of Manohar Parrikar Vidnyan Mathotsav 2023 at Ponda Venue.

Rajiv Gandhi Kala Mandir, Ponda Goa was one of the venues for the 5th edition of Manohar Parrikar Vidnyan Mahotsav organised by the Department of Science, Technology & Waste Management, Government of Goa on 13th December 2023, marking the birth anniversary of the honourable former Defence Minister of India and former Chief Minister of Goa, Late Shri. Manohar Parrikar.

Students from various schools and colleges in Ponda taluka such as G.V.M's S.N.J.A. Higher Secondary School, P.E.S. College of Arts and Science, M.I.B.K High School Ponda, P.E.S. Higher Secondary School, Ponda, S.S. Samiti Higher Secondary School, Ponda, S.E.S. Higher Secondary School, Usgao Ponda, AJ De Almeida High School, Ponda. A total of 800 students attended the Vidnyan Mahotsav. Snacks and event kits were distributed to the students on arrival to the venue.

The students and the speakers at the venue Dr. Kartikeya Sarabhai and Prof. Arvind attended the online inaugural ceremony & key note session by Dr. Sreedhara Somanath, Chairman, ISRO which was screened from NIO, Goa. Dr. Wilson Vaz, Vice Principal of G.V.M's S.N.J.A. Higher Secondary School hosted the event.

Post live session from NIO, the event at Rajiv Gandhi Kala Mandir started with Introduction of Dr. Kartikeya Sarabhai (Director, Centre for Environment Education) by Shri. Bhaskar Khandeparkar, President, G.V.M's General Body followed by floral welcome of Dr. Kartikeya Sarabhai by Smt. Marianela Gina Mascarenhas, one the teachers of G.V.M's S.N.J.A. Higher Secondary School accompanying the students at the venue. Dr. Kartikeya Sarabhai delivered a lecture on "Learning from Nature" emphasising on climate change, waste segregation and environment. Post lecture, a memento was presented to Dr. Kartikeya Sarabhai by Shri. Pravin Concar, Headmaster, G.V.M's A. J. De Almeida High School, Ponda.

The second lecture was delivered by Prof. Arvind (Vice Chancey, Punjabi University). Introduction of Prof. Arvind was done by Shri. Krishna Shetye, Chairman, G.V.M's Working Committee followed by floral welcome by Smt. Shabnam Aga, Headmistress, G.V.M's M.I.B.K. High School. Prof. Arvind delivered lecture on the topic "A glimpse into Quantum World from Atomic Spectra to Quantum Computing" at the venue. He highlighted the basic concepts of Quantum Computing and Atomic Chemistry. Post lecture, a memento was presented to Prof. Arvind by Prof. Vikas Pissurlekar, Principal, P.E.S. College of Arts & Science, Ponda.

The vote of thanks was proposed by Shri. Richard Fernandes (Deputy Manager-GWMC). The event was followed by lunch and handing over of participation certificates to the students after which students proceeded to their respective schools.



Rajiv Kala Mandir, Ponda

Report of Manohar Parrikar Vidnyan Mathotsav 2023 at Quepem Venue

Government college of Arts, Science and Commerce, Quepem successfully hosted the 5th Manohar Parrikar Vidnyan Mahotsav organised by the Department of Science, Technology & Waste Management, Government of Goa on 13th December 2023, marking the birth anniversary of the honourable former Defence Minister of India and former Chief Minister of Goa, Manohar Parrikar.

A total of 491 students attended the Vidnyan Mahotsav. Registration were done and snacks and event kits were distributed to the students on arrival to the venue.

The students attended the online inaugural ceremony & key note session by Dr. Sreedhara Somanath, Chairman, ISRO which was screened from NIO, Goa.

The second session was delivered by Prof. B. C. Choudhury, Former Prof. WII, Dehradun on the topic – Marine Megafauna Conservation Strategies: A successful Replicable Model on Whale Sharks along the West Coast of India. Professor also explained about case study of Whale Shark in Gujarat.

The session was very interesting explaining about Whales ecosystem in details to the students and many questions were also asked by the students based on the Whales ecosystem topic.

The third Lecture was delivered by Prof. Kailash C. Malhotra, Former Prof. Indian Statistical Institute, Kolkata on the topic – Role of hand and feet skin architecture (Dermatoglyphics) in shaping human civilization. He explained about the human hands and feet 17 weeks of gestation and unchanged throughout life, enable precision grip and toll fabrication. The student actively participated in the session.

The session was concluded by vote of thanks by Principal of Government College of Quepem.



Govt.College of Arts, Science And Commerce, Quepem

Report of Manohar Parrikar Vidnyan Mathotsav 2023 at Pernem Venue.

Sant Sohirobanath Ambiye Government College of Arts and Commerce Virnoda was one of the venues for the 5th edition of Manohar Parrikar Vidnyan Mahotsav organised by the Department of Science, Technology & Waste Management, Government of Goa on 13th December 2023, marking the birth anniversary of the honourable former Defence Minister of India and former Chief Minister of Goa, Late Shri. Manohar Parrikar.

Students from various schools and colleges in Pernem taluka such as Harmal Panchkroshi HSS, Govt. HSS- Pernem, Govt. High School, Dadachwadi, Manguirish Vidhyalaya English High School, Ganpat Parsekar College of Education, Viscount High School, Pradnya High School, Devsu, Shahid Ram Singh Memorial Govt. High School, Torsem, Shree Bhagwati High School, St. Joseph High School, Vikas High School & Sant Sohirobanath Ambiye Government College of Arts and Commerce attended the Mahotsav at Sant Sohirobanath Ambiye Government College of Arts and Commerce, Pernem. A total of 424 students attended the Vidnyan Mahotsav. Snacks and event kits were distributed to the students on arrival to the venue.

The event started with the floral welcome of guests by the principal and vice-principal of the college. Vice-principal Ms. Lucy James welcomed the gathering and briefed about the event. The students attended the online inaugural ceremony & key note session by Dr. Sreedhara Somanath, Chairman, ISRO which was screened from NIO, Goa.

The second session was delivered by Dr. Vineet Gahalaut, Chief Scientist, CSIR-NGRI, Hyderabad on the topic “Motion, deformation and earthquakes of India plate” at the venue. He highlighted the basic concepts of crustal deformation and earthquake occurrence. He simplified the plate tectonic movement by giving the example of snail and caterpillar which was helped in understanding the mechanism of earthquakes.

The third Lecture was delivered by Dr. Sharad Kale, Former Scientist, Bhabha Atomic Research Centre on the topic – Sustainability of Environment & Resources the venue. The students found this session to be interesting as the topics involved practical demonstration of waste management of thermocole and testing of waste water of AC system. The student actively participated and volunteered in demonstrations in the session and understood various sustainable practices to be adapted.

The event concluded by presenting mementos to the Guests and Principal. The vote of thanks was proposed by Shri. Shoukan Teli (DM-GWMC). The event was followed by lunch and handing over of participation certificates to the students after which students proceeded to their respective schools.



Government College of Arts and Commerce, Pernem

Report of Manohar Parrikar Vidnyan Mathotsav 2023 at Canacona Venue.

The fifth Manohar Parrikar Vidnyan Mahotsav was hosted at one of the venue at Government Higher Secondary School of Arts, Commerce and Science, Mastimol, Canacona, Goa by the Department of Science, Technology & Waste Management, Government of Goa on 13th December 2023, commemorating the birth anniversary of the honourable former Defence Minister of India and former Chief Minister of Goa, Shri Late Manohar Parrikar.

Students from various schools and Higher Secondary Schools around the Canacona Taluka South Goa participated in the Manohar Parrikar Vidnyan Mahotsav at Government Higher Secondary School, Canacona Goa. These Schools and Higher Secondary includes the following

A total number of 470 students from 19 Schools and Higher Secondary Schools participated in the Manohar Parrikar Vidnyan Mahotsav. The Inaugral ceremony screened from National Institute of Oceanography followed by first session was attended online The first key note session was delivered by Dr. Sreedhara Somanath, Chairman, ISRO which was screened from National Institute of Oceanography, Dona Paula, Goa.

The second lecture was offline at the venue which was delivered by Prof. K. V. Devar, Retired Professor, College of Forestry, Sirsi, Karnataka, on topic Climate smart agriculture through integrated farming practices. The speaker addressed, the impacts of climate change on agricultural productivity and adoption of Climate smart agricultural practices suitable for changing climate. The students interacted with the speaker after the session and put forward several questions and gained the answers pertaining to Agriculture and Climate Change.

The third Lecture was delivered by Prof. Prasanta K. Panigrahi, Department of Physical Sciences, Indian Institute of Science Education and Research Kolkata, on the topic - Emergence of Quantum Science and Technology in the 21st century at the venue. The students found the session to be interesting as the topics involved Indian Scientific contribution from ancient time to modern day. The students also actively participated in the question - answer session.

Lecturer of Government Higher Secondary School, Canacona Blavyanca Fernandes Compared the Programme and Introduced the Guest Speakers. Dr. Rajath R. Chitari concluded the programme with Vote of Thanks.



Government Higher Secondary, Canacona

Report of Manohar Parrikar Vidnyan Mathotsav 2023 at Sankhalim Venue.

Ravindra Bhavan, Sankhalim successfully hosted the 5th Manohar Parrikar Vidnyan Mahotsav organised by the Department of Science, Technology & Waste Management, Government of Goa on 13th December 2023, marking the birth anniversary of the honourable former Defence Minister of India and former Chief Minister of Goa, Manohar Parrikar.

A total of 700 students attended the Vidnyan Mahotsav Students from Govt. College of commerce and science, Shree Shantadurga higher secondary school, Govt. High school pissurlem, Our lady of lourdes higher secondary school, Shri Bhumika Higher secondary school and etc. Registration was done and snacks and event kits were distributed to the students on arrival to the venue.

The students attended the online inaugural ceremony & key note session by Dr. Sreedhara Somanath, Chairman, ISRO which was screened from NIO, Goa.

The second session was delivered by Prof. Padmanaban Balaram Former Director. IISc, Bengaluru on the topic – The Origins Of life: Chemical Evolution and Birth of Biology. The session was very interesting explaining about the evolution of geological and chemical evolution preceding life on earth.

The third Lecture was delivered by Prof. Renee Borges, Former Prof. IISc Bengaluru on the topic – Life in Natural Microcosms. The lecture was based on the case study on the eco system present in the Fig flower and the Waps reproduction in the macro eco system.

The session was concluded by vote of thanks by Rohan Ghadi Deputy manager Goa Waste Management.



Ravindra Bhavan, Sankhalim

Report of Manohar Parrikar Vidnyan Mathotsav 2023 at Zuarinagar Venue.

Birla Institute of Technology and Sciences, KK Birla Campus at Mormugao Goa was one of the venues for the 5th edition of Manohar Parrikar Vidnyan Mahotsav organised by the Department of Science, Technology & Waste Management, Government of Goa on 13th December 2023, marking the birth anniversary of the honourable former Defence Minister of India and former Chief Minister of Goa, Late Shri. Manohar Parrikar.

Students from various schools and colleges in Mormugao taluka had a total of 620+ students attended the Vidnyan Mahotsav. Snacks and event kits were distributed to the students on arrival to the venue.

The event started with the floral welcome of guests by the Director Prof. Suman Kundu of the college.

The students attended the online inaugural ceremony & key note session by Dr. Sreedhara Somanath, Chairman, ISRO which was screened from NIO, Goa.

The second session was delivered by Dr. Ashok Ganguli, Director, IISER, Berhampur, Odisha on the topic “Gifts of science to society: Let us think about it “at the venue. He touched some key topics on some amazing technologies of today like Maglev trains, artificial skin and many new technologies brought about by nanotechnology. Nanotechnology is an interdisciplinary area which overlaps across many disciplines starting from core sciences (Physics, Chemistry and biology) to materials science, engineering and medicine. Nanoscience can be observed around us in living and non-living objects.

The third Lecture was delivered by Dr. Prakash Chauhan, Director, National Remote Sensing Centre (ISRO) on the topic – New Insight about Earth’s Moon through Indian Lunar Missions. The students found this session to be interesting as the topics involved discussions about ISRO space expeditions and lunar missions.

The event concluded by presenting mementos to the Guests and Principal. The vote of thanks was proposed by Shri. Saiel Kamat (AM- GWMC). The event was followed by lunch and handing over of participation certificates to the students after which students proceeded to their respective schools.



BITS Pilani, K.K. Birla Goa Campus, Zuarinagar

Report of Manohar Parrikar Vidnyan Mathotsav 2023 at Dharbandora Venue.

Artificial Intelligence in science, Engineering and Medicine by Dr. G. Narahari sastry

Dr. Sastry expressively discussed the evolutionary journey of humanity from hunter-gatherer societies to the current era of digitalization and interconnected devices, emphasizing the pivotal role of science and technology in shaping societies. He highlighted the transformative industrial revolutions and the contemporary impact of artificial intelligence (AI) on our lives. Dr. Sastry underlined the importance of asking the right questions early in life for personal and professional development, drawing parallels between knowledge acquisition and wealth creation. Investigating into AI, he categorized it into systems that think or act like humans and those that operate rationally. Acknowledging the potential positive and negative implications of AI, he stressed its role in providing sustainable solutions to agriculture, food, water, and the environment. By referencing historic companies like Kodak and the evolution of telephones, he illustrated the significance of adapting to technological changes. Ultimately, Dr. Sastry conveyed the undeniable presence and impact of AI, urging the audience to appreciate its potential while remaining vigilant about its ethical use.

During the question and answer session, Dr. Sastry engaged with students on various topics. When asked to explain the basics of quantum physics, he probed into the uncertainty principle, emphasizing that knowing the position and velocity of a particle simultaneously is impossible due to inherent uncertainties. Another interesting question about the creation of an atom bomb prompted a response that referenced the Openheimer movie, highlighting the role of the nucleus, positively charged protons, and the process of nuclear fission, releasing a substantial amount of energy as described by Einstein's equation, $E=mc^2$.

Agriculture Education in India: Status, Scope, Challenges and Opportunities by Dr. V. R. Kiresur.

Dr. V.R. Kiresur highlighted the critical role of agriculture education in India, echoing Dr. M.S. Swaminathan's emphasis on its foundational importance. He provided a snapshot of the current landscape, encompassing 75 agricultural universities with diverse funding and regulatory bodies. The report emphasized the integration of technology in education, covering digital crop knowledge and smart farming simulations. Dr. Kiresur addressed the status, scope, challenges, and opportunities in agriculture education, stressing the need for students to explore diverse disciplines and seize the numerous career options available. The report also touched upon admission processes, choosing the right university, scholarships, and the alignment with the National Education Policy 2020. Overall, Dr. Kiresur encouraged students to take charge of their destinies in the dynamic field of agriculture education.



**Sadashiv Marathe Samaj Mandir, (Gomantak Vidhyalaya), Tisk, Usgao,
Dharbandora**



The MPVM Organizing Team 2023 at NIO, Dona Paula

Glimpse of Manohar Parrikar Vidnyan Mahotsav 2023:



THANK YOU