



PRAGATI ENGINEERING COLLEGE
(AUTONOMOUS)
DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 21-06-2025

CIRCULAR

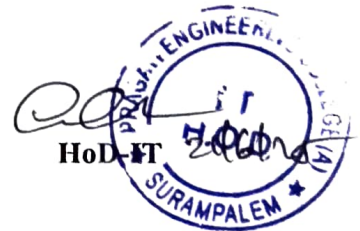
It is hereby informed to all the Students of II, III, IV B. Tech that Seminar on “**QUANTUM COMPUTING**” will be conducted on 24-06-2025. This event is organized by **SPARKWIT** club of IT Department. The students who are interested should register their names with class teacher or faculty coordinator.

Time: 11 AM to 12 PM

Link: Registration Link

Mode: Online

FACULTY CO-ORDINATOR





PRAGATI ENGINEERING COLLEGE
(AUTONOMOUS)
DEPARTMENT OF INFORMATION TECHNOLOGY

EVENT BROUCHER



PRAGATI ENGINEERING COLLEGE
[AUTONOMOUS]



DEPARTMENT OF INFORMATION TECHNOLOGY

ORGANISES A SEMINAR ON
"Quantum Computing"
EVENT REGISTRATIONS ARE OPEN
<https://forms.gle/GtD9QfXLRUTFtbF79>

STUDENT CLUB
MODE Online
DATE 24-06-25
TIME 11AM -12 PM
VENUE: IT Lab



FACULTY COORDINATOR:
Mrs.A.Manga Devi,
Assistant professor, Department of IT

STUDENT COORDINATOR:
Mr.T.Tarak Sai
Ph.no: 9390074151



Link: [Feedback Link](#)

QR Codes:

For Registration:



For Feedback:





PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY

List of students participated:

S. No	Student Name	Email	Roll No.	Department	YEAR
1	Naga Mounika Yarrabathula	mounikan237@gmail.com	24A35A4608	CSE(CS)	III year
2	A Bhuvaneswari	bhuvaneswariprasad2006@gmail.com	23A31A4601	CSE(CS)	III year
3	Lakshmi Naga Mounica	mounicaappalabhakthula004@gmail.com	24A35A4602	CSE(CS)	III year
4	M.Sri Moulika	srimumlikamagapu60@gmail.com	23A31A4607	CSE(CS)	III year
5	Medisetty Lakshmi Supriya	MedisettySupriya4@gmail.com	23A31A4609	CSE(CS)	III year
6	Bathula veeralakshmi	veeralakshmi89@gmail.com	24A35A4603	CSE(CS)	III year
7	Inakollu venkata Naveen Kumar	inakollun@gmail.com	23A31A4638	CSE(CS)	III year
8	N Krishna Santhoshi	nandivadasanthoshi@gmail.com	23a31a4611	CSE(CS)	III year
9	G V Lokesh	glokilokesh2004@gmail.com	23A31A1237	IT	III year
10	Urmila Girada	urmilagirada@gmail.com	23A31A1208	IT	III year
11	Sudheeksha Vydadi	sudheekshavydadi@gmail.com	23A31A1230	IT	III year
12	Gorantla siva	sspalt3479@gmail.com	23A31A1240	IT	III year
13	Subhakar Vallu	subhakarvallu750@gmail.com	24A35A4618	CSE(CS)	III year
14	Yarra Syamala	syamalayarra29@gmail.com	23A31A1232	IT	III year
15	V Sreechandrika	vschandrika14@gmail.com	23A31A1228	IT	III year
16	Pravallika Yaramati	pravallipravallikayaramati@gmail.com	23A31A1231	IT	III year
17	G.Harika	harikag201@gmail.com	23A31A1213	IT	III year
18	Hamsini.Puramsetti	hamsinipuramsetti@gmail.com	23A31A1221	IT	III year
19	Madhu Priya Guthula	madhu.guthula.1716@gmail.com	23A31A1222	IT	III year
20	K. Swathi sri	swathisri0008@gmail.com	23A31A1217	IT	III year
21	Navya Anjuri	devinavya260@gmail.com	23A31A1201	IT	III year
22	Hemanth p	hemanthpilli17@gmail.com	23a31a1254	IT	III year
23	Adabala raghu ram	raghuram829729@gmail.com	23A31A4625	CSE(CS)	III year
24	Iddumani Govinda yadav	govind.rock0008@gmail.com	23A31A1243	IT	III year
25	SUNKARA ASHRITHA RAMA KRISHNA	sunkaraashrithark@gmail.com	24A35A1204	IT	III year
26	K V V Bhanu Prakash	prakashbhanu0981@gmail.com	23A31A1244	IT	III year
27	Sontanam V C M Bhavani Sundari	sundari.sontanam@gmail.com	23A31A1223	IT	III year
28	G.Harichandana	chandanaagh30@gmail.com	23A31A1207	IT	III year
29	Tangi.Anjali	anjali.tangi2005@gmail.com	23A31A1226	IT	III year
30	N.Pavani	pavaninune3@gmail.com	23A31A1219	IT	III year
31	Achutha Venkata Satyanarayana	purnith662a@gmail.com	23A31A4624	CSE(CS)	III year
32	Revathi Gundarapu	revathig3527@gmail.com	23A31A1209	IT	III year
33	Daggumilli sri Venkata Lakshmi	srivenkatalakshmi49@gmail.com	23A31A1206	IT	III year
34	Bhargavi Sripathi	sripathibhargavi454@gmail.com	23A31A1224	IT	III year
35	Arangi Sowmya	arangisowmya28@gmail.com	23A31A4602	CSE(CS)	III year



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY

39	V. VISHNVI	vyshnaviadapa693@gmail.com	24A35A4601	CSE(CS)	III year
40	SHAIK NAGUR RASHA	nagurbashashaik073@gmail.com	23A31A1257	IT	III year
41	S. R. S. Ravi Chandra	sappabhagyasai@gmail.com	23A31A1234	IT	III year
42	K. Ravi	somarajugubbla@gmail.com	23A31A1241	IT	III year
43	G. V. Somaraju	nakkadevi1609@gmail.com	24A35A4605	CSE(CS)	III year
44	N. Devi	katurisneha56@gmail.com	23A31A1216	IT	III year
45	Sneha Katuru	kattasaiswarup@gmail.com	23A31A4639	CSE(CS)	III year
46	Katta Sai Swarup	rajithakarella491@gmail.com	23A31A1215	IT	III year
47	Rajitha Karella	preethamganni45@gmail.com	23A31A1239	IT	III year
48	G. Durga Preetham	harshavardhan281205@gmail.com	23A31A4648	CSE(CS)	III year
49	Harshavardhan t	rs1929289@gmail.com	23A31A4614	CSE(CS)	II year
50	P. Ramya Sri	veeravenkatasaikumar50@gmail.com	23a31a4630	CSE(CS)	III year
51	B. V. V. S. Chaitanya	dalunikesh@gmail.com	23A31A1235	IT	III year
52	DALU NIKESH	kattamaheshmahesh8@gmail.com	24A35A1208	IT	III year
53	K. Mahesh venkata sai	rrohini gayathri083@gmail.com	23A31A4605	CSE(CS)	III year
54	G. Rohini Gayathri	sambattulasnehasri@gmail.com	23A31A4618	CSE(CS)	III year
55	S. sneha sri	24a35a1205@gmail.com	24A35A1205	IT	III year
56	Ch. Pavan Kumar	vamsiy858@gmail.com	23A31A1242	IT	III year
57	Gumma Vamsi	krishnamounikavakapalli49@gmail.com	23A31A1227	IT	III year
58	Krishna Mounika Vakapalli	prabhusurya433@gmail.com	23a31a4632	CSE(CS)	III year
59	BINIBE. PRABHU SURYA	chaitanyakumar2913@gmail.com	23A31A4647	CSE(CS)	III year
60	S. Chaitanya Kumar	bodduashokkumar777@gmail.com	23a31a4633	CSE(CS)	III year
61	Boddu Ashok Kumar	sapparhenyuh6@gmail.com	24A35A4607	CSE(CS)	III year
62	Sappa Renuka Devi	kiranmayidasari1131@gmail.com	23A31A1204	IT	III year
63	Dasari Kiranmayi Sai Lakshmi	navyadeepthi.gurani@gmail.com	23A31A1211	IT	III year
64	Navya Deepthi Gurani	hasinijonnada2006@gmail.com	23A31A1214	IT	III year
65	Hasini Jonnada	vennelabeera16@gmail.com	23A31A1203	IT	III year
66	Vennela Beera	navyaramadurgam27@gmail.com	23A31A1222	IT	III year
67	R. Navya	meenavallisricharan@gmail.com	23A31A4642	CSE(CS)	III year
68	M. Sri Charan	kannijanu23@gmail.com	24A35A5604	CSE(CS)	III year
69	K. Janaki	pasupuleti vardhini34@gmail.com	23A31A4613	CSE(CS)	III year
70	Pasupuleti Vardhini	gadamsettivenkatarakesh@gmail.com	23A31A1238	IT	III year
71	G. V. Rakesh	hydrogenchloride8@gmail.com	24a35a4610	CSE(CS)	III year
72	srinivasa harsha vardhan	pujithadasireddy74@gmail.com	23A31A1205	IT	III year
73	D. Pujitha	soumyasreetalla@gmail.com	23A31A1225	IT	III year
74	Talla soumyasree	sowmyaharshitha007@gmail.com	23A31A4612	CSE(CS)	III year
75	Padala Sowmya Harshitha	saiidevipallavi.b@gmail.com	23A31A1202	IT	III year
76	Sai Devi Pallavi Bandaru	pavanijyothi30@gmail.com	24A35A1203	IT	III year
77	P. Pavani Jyothi	tanagalataraksai58@gmail.com	24A35A1211	IT	III year
78	Tanagala Tarak Sai				

Tanagala Tarak Sai (Presenting)

Classical vs Quantum Computing

Classical Computing	Quantum Computing
Uses bits (0s and 1s)	Uses qubits
Sequential processing	Parallel processing
Exponential growth in complexity	Exponential speed-up for some problems

Devi B

People

Search for people

IN THE MEETING

Contributors 79

- Devi B (You)
- Anjali Tangi Anjali
- Ashok Kumar 777
- Bhanu Prakash

Mail

Tanagala Tarak Sai (Presenting)

Challenges in Quantum Computing

- Error correction is needed
- Scalability and decoherence
- Stability and hardware constraints
- Expensive and complex infrastructure

Soumyasree Talla

Devi B

69 others

11:32 AM | etd-htw-lwy

Tanagala Tarek Sai is presen...



Q&A



Devi

Soumyasree

You

Tanag 57 others

Major Players & Platforms

- IBM Quantum Experience
- Google Quantum AI
- Microsoft Azure Quantum
- D-Wave Systems
- Amazon Braket

Real-World Applications

- Cryptography: Breaking RSA encryption
- Optimization: Portfolio optimization
- Material Science: Molecule simulation
- AI & ML: Quantum-enhanced algorithms



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)
DEPARTMENT OF INFORMATION TECHNOLOGY

Report:

- **Quantum computing** merges quantum mechanics with computer science, introducing a revolutionary way to process information.
- **Qubits**, unlike classical bits, can exist in multiple states simultaneously due to **superposition**, enabling parallel computation.
- Core principles include **superposition**, **entanglement**, and **quantum interference**, which together allow powerful and complex operations.
- **Quantum advantage** enables breakthroughs in areas like **drug discovery**, **cryptography**, **AI**, **optimization**, and **climate modeling**.
- Leading tech companies like **IBM**, **Google**, and **Microsoft** are driving advancements in quantum hardware and software.
- In **2019**, Google's **Sycamore** achieved **quantum supremacy**, solving a problem faster than any classical supercomputer.
- Major challenges include **scaling qubits**, maintaining **coherence**, and the absence of **standardized programming tools**.
- Despite being experimental, **quantum computing** promises to reshape industries and solve problems beyond classical capabilities.



FEEDBACK COLLECTED FROM STUDENTS

S No	Roll No.	Student Name	FeedBack
1	24A35A4608	Naga Mounika Yarrabathula	Excellent
2	23A31A4601	A.Bhuvaneswari	Excellent
3	24A35A4602	Lakshmi Naga Mounica	Excellent
4	23A31A4607	M.Sri Moulika	Excellent
5	23A31A4609	Medisetty Lakshmi Supriya	Excellent
6	24A35A4603	Bathula veeralakshmi	Excellent
7	23A31A4638	Inakollu venkata Naveen Kumar	Excellent
8	23a31a4611	N.Krishna Santhoshi	Good
9	23A31A1237	G.V.Lokesh	Excellent
10	23A31A1208	Urmila Girada	Good
11	23A31A1230	Sudheeksha Vydadi	Excellent
12	23A31A1240	Gorantla siva	Excellent
13	24A35A4618	Subhakar Vallu	Good
14	23A31A1232	Yarra Syamala	Excellent
15	23A31A1228	V Sreechandrika	Excellent
16	23A31A1231	Pravallika Yaramati	Excellent
17	23A31A1213	G.Harika	Excellent
18	23A31A1221	Hamsini.Puramsetti	Excellent
19	23A31A1222	Madhu Priya Guthula	Excellent
20	23A31A1217	K. Swathi sri	Excellent
21	23A31A1201	Navya Anjuri	Excellent
22	23a31a1254	Hemanth p	Excellent
23	23A31A4625	Adabala raghu ram	Good
24	23A31A1243	Iddumani Govinda yadav	Excellent
25	24A35A1204	SUNKARA ASHRITHA RAMA KRISHNA	Excellent
26	23A31A1244	K V V Bhanu Prakash	Excellent
27	23A31A1223	Sontanam V C M Bhavani Sundari	Excellent
28	23A31A1207	G.Harichandana	Excellent
29	23A31A1226	Tangi.Anjali	Excellent
30	23A31A1219	N.Pavani	Average
31	23A31A4624	Achutha Venkata Satyanarayana	Good
32	23A31A1209	Revathi Gundarapu	Excellent
33	23A31A1206	Daggumilli sri Venkata Lakshmi	Excellent
34	23A31A1224	Bhargavi Sripathi	Excellent
35	23A31A4602	Arangi Sowmya	Good
36	24A35A4601	A vyshnavi	Good
37	23A31A1257	SHAIK NAGUR BASHA	Excellent
38	23A31A1234	S.B.S.Ravi Chandra Kiran	Excellent



PRAGATI ENGINEERING COLLEGE
(AUTONOMOUS)
DEPARTMENT OF INFORMATION TECHNOLOGY

39	23A31A1241	G v somaraju	Excellent
40	24A35A4605	N.devi	Good
41	23A31A1216	Sneha Katuri	Excellent
42	23A31A4639	Katta Sai Swarup	Good
43	23A31A1215	Rajitha karella	Excellent
44	23A31A1239	G.Durga Preetham	Good
45	23A31A4648	Harshavardhan t	Good
46	23A31A4614	P.Ramya Sri	Good
47	23a31a4630	B. V. V. S. Chaitanya	Excellent
48	23A31A1235	DALU NIKESH	Excellent
49	24A35A1208	K Mahesh venkata sai	Excellent
50	23A31A4605	G.Rohini Gayathri	Excellent
51	23A31A4618	S.sneha sri	Excellent
52	24A35A1205	Ch. Pavan Kumar	Excellent
53	23A31A1242	Gumma Vamsi	Excellent
54	23A31A1227	Krishna Mounika Vakapalli	Excellent
55	23a31a4632	BINIP. PRABHU SURYA	Good
56	23A31A4647	S.Chaitanya Kumar	Good
57	23a31a4633	Boddu Ashok Kumar	Good
58	24A35A4607	Sappa Renuka Devi	Good
59	23A31A1204	Dasari Kiranmayi Sai Lakshmi	Excellent
60	23A31A1211	Navya Deepthi Gurani	Excellent
61	23A31A1214	Hasini Jonnada	Excellent
62	23A31A1203	Vennela Beera	Excellent
63	23A31A1222	R.Navya	Excellent
64	23A31A4642	M.Sri Charan	Good
65	24A35A5604	K.janaki	Excellent
66	23A31A4613	Pasupuleti Vardhini	Good
67	23A31A1238	G.V.Rakesh	Excellent
68	24a35a4610	srinivasa harsha vardhan	Good
69	23A31A1205	D.Pujitha	Excellent
70	23A31A1225	Talla soumyasree	Excellent
71	23A31A4612	Padala Sowmya Harshitha	Good
72	23A31A1202	Sai Devi Pallavi Bandaru	Excellent
73	24A35A1203	P. Pavani Jyothi	Excellent
74	24A35A1211	Tanagala Tarak Sai	Excellent



(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY

Feedback Analysis Report:

We collected feedback from all the students attended for the online session.
Student's feedback on the session is presented below:

FEEDBACK	NO OF STUDENTS
Excellent	53
Good	20
Average	1
Fair	0
Total	74

A.M. Devi

FACULTY CO-ORDINATOR

[Signature]

HoD-IT

