PM-USHA – SOFT COMPONENT ACTIVITY REPORT (PROGRAMME-WISE)

1. Basic Information

Name of the College: S.K.V.T.GOVERNMENT DEGREE COLLEGE
Component: Five Days FDP Cum National Conference
Type of Activity: FDP / Conference
Title/Theme of the Programme: Five Days FDP Cum National Conference Organizing
Department: Computer Science
Date(s) of Conduct: 24-02-2026 to 28-02-2026
Duration: 10.00AM to 5.00PM
Venue: Viveka Vardhini Seminar Hall
Mode (Offline / Online / Hybrid): Hybrid

2. Objectives of the Programme :

1. **To enhance the teaching, research, and professional skills of faculty members.**
2. **To provide a platform for knowledge sharing among academicians, researchers, and industry experts.**
3. **To discuss recent trends, innovations, and challenges in the respective field.**
4. **To promote interdisciplinary research and collaboration.**
5. **To encourage faculty to publish quality research papers.**
6. **To bridge the gap between theory and practical applications.**
7. **To improve academic excellence and institutional development.**
8. **To build networking opportunities at the national level.**

3. Details of Resource Persons

	Time	Programme
Day – 1 : 24 February 2026 (Tuesday)	9:30 AM – 10:00 AM	Registration
	10:00 AM – 11:00 AM	Inaugural Ceremony
	11:00 AM – 1:00 PM	***Session – 1 : Prof. G. Bhagavannarayana*** 1. Principles of Quantum Computing and Its Potential Role in AI, ML and DL, 2. Types of Qubit Technologies and 3. Architecture of Quantum Computer
	1:00 PM – 2:00 PM	Lunch Break
	2:00 PM – 3:30 PM	***Session – 2 : Dr. Jnan Yella*** 1. Fundamentals and Mathematics of quantum computing (Hilbert space, Bloch Sphere etc.) 2. Quantum Gates, circuits and Bell States

	3:30 PM – 5:00 PM	***Session – 3 : Dr. G. Durgababu*** Quantum Optics: Rabi Model, Quantum Coherence, Jaynes Cummings Model, Quantum Optical Qubits
Day – 2 : 25 February 2026 **(Wednesday)**	9:30 AM – 11:00 AM	***Session – 1 : Prof. G. Bhagavannarayana*** 1. Quantum Computing (Applications like drug discovery, climate modelling, challenges etc) 2. Communication (BB84 QKD Protocol, Quantum Teleportation, etc.), and 3. Sensing (Transformative Applications of Quantum sensors, Ramsey Interferometry Algorithm, and Quantum protocols and estimation techniques).
	11:00 AM – 11:45 AM	Tea Break
	11:45 AM – 1:15 PM	***Session – 2 : Dr. Aswath Babu*** Quantum Computation and Algorithms techniques
	1:15 PM – 2:00 PM	Lunch Break
	2:00 PM – 3:30 PM	***Session – 3 : Dr. Damodaraiah,*** Quantum Gates and Circuits
	3:30 PM – 5:00 PM	***Session – 4 : Dr. B.Suryanarayana Devara*** IBM Quantum Composer : A Practical View
Day – 3 : 26 February 2026 **(Thursday)**	9:30 AM – 11:00 AM	***Session – 1 : Prof. G. Bhagavannarayana*** Basic techniques exploited by quantum algorithms: 1. Amplitude amplification, 2. Quantum Fourier transform (QFT) 3. Quantum Phase kick-back (QPK) 4. Quantum phase estimation (QPE) and 5. Quantum walks (QW)
	11:00 AM – 11:45 AM	Tea Break
	11:45 AM – 1:15 PM	***Session – 2: Dr. K Ephraim Babu*** Introduction to Quantum Computation - Materials
	1:15 PM – 2:00 PM	Lunch Break
	2:00 PM – 3:30 PM	***Session – 3 : Prof. G. Bhagavannarayana*** 1. Introduction on Quantum Algorithms 2. Shor's Algorithm 3. Grover's Algorithm 4. Deutsch's Algorithm 5, Deutsch -Jozsa Algorithm 6. Summary on Quantum Algorithms

	3:30 PM – 5:00 PM	***Session – 4 : Quiz – Prof. G. Bhagavannarayana*** Quiz on Quantum Technology
Day – 4 : 27 February 2026 **(Friday)** (Online)	2-00 PM – 4.00 PM 4:00 PM – 5:00 PM	***Session-1: Dr. Jnan Yella*** 1. HHL Algorithm, 2. Quantum Machine Learning Techniques - Quantum Annealing, QAOA, VQAs, VQC ***Session-2: Dr. Jnan Yella*** Hands-on Experience
Day – 5 : 28 February 2026 **(Saturday)** (Online)	2:00 PM – 3:00 PM 3:00 PM – 5:00 PM	***Session-1: Dr. Jnan Yella*** 1. Quantum Cyber Security - QKD, BB84, E91 Protocol and their applications. 2. Cardiovascular Detection 3. Diabetes Classification 4. Portfolio optimization ***Session-2: Dr. Jnan Yella*** Hands-on Experience

4. Beneficiary Details

No. of Students : 78
No of Faculty: 59
No of Non-Teaching Staff: 10
No of External Participants:
Total Participants: 147

Gender-wise Participation (if available)

Male: 76
Female: 71

5. Programme Description

1. Faculty Development Programme (FDP):
This component focuses on improving the teaching, research, and professional competencies of faculty members. It includes expert lectures, workshops, training sessions, and interactive discussions on recent advancements, teaching methodologies, and emerging technologies.

2. National Conference:
This segment provides a forum for academicians, researchers, and students from across the country to present their research papers, exchange ideas, and discuss current trends in a specific discipline. It encourages collaboration, innovation, and dissemination of knowledge.

6. Outcomes/Impact of the Programme

- **Enhanced Teaching Skills:** Faculty gain updated pedagogical methods and innovative teaching practices.
- **Research Development:** Encourages research aptitude, publication, and collaboration among participants.
- **Knowledge Enrichment:** Exposure to recent trends, technologies, and advancements in the subject area.
- **Professional Networking:** Builds connections with academicians, researchers, and industry experts.
- **Skill Upgradation:** Improves technical, analytical, and presentation skills of participants.
- **Curriculum Improvement:** Inputs from experts help in updating and enriching curriculum design.
- **Institutional Growth:** Enhances the reputation and academic standards of the organizing institution.
- **Interdisciplinary Learning:** Promotes exchange of ideas across different domains.
- **Innovation & Best Practices:** Adoption of new tools, methods, and best practices in teaching and research.
- **Motivation for Continuous Learning:** Inspires faculty towards lifelong learning and academic excellence.

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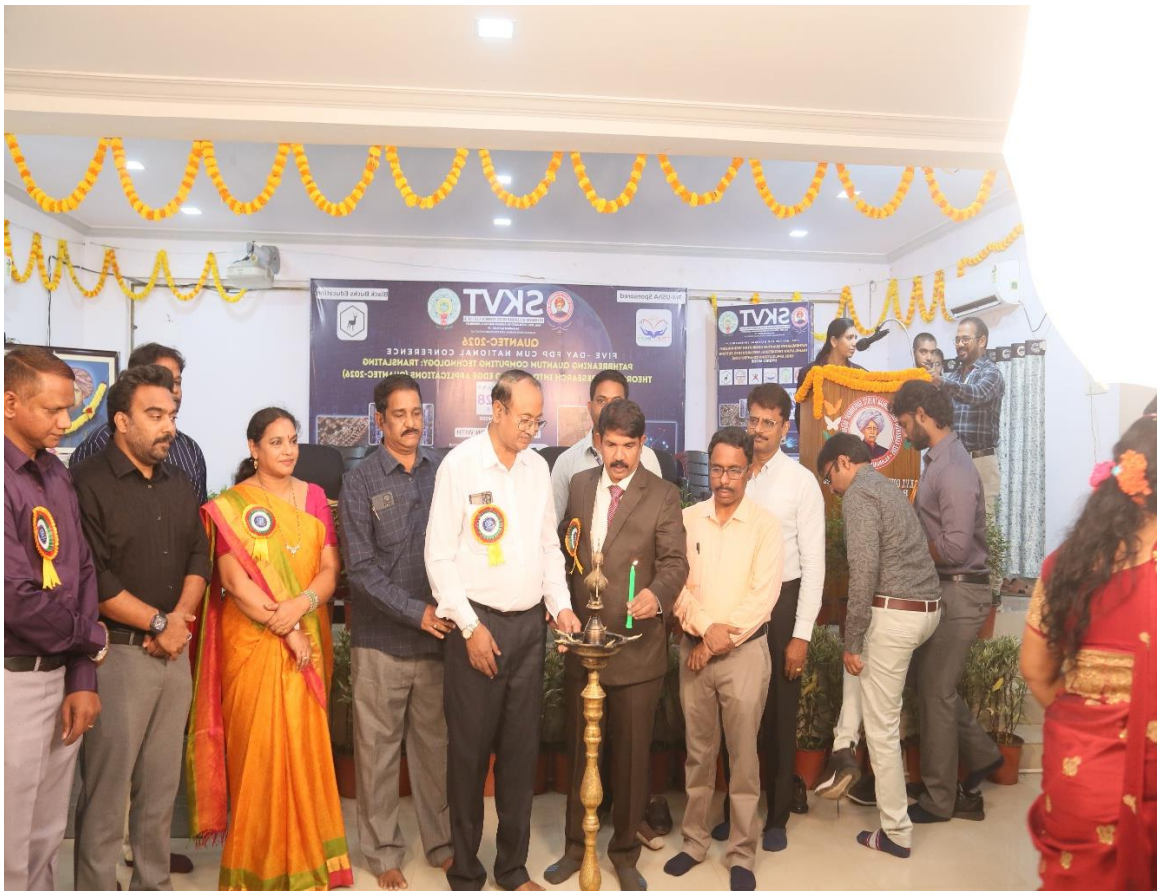
7. Photographic Evidence


KV
FEBRUARY
24-28
2026
HYBRID MODE


SKVT


FIVE -DAY FDP


QUANTEC-2026
FIVE -DAY FDP CUM NATIONAL CONFERENC


SKVT


SKVT
QUANTEC-2026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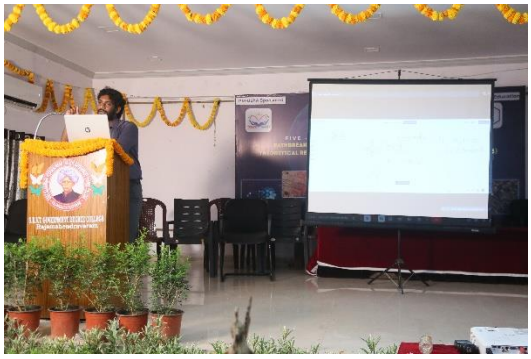
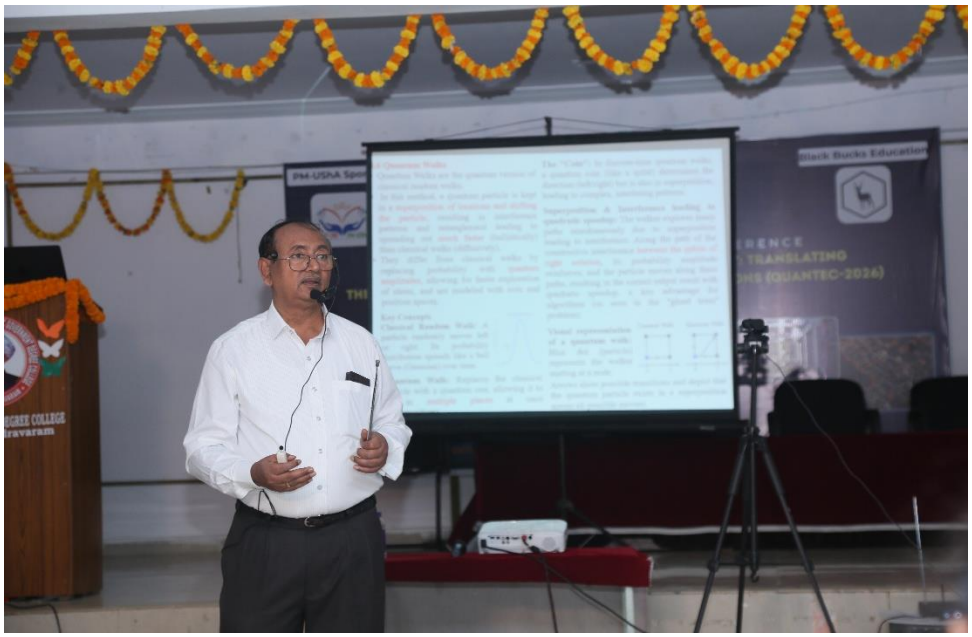
SKVT
QUANTEC-2026
FIVE -DAY FDP CUM NATIONAL CONFERENCE
S.K.V.T. GOVERNMENT DEGREE COLLEGE
Rajamahendravaram


SKVT




SKVT


Black Bucks Education


Aswath Babu (Presenting)
Aswath Babu
5:12 PM


WEBSITE SKVT
Aswath Babu
Turn on microphone (ctrl + d)
5:11 PM


Sponsored
PAULI-Z GATE
Pauli-Z Gate (Phase Flip):
• Phase-flip operation
• Leaves probabilities unchanged
• Changes relative phase
• Rotation about Z-axis on Bloch sphere
• Eives if probabilities remains the same, the state can change and become visible through interference


PM-USHA Sponsored


PM-USHA Sponsored


M-UShA Sponsored
Black Bucks Education


-UShA Sponsored
SKVT


PM-USHA Sponsored
Black Bucks Education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8. Media / Publicity (if any)

Website Link: www.skvtgdcrjy.ac.in

Newspaper Coverage: Yes

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epaper.eenadu.net

మాట్లాడారు. వైకాపా హయాంలో మిల్క్ ప్రొక్యూర్‌మెంట్ చట్టాన్ని లైసెన్సులు తీసుకునే పాలు ప్రొక్యూర్ చేసేలా ఏర్పాట్లు చేశామన్నారు.

విషాదం నెలకొంది.
- న్యూస్‌టుడే, రాజానగరం

క్వాంటమ్ టెక్నాలజీపై అవగాహన సదస్సు

రాజమహేంద్రవరం సాంస్కృతికం: రాజమహేంద్రవరం ఎస్‌కేవీటీ ప్రభుత్వ డిగ్రీ కళాశాలలో 5 రోజులపాటు క్వాంటమ్ టెక్నాలజీ, అనువర్తనాలు అంశంపై ఫ్యాకల్టీ డెవలప్‌మెంట్ ప్రోగ్రాం ప్రారంభించామని కళాశాల ప్రిన్సిపల్ బి.వి.తిరుపణ్యం తెలిపారు. కార్యక్రమానికి ముఖ్యఅతిథిగా హాజరైన నన్నయ విశ్వవిద్యాలయం తాడేపల్లిగూడెం క్యాంపస్ ప్రిన్సిపల్ ప్రొఫెసర్ టి.అశోక్ మాట్లాడుతూ క్వాంటమ్ టెక్నాలజీలో ప్రాసెసింగ్ స్పీడ్, సంప్రదాయ కంప్యూటర్లలో జరిగే స్పీడ్ కన్నా అధికంగా ఉంటుందన్నారు. కాలం ఆదా అవుతుందని, కచ్చితత్వం పెరుగుతుందన్నారు. అధ్యాపకులు, విద్యార్థులు అందిపుచ్చుకోవాలన్నారు. నన్నయ విశ్వవిద్యాలయం ఎగ్జిక్యూటివ్ కమిటీ మెంటర్ వసంతలక్ష్మి మాట్లాడుతూ క్వాంటమ్ టెక్నాలజీ దేశంలో పారిశ్రామిక రంగాన్ని విప్లవాత్మకంగా మారుస్తుందన్నారు. ప్రొఫెసర్ జి.భగవాన్ నారాయణ, జ్ఞాన్ ఎల్లా, జి.దుర్గాబాబు తదితరులు ప్రసంగించారు. కళాశాల పీఎం ఉషా కోఆర్డినేటర్ జి.శరత్‌బాబు తెలిపారు. సదస్సు వైస్ ఛైర్మన్ డి.వి.రమణమూర్తి పర్యవేక్షించారు.

Date : 25/02/2026 EditionName : ANDHRA PRADESH(EAST GODAVARI) PageNo : 03

9. **Overall Satisfaction Level: Good**
   Excellent / Very Good / Good / Satisfactory

10. Suggestions / Recommendations from Participants:
(Any suggestions for improving future programmes.)

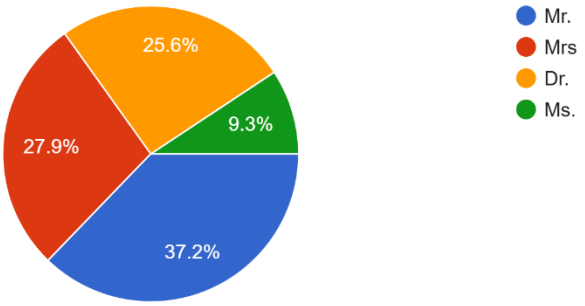
S.K.V.T.GOVERNMENT DEGREE COLLEGE RAJAMAHENDRAVARAM

FIVE-DAY FDP CUM NATIONAL CONFERENCE: PATHBREAKING QUANTUM COMPUTING TECHNOLOGY: TRANSLATING THEORETICAL RESEARCH INTO CUTTING-EDGE APPLICATIONS (QUANTEC - 2026)

Feedback from Faculty & Students

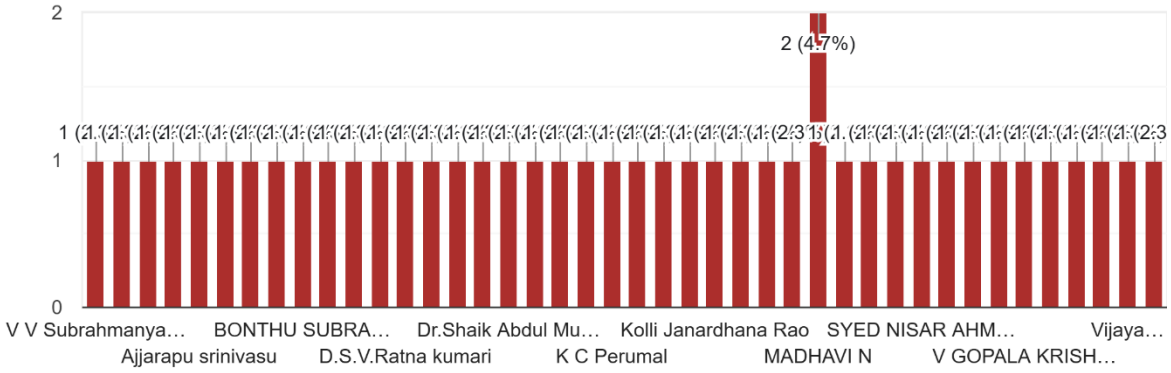
Salute

43 responses



Name of the Participant

43 responses



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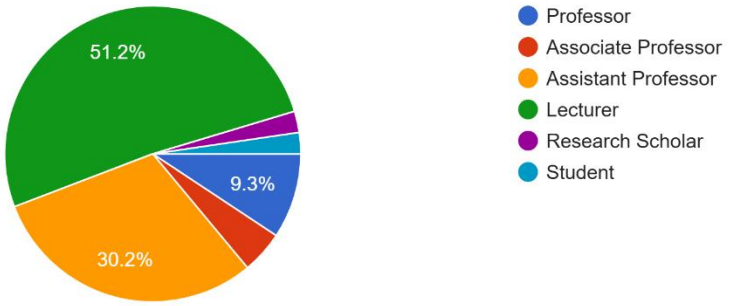
Feedback from Faculty & Students

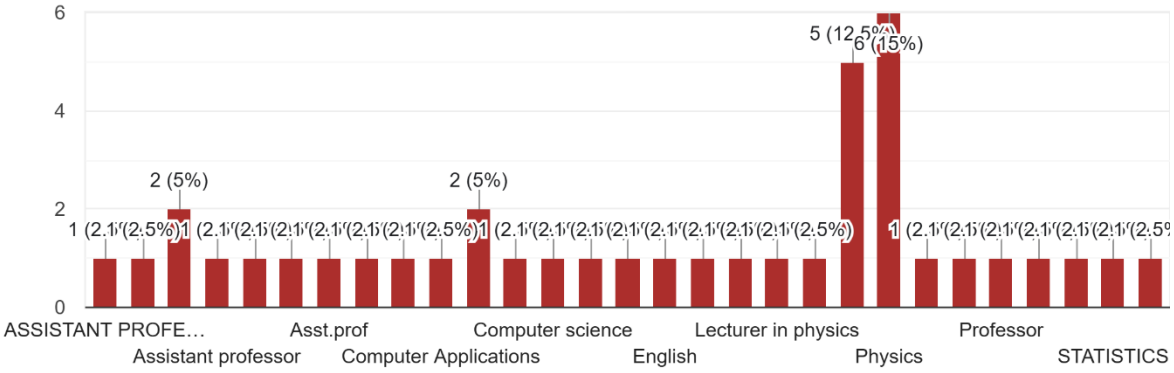
Designation

43 responses



Subject Taught (Professor/Assoc. Prof/Asst. Prof/Lecturer/Research Scholar)

40 responses



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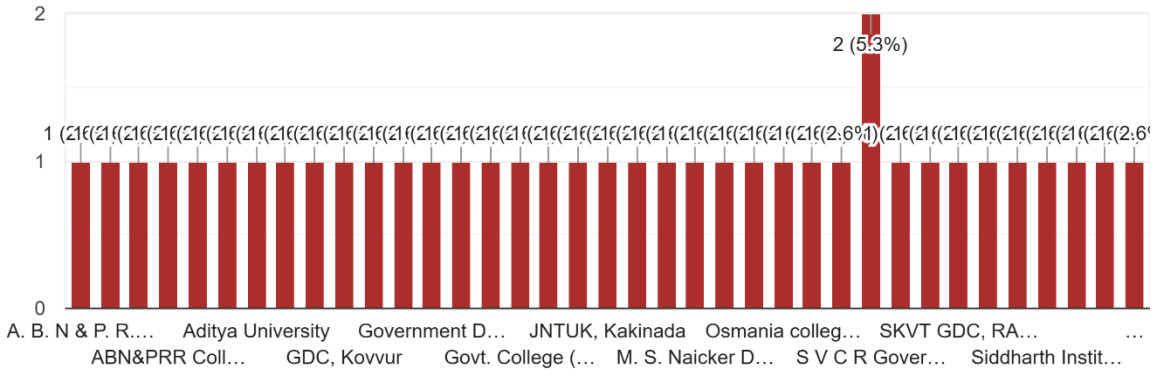
FIVE-DAY FDP CUM NATIONAL CONFERENCE: PATHBREAKING QUANTUM COMPUTING TECHNOLOGY: TRANSLATING THEORETICAL RESEARCH INTO CUTTING-EDGE APPLICATIONS (QUANTEC - 2026)

Feedback from Faculty & Students

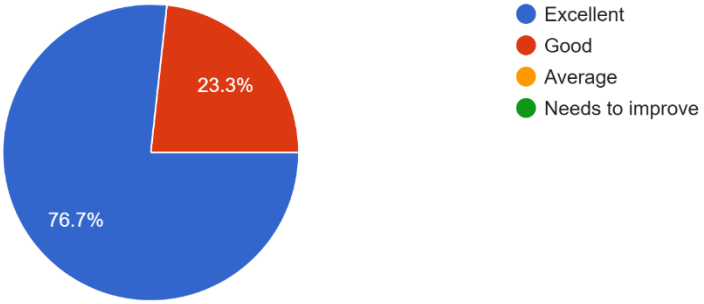
Affiliation (College/University Name & City Name - Eg. SKVT GDC, Rajamahendravaram)

38 responses



1. How would you rate the overall organization of the conference?

43 responses



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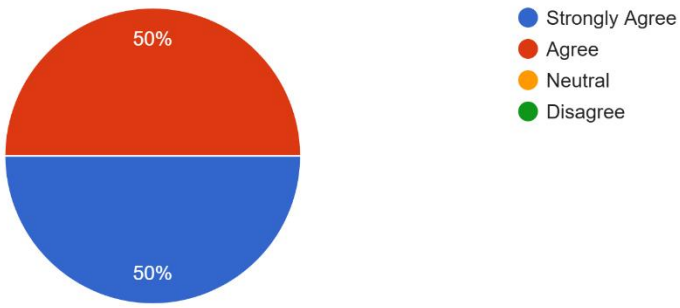
Feedback from Faculty & Students

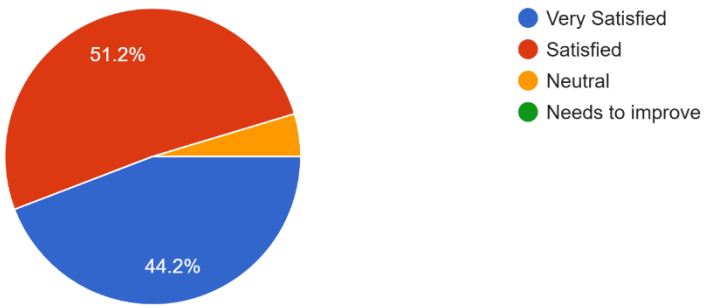
2. The conference objectives were clearly communicated and achieved.

42 responses



3.How satisfied are you with the hospitality and arrangements (venue, refreshments, etc.)?

43 responses



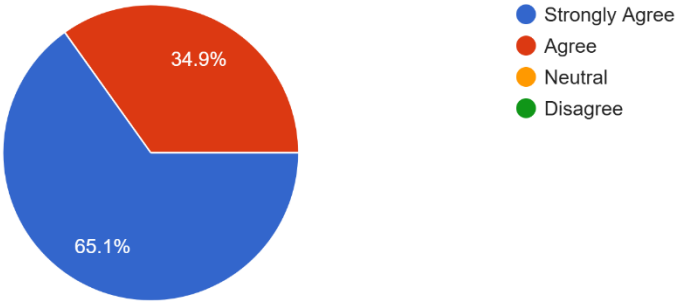
S.K.V.T.GOVERNMENT DEGREE COLLEGE RAJAMAHENDRAVARAM

FIVE-DAY FDP CUM NATIONAL CONFERENCE: PATHBREAKING QUANTUM COMPUTING TECHNOLOGY: TRANSLATING THEORETICAL RESEARCH INTO CUTTING-EDGE APPLICATIONS (QUANTEC - 2026)

Feedback from Faculty & Students

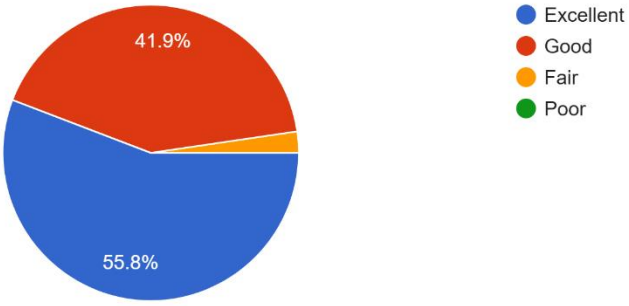
4. The sessions were relevant to the theme " Pathbreaking Quantum Computing Technology: Translating Theoretical Research Into Cutting-Edge Applications (QUANTEC - 2026) "

43 responses



5. The time management of sessions was:

43 responses



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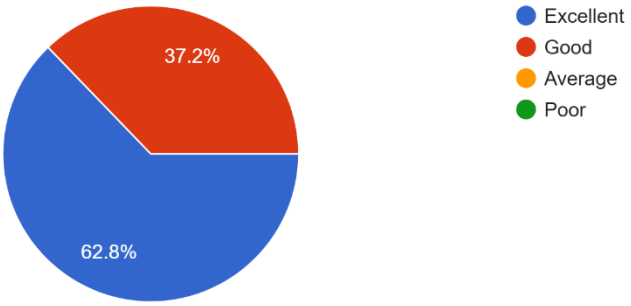
Feedback from Faculty & Students

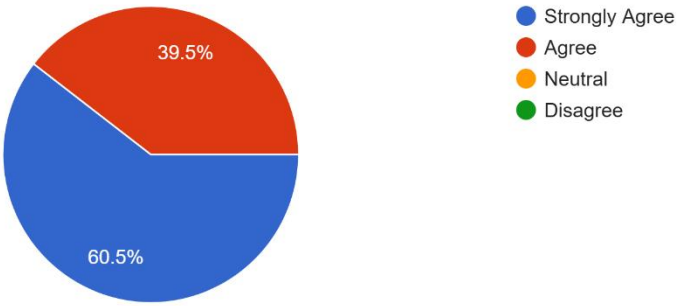
6. The quality and expertise of the invited speakers were:

43 responses



7. The presentations were informative, engaging, and well-organized.

43 responses



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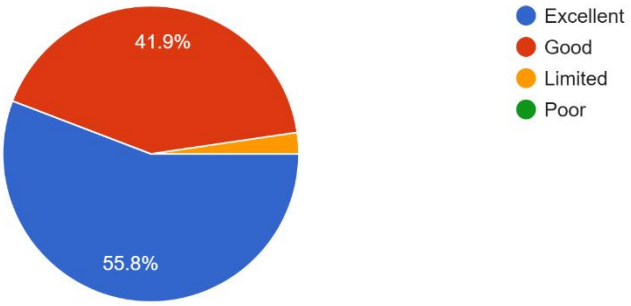
Feedback from Faculty & Students

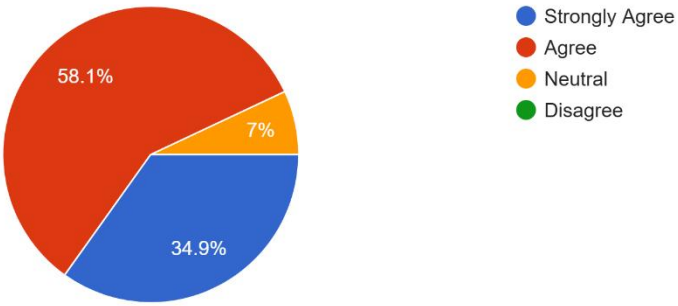
8. Interaction and discussion opportunities after each session were:

43 responses



9. The paper/poster presentation session was conducted in an organized manner.

43 responses



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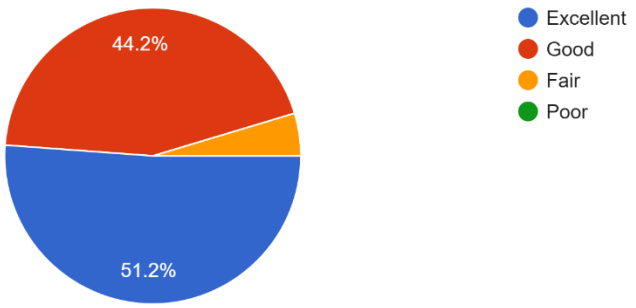
Feedback from Faculty & Students

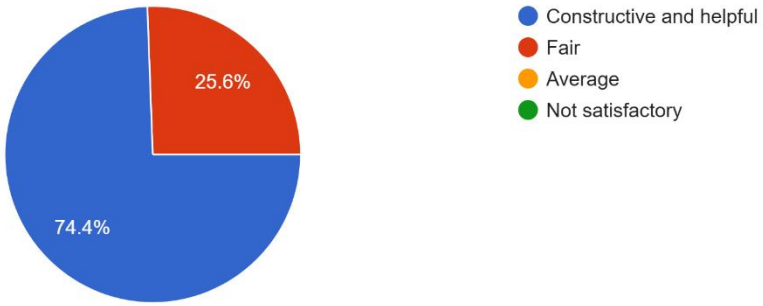
How's the Technical Support (presentation Setup, Display, Coordination) given/ acted upon.

43 responses



How was the evaluation and feedback given by the judges?

43 responses



S.K.V.T.GOVERNMENT DEGREE COLLEGE RAJAMAHENDRAVARAM

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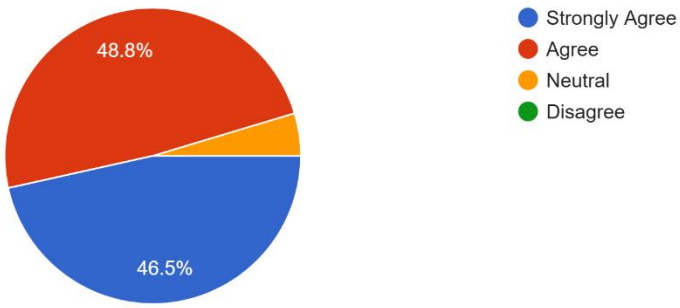
Feedback from Faculty & Students

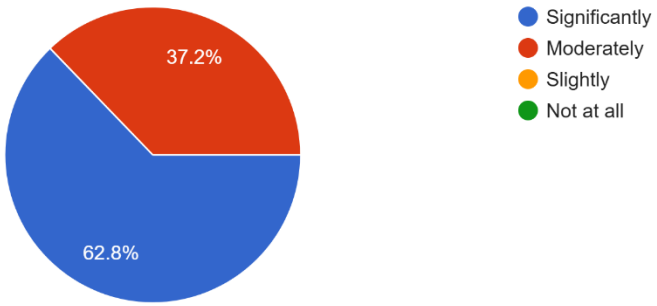
The paper/poster themes were relevant and in line with the conference theme.

43 responses



How much did the conference enhance your knowledge or research perspective?

43 responses



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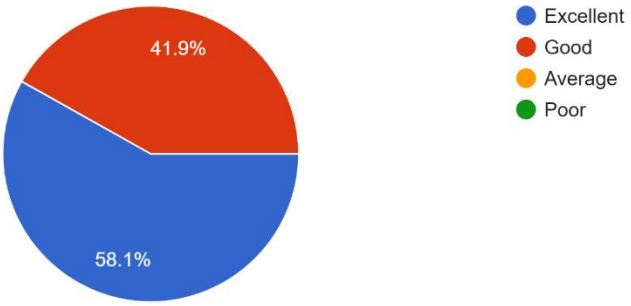
Feedback from Faculty & Students

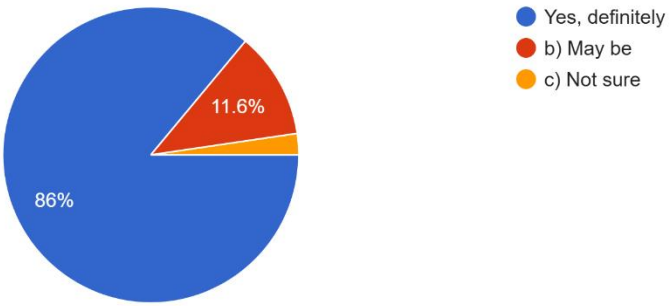
Overall satisfaction level with the two-day conference:

43 responses



Would you like to participate in similar conferences organized by SKVT GDC in the future.

43 responses



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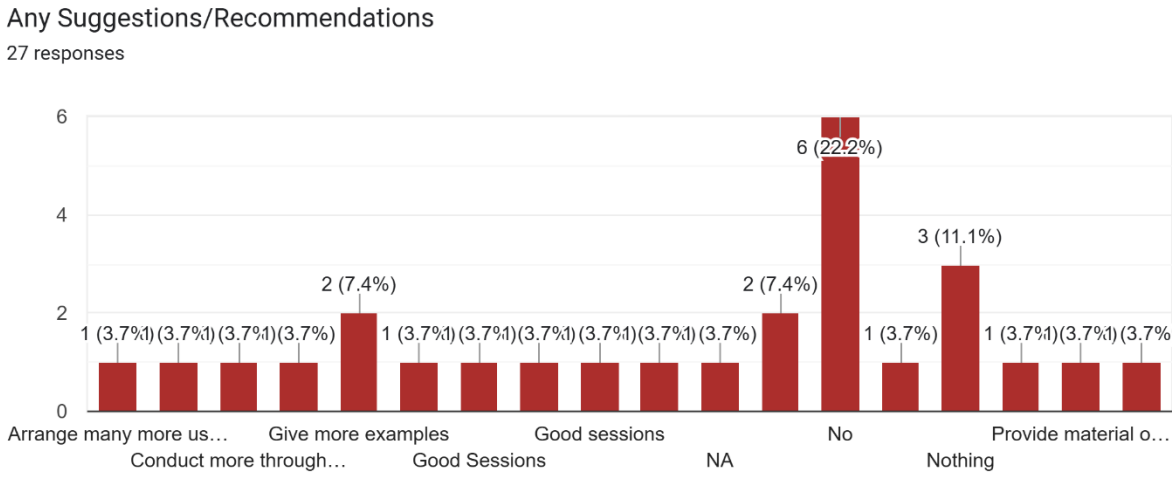
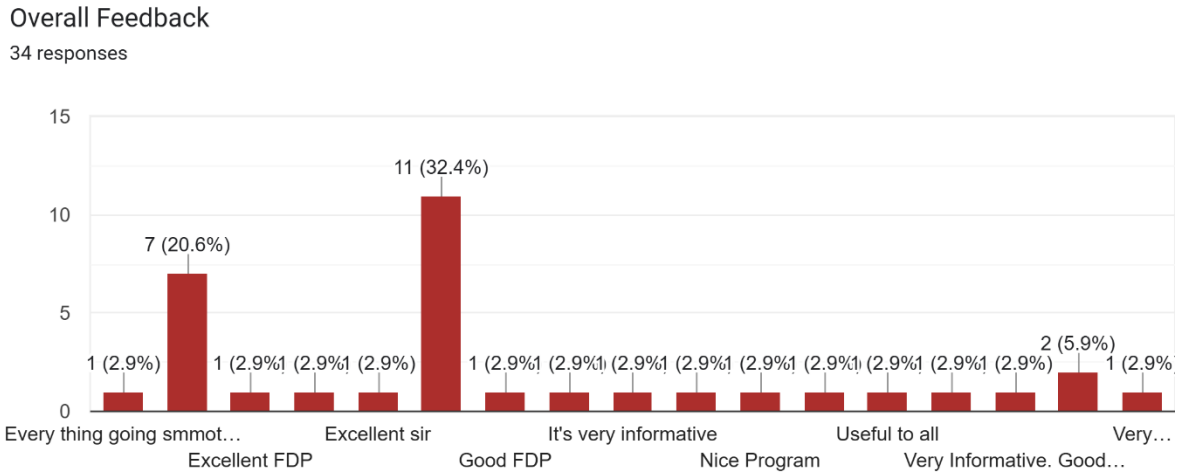
FIVE-DAY FDP CUM NATIONAL CONFERENCE: PATHBREAKING QUANTUM COMPUTING TECHNOLOGY: TRANSLATING THEORETICAL RESEARCH INTO CUTTING-EDGE APPLICATIONS (QUANTEC - 2026)

Feedback from Faculty & Students





S.K.V.T.GOVERNMENT DEGREE COLLEGE RAJAMAHENDRAVARAM

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