

One Week On-line  
Faculty Development Programme

On

## QUANTUM COMPUTING AND MACHINE LEARNING

30<sup>th</sup> November — 05<sup>th</sup> December, 2020

Sponsored by Faculty Development Cell, AICTE  
(Under Technical Teachers Training Scheme of AICTE)

Quantum machine learning is an emerging interdisciplinary research area at the intersection of quantum physics and machine learning. The most common use of the term refers to machine learning algorithms for the analysis of classical data executed on a quantum computer, i.e. quantum-enhanced machine learning. While machine learning algorithms are used to compute immense quantities of data, quantum machine learning increases such capabilities intelligently, by creating opportunities to conduct analysis on quantum states and systems. This includes hybrid methods that involve both classical and quantum processing, where computationally difficult subroutines are outsourced to a quantum device. These routines can be more complex in nature and executed faster with the assistance of quantum devices. Furthermore, quantum algorithms can be used to analyze quantum states instead of classical data. Beyond quantum computing, the term "quantum machine learning" is often associated with classical machine learning methods applied to data generated from quantum experiments (i.e. machine learning of quantum systems), such as learning quantum phase transitions or creating new quantum experiments. Quantum machine learning also extends to a branch of research that explores methodological and structural similarities between certain physical systems and learning systems, in particular neural networks.

Finally, researchers investigate more abstract notions of learning theory with respect to quantum information, sometimes referred to as "quantum learning theory".

*Vice Chancellor*

Prof. S. Srinivas Kumar  
Hon'ble Vice-Chancellor  
JNTUA, Anantapuramu

*Rector*

Prof. V. Bhaskar Desai  
JNTUA, Anantapuramu

*Registrar*

Prof. M. Vijaya Kumar,  
JNTUA, Anantapuramu

*University-Coordinator*

Prof. G. Prasanthi  
Director, Faculty Development & IQAC  
JNTUA, Anantapuramu

*Principal*

Prof. G.S.S.Raju,  
JNTUACE, Pulivendula

*Vice Principal*

Prof. G.V.Subba Reddy  
JNTUACE, Pulivendula

*Coordinator*

Dr. G.Murali,  
Assistant Professor  
Head of CSE Department  
JNTUACE, Pulivendula

**Organizing Committee Members**

1. Dr. S. Jessica Saritha, Asst. Professor
2. Sri.T.Niraman Babu, Asst. Professor(Adhoc)
3. Sri.K.Chandrasekhar, Asst. Professor(Adhoc)
4. Smt.B.MuniLavanya, Asst. Professor(Adhoc)
5. Smt.L.Bhavya, Asst. Professor(Adhoc)
6. Sri.M.ChennaKeshava, Asst. Professor(Adhoc)
7. Sri.M.NagaSeshudu, Asst. Professor(Adhoc)
8. Smt.V.Kavitha, Asst. Professor(Adhoc)
9. Smt.S.G.Taj, Asst. Professor(Adhoc)
10. Sri.K.V.Siva Prasad Reddy, Asst. Professor(Adhoc)
11. Smt.P.Vijayakumari, Asst. Professor(Adhoc)
12. Sri. K.Bala Chandra Reddy, Asst. Professor(Adhoc)
13. Smt.C.Prabhavathi, Asst. Professor(Adhoc)
14. Sri.D.Mathendra Reddy, Asst. Professor(Adhoc)
15. Sri.A.Naresh, Asst. Professor(Adhoc)
16. Sri.D.Raghunath Kumar Babu, Asst. Professor(Adhoc)

www.jntua.ac.in



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30<sup>th</sup> November — 05<sup>th</sup> December, 2020

Sponsored by Faculty Development Cell, AICTE  
(Under Technical Teachers Training Scheme of AICTE)

Organized by

Department of

Computer Science and Engineering  
JNTUA COLLEGE OF ENGINEERING

(Autonomous): : PULIVENDULA

Pulivendula-516390, Y.S.R.Kadapa (Dist)

&

Directorate of Faculty Development & IQAC,  
JNTUA, Anantapuramu, Andhra Pradesh.

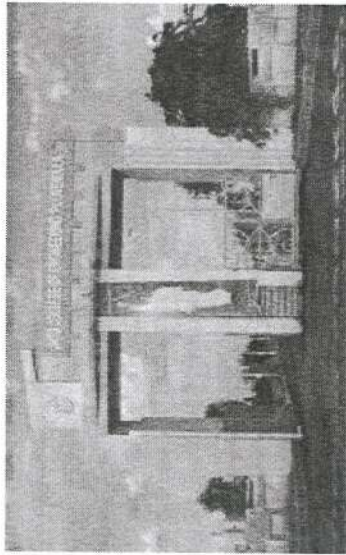
www.jntua.ac.in  
www.jntuacep.ac.in

REGISTRAR

J.N.T.U. Anantapur  
ANANTAPURAMU-51500?



### About the Institution



The foundation stone of the college was laid on 25<sup>th</sup> December 2005 by late Dr. Y. S. Raja Sekhara Reddy, former Chief Minister of A.P. The college started functioning with six branches from the academic year 2006—07, as the constituent college of the erstwhile JNTU, Hyderabad. After quadrification of JNTU in 2008, it became the constituent college of JNTUA, Ananthapuramu. Ever since, the college has been striving hard to emerge as a premier institution of excellence in the field of Science and Technology. The campus is spread over a sprawling 185 acres in a calm, serene and pollution free environment. At present, the college has got academic autonomy from the academic year 2013-14. Recently college has nominated for QEEE program by MHRD, New Delhi.

### About the Department

The Department of Computer Science and Engineering was established in the year 2006. Since its inception, the department is under dynamic progress and is able to establish the reputation for imparting quality education both at undergraduate (B.Tech) and post graduate (M.Tech) programmes. The department has well equipped modern research oriented Computer laboratories. The department has "Learn-by-Practice" environment and department concentrates on the overall development of the students. The department is provided with 4 Mbps Leased Line Internet connection and also Video

### FDP Outcomes

Participants can develop the solutions for machine learning tasks using quantum computing better than the classical machine learning approaches.

Participants can develop real world applications using quantum machine learning approaches.

### Tenue

Each participant is expected to access the online platform using a PC or Laptop at home or office on the particular FDP schedule dates. Each participants has to spend 6 to 8 hours of efforts during this FDP

### Eligibility

The faculty members from Computer Science & Engineering and related disciplines from AICTE approved institutions.

### Registration

Only online registration is available, candidates can register using link :

<https://forms.ele/m3vAnVAHvf8NT57eZ>.

The last date for registration is 26-11-2020.

The selected participants will be intimated through mail.

### No Registration Fee.

Contact Persons

T.Niranjana Babu,

Mobile no: 9052826139.



K. Bala Chandra Reddy,

Mobile no: 9494526276.

**REGISTRAR**  
**J.M.T.U. Anantapur**  
**ANANTAPURAMU-515002**

Conferencing facility. The Mission of the department is to do exemplary Research work which advances the body of the knowledge in the field of Computer Science and Engineering. The Vision of the department is exploring innovative approaches to enhance learning and to provide world-class learning and research environment through the integration of technology.

### Objective of the Workshop

The pace of development in quantum computing mirrors the rapid advances made in machine learning and artificial intelligence. It is natural to ask whether quantum technologies could boost learning algorithms; this field of inquiry is called quantum-enhanced machine learning. Machine learning has fundamentally changed the way humans interact with and relate to data, and achieved remarkable successes in many application areas. However, this revolution faces increasing challenges due to limited computational power and the growing size of datasets. Information is fundamentally governed by the laws of physics, and quantum mechanics can enhance our information-processing abilities. Unprecedented quantum advantages have been identified, such as Shor's polynomial-time quantum algorithm for factorization, which compromises the widely-used RSA cryptosystem. Motivated by this and other possible applications of quantum information, the study of the impact of quantum mechanics on information processing has become a major research area over the past two decades.

### Topics

1. Fundamentals of Quantum Computing.
2. Introduction to Quantum Machine Learning.
3. Classical Machine Learning algorithms
4. Quantum Machine Learning algorithms
5. Basics of machine learning with Tensor flow
6. Applications of Quantum Machine Learning
7. Implementations of Quantum Machine Learning Algorithms on Quantum Computers

### Speakers

Subject experts will be drawn from premier institutions like IITs, NITs and Industry experts.



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR**  
(Established by Govt. of A.P., Act.No.30 of 2008)  
**ANANTHAPURAMU - 515 002 (A.P.) INDIA**

**Dr.M. Vijayakumar,**  
M.Tech, Ph.D.,



Phone : + 918554272433  
FAX +918554 272437  
Mobile: + 91 9908 088806  
Email id: registrar@jntua.ac.in

**Registrar**

Procs No. C2/JNTUA/Estt./FDP Programme/Advance/2020

Dt.28-11-2020.

Sub:-JNTUA, ATP- Estt.- Sanction of advance of **Rs.84,000/-** to **Dr.G.Murali**, Asst.Professor of CSE Department., JNTUA CEP to incur the expenditure for conduction of Six day online Faculty Development Programme on "*Quantym computing and Machine Learning*" during period from 30-11-2020 to 05-12-2020- Orders-Issued.

Read:- 1. Note submitted by Director FD & IQAC, JNTUA, ATP, dt.25-11-2020  
2. Note orders of the Registrar, JNTUA, ATP, dt.25-11-2020 on the above said note

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**ORDER:-**

The Director Faculty Development & IQAC, JNTUA, Ananthapuramu duly forwarded a proposal submitted by the Principal, JNTUA CE Pulivendula forwarded the representation of **Dr.G.Murali**, Assistant Professor of Computer Science Engineering Department, JNTUA CEP where in he has requested for sanction advance of **Rs.84,000/-** (Rupees Eighty four thousand only) towards the expenditure for conduction of a Six Day on-line Faculty Development Programme on "*Quantym computing and Machine Learning*" during period from 30-11-2020 to 05-12-2020 at JNTUA College of Engineering, Pulivendula. She has further stated that the Director AICTE has conveyed financial approval of Rs.16,50,000/- to the University for conduction of faculty Development Programme for Teachers and Librarians during the financial year 2020-21. The details of probable expenditure to conduct the above faculty development programme are furnished as below :-

Sl.No.	Name of the Item *	Total Amount Rupees
1	Honorarium for University Co- ordinator	Rs. 3,000-00
2	Honorarium for Institute Co- ordinator	Rs. 3,000-00
3	Honorarium for resource persons (22 sessions )	Rs. 66,000-00
4	Provision for payment to Lab Attendant Engaged during During Lab practices	Rs. 2,000-00
5	Miscellaneous charges	Rs. 10,000-00
<b>TOTAL AMOUNT RUPEES:-</b>		<b>Rs. 84,000-00</b>

  
**REGISTRAR**  
**J.N.T.U. Anantapur**  
**ANANTAPURAMU-515002**

Contd....

Under the above circumstances, the Registrar, JNTUA , Ananthapuramu is pleased to accord permission for sanction of an advance of **Rs.84,000/-** (Rupees Eighty four thousand only) to Dr.G.Murali, Assistant Professor of Computer Science Engineering Department & Course Co-ordinator, JNTUA CE Pulivendula for conduction the above one week FD Programme.

After conducting the Faculty Development Programme the following documents shall be submitted by the FDP Co-ordinator Dr.G.Murali , Assistant Professor of Computer Science Engineering Department, JNTUA CE Pulivendula to the University with in one month of the completion of the programme.

- a) Detailed schedule of training programme along with the brochure.
- b) List of resource persons invited with full address, contact details, topics etc.
- c) List of participants who attended the training programme and list of the candidates who have successfully completed the programme on the basis of the test conducted and the attendance criteria.
- d) Copy of question paper and marks sheet for the test conducted at the end of programme with programme attendance.
- e) Feedback from the participants and a copy of the certificate
- f) Screen-shots and video (CD / DVD) of the sessions, google drive link and Youtube links.(in the format provided).
- g) Media reports.
- h) Original Statement of actual expenditure & Utilization Certificate in the prescribed formats along with bills /vouchers and receipts. Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address and completed in all aspects specified in the formats shared.
- i) Programme completion report along with the University proceedings.

The Accounts section is requested to pay the above sanctioned amount to Dr.G.Murali, Assistant Professor of Computer Science Engineering Department, JNTUA CE Pulivendula to enable him to conduct the programme.

The expenditure shall be met from the "AICTE STTP for Teachers Account" of the University.

  
**REGISTRAR**  
**J.N.T.U. Anantapur**  
**ANANTAPURAMU-515002**

  
**REGISTRAR**

To  
The Principal , JNTUA CE Pulivendula for information & necessary action  
Copy to Dr.G.Murali, Asst. Prof.in CSE Dept., JNTUA CEP.... through Principal, JNTUA CEP  
Copy to the Director, Faculty Development & IQAC, JNTUA, ATP for information  
Copy to F.O. i/c, JNTUA, ATP for information  
Copy to D.R. (Estt.) & D.R. (Accts), JNTUA, Ananthapuramu  
Copy to P.A. to V.C., P.A. to Rector & P.A. to Registrar  
Copy to file.



CHIEF OF THE UNIVERSITY: JNTU ANANTAPUR,  
ANANTHAPURAMU - 515002, ANDHRA PRADESH

One-Week Faculty Development Programme sponsored by Faculty Development Cell, AICTE (under Technical Teachers Training scheme of AICTE, New Delhi)

FORMAT FOR STATEMENT OF EXPENDITURE

1. AICTE File No. 34-37/FDC/STTP-TU/JNTU/2019-20 dt: 26-05-2020  
 2. E-mail to the university regarding conduct of online FDPs dt: 25-09-2020  
 3. JNTU Proc. No. C2/JNTUA/ESTT/FDPP/Programme/Advance/2020 Dt: 10-12-2020  
 Title of the Programme: One-week FDP on "Student Induction Program"  
 Dates of the Programme: 14-12-2020 to 19-12-2020  
 Name of the Unit / Institution: JNTUA College of Engineering, Anantapur  
 Name of the Co-ordinator: Prof. V.B. CHITHRA

Sanction No. & Date / University Proceedings	Grant Sanctioned Rs.	Details of expenditure Incurred Item wise	Amount Rs. (in each head)	No. of Participants	Duration Progra (with c
C2/JNTUA/ESTT./FDP Program Anantapur/2020, Dt: 10-12-2020	84,000/-	a) Honorarium for Co-ordinators [University Co-ordinator & Institute Co-ordinator]	6000-00	100	One-w 14-12- 19-12
		b) Honorarium to experts (22 sessions)	60000-00		
		c) Provision for payment to Lab Attendant engaged during lab practices	2000-00		
		d) Miscellaneous charges	6240-00		
		Total	74240-00		
		Advance	84000-00		
		Balance to be Received / Remitted Back	Rs. 9160-00		

Certified that an amount of Rs. 74,240/- (Rupees Seventy four thousand two hundred) incurred towards the conduct of the FDP at our institution.

(1) Name and Signature of Faculty Co-ordinator with Seal  
**Dr. V.B. CHITHRA**  
 M.A., M.Phil., Ph.D  
 Professor of English  
 Dept. of Humanities  
 J.N.T.U.A. College of Engineering  
 J.N.T. University, Anantapur-515002

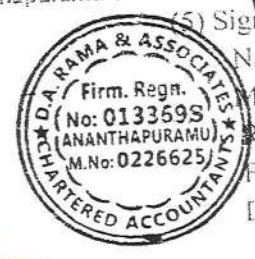
(2) Name and Signature of the HOD with Seal  
**Dr. V.B. CHITHRA**  
 M.A., M.Phil., Ph.D  
 Professor of English  
 Dept. of Humanities  
 J.N.T.U.A. College of Engineering  
 J.N.T. University, Anantapur-515002

(3) Name and Signature of the Deputy Registrar with Seal  
**S. Ranga**  
 Deputy Registrar  
 J.N.T.U.A. College of Engineering  
 ANANTHAPUR-515002

(4) Name and Signature of Head of the Institute with seal  
 Designation of Head of Institution with seal

**PRINCIPAL**  
 J.N.T.U. College of Engineering  
 ANANTAPUR-515002

**REGISTRAR**  
 J.N.T.U. Anantapur  
 ANANTHAPURAMU-515002



(5) Signature of Chartered Accountant  
 Name of Chartered Accountant: **C.A.D. ARAVIN**  
 Membership No: **10-445**  
 Full Address: **Aravir Subash R ANANTHAPURA**  
 Date: \_\_\_\_\_



NAME & ADDRESS OF THE UNIVERSITY : JNTU ANANTAPUR  
ANANTHAPURAMU - 515002, ANDHRA PRADESH

**UTILIZATION CERTIFICATE FOR THE FINANCIAL YEAR:2020 - 2021**

Name of the Scheme under which Grant was sanctioned : AICTE under Technical Teachers Training scheme of AICTE, New Delhi

AICTE File No. : (i) 34-37/FDC/STTP-TU/JNTU/2019-20 dated 26-05-2020  
 (ii) E-mail to the University regarding conduct of On-line FDPs dated 25-09-2020

Title of the Programme : STUDENT INDUCTION PROGRAM  
 Dates of the Programme : 14-12-2020 to 19-12-2020  
 Name of the Unit/Institution : JNTUA College of Engineering, Anantapur  
 Name of Co-ordinator : Prof. V.B. CHITHRA

Sl. No.	AICTE Sanction Order/Letter No. & Date under which grant was sanctioned & JNTUA Proceedings	Amount (Rs.)	
	(i) 34-37/FDC/STTP-TU/JNTU/2019-20 dated 26-05-2020  (ii) (University Proceeding No:) <u>C2/JNTUA/Estt/FDP Programmes/Advance/2020, Dt: 10-12-2020</u>	<u>84,000/-</u>	Certified that out of the grant-in-aid of Rs. <u>84,000/-</u> (in words <u>Rs eighty four thousand only</u> ) sanctioned by the AICTE during the financial year 2020-2021, in favour of <u>Prof. V.B. Chithra (Co-ordinator)</u> (Name of the Institution <u>JNTUA college of Engin Anantapur, AP</u> ) as per letters mentioned in the margin, a sum Rs. <u>74,240/-</u> has been utilized for the purpose for which it was sanctioned and the balance Rs. <u>9760/-</u> remained unutilized, refunded.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and the money was actually utilized for the purpose for which it was sanctioned. If an excess payment is noticed as a result of check or audit objection at a later stage, I have no objection for refund or adjustment or regularization of the objected amount.

1) Name, Signature and Address of Claimant/Co-ordinator:  
Dr. V.B. CHITHRA  
 M.A., M.Phil., Ph.D.  
 Professor of English  
 Dept. of Humanities  
 J.N.T.U.A. College of Engineering  
 J.N.T. University, Anantapuramu-515002

2) Name and Signature of Head of Institution:  
Dr. V.B. CHITHRA  
 M.A., M.Phil., Ph.D.  
 with seal Professor of English  
 Dept. of Humanities  
 J.N.T.U.A. College of Engineering  
 J.N.T. University, Anantapuramu-515002

3) Signature of the Finance Officer/Accounts Officer:  
S. Ranganath  
 Name of the Finance Officer/Accounts Officer:  
**Deputy Registrar**  
 J.N.T.U.A. College of Engineering  
 ANANTAPUR - 515 002

4) Name and Signature of Head of Institution:  
Dr. V.B. CHITHRA  
 Designation of Head of Institution:  
**PRINCIPAL**  
 J.N.T.U. College of Engineering  
 ANANTAPUR-515002



5) Signature of Chartered Accountant:  
D.A. RAMA  
 Name of Chartered Accountant:  
**D.A. RAMA**  
 B.Com., FCA, CISA  
 Membership No: **CHARTERED ACCOUNTANT**  
 #10-445, Aravind Arcader  
 Subash Road  
 Full Address: **ANANTHAPURAMU-515001**  
 Date: 10-12-2020

**REGISTRAR**  
 J.N.T.U. Anantapur  
 ANANTAPURAMU-515002

...0625AAAAFV1483

# All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: [www.aicte-india.org](http://www.aicte-india.org)



## STTP in collaboration with Technical University - Sanction Letter

Dated: 26.05.2020

Ref No 34-37/14/FDC/STTP-TU/JNTU/2019-20

To  
The Drawing and Disbursing Officer,  
All India Council for Technical Education,  
Nelson Mandela Marg,  
Vasant Kunj,  
New Delhi -- 110070

Sub: Release of a sum of Rs. 16,50,000/- for conduct of ten Short Term Training Programme (STTP) for teachers and 01 training program for Librarians in technical universities during the financial year 2020-21 -- reg

Sir,

This is to convey the sanction of the Council for payment of Rs. 16,50,000/- (Rupees sixteen Lakh fifty thousand only) as advance for conduct of ten STTPs for teachers and 01 training program for Librarians to Jawaharlal Nehru Technological University, Mokshagundam Visveswarayya Road, Ananthapuramu, Andhra Pradesh, under the Scheme of Short Term Training Programme in collaboration with technical universities in the country

- 1 The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to the Finance Officer/Registrar/Dean/VC/The University through RTGS
- 2 This grant-in-aid is being released in conformity with the terms & conditions as well as norms of the scheme and MoU executed between AICTE and the University as already communicated, and also being communicated in this letter.
- 3 The sanctioned amount is debitible to the Major Head 601.15(a) Gen. of the Scheme of Short Term Training Programme (Plan) and is valid for payment during the financial year 2020-21.

### The instructions/guidelines to be followed by University/Institution

#### I. Release of funds and maintenance of accounts

- a. The Finance Officer/Registrar/Dean/VC/The University and the Coordinator of the program are requested to verify the correctness of the under mentioned bank account/ RTGS details submitted by them, in which the grant is being released

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder	Account Type	Account Number	IFSC Code
AAAJJ0861G	State Bank of India	JNTU Engineering College Campus	JNTU Engineering College Campus, Ananthapuramu	Registrar	Savings	39076492371	SBIN000723

In case of any omission the same should be reported to AICTE immediately

- b. The Institute shall strictly follow the provisions laid down in the scheme document/MoU and sanction letter no F No 34-37/14/FDC/STTP-TU/JNTU/2019-20 dated 26.05.2020 issued by this office
- c. Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant
- d. The University shall maintain proper accounts of the expenditure out of the grants, which shall be utilized on approved items of expenditure
- e. The grant is intended to cover items of expenditure connected with the Short Term Training Programme such as Boarding & Lodging to the participants, TA to outstation participants, Honorarium to Course Coordinator, reading material to participants, Honorarium to resource persons, TA/DA to resource persons including outstations resource persons & working expenses (reprographic services, postage, transport, daily wages/tea/coffee etc)



- f. The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma submitted by the University. Further, the accounts of the university will be open for test check by the Council or Controller & Auditor General of India or any other officer designated by them.

## II. Disbursement of funds to University

- a. The full amount of the grant sanctioned is being released as advance to the University towards conduct of ten programs.
- b. The amount spent by the university on the conduct of STTP shall be adjusted on the basis of utilization certificate and detailed expenditure statement submitted by the University on the prescribed format along with other mandatory documents viz feedback form, copy of proceedings and completion report etc.

## III. Conduct of test and issuance of certificate

A test shall be conducted by Program Evaluation Committee (PEC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test.

## IV. Submission of documents by University

- a. The following mandatory relevant documents are required to be submitted by the university within one month of the completion of the program:-
- (i) Original Statement of actual expenditure & Utilization Certificate in the prescribed proforma duly signed by the Dean/Registrar/Vice Chancellor. Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address. Photocopies of formats are enclosed.  
The university/institution is not required to submit bills/vouchers/invoices etc for the expenditure incurred out of recurring grants. However, such copies of bills/vouchers/invoices shall be digitized by respective institutions receiving grant and uploaded scanned copies of such bills/vouchers/invoices etc on the portal for availability and view at any point of time.
  - (ii) Feedback form in the prescribed proforma
  - (iii) Copy of the proceedings and completion report.
  - (iv) List of candidates who have successfully completed the program on the basis of the test conducted by Program Evaluation Committee (PEC)
  - (v) Report submitted by Program Evaluation Committee (PEC)
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant in-aid adjusted.
- c. The university is expected to submit the above said mandatory documents viz. Utilization Certificate, Expenditure Statement and feedback form etc within one month of conduct of STTP. However, delay of further 2 months may be condoned by AICTE in special circumstances as explained by the university. Delay in submission of documents after three months of the conduct of STTP shall invite a penalty of 10% of the total sanctioned amount of the STTP, to be recovered from the University. The entire amount of grant already released, along with interest accrued thereon, shall be refunded to AICTE if mandatory documents are not submitted by the University beyond one year.

## V. General instructions

- a. Preferably 10% of the participants may be industry professionals deputed by industry.
- b. Interest, accrued on the grant released shall be refunded back to AICTE.
- c. If programme is not conducted during the financial year 2020-21, the released amount, along with interest accrued thereon, has to be returned back to AICTE.
- d. The expenditure under the Heads 'Honorarium to Course Coordinator' and 'Honorarium to Resource Persons' shall not exceed 1% & 20% respectively of the total sanctioned grant for the Program



# STATEMENT OF ACCOUNT

STATE BANK OF INDIA  
J.N.T.U. ENGG CAMPUS, ANANTAPUR  
JNTU ENGG COLLEGE ROAD  
ANANTAPUR,  
Branch Code : 2723  
Branch Phone : 272202  
IFSC: SBIN0002723  
MICR: 515002005

## THE REGISTRAR JNTUA CONSORTIA OF E-RESOURCES JNT UNIVERSITY

ANANTAPUR  
515002

Account No. : 39076492371  
Product : CA-REGULAR-PUB-OTH-ALL-INR  
Currency : INR

Date : 01/07/2020

Time : 12:30:55

E-mail :

Cleared Balance : 23,76,563.48Cr

Uncleared Amount : 0.00

+MOD Bal: 0.00

Limit : 0.00

Drawing Power : 0.00

Int. Rate : 0.00 % p.a.

Nominee Name :

Statement From 01/04/2020 to 01/07/2020

Page No. : 2

Post Date	Value Date	Details	Chq.No.	Debit	Credit	Bala
		<b>BROUGHT FORWARD :</b>				1351480.4
		INB JNTUA e Journals 62243092325 OF PRINC AT 99922 INTERNET BA				
11/06/20	11/06/20	CHQ TRFR FROM 11146142176 OF LIBR AT 12674 J.N.T.U.COL	427308		98002.00	1449482.4
12/06/20	12/06/20	CHQ TRFR FROM 39247384408 OF MJR E AT 01491 PILER	920174		98002.00	1547484.4
16/06/20	16/06/20	DEP TFR NEFT BARBA2016804608 3 BARBOVJCUDD SRI VENKATESWARA AT 04430 PAYMENT SYS			98002.00	1645486.4
19/06/20	19/06/20	CHQ TRFR FROM AT 04828 ATMAKUR ADB	583420		98002.00	1743488.4
26/06/20	26/06/20	DEP TFR C062035835710 examfe 4599435105214			1650000.00	3393488.4
29/06/20	29/06/20	AT 10521 DAU, RURAL B REMT THRU CHQ NEFT UTR NO: SBIN320 181921722 CNRB0002614 CANARA B VSN INFOMEDIA PRIVAT	352737	1016925.00		2376563.4

  
**REGISTRAR**  
J.N.T.U. Anantapur  
ANANTAPURAMU-515002

CLOSING BALANCE :

23,76,563.48Cr

Statement Summary  
Dr. Count 3

Cr. Count 14

11,15,104.00

29,11,274.00

In Case Your Account Is Operated By A Letter Of Authority/Power Of Attorney Holder, Please Check The Transaction With Extra Care.  
\*\*\* END OF STATEMENT \*\*\*

**AICTE FDC - Spencered One Week Online FDP on  
Student Induction Program  
CONDUCTED BY THE DEPARTMENT OF HUMANITIES  
JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS) ANANTHAPURAMU  
AND  
FACULTY DEVELOPMENT CELL & IQAC, JNTUA, ANANTHAPURAMU**

S.No	Name	Institute	Email-Address	Attendance	Marks	Eligibility
1	Dr. S. Gouse Mohiddin	SVCET Chittoor	gousemaths@gmail.com	100	96	yes
2	Dr. Arozuddin, Moideen	SKLUET Anantapur	aifozsklu@gmail.com	95	100	yes
3	Pankshu Chaturam Jandide	PYGS College of Engineering and Technology, Pune	pankshu_jandide@yahoo.co.in	100	90	yes
4	Anilote, Akharye	JPS University	anilote.akharye@jpsuniversity.ac.in	95	94	yes
5	BR Lakshmi	G NITS, Sheckpet, Hyderabad	brlakshmi97@gmail.com	90	96	yes
6	G. Gousia begum	Shi Venkateswara Institute of Technology, Anantapur	gousiabegum.15@gmail.com	95	98	yes
7	Mr J.S. JEHU RAJU	GOVERNMENT POLYTECHNIC COLLEGE JAMMALAMADUGU YSR KADAPA DIST	sasiraju@gmail.com	100	96	yes
8	Dr. Santoshle	J N N College of Engineering	shambhao82@gmail.com	95	98	yes
9	Dr. A. PHANIRAJA KUMAR	YSR ENGINEERING COLLEGE OF YOGI VEMANA UNIVERSITY, PRODDATUR, Kadapa Dist, Andhra Pradesh	dr.avanilak@gmail.com	90	94	yes
10	Dr. SYED HUSSAIN, HAN	GOVERNMENT POLYTECHNIC FOR MINORITIES, KURNOOL	syed_vinodh@yahoo.com	85	90	yes
11	Dr. Bharatava Rama Gowd	The Oxford College Of Engineering	rthgaur@gmail.com	80	86	yes
12	B. Ratou Rajesh	RSR Engg College	tebanuraj1986@gmail.com	95	84	yes
13	Sree Lakshmi Kalyan	RSR engineering college	sreedu.chandna2006@gmail.com	100	86	yes
14	Ms. Rajesh Srikant	JNTU Anantapur	srinada.rajesh@gmail.com	100	94	yes
15	Venkata Narayana Rao Jangam	Shri Vishnu Engineering College for Women(A)	venkatarao1984@vsw.edu.in	95	86	yes
16	Mr. Manaveera Prudhny Raju	Shri Vishnu Engineering College for Women	prudhny@vsw.edu.in	90	94	yes
17	Dr. Preetu Ranu Jena	Nesari Subhashi Technological University, Delhi	preetijana104@gmail.com	95	96	yes
18	C.V. KAVYA SUDARSHANA	RAMIREDDY SUBBARAMIREDDY COLLEGE OF ENGINEERING	kvya27@gmail.com	100	94	yes
19	Ms. Sabine Lucky	Aligarh Muslim University	sabine.lucky99@gmail.com	95	96	yes
20	Ms. T. Saraju	INTUACFA	sodapathu@gmail.com	90	86	yes
21	Mr. Vowwandi Bissa	RGUKT, R. K. Valley Campus, YDR Kadapa Dt., A.P.	visuchandu2009@ydrkty.ac.in	100	88	yes
22	VIPUL PARMARTH	GOVERNMENT POLYTECHNIC COLLEGE,SHAJAPUR	vipul_parmarth@gmail.com	95	90	yes
23	NAGARI NAVEEN KUMAR	Laxmipal Nehru Technological University Anantapur	naveen.nagar@tntu.ac.in	90	97	yes
24	PAMSEETV CHANDANA	Ananta Lakshmi Institute of Science and Technology	chandanaee23@outlook.com	95	94	yes
25	Dr. VARAJAKSHPMI	JNTUA School of Management Studies	varajakshmi.jntua@gmail.com	100	88	yes
26	R. Redha Rani	JNTUA	rekhaanurohith@gmail.com	95	92	yes
27	AVANTHI ALA	RAMIREDDY SUBBARAMI REDDY ENGINEERING COLLEGE	avanthi19@gmail.com	90	86	yes
28	G HEMANTH KUMAR	INTUA CFA Anantapur	gpkumar9106@gmail.com	100	88	yes
29	P. Gangadhara Reddy	RSR Engineering College	pgreddy86@gmail.com	95	90	yes
30	Mr. M KONDAMAH	Ramireddy Subbarami Reddy Engineering College	kondamahg1407@gmail.com	90	90	yes
31	Chitradandi Lavanya Ratna Venkata	Dr. Lankapathi Bullayya College of Engineering	lavanya2.kovimi@gmail.com	95	86	yes
32	SADHU VENKATACHIRANJEEVI	RSR Engineering college	chiranjeevsv@gmail.com	100	84	yes
33	Dr. Radhalekha Vadapalli	Dr. Lankapathi Bullayya College of Engineering	radhalekha@gmail.com	95	86	yes
34	KOTLA SHARATH KUMAR REDDY	G. Pulla Reddy Engineering College (Autonomous), Kurnoor-518007	sharathkem.1986@gmail.com	90	94	yes
35	S. Aruna	J N T university	aruna.ktc@gmail.com	100	86	yes
36	Manda soumya	RSR College	soumyamanda74@gmail.com	95	94	yes
37	Dr. A PAVANI	SRI VENKATESWARA INSTITUTE OF TECHNOLOGY	avavani.pavani5@gmail.com	90	98	yes



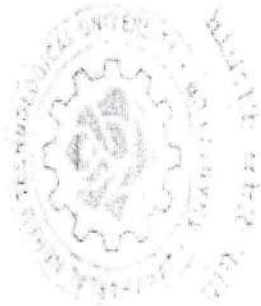
S.No	Name	Institute	Email-Address	Attendance	Marks	Eligibility
38	Kunjo Sridhar	Dr. Lakshmi Bullaya College of Engineering	ssathir336@gmail.com	95	90	Yes
39	Dr. Ch. Sumanth Kumar	GITAM Institute of Technology	sumanth336@gmail.com	100	86	Yes
40	D Madhavi	GITAM	mdhavis@gitam.edu	95	84	Yes
41	Kancheti Venkata Lakshmi	Bapatla Engineering College	lakshmi.kancheti24@gmail.com	90	86	Yes
42	Dr. Asha Mohdwar Pagarala	Bapatla Engineering College	ashamohdwar.pagarala@gmail.com	80	94	Yes
43	Dr. N Jyothi	GITAM	jyothiki@gitam.edu	85	86	Yes
44	Mr. M Badri	Stree Vidyapeethan Engineering College	badri.m@svpe.ac.in	100	94	Yes
45	KONDRAJU VENKATA SALLAVANYA	Ramincedy Subbarani Reddy engineering college kadantihala	ksallavanyag@gmail.com	95	98	Yes
46	Dr. D. Jaker Hussain	JNTUA School of Management studies	dr.jakerhussain@gmail.com	90	90	Yes
47	B ANITHA	JNTUACEA	anitha123.civil@jntua.ac.in	80	86	Yes
48	Dr.M Rana Nalk	JNTUACEA	rananalk1982@yahoo.co.in	85	84	Yes
49	K. Ragesh Sun	JNTUACEA	rageshsun_sap@gmail.com	100	86	Yes
50	SUNKESUJA VENKATKRISHNAH	JNTU ANANTAPURAMU	venkat114492@gmail.com	95	94	Yes
51	Dr.V.L.Hasee	Srikrishnadevaraya University College of Engineering and Technology	isaachasika@gmail.com	90	86	Yes
52	G. Vijaya kumar	SKS UNIVERSITY COLLEGE OF ENGINEERING AND TECHNOLOGY, SK UNIVERSITY, ANANTAPURAM	gviiveedivij@gmail.com	80	94	Yes
53	RAKOTI SRINIVASA RAO	Rajiv Gandhi University of Knowledge Technologies-III, Srikalahasti	srinivas_rkoti@gmail.com	85	98	Yes
54	M.B.C. VENKAMUN	JNTUA CE ANANTAPURAMU	konataveengamun@gmail.com	90	94	Yes
55	Dr. P. SHAYAN KUMAR	JNTUA School of Management Studies	shayanp@gmail.com	84	86	Yes
56	J. NITHYAN	JNTUA School of Management Studies	nithejha@gmail.com	92	90	Yes
57	R LAVANYA	GATES Institute of Technology	lavanya.r12001@gmail.com	80	82	Yes
58	K. Anil Kumar	JNTUA CEA Anantapur	anil_kumar@gmail.com	84	86	Yes
59	Preysita Hanurath MMVB	Sri Venkateswara College of Engineering Nellore	preysita.hanurath@gmail.com	95	86	Yes
60	A. Sathakumar	JNTUA College of Engineering, Anantapur	peyyalatharathi@gmail.com	90	84	Yes
61	J. Srathostha	J.N.N College of Engineering, Shimoga	sathostha87@gmail.com	85	80	Yes
62	P. Keasar Bashe	RGMCET, Nandyal	keasarbashe@gmail.com	80	82	Yes
63	Dr. V. Lavanya	JNTUA College of Engineering kothim	lavanya.veinapusa@gmail.com	85	80	Yes
64	RAMU YAKLAGADDA	KRR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES, GUNTUR	ramu.yaklagadda@gmail.com	95	90	Yes
65	SHABH RITHENA	PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY	shabhrithena@gmail.com	90	82	Yes
66	Dr. R Radha	Sri padmavathi mahila visva vidyalayam	radharajyessiree@gmail.com	80	86	Yes
67	Dr. A. VENUGOPAL REDDY	S. V. College of Engineering, Tirupathi	venugopal20@gmail.com	85	88	Yes
68	M. Aravinda Kumar	Gokaraju Rangaraju Institute of Engineering & Technology	aravindkumar@gmail.com	96	96	Yes
69	Dr. M Vani	Siddhartha Institute of Engineering And Technology, Puttur	vanimv@gmail.com	86	82	Yes
70	Dr. D Appalaju	Adi Kavi Nannaya University	drappaladidi@gmail.com	84	86	Yes
71	KUNDAN KULJAR JHA	PRUST Deemed to be University, Thangavur, Jamnashahda, India	peppu267@gmail.com	88	84	Yes
72	Narasreddy Gatham	Ramincedy Subbarani Reddy Engineering College	narasreddy.g@gmail.com	50	0	No
73	KOLACHANA SUBHADRA	KEN DUGREE COLLEGE	subhadra.kolachana@gmail.com	0	0	No
74	Boyalapalli Vani	Sri Venkateswara Engineering College	vani.eshter@gmail.com	45	0	No
75	G Sowmya Ratnam	RSREC	sowmya.ratnam091@gmail.com	40	0	No
76	Srishti Arora	Rubani Devi Institute of Advanced Studies	arorasrishti95@yahoo.com	30	0	No
77	Ms. Swati H. Dosham	Vivekanand Institute of Hotel and Tourism Management	swatihd@gmail.com	0	0	No
78	Mr.K.RAVIKANTH	Rajiv Gandhi University of Knowledge Technologies III- RGUKT Basar	mrkkanth2787@gmail.com	0	0	No
79	Dr. JANARDHANREDDY KASA	CBIT	krkhr@gmail.com	14	0	No
80	Madhurika Bindaraju	Keshav Memorial Institute of Technology	budharajumadhurika@gmail.com	16	0	No
81	SAIDABHANU SHAIK	Siddhartha Institute of Science And Technology, Puttur	ssbhanu.k@gmail.com	18	0	No
				22	0	No

S.No	Name	Institute	Email-Address	Attendance	Marks	Eligibility
82	Kancheti Venkata Lakshmi	Bapatla Engineering College	lakshmi.kancheti24@gmail.com	18	0	No
83	N VENKATRAMANA REDDY	ADITYA COLLEGE OF ENGINEERING MADANAPALLE	venkatramanareddy1@gmail.com	18	0	No
84	Mr Rajendra Prasad G	JNTU-ANANTAPUR	rajendra696@gmail.com	22	0	No
85	M Nagakiran	Dr K.V. Subba Reddy Institute of Technology	nagakiran113@gmail.com	18	0	No
86	DABBARA RAJESH	Stee Vydyamithan Engg College Tirupeti	rajesh_english08@gmail.com	0	0	No
87	Aswathi V Nair	Vedya Academy of Science And Technology, Kithannoor	aswathynair1@gmail.com	0	0	No
88	Mr. K. CHANDRA SHEKAR	GURU NANAK INSTITUTIONS TECHNICAL CAMPUS (Autonomous)	chandhr247@gmail.com	0	0	No
89	Rakumuru Lakshmi	RSR ENGINEERING COLLEGE	lakshmi.kakumuru@gmail.com	0	0	No
90	B JAGADEESH KUMAR	RSR ENGINEERING COLLEGE, KADANUTHALA	mdhbrtech@gmail.com	12	0	No
91	SHAIK RAMEEZ RAJA	RSR ENGINEERING COLLEGE	shaikrameezraja3@gmail.com	10	0	No
92	Shak shabana	RSr engineering college	shabana422@gmail.com	0	0	No
93	Z Lakshmi Kemple	St. Joseph's Degree and PG College Kurmool	kemple2301@gmail.com	0	0	No
94	Narendira K umar Mondem	Ramireddy Subbaramreddy Engineering College	narcondramondem3444@gmail.com	0	0	No
95	V S Sankara Rao Chunnam	Dhanyakula Institute of Engineering & Technology	sankaraochunnam@gmail.com	0	0	No
96	Ms. A. REKHA DEVI	Sri venkateswara college of Pharmacy	rekhadevisgopi11@gmail.com	10	0	No
97	Mr. ASHFAQ HUSSAIN	RAJASTHAN TECHNICAL UNIVERSITY, KOTA	ashfaqhussain691@gmail.com	12	0	No
98	DR. AIZAL HUSSAIN	MANIT, BHOPAL	ahussain591@gmail.com	14	0	No
99	S. Aritha	RSR ENGINEERING COLLEGE	hosenanandhu27@gmail.com	15	0	No
100	Mrs. Gayatri Sridharu	Revindia College of Engineering for Women, Kurmool	spandharu19@gmail.com	15	0	No

Sankaran  
 (V.B. CHITTAIA)  
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 31 10 33  
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 P. S. S. R. R.  
 J.N.T.U. Anantapur  
 ANANTAPURAMU-515002





AICTE SPONSORED FACULTY DEVELOPMENT PROGRAMME



# Certificate

This is to certify that RAKOTI SRINIVASA RAO of Faculty of English, Rajiv Gandhi University of Knowledge Technologies-IIT-Srikakulam has participated in the One-Week online FDP on "Student Induction Programme" held from 14.12.2020 to 19.12.2020 organized by the Dept. of Humanities, JNTUA College of Engineering, Ananthapuramu, A.P. INDIA, and the Directorate of Faculty Development & IQAC, JNTUA, Ananthapuramu.

*[Signature]*

Prof. V. B. Chithra

Coordinator

JNTUACE, Ananthapuramu

*[Signature]*

Prof. K. Govinda Rajulu

Principal

JNTUACE, Ananthapuram

Certificate id:KPASEY-CE000064

*[Signature]*  
(V.B. CHITHRA)

*[Stamp]*  
V  
REGISTRAR  
JNTUA  
ANANTHAPURAM

AICTE FDP on Quantum Learning and Machine Learning

## Quantum Computing and Machine Learning Online Faculty Development Programme

Quantum Computing and Machine Learning 6-Days Faculty Development Cell, AICTE, under Technical Teachers Training Scheme of AICTE sponsored workshop was conducted by All India Council of Technical Education and organized by Jawaharlal Nehru Technological University Anantapur College of Engineering, Pulivendula dated from 30<sup>th</sup> November 2020 to 5<sup>th</sup> December 2020 full day in which around 80 participants across India participated through online for the same.

The speakers for the 6-day workshop on “Quantum Computing and Machine Learning” were:



INAUGURAL FUNCTION  
OF  
One Week Faculty Development Programme  
On  
“QUANTUM COMPUTING AND MACHINE LEARNING”

30<sup>th</sup> November – 5<sup>th</sup> December, 2020

Sponsored by AICTE, New Delhi

Organized by



Department of Computer Science and Engineering  
JNTUA College of Engineering (Autonomous), Pulivendula  
Pulivendula- 516390, YSR Kadapa District

&  
Directorate of Faculty Development & IQAC, JNTUA, Ananthapuramu



Chief Guest

Prof. S. Srinivas Kumar, Hon'ble VC  
JNTUA, Ananthapuram



University Coordinator  
Dr. G. Prasanthi

Director, Faculty Development & IQAC



Principal

Prof. G. Sankara Sekhar Raju  
JNTUACEP



Vice Principal

Prof. G. V. Subba Reddy  
JNTUACEP



Course Coordinator

Dr. G. Murali, HCSED  
JNTUACEP

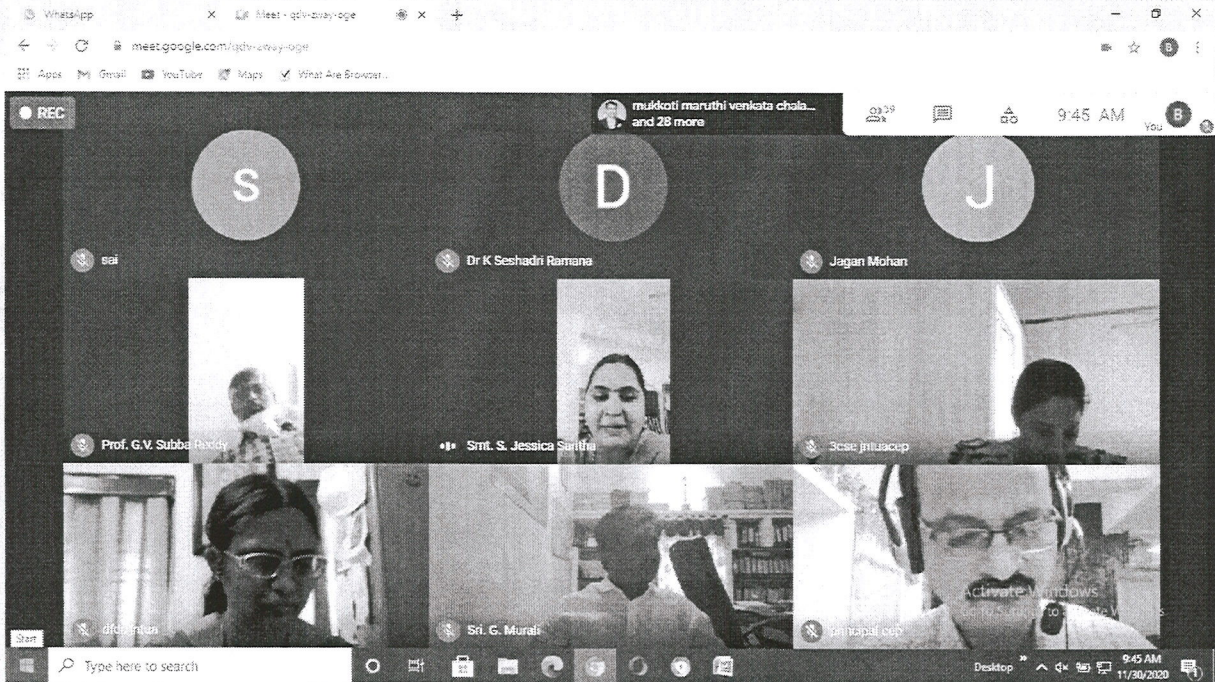
Inauguration of 6- DAY Online AICTE FDP on Quantum Computing and Machine Learning. The inauguration was chaired by Dr. G. Prasanthi, Director, Faculty Development & IQAC JNTUA, Ananthapuramu, Prof.G.S.S.Raju, Principal of JNTUA College of Engineering Pulivendula, Prof.G.V.Subba Reddy, Vice principal of JNTUA College of Engineering Pulivendula, Dr.G.Murali, Coordinator of Blockchain FDP and Dr. S.J.Saritha, Faculty Incharge, Dept of CSE, JNTUA College of

REGISTRAR  
J.M.T.U. Anantapur  
ANANTAPURAMU-515002

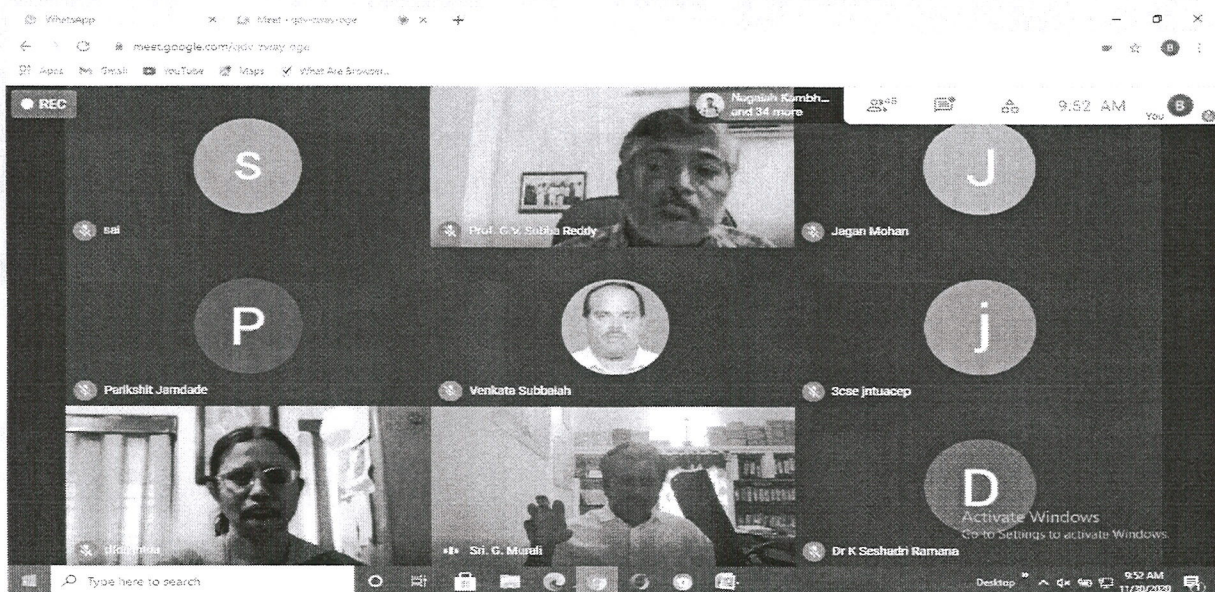


## AICTE FDP on Quantum Learning and Machine Learning

Engineering Pulivendula. The 6- days AICTE FDP on “Quantum Computing and Machine Learning” was inaugurated by Prof.G.S.S.Raju, Principal of JNTUA College of Engineering Pulivendula.



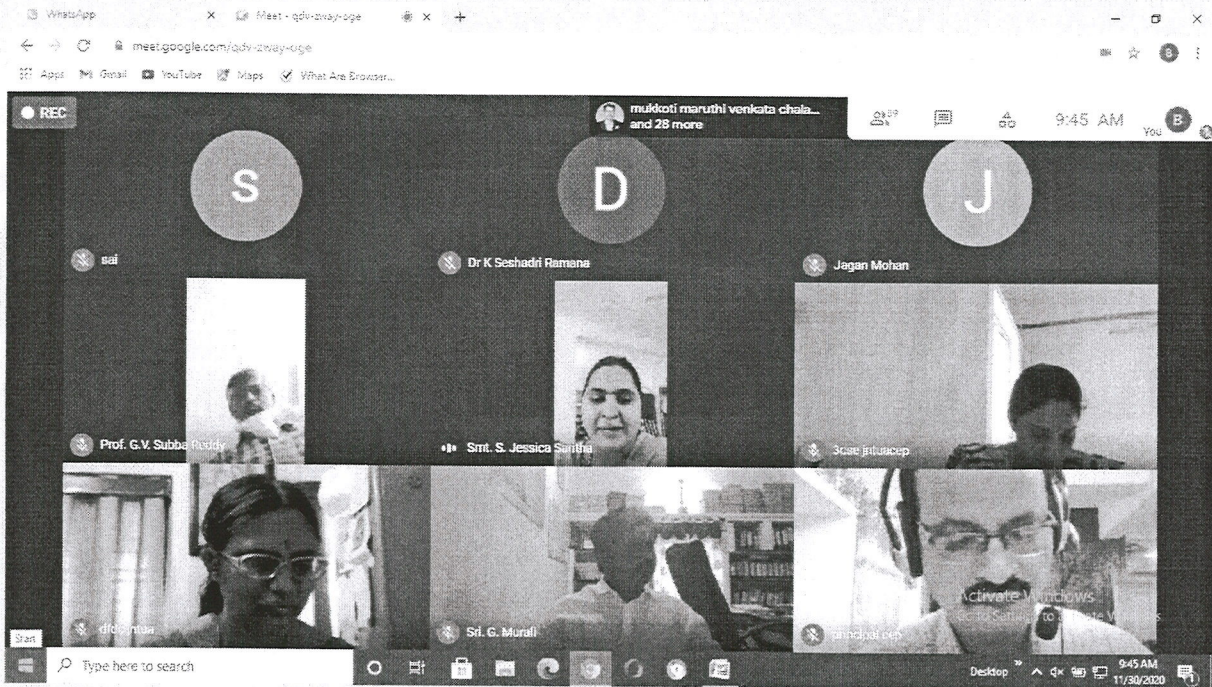
Dr.G.Murali Coordinator of the FDP started the program through online such that he thanked the Vice chancellor for giving permission to organize the FDP and also he thanked the AICTE chairman for selecting as a coordinator for this faculty development program.



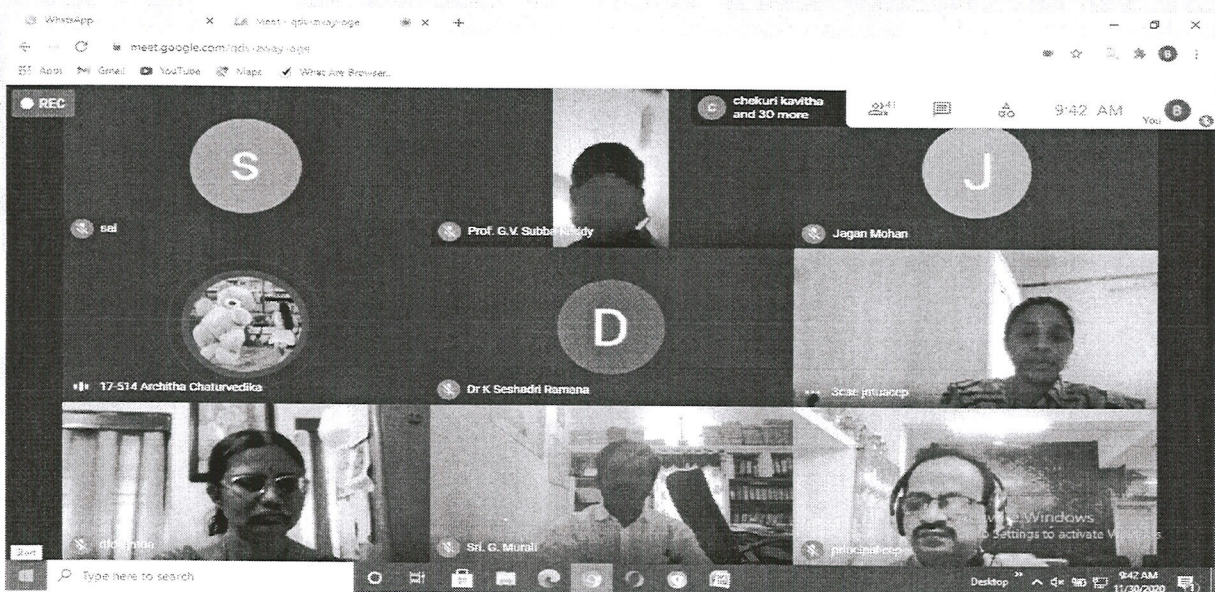


## AICTE FDP on Quantum Learning and Machine Learning

Prof.G.S.S.Raju, Principal of JNTUA College of Engineering Pulivendula addresses his valuable words He spoken about various advanced technologies which we can learn and deliver it to the students.

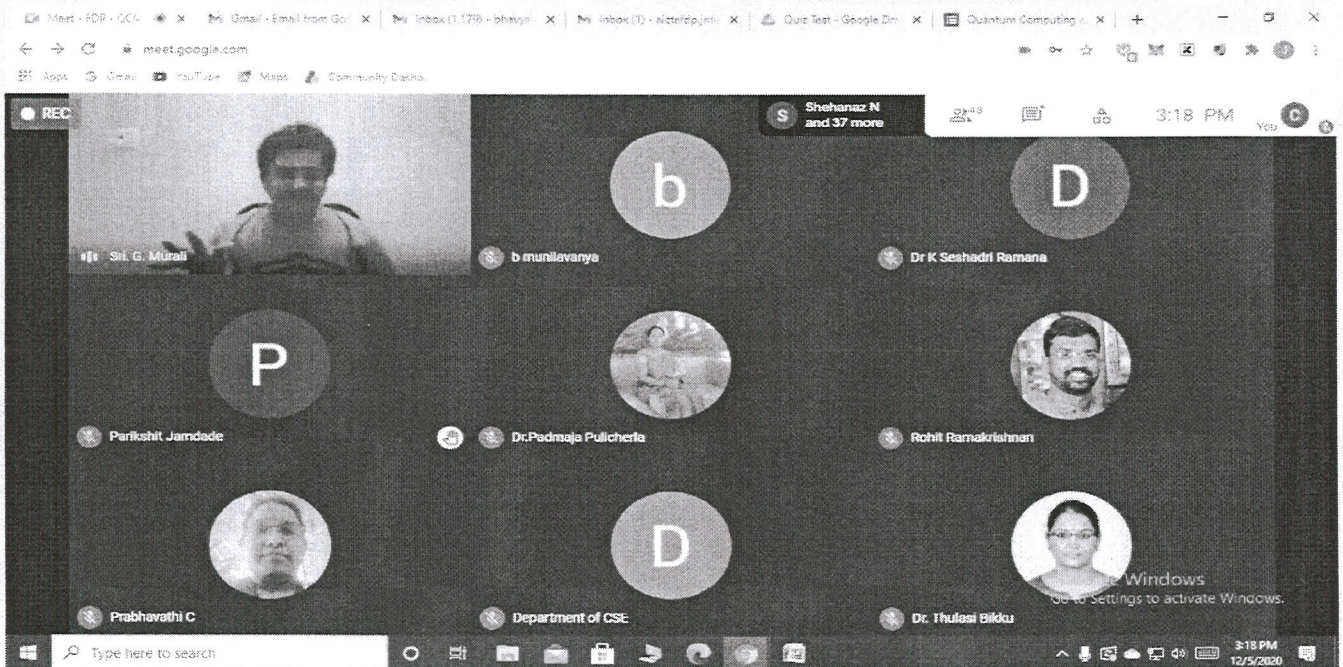
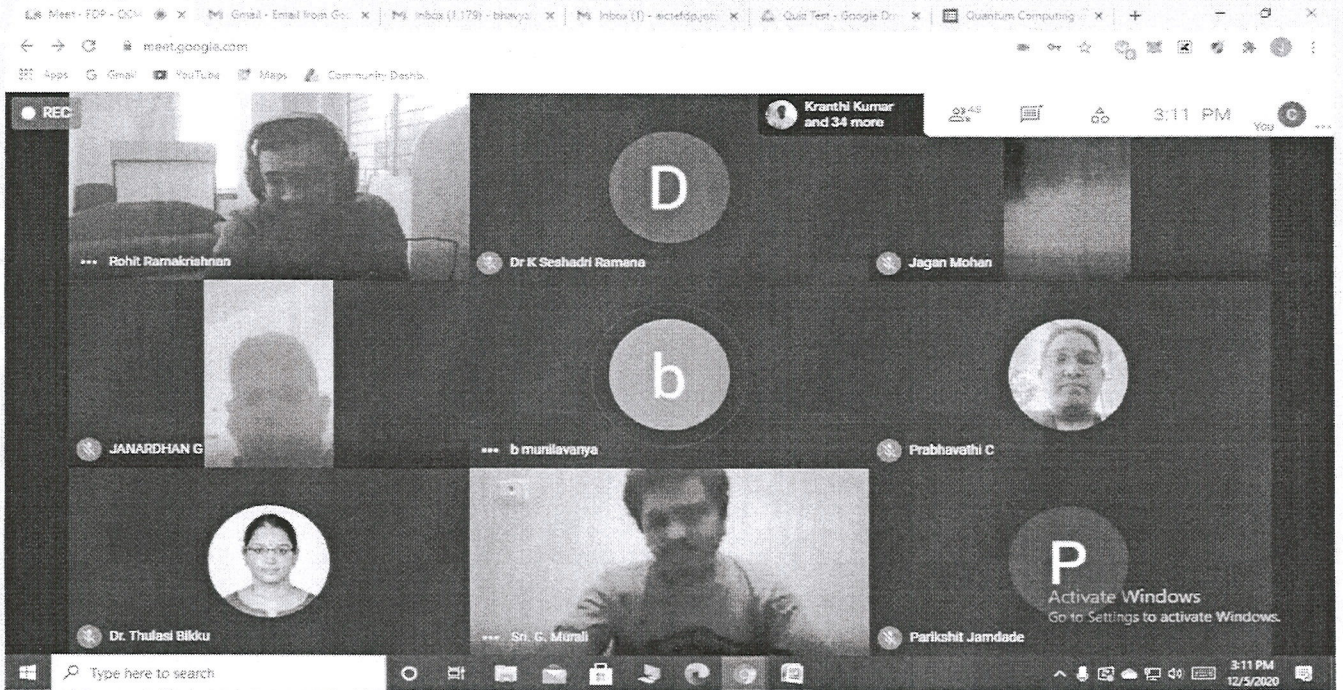


Dr. G. Prasanthi, Director, Faculty Development & IQAC JNTUA addresses her valuable words towards the present technology and explain how to update our technological skills. He explains the importance of advanced technologies in present world for the improvement of knowledge to the faculty and as well as the students.





## AICTE FDP on Quantum Learning and Machine Learning



The workshop was a success as all the participants were successfully for gaining some knowledge on Quantum Computing and Machine Learning at the end of the workshop. The response from the participants about the workshop is tremendously good and positive and as per the feedbacks they would want to attend such more hands-on workshops further in future through online and offline.

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