

The objective of this FDP is to harness the laws of quantum mechanics to solve problems too complex for classical computers. It helps to advance the computer vision application and make the existing algorithms quicker and more efficient

TOPICS TO BE COVERED

- 1.Introduction to Quantum Computing and Quantum optimization
- 2.Introduction to Qiskit; Recap gates, circuits
- 3.QFT, QPE, Application to Shor
- 4. Grover, QAA, QAE
- 5. QFT, QPE tutorials; Grover exercises
- 6.Quantum Machine Learning
- 7. Tutorial on classification problems; SVM demos; Graph networks demos
- 8. Quantum Operators and Quantum Circuits



ORGANIZING TEAM

CA.V.K.Dharmarajan, B.B.A., F.C.A. Secretary Dr.S.Senthil, M.E., Ph.D. Principal Dr.A.Meenakshi, M.E., Ph.D. HoD/CSE

RESOURCE PERSONS

- Dr.N.C.Shivaprakash, IISc, Bangalore
- Mr.Kathiresan Sundarappan, Former DRDO Scientist
- Dr. R. Ramalakshmi ,Associate Professor, Kalasalingam Academy
- Dr.P.Sathyaprakash, Assistant Professor- III, Sastra Deemed University
- Dr.E.SivaShankar, Associate Professor NIT, Trichy
- Dr.S.Manjula Gandhi, Associate Professor, Coimbatore Institute of Technology
- Dr. S. Balakrishnan Associate Professor VIT, Vellore
- Mr.Dinesh Babu, Brainswig Edutech
 Pvt Ltd, Chennai
- Dr.C.Jeyamala, Associate Professor Thiagarajar college of Engineering
- Mr.Abdul Riyaz, Kevell Corps, Madurai





AICTE TRAINING AND LEARNING (ATAL) SPONSORED

ONE WEEK FACULTY
DEVELOPMENT PROGRAMME
ON

"QUANTUM COMPUTING REVOLUTION: SHAPING THE FUTURE OF TECHNOLOGY"

DATE: 11.12.23 TO 16.12.23

Organized by Department of CSE



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).



http://kamarajengg.edu.in

ELIGIBILITY FOR CERTIFICATE

Certificates will be issued by AICTE Training Learning and (ATAL) academy to participants who have attended the program with minimum attendance and scored 80% minimum 60% marks in the test

TARGET AUDIENCE

members (Assistant Faculty Professors/Associate Professors/Ph.D of the AICTE approved Scholars) institutions are eligible to apply for the FDP.

come First Serve)

Registration Fee: NIL

Registration link

https://atalacademy.aicte-<u>india.org/signup</u>



ABOUT THE COLLEGE

Kamara College of Engineering and Technology (KCET), is a selffinancing Autonomous Institution UG Institution offers The programmes and 2 PG programmes. Seven Departments of this institution have been recognized as research centers by Anna University, Chennai. The Institute is accredited bv and **National** Assessment Accreditation (NAAC). Council Maximum limit - 50 participants (First Totally, Seven UG programmes got accredited by National Board Accreditation (NBA). The college is ranked 28th among India's Top Engineering College in DQ-CMR Employability TSchool Employability Index, Best Engineering College in South India for Industry Interface -2022 by CEGR, New Delhi and has been recognized as a SIRO by the Department of Industrial Research (DSIR), New Delhi.

PROGRAMME COORDIN

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