



**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.

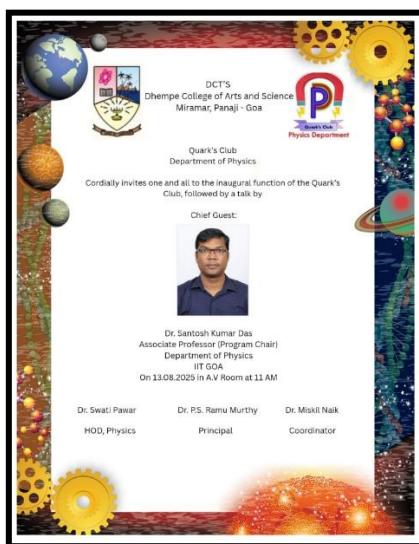
The program was graced by the presence of Dr. Santosh Kumar Das, Assistant Professor, Department of Physics, IIT, Goa. He delivered an enlightening talk on Quark Particle and its Recent Development in Particle Physics. He explained the quarks, tiny building blocks of matter and their six varieties: up, down, charm, strange, top, and bottom and how these particle 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 Shirodkar, 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				
Seminar on Quarks Club Inaugural Function & Quarks Particle & its development				
Name of the Event: Quarks Club Inaugural Function Date/day: 13/08/2025 - Wednesday Venue: AV Room Attendees: a) No. of Students: b) No. of Faculty:				
Sr.no	Roll No.	Name of the Student/Faculty	Class	Subject
1.	2506249	Kushal Marvekar	FYBSC Physics	Physics
2.	2506250	Mc Clunia F Sequeira	FYBSC Physics	Physics
3.	2506166	Agnieszka Fernandes	SYBSC Physics	Physics
4.	2506247	Shreethali Padmanigali	SYBSC Physics	Physics
5.	2506248	Saleen Gupta	FYBSC Physics	Physics
6.	2506249	Batulita Acharkar	FYBSC Physics	Physics
7.	2506250	Prajal Salaw	FYBSC Physics	Physics
8.	2506255	Gauravant	FYBSC Physics	Physics
9.	2506257	Sonal sonaware	FYBSC Physics	Physics
10.	2506258	Ronak Patel	FYBSC Physics	Physics
11.	-	Mrs. Angsu Sakharkar	FYBSC	Botany
12.	-	Dr. Pusrima Ghosh	"	Biology
13.	-	Dr. Shikha Sarmati	"	Economics
14.	-	Dr. Miskil Naik	"	Physics
15.	-	Ms. Siddhi Parikh	"	"
16.	-	Dr. Kapil Salkar	"	"
17.	-	Dr. Swati Pawar	"	"

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Sr.no.	Roll No.	Name of the Student/Faculty	Class	Subject
1.	2506263	MUJHANDE C SUTHAR	FYBSC	Physics
2.	2506265	Nikita S. Vaidav	FYBSC	Physics
3.	2506266	Harsh Thakre	SYBSC	Physics
4.	2506267	Santosh S. Gavare	SYBSC	Physics
5.	2506268	Raja Karan Pendekar	SYBSC	Physics
6.	2506269	Sidhanta U. Rane	FYBSC	Physics
7.	2506270	Shashi Lal Badatkar Patil	FYBSC	Physics
8.	2506271	Savantina Latlikee	SYBSC	Physics
9.	2506272	Rishabh Deonkar	SYBSC	Physics
10.	2506273	Arvind Gavare	SYBSC	Physics
11.	2506274	Kavita Sahare	FYBSC	Physics
12.	2506275	Suhani Suhani Shinde	FYBSC	Physics
13.	-	Mrs. Nita Shetye	Physics	Ms
14.	-	Mrs. Guravaya Patil	"	"

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Sr.no.	Roll No.	Name of the Student/Faculty	Class	Subject
1.	2506277	Sonal Uday Rane	FYBSC	Physics
2.	2506278	Capita Satakandeekar	FYBSC	Physics
3.	2506279	Chaitra V. Kankar	"	"
4.	2506280	Deeksha Dhari	"	"
5.	2506281	Prachi Chodenkar	"	"
6.	2506282	Gajani Durvathkar	FYBSC	Physics
7.	2506283	Aneesh Bhand	FYBSC	Physics
8.	2506284	Hariharan Kulkarni	FYBSC	Physics
9.	2506285	Rishabh Deonkar	FYBSC	Physics
10.	2506287	Arvind Gavare	FYBSC	Physics
11.	2506288	Kavita Sahare	FYBSC	Physics
12.	2506289	Suhani Suhani Shinde	FYBSC	Physics
13.	-	Mrs. Nita Shetye	Physics	Ms
14.	-	Mrs. Guravaya Patil	"	"

Dr Miskil Naik
Event Coordinator

Dr. Swati Pawar
Head, Department of Physics