

REPORT

PRAGATI ENGINEERING COLLEGE

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada & Accredited by NAAC with 'A+' Grade)

#3-180, A.D.B.Road, Surampalem, Near Peddapuram-533437



“Quantum Leap: Quantum Computing with Visualization”

Date: 05-03-2026 to 07-03-2026

Day: Thursday to Saturday

Turing Club organised by the Dept. of CSE – AI&ML of Pragati Engineering College in association with Career Guidance Cell is organizing a competition on “Quantum Leap: Quantum Computing with Visualization ” as part of Industry 4.0 on 05-3-2026 to 07-3-2026.

Registration list:

S.NO	ROLL NO	NAME
1	25A31A4201	ALLU NITYA SRI RAMANI
2	25A31A4202	ANALA SRI LAXMI DIRYA SHANMUKHA SRAVANI
3	25A31A4203	BANDARI CHARANYA PRIYA VARSHINI
4	25A31A4204	BOLLA VEERADURGA BHAVANI
5	25A31A4205	DUDEKULA SANA FATHIMA
6	25A31A4206	EDARA RISHITHA
7	25A31A4207	GANGUMALLA VENKATA MRUDULA
8	25A31A4208	GUBBALA SATYA HARSHITHA
9	25A31A4209	GURRAM YAMINI SAILAKSHMI DEVI
10	25A31A4210	GUTTULA PURNA CHANDINI
11	25A31A4211	KARRI SAILAJA
12	25A31A4212	KOMMU SAILAJA
13	25A31A4213	KOTI DURGA BHAVANI
14	25A31A4214	KUNDETI SUDHA MADHURI
15	25A31A4215	MARISSETTI SOWJANYA
16	25A31A4216	NAMURI ANUSRI
17	25A31A4217	NATTE DEVISRI
18	25A31A4218	NIDADAVOLU SRI DURGA DEVI
19	25A31A4219	POLIPILLI VENKATA GOWRI
20	25A31A4220	PUTTA DEVI UMA
21	25A31A4221	RAMISSETTI AMRUTHA ISHWARYA
22	25A31A4222	RAYUDU JAHNAVI
23	25A31A4223	SATYAVARAPU AKSHAYA
24	25A31A4224	SINGARAPU SIRI
25	25A31A4225	SONTHENA LAKSHMI ARSHITHA
26	25A31A4226	TELAGANI LIKHITA
27	25A31A4228	THIVIRISSETTI SANKEERTHANA
28	25A31A4229	TIRUMALARAJU RUSHITHA
29	25A31A4230	VEDURADA CHANDRIKA JYOTHI KRISHNA VINAYA
30	25A31A4231	VESARAPU SURYA NIHITHA
31	25A31A4232	AKKINAPALLI MADHU PRASAD
32	25A31A4233	BAKKI AKHIL
33	25A31A4234	BHOGAVARAPU SANTHOSH CHAITANYA
34	25A31A4235	BUDHALA VARSHITH
35	25A31A4236	CHITTAWARJULA VENKATA SAI AVINAASH
36	25A31A4237	DEVISETTI SAI SANTHOSH
37	25A31A4238	GOLLA MOHANA KRISHNA
38	25A31A4239	GOWDU VEERA VIGNESH
39	25A31A4240	INAVELLI ASRETH SAI SATWIK
40	25A31A4241	KAKINADA PAVAN SRI SAI SANKAR RAJU
41	25A31A4243	KARRI SHANMUKHA TEJA
42	25A31A4244	KORRIPALLI MANIKANTA
43	25A31A4245	KOYYANA TEJESH KUMAR
44	25A31A4246	MALLIDI TULASI RAM
45	25A31A4247	MANDAPAKA JYOTHENDRA
46	25A31A4248	MEDISSETTI NAVEERA RAM KUMAR
47	25A31A4250	MULAPARTHI BALA RAJU
48	25A31A4251	MURAMALLA PAVAN SAI CHAITANYA
49	25A31A4253	NUKATATTI ASHIK BABU

50	25A31A4254	OLETI MAHESH BABU
51	25A31A4255	PATI VINAY SAI
52	25A31A4257	PICHUKA LIKHITH SAI MANIKANTA
53	25A31A4258	RAYUDU PURANDHAR SATYA SANDEEP
54	25A31A4259	REKADI JAYA SURYA
55	25A31A4260	SHAIK IZAZ
56	25A31A4261	TANAPATHI UDAY SAI KUMAR
57	25A31A4263	VANGA GOWTHAM SIVA CHARAN
58	25A31A4264	VANTAKULA DURGA SRI VENKAT
59	25A31A4265	VELUGULA GANGADHAR
60	25A31A4266	YADAV YUGANK
61	25A31A4267	AMARA RASHMITHA
62	25A31A4268	AMUJURI SHANMUKHI
63	25A31A4269	ANGARA LAKSHMI SRI LATHA
64	25A31A4270	ARNIPALLI SRAVANI
65	25A31A4273	BOBBILI JAHNAVI DEVI
66	25A31A4274	CHINTAPALLI LAKSHMI VAISHNAVI
67	25A31A4275	CHITIKIREDDY AMARA JYOTHI
68	25A31A4276	CHOKKA UMA KOUSALYA
69	25A31A4278	GEDDAM DEEPTHI
70	25A31A4280	JANAGAM PALLAVI
71	25A31A4281	KANNEEDI SRI SAMYUKTHA
72	25A31A4282	KARRI SAI PAVANI
73	25A31A4284	KOMARAGIRIPATNAM BHAVYA SRI DEVI
74	25A31A4285	KONA SRI GOWTHAMI
75	25A31A4286	KUNAPAREDDI HARSHINI NAGASRI
76	25A31A4287	MADDALA VINEELA
77	25A31A4288	MALLIPAMU KARUNA RATNATEJA
78	25A31A4289	MANTHENA JYOTHSNA
79	25A31A4290	MASINA SAI SPANDANA
80	25A31A4291	MOHAMMAD ARIFA YASMEEN
81	25A31A4292	MUDEDLA NAGA LAKSHMI DURGA
82	25A31A4294	PAMMI VENNELA SRI PRASANNA
83	25A31A4296	RAMBALAPU GANGA NAGA TRILOCHANA
84	25A31A4297	RASAMSETTI SUSHMA
85	25A31A4298	RAYUDU SWATHI TEJASRI
86	25A31A42A0	SINGAM MAHI CHANDANA
87	25A31A42A1	TATIPAKA HELEN SOPHIA
88	25A31A42A2	THOTA DEEPTHI
89	25A31A42A3	TURANGI HARINI
90	25A31A42A4	VEERI AKHILA DEVI
91	25A31A42A5	VEMULURI SRI LAKSHMI SATHWIK
92	25A31A42A6	ABDUL RASHEED
93	25A31A42A9	GANDI YUVARAJU
94	25A31A42B0	JAGU VENKATA SRI HARI CHARAN
95	25A31A42B1	KADIMISETTI SASI VENKATA NIKHIL
96	25A31A42B2	KANDREDDY VENKATA JAGADEESH
97	25A31A42B3	KANNURI B VIGNA V SATYA DURGA ABHINAV
98	25A31A42B4	KARUKONDA HARSHA RAJA DATTA LOKESH
99	25A31A42B5	KONDAPALLI YASWANTH LAXMI KOUSHIK
100	25A31A42B6	KURAMDASU VEERA VENKATA VISHAL

101	25A31A42B7	MADDHURI SIVA NAKESH
102	25A31A42B8	MANAM BHANU PRAKASH
103	25A31A42B9	MANE MOHITH SATYA SAI KUMAR
104	25A31A42C1	MEDAMANURI SANDEEP
105	25A31A42C2	NARALA VENKATA SRIKANTH
106	25A31A42C3	NEDUNURI SRI SATYA SAI ARUN KUMAR
107	25A31A42C4	NUNI VARUN SHASHANK
108	25A31A42C5	PATANI EMMANUEL
109	25A31A42C6	PYLA CHARAN DEV
110	25A31A42C7	SANGAMREDDY AJAY KUMAR
111	25A31A42C8	SHAIK FAKEER MOHAMMED
112	25A31A42C9	SHAIK LASID UMAR FAROOQ
113	25A31A42D1	UPPALAPATI LAKSHMI VENKAT LOKESH
114	25A31A42D2	YENUGANTI MANI SRI LOKESH
115	25A31A42D3	AMUJOORI BHAVYA SRI SAI DURGA
116	25A31A42D4	BOPPE TEJASWINI
117	25A31A42D5	CHAKKAPALLI SATYA SRI
118	25A31A42D6	CHAVVAKULA SRI ABHIRAMI
119	25A31A42D7	DARISI NISHILITHA
120	25A31A42D8	DATLA SAI ISHITHA
121	25A31A42D9	DEVATHATI MAHALAKSHMI
122	25A31A42E0	DHULIPUDI LAKSHMI SOWMYA
123	25A31A42E1	GARAGA SAI SRAVYA
124	25A31A42E2	GUTTULA SAHITYA
125	25A31A42E3	JIYYANI JEEVANA JYOTHI
126	25A31A42E4	KAKARA MAITHILI
127	25A31A42E5	KAKARLAPUDI VENKATA LAKSHMI HANSHITHA
128	25A31A42E6	KEDASI AMRUTHA
129	25A31A42E7	KONDAPALLI SRIGOWTHAMI
130	25A31A42E8	MADDUKURI JAHNAVI
131	25A31A42E9	MADDULA YASASWINI
132	25A31A42F0	MALLIDI NIKHITHA SRAVANTHI
133	25A31A42F1	MANEPALLI SAI AKSHARA
134	25A31A42F2	MEDISETTI BHARATI
135	25A31A42F3	NANDIPATI AKSHAYA SRI
136	25A31A42F4	PAKA KUNDANA VYSHNAVI LAXMI HASINI
137	25A31A42F5	PALIVELA CHARMI SAROJA
138	25A31A42F6	SALA ARUNA SRI
139	25A31A42F7	SAMMATHAM SHABARANI
140	25A31A42F8	SEELAM HEMA ISWARYA
141	25A31A42F9	SENAPATHI SYAMALA DEVI
142	25A31A42G0	TALARI SRIVIDYA
143	25A31A42G1	TALATAM MANASA PRIYA
144	25A31A42G2	TUMMA ASHA JYOTHI
145	25A31A42G3	ULAVALA NILEEMA NAGESWARI
146	25A31A42G4	ACHANTA VENKATA NAGA LOKESH
147	25A31A42G5	ADAPA GANESH
148	25A31A42G6	AMBATI SAMUEL KEERTHAN
149	25A31A42G8	BALAGAM GAGAN ROHITH
150	25A31A42H2	CHITLURI SAMEER
151	25A31A42H4	DUBA VISHAL

152	25A31A42H5	GANDHAM RAJA THRILOKESH
153	25A31A42H6	GEESALA BHANU LAXMI KANTH RAO
154	25A31A42H7	GOLTHI MANI SAI ANAND MURTHY
155	25A31A42H8	GUMMADI VAMSI SURYA BHAGAVAN
156	25A31A42H9	JANAKI MANIKANTA
157	25A31A42I0	KOLATI GOWTHAM BALAJI HANUMAN
158	25A31A42I1	KOPPULA CHARAN
159	25A31A42I2	KURAMDASU SIVA DURGA PRASAD
160	25A31A42I4	MOHAMMAD AFZAL BASHA
161	25A31A42I5	MORTHA CHARAN TEJA
162	25A31A42I6	NEELAM SRI RAM
163	25A31A42I7	NUKAPEYI SYAM ANSI KUMAR
164	25A31A42I9	PECHETTI BRAHMA KARTHIKEYA
165	25A31A42J0	POLISETTI SATYA SANTHOSH
166	25A31A42J1	RAMAVARAPU ARAVIND
167	25A31A42J2	RELLI NAVADEEP
168	25A31A42J3	SHAIK AYAAN
169	25A31A42J5	SIVAKOTI SAI VAIBHAV
170	25A31A42J6	TAPA JAYADEEP PAUL
171	25A31A42J7	VARRE S V S DURGA CHAKRADHAR
172	25A31A42J8	VITHANALA PAVAN SRI SAI VENKAT

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126	25A31A42E4	KAKARA MAITHILI
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165	25A31A42J0	POLISETTI SATYA SANTHOSH
166	25A31A42J1	RAMAVARAPU ARAVIND
167	25A31A42J2	RELLI NAVADEEP
168	25A31A42J3	SHAIK AYAAN
169	25A31A42J5	SIVAKOTI SAI VAIBHAV
170	25A31A42J6	TAPA JAYADEEP PAUL
171	25A31A42J7	VARRE S V S S DURGA CHAKRADHAR
172	25A31A42J8	VITHANALA PAVAN SRI SAI VENKAT

FEEDBACK:

Name	Roll Number	How do you rate	Speaker explanation	Content of the workshop	Other suggestions
Siri	25a31a4224	4	4	3	Good
Madhuri	25A31A4214	3	3	3	
Doppa .prasanna	25A31A4277	4	4	3	
Saranya badugu	25a31a4271	5	4	4	The teachers are really awesome and friendly I like them much
Mallipamu Karuna Ratnateja	25A31A4288	5	4	4	
Sowjanya mariseti	25A31A4215	4	3	3	
A.sravani	25A31A4270	5	4	3	
R. G. N. Trilochana	25A31A4296	5	4	4	
Vineela	25A31A4287	4	4	4	
Gandi Yuvaraju	25A31A42A9	5	5	1	This workshop is very useful for improving skills
M Sai Spandana	25A31A4290	5	5	5	
Asha Jyothi	25A31A42G2	3	3	3	
Nitya Sri Ramani Allu	25A31A4201	4	4	3	
Sankeerthana	25A31A4228	5	3	3	
M.Nikhiitha Sravanthi	25A31A42F0	4	4	4	
MEDISETTI BHARATI	25A31A42F2	4	4	3	
Tejaswini boppe	25A31A42D4	5	4	5	
Shaik fakeer mohammed	25A31A42C8	5	4	3	
Srividya	25A31A42G0	3	3	3	
Balagam Gagan Rohith	25A31A42G8	4	5	4	Good
G M S ANAND MURTHY	25A31A42H7	4	4	4	Nothing
Nandipati Akshaya sri	25A31A42F3	5	3	1	
S Sai Vaibhav	25A31A42J5	4	4	3	☒
Palivela charmi saroja	25A31A42F5	2	2	2	
Vithanala Pavan Sir Sai Venkat	25A31A42J8	4	5	4	

Janki Manikanta	25A31A42H9	4	4	4	
Janki Manikanta	25A31A42H9	4	4	4	
RAJA THRILOKESH GANDHAM	25A31A42H5	3	3	4	Thank you for the class☺☺
POLISETTI SATYA SANTHOSH	25A31A42J0	5	5	4	Can make more guidance
T Jaya Deep Paul	25A31A42J6	3	3	3	Make some more engagible
P.Prasanna	25A31A4294	3	3	3	
Rasamsetti Sushma	25A31A4297	5	5	5	Nothing
G.vamsi surya bhagavan	25A31A42H8	4	4	4	Overall ok but some what is missing that it
R ARAVIND	25A31A42J1	4	4	4	Yeah sir Better than I accepted about our sessions but I think it is better
PAKA KUNDANA VYSHNAVI LAXMI HASINI	25A31A42F4	2	2	2	
M.Sai Akshara	25A31A42F1	3	2	1	
G Bhanu Lakshmi Kanth Rao	25A31A42H6	5	5	4	Super
Neelam Sri Ram	25A31A42I6	3	3	3	Some improvement is needed in workshop
Rayudu Swathi Tejasri	25A31A4298	5	5	5	
Vishal duba	25A31A42H4	4	4	4	
Karri Sai pavani	25A31A4282	4	3	3	Overall good
Shaik Lasid Umar Farooq	25A31A42C9	5	3	1	
Varre Chakradhar	25A31A42J7	4	2	3	
Navadeep relli	25A31A42J2	4	4	5	
SHAIK AYAAN	25A31A42J3	3	3	3	
Amara Rashmitha	25A31A4267	4	3	4	☑ Good☑
Nukapeyi syam ansi kumar	25A31A42I7	3	3	3	
Samuel Ambati	25A31A42G6	5	5	5	Good
Mohammad Arifa Yasmeen	25A31A4291	5	4	5	
Md Afzal basha	25A31A42I4	3	3	3	
Darisi Nishilitha	25A31A42D7	4	4	1	
G Sai Sravya	25A31A42E1	4	4	4	
SALA Aruna sri	25a31a42f6	4	4	4	
Ch.Satya Sri	25A31A42D5	4	4	4	
TURANGI HARINI	25A31A42A3	3	3	3	Needed clear and understandable explanation
M Charan teja	25A31A42I5	4	4	4	
Velugula Gangadhar	25A31A4265	4	4	4	
Kona Sri Gowthami	25A31A4285	4	4	3	Explanation should be some what clear
G.Mohan Krishna	25A31A4238	3	4	4	Explained in creative way from basics
Ch. Uma kousalya	25A31A4276	3	3	2	Improve your explanation skills and content.
I.A.S Satwik	25A31A4240	3	4	4	Should observe and interact with everyone and use real life examples for better understanding
Datla Sai Ishitha	25A31A42D8	4	4	4	
K.Hanshitha	25A31A42E5	4	4	4	
Janagam pallavi	25A31A4280	2	2	2	Explanation should be not clear
K. Shanmukha Teja	25A31A4243	3	4	4	Explain it by step by step with basis
M.Jahnavi	25A31A42E8	4	4	4	
Koyyana Tejesh kumar	25A31A4245	4	4	4	
Chintapalli Lakshmi Vaishnavi	25A31A4274	4	3	5	None
Jiyyani Jeevana Jyothi	25A31A42E3	5	5	5	
Kunapareddi Harshini Nagasri	25A31A4286	4	4	4	
Kunapareddi Harshini Nagasri	25A31A4286	4	4	4	
Mahesh babu oleti	25A31A4254	4	4	4	
K.Charan	25A31A42I1	4	4	4	
Pyla charan dev	25A31A42C6	5	5	5	Good
K.Gowtham	25A31A42I0	4	4	4	
Maddula yasaswini	25A31A42E9	5	5	4	

M.tulasiram	25A31A4246	4	5	4	
Jyothendra mandapaka	25A31A4247	4	4	1	It's ok
Ch Sri Abhirami	25A31A42D6	4	3	5	presentation needed better explanation .
M.tulasiram	25A31A4246	4	5	5	
J V SRI HARI CHARAN	25A31A42B0	5	4	4	Basics inka baaga chepthey bagundedhi
Ajaykumar	25A31A42C7	5	4	3	
Maddhuri Siva Nakesh	25A31A42B7	4	4	4	
GUTTULA SAHITYA	25A31A42E2	4	3	3	
Patani Emmanuel	25A31A42C5	3	2	2	I cant underdtasnd
M.Bhanu prakash	25A31A42B8	3	1	3	Can improve a lot
KAKINADA PAVAN	25A41A4241	5	5	5	
ACHANTA VENKATA NAGA LOKESH	25A31A42G4	5	5	5	All is well
Shaik izaz	25A31A4260	5	5	5	
Madhu prasad	25A31A4232	4	3	4	
Narala Venkata Srikanth	25A31A42C2	3	2	2	good mentor
Sammatham shabarani	25A31A42F7	4	4	1	
B. Akhil	25A31A4233	5	3	3	
Syamala devi	25A31A42F9	5	4	1	
Kuramdasu Siva Durga Prasad	25A31A42I2	5	4	5	All is well
k lokesh	25A31A42C5	1	1	1	I cant understand
Sailaja	25A31A4211	5	4	3	
R.Jaya surya	25A31A4259	5	5	5	
TALATAM MANASA PRIYA	25A31A42G1	4	3	3	
Devathati Mahalakshmi	25A31A42D9	4	3	2	
Karukonda Harsha Raja Datta Lokesh	25A31A42B4	5	5	4	Superb
KEDASI AMRUTHA	25A31A42E6	4	3	2	
Kadimiseti Nikhil	25A31A42B1	4	4	4	Good
Varshith	25A31A4235	5	5	5	
D santhosh	25A31A4237	5	5	5	Well experienced teaching
Vignesh	25A31A4239	5	4	4	Totally good workshop
Gowtham	25A31A4263	4	4	4	
Sandeep	25A31A4258	5	5	4	
M. P. S Chaitanya	25A31A4251	5	4	4	Jyothi and sushma mam clarified doubts well
LOKESH	25A31A42D2	5	5	4	
M. Naveera Ram Kumar	25A31A4248	5	5	5	
N.ashik babu	25A31A4253	2	3	1	Sir did not explain well
VARUN	25A31A42C4	3	3	3	
UPPALAPATI LAKSHMI VENKAT LOKESH	25A31A42D1	2	2	2	
25A31A42C1	25A31A42C1	5	5	5	
T . Uday sai Kumar	25A31A4261	5	3	5	Sushma madam is very talented in explaining doubts .
Koushik. K	25a31a42b5	4	2	3	
T . Uday sai Kumar	25A31A4261	5	3	5	Sushma madam is very talented in explaining doubts .
25A31A4244	K.Manikanta	5	5	5	Nice explanation by Jyothi madam and sushma madam
Geddam Deepthi	25A31A4278	3	3	3	
S.Mahichandana	25A31A42A0	2	3	2	
Ishwarya seelam	25A31A42F8	4	4	4	Good lecture
Dudekula sana fathima	25A31A4205	4	3	3	No suggestions
SONTHENA LAKSHMI ARSHITHA	25A31A4225	3	3	3	No satisfied
Chitikireddy Amara Jyothi	25A31A4275	5	5	5	
B Jahnvi Devi	25A31A4273	5	5	5	
THOTA DEEPTHI	25A31A42A2	5	5	5	
A.L.Sri Latha	25A31A4269	2	1	1	
Shanmuki Amujuri	25A31A4268	4	3	3	

Bhavya Sri Devi	25A31A4284	2	2	2	
Kandreddy venkata jagadeesh	25A31A42B2	1	1	1	
Veeri Akhila devi	25A31A42A4	2	2	2	
M.Nagalakshmidurga	25A31A4292	3	1	2	Need more detailed,perfect,and continues explanation
Bhavya Sri Devi	25A31A4284	2	2	2	
M.BalaRaju	25A31A4250	3	3	4	
G V Mrudula	25A31A4207	5	5	5	Good
P.V.Gowti	25a31a4219	2	2	2	
Anala sravani	25a31a4202	5	5	5	
K.sailaja	25A31A4212	5	5	5	
Natte Devisri	25A31A4217	5	5	5	
Yamini G	25A31A4209	5	5	5	
Manthena Jyothsna	25A31A4289	4	4	1	
Likhita Telagani	25A31A4226	2	2	2	
Koti Durga Bhavani	25A31A4213	3	2	1	
Likhita Telagani	25A31A4226	3	3	3	
Devi Uma Putta	25A31A4220	3	3	3	
Bandari.charanya priya varshini	25A31A4203	3	3	3	
Ramisetti Amrutha Ishwarya	25A31A4221	4	2	3	Next better explanation
Jahnavi Rayudu	25A31A4222	5	5	5	
G.Purna Chandini	25A31A4210	3	2	1	
K vishal	25A31A42B6	2	1	5	Can improve a lot

Content delivered

Day1

Quantum Foundations & Core Concepts

Session 1 (1 hr) — Workshop Kickoff & Computing Paradigm Shift

Topics

- Instructor introduction & workshop overview
- Evolution of computing: Mechanical → Classical → Quantum
- Moore's law slowdown and complexity challenges
- Problems difficult for classical systems (factoring, optimization, simulation)

Session 2 (1 hr) — Mathematical & Physics Prerequisites

Topics

- Complex numbers refresher
- Vector spaces & Dirac notation
- Probability amplitudes vs classical probability
- Introduction to quantum mechanics concepts

Session 3 (1 hr) — Qubits & Superposition

Topics

- Classical bit vs qubit
- Bloch sphere visualization
- Superposition principle
- State representation

Session 4 (1 hr) — Measurement & Quantum State Collapse

Topics

- Quantum measurement postulate
- Probability amplitude → probability
- State collapse phenomenon
- Measurement examples

Session 5 (1 hr) — Entanglement & Quantum Correlation

Topics

- Definition and intuition
- Bell states

- Non-local correlations
- Impact on computation

Session 6 (1 hr) — Quantum Gates & Circuit Model

Topics

- Quantum circuit model overview
- Single qubit gates (X, Y, Z, H, S, T)
- Multi-qubit gates (CNOT, Toffoli)
- Reversible computation

DAY 2:

Session 7 (1 hr) — Building Quantum Circuits

Topics

- Circuit composition
- Circuit depth and complexity
- Visualization techniques
- Example circuits

Session 8 (1 hr) — Quantum Programming Introduction

Topics

- Quantum SDK overview (Qiskit / Cirq)
- Simulator vs real quantum hardware
- Environment setup
- First quantum program

Session 9 (1 hr) — Quantum Parallelism & Interference

Topics

- Computational advantage intuition
- Parallel state evaluation
- Constructive & destructive interference

Session 10 (1 hr) — Deutsch & Deutsch–Jozsa Algorithms

Topics

- Problem formulation
- Classical vs quantum solution
- Circuit walkthrough
- Complexity comparison

Session 11 (1 hr) — Grover's Search Algorithm

Topics

- Unstructured search problem
- Amplitude amplification
- Oracle concept
- Performance benefits

Session 12 (1 hr) — Shor's Algorithm (Conceptual)

Topics

- Integer factorization challenge
- Quantum Fourier Transform intuition
- Cryptography implications
- Practical constraints

DAY 3:

Session 13 (1 hr) — Quantum Hardware & Architectures

Topics

- Superconducting qubits
- Ion traps
- Photonic quantum computing
- Error sources and decoherence

Session 14 (1 hr) — Quantum Error Correction & Noise

Topics

- Noise models
- Error types
- Basic error correction concepts
- NISQ era challenges

Session 15 (1 hr) — Quantum Applications & Industry Use Cases

Topics

- Optimization
- Drug discovery
- Finance

- Logistics
- Machine learning

Session 16 (1 hr) — Capstone Lab & Workshop Wrap-Up

Capstone

Participants choose one:

- Build Bell state circuit
- Implement mini Grover search
- Quantum random number generator

DAY 1:

The first day of the workshop focuses on building a strong conceptual foundation in quantum computing. It begins with the workshop kickoff and an introduction to the instructor and the overall objectives of the program. Participants learn about the evolution of computing from mechanical systems to classical computers and finally to quantum computing. The discussion also highlights the slowdown of Moore's Law and the growing complexity challenges faced by classical computers, especially in solving problems such as factoring, optimization, and large-scale simulations. A group discussion is conducted to explore situations where classical computing struggles. The day then moves into the mathematical and physics prerequisites required to understand quantum computing concepts, including a refresher on complex numbers, vector spaces, Dirac notation, probability amplitudes, and basic principles of quantum mechanics. Participants are introduced to qubits and the concept of superposition, along with visualization of quantum states using the Bloch sphere. The sessions further explain the quantum measurement postulate, the conversion of probability amplitudes into probabilities, and the phenomenon of quantum state collapse with practical examples and exercises. Another important topic covered is quantum entanglement and quantum correlation, including Bell states and non-local correlations, along with a conceptual simulation activity. The day concludes with an introduction to quantum gates and the quantum circuit model, where participants learn about single-qubit gates such as X, Y, Z, H, S, and T, as well as multi-qubit gates like CNOT and Toffoli. Exercises are provided to analyze the effects of quantum gates on quantum states.

DAY 2:

The second day focuses on practical implementation and fundamental quantum algorithms. Participants begin by learning how to build quantum circuits, including concepts such as circuit composition, circuit depth, complexity, and visualization techniques. They also study example circuits and perform hands-on activities to build simple quantum circuits using a software development kit. The next session introduces quantum programming using platforms such as Qiskit or Cirq, where participants learn about simulators and real quantum hardware, environment setup, and the structure of a basic quantum program. During the lab session, participants implement simple programs such as a Hello-Qubit program and a superposition circuit. The workshop then introduces the concept of quantum parallelism and interference, explaining how quantum systems can evaluate multiple states simultaneously and how constructive and destructive interference contribute to computational

advantages. Participants also explore important quantum algorithms such as the Deutsch and Deutsch–Jozsa algorithms, learning about their problem formulation, circuit design, and performance comparison with classical approaches. A lab session allows participants to implement the Deutsch algorithm. The day continues with Grover’s search algorithm, which demonstrates how quantum computing can speed up unstructured search problems through amplitude amplification and the use of an oracle. Participants perform simulations of Grover’s algorithm for small search spaces to understand its working.

DAY 3:

The third day focuses on advanced quantum algorithms, hardware technologies, and real-world applications. It begins with a conceptual discussion of Shor’s algorithm, which is designed for efficient integer factorization and has significant implications for modern cryptography. Participants learn about the intuition behind the Quantum Fourier Transform and discuss the practical constraints of implementing Shor’s algorithm on current quantum hardware, along with the emerging need for post-quantum cryptography. The workshop then explores different quantum hardware architectures such as superconducting qubits, ion traps, and photonic quantum computing systems. Participants also learn about common challenges in quantum hardware, including noise, decoherence, and error sources, with examples from leading technology companies such as IBM, Google, and IonQ. Another session introduces quantum error correction and noise management, covering noise models, types of errors, and basic error correction concepts in the current NISQ (Noisy Intermediate-Scale Quantum) era, supported by a demonstration of noise simulation. The day also highlights the growing applications of quantum computing in areas such as optimization, drug discovery, finance, logistics, and machine learning, followed by a brainstorming activity on potential use cases. The workshop concludes with a capstone lab and wrap-up session, where participants apply their knowledge by implementing a small project such as building a Bell state circuit, creating a mini Grover search implementation, or developing a quantum random number generator.

PHOTOS:







ప్రగతిలో క్వంటమ్ కంప్యూటింగ్ పై వర్క్ షాప్

గండేపల్లి మార్చి 7(ప్రభాతవార్త): ప్రగతి ఇంజనీరింగ్ కళాశాల సి.ఎస్.ఇ. ఆర్టిఫిషియల్ ఇంటెలిజెన్స్ మెషిన్లెర్నింగ్ విభాగం ఆధ్వర్యంలో బి.టెక్ మొదటి సంవత్సరం సి.ఎస్.ఇ. ఆర్టిఫిషియల్ ఇంటెలిజెన్స్ మెషిన్లెర్నింగ్ విభాగం విద్యార్థిని, విద్యార్థులకు బెంగుళూరు కు చెందిన జెటాకోడింగ్ ఇన్స్టిట్యూట్ సొల్యూషన్స్ ఆధ్వర్యంలో "క్వంటమ్ లీప్ క్వంటమ్ కంప్యూటింగ్ విత్ విజువలైజేషన్" అనే అంశం పై వర్క్ షాప్ నిర్వహించామని కళాశాల చైర్మన్ డాక్టర్ పరుచూరి కృష్ణారావు తెలిపారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ తమ ప్రగతి ఇంజనీరింగ్ కళాశాలలో ఇటువంటి సూతన టెక్నాలజీల గురించి విద్యార్థులకు మొదటి సంవత్సరం నుండి అవగాహన కల్పిస్తూ వారిని భవిష్యత్తు అవసరాలకు ఉపయోగపడే మంచి ఇంజనీర్లుగా తయారు చేస్తోందని పేర్కొన్నారు. ఈ వర్క్ షాప్ లో క్వంటమ్ కంప్యూటింగ్ సూత్రాలు విద్యార్థులకు సులభంగా అర్థమయ్యే విధంగా విజువలైజేషన్ కోడింగ్ ద్వారా విశదీకరించడం జరిగిందన్నారు. ఈ కార్యక్రమం లో కళాశాల చైర్మన్ మానేజ్మెంట్ ఎం. వి. హరనాధబాబు, వైస్ ప్రెసిడెంట్ ఎం. సతీష్, చైర్మన్-అకడమిక్స్ డాక్టర్ కె.నత్యనారాయణ, ప్రిన్సిపాల్ డాక్టర్ జి.సరేష్, కంట్రోలర్ ఆఫ్ ఎగ్జామినేషన్స్ డాక్టర్ వై.జయబాబు, సి.ఎస్.ఇ. ఆర్టిఫిషియల్ ఇంటెలిజెన్స్ మెషిన్లెర్నింగ్ విభాగాధిపతి డాక్టర్ ఎ. రాధాకృష్ణ, రిసోర్స్ పర్సన్స్, ప్రోగ్రామ్ కోఆర్డినేటర్లు విద్యార్థిని విద్యార్థులు పాల్గొన్నారు.





ZETACODING INNOVATIVE SOLUTIONS, BENGALURU



Pragati Engineering College
(AUTONOMOUS)



CERTIFICATE

This Certificate Is Proudly Presented To

ANALA SRI LAXMI DIRYA SHANMUKHA SRAVANI

has successfully completed the 3-day workshop on “*Quantum Leap: Quantum Computing with Visualization*” organized by the Dept. of CSE (AI & ML), Pragati Engineering College in association with Zetacoding Innovative Solutions, held from 5th–7th March 2026.



A. Radha Krishna
Dr. A Radha Krishna
HOD CSE (AI & ML)

G Naresh
Dr. G Naresh
Principal

Majid Shaikh
Dr. Majid Shaikh
Founder & CEO





Department of CSE (AI & ML)

A Three-Days Workshop

For I Year Students

**“Quantum Leap :
Quantum Computing with Visualisation ”**

Mr. Durga Bhavani Shankar Guthula
Zetacoding Innovation Solutions, Bangalore.

Dates : 05-03-2026 to 07-03-2026



Pragati Engineering College
(AUTONOMOUS)





Learning is Supreme Deity

PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF CSE (Artificial Intelligence & Machine Learning)

PEC / Admin / Circular / 2026 / Turing CLUB

Date: 02- 03-2026

All the staff, Pragati Turing club coordinators, Second and Third year Students are informed that a seminar on **“AI poster competition on AI innovation in 2025 and future”** is being organized by Turing club & IAENG in association with career Guidance cell. The details are given below.

Date: 05-03-2026 to 07-03-2026

Time: 09:30 AM to 03:30 PM

Venue: Seminar Hall

Faculty Co-Ordinator: Mrs.L.Yamuna, Mrs. A .Srujana Jyothi

Student Co-Ordinator: Mr. Narukula Bhuvanesh (24A31A4251)

Speaker: Mr. Durga Bhavani Shankar Guthula
Zetacoding Innovation Solutions, Bangalore.

Faculty coordinator

HoD-CSE (AI&ML)

Copy to:

- 1) Chairman /All Directors / Vice President for kind information.
- 2) Vice Principal/Dean T&P for information.
- 3) All HoDs are requested to circulate among your staff members.
- 4) Convener-Career Guidance cell
- 5) Office File.