



**Dempo Charities Trust's
Dhempe College of Arts and Science
Miramar, Panaji – Goa
Department of Physics**

**Report on Inauguration of Quarks Club and Talk by Dr Santosh Kumar
Das on 'Quark particle & its recent Development in Particle Physics'**

Objective:

Objective of the Quarks Club is to provide a vibrant platform for physics students to explore concepts beyond the classroom, engage in scientific discussions, and nurture a spirit of inquiry, innovation, and research.

No. of Beneficiaries: 36 students, 07 faculty, 02 support staff

Proceedings:

The Quarks Club of Department of Physics inaugurated Quarks Club on 13th August 2025. The event began with the traditional lighting e-lamp designed and fabricated by SYBSc students under guidance of Ms Siddhi Parsekar, by the dignitaries, symbolizing knowledge, curiosity, and the spark of scientific inquiry.

The newly constituted committee members were felicitated during the function. The committee comprise of

Ms Sonal Rane -President

Mr Ronit Raj -Vice President

Ms Agnelia Fernandes - Vice Prseident

Ms Gayatri Satardekar -Secretary

Ms. Sreelalita - Joint Secretary

Ms Suhani Naik- Joint Secretary

Mr Omkar Dhuri-Treasurer

Ms Shreya Pednekar-Joint Treasurer

Ms Piyusha Tari-Joint Treasurer

Nikhil Yadav-Member

Raja Pandit-Member

Ziya Muskan-Member

Sunesh Govekar-Member

Shubham Rane-Member

Ojaswi Dhurbhatkar-Member

Prachi Chopdekar and Abhishek Verma special members

Principal Ramu Murthy addressed the audience, appreciating the initiative of the department and encouraging students to actively participate in such academic forums that shape critical thinking and innovation. Dr Swati Pawar, Head, Department of Physics highlighted the vision behind forming the club to create a platform for students to explore physics beyond the classroom.

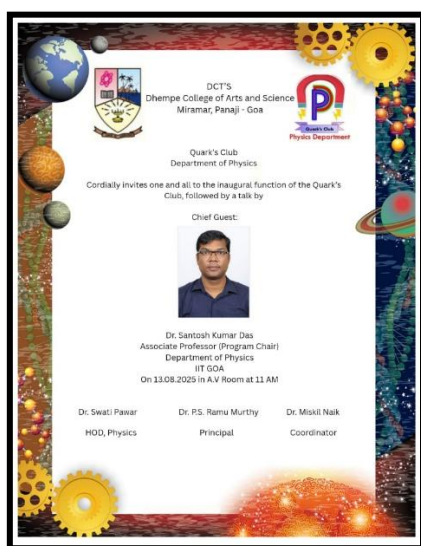
The program was graced by the presence of Dr. Santosh Kumar Das, Assistant Professor, Department of Physics, IIT, Goa. He delivered an enlightening talk on Quark Particle and its Recent Development in Particle Physics. He explained the quarks, tiny building blocks of matter and their six varieties: up, down, charm, strange, top, and bottom and how these particles combine to form protons and neutrons, forming the very foundation of the universe. Das shared latest research in particle physics. He spoke about discoveries at the Large Hadron Collider, the mysterious quark gluon plasma, and how scientists are working to better understand the strong nuclear force. His talk brought excitement among the students. The session ended with an engaging Q&A, where students eagerly asked questions ranging from the future of particle physics to its real-world applications.

Ms Sonal Rane presented Presidential address followed by 2024-25 activity report read by the secretary Ms Gayatri Satardekar. Ms Siddhi Parsekar announced names of the newly constituted members. Dr. Kapil Salkar provided technical support along with support staff of the college Mrs Nita Shetye, Mrs. Swarupa Parab, Mr. Pravin Shiroadkar, Mr Dasu Gawas. Ms Chaitra Kamble SYBSC student compered the event. Dr Miskil Naik coordinated the event.

Outcome

Quarks Club gives students an inspiring platform to go beyond textbooks and experience Physics in action.

Dr. Santosh Kumar Das's talk on quarks not only explained the fundamentals but also ignited curiosity among the students. His engaging style and real-world examples made particle physics feel exciting motivating students to think deeply and explore new possibilities in the subject.





DCT'S DHEMPE COLLEGE OF ARTS AND SCIENCE
Miramar, Panaji-Goa

Name of the Event: Quarks Club Inaugural Function, Quark Particle & its development
Date/day: 13/08/2025 - Wednesday
Venue: AV Room
Time: 11:00am - 1:30 pm

Attendees:
a) No. of Students:
b) No. of Faculty:

Sr no.	Roll No.	Name of the Student / Faculty	Class	Subject	Sign
1	2506449	Kushal Navvelkar	FY BSc	Physics	[Signature]
2	2506450	Mc Chandra F Sengupta	FY BSc	Physics	[Signature]
3	2506456	Agnieszka Fernandes	FY BSc	Physics	[Signature]
4	2506457	Dr. Shwetalika Pradmasingh	FY BSc	Physics	[Signature]
5	2506458	Saloni Gupta	FY BSc	Physics	[Signature]
6	2506459	Babulata Babubhai	FY BSc	Physics	[Signature]
7	2506460	Arshi Salunke	FY BSc	Physics	[Signature]
8	2506461	Arushi	FY BSc	Physics	[Signature]
9	2506462	Sonal Senaware	FY BSc	Physics	[Signature]
10	2506463	Bondita Suman	FY BSc	Physics	[Signature]
11	-	Mrs. Anur Sahasrabudhe	Faculty	Physics	[Signature]
12	-	Dr. Parvina Ghadi	"	Physics	[Signature]
13	-	Dr. Gulshan Suman	"	Physics	[Signature]
14	-	Dr. Mital Naik	"	Physics	[Signature]
15	-	Ms. Siddhi Patil	"	Physics	[Signature]
16	-	Dr. Kapil Sathar	"	Physics	[Signature]
17	-	Dr. Smita Patil	"	Physics	[Signature]

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Sr no.	Roll No.	Name of the Student / Faculty	Class	Subject	Sign
1	2506464	MUHAMMAD G. SUTHAR	FY BSc	Physics	[Signature]
2	2506465	Nikhil S. Vaidya	FY BSc	Physics	[Signature]
3	2506466	Hrishabh Khade	FY BSc	Physics	[Signature]
4	2506467	Sonika S. Gokhale	FY BSc	Physics	[Signature]
5	2506468	Raja Naman Pandey	FY BSc	Physics	[Signature]
6	2506469	Shubham N. Bane	FY BSc	Physics	[Signature]
7	2506470	Shashikant Lal Babubhai Patil	FY BSc	Physics	[Signature]
8	2506471	Siddhant Lakshmi	FY BSc	Physics	[Signature]
9	2506472	Rishabh Dhanekar	FY BSc	Physics	[Signature]
10	2506473	Anshu Gokhale	FY BSc	Physics	[Signature]
11	2506474	Kavita Sahani	FY BSc	Physics	[Signature]
12	2506475	Suhani Sahani Naik	FY BSc	Physics	[Signature]
13	-	Mrs. Nita Shetty	Faculty	Physics	[Signature]
14	-	Mrs. Gunavijay Parab	Faculty	Physics	[Signature]

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b) No. of Faculty:

Sr no.	Roll No.	Name of the Student / Faculty	Class	Subject	Sign
1	2506476	Sonal Uday Rane	FY BSc	Physics	[Signature]
2	2506477	Gagan Sathurkar	FY BSc	Physics	[Signature]
3	2506478	Chaitanya V. Kumbhar	"	"	[Signature]
4	2506479	Arushi Dhanekar	"	"	[Signature]
5	2506480	Prachi Chaudhary	"	"	[Signature]
6	2506481	Arushi Dhanekar	"	"	[Signature]
7	2506482	Anushka Rane	FY BSc	Physics	[Signature]
8	2506483	Hrishabh Khade	FY BSc	Physics	[Signature]
9	2506484	Arushi Dhanekar	FY BSc	Physics	[Signature]
10	2506485	Arushi Dhanekar	FY BSc	Physics	[Signature]
11	2506486	Arushi Dhanekar	FY BSc	Physics	[Signature]
12	2506487	Arushi Dhanekar	FY BSc	Physics	[Signature]
13	2506488	Arushi Dhanekar	FY BSc	Physics	[Signature]
14	2506489	Arushi Dhanekar	FY BSc	Physics	[Signature]

Dr Miskil Naik
Event Coordinator

Dr. Swati Pawar
Head, Department of Physics