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National Education Society (R.)
**J N N College of Engineering,
Shivamogga**

(Approved by AICTE, New Delhi, Certified by UGC 214 118, Accredited by NAAC-'B', Recognized by Govt. of Karnataka and Affiliated to VTU, Belagavi)
UG Programs : CE, ME, EEE, ECE, CSE, B.E, TCE accredited by NBA-17.2019 to 20.2022

Department of Computer Science and Engineering

INVITATION

Cordially invites you to the Inauguration Programme of

One week FDP on

"Foundations of Quantum Computing"

on Monday 05.10.2020 at 3.30PM (Online)

Chief Guest : Prof. Maddali Surendra Prasad Babu
Regional Vice-President, Region V, CSI

Sri. Sumanth Parimal
Founding Partner & Chief Analyst,
Five Jewels Research, Innogress NCR, Delhi

Guest of Honor : Sri. S.N. Nagaraja
Secretary, NES, Shimoga

Presided by : Dr. H. R. Mahadevaswamy
Principal, JNNCE, Shimoga

Presence : Dr. P. Manjunatha
Dean Academic, JNNCE
Dr. M. Rajath Hegde
Dean Infrastructure, JNNCE

Dr. Poornima K.M.
HoD, Dept. of CS&E, JNNCE

Coordinator:
Mrs. Sushma R B
Mrs. Namitha M V

HOD, Faculty & Staff, Dept. of CS&E

National Education Society ®
Jawaharlal Nehru National College of Engineering, Shivamogga-577204
 (Internal Quality Assurance Cell)
 Department of Computer Science & Engineering

One week FDP on "Foundations of Quantum Computing"
 From 05-10-2020 to 09 -10-2020

Schedule

Day and Date	3.30 PM to 5.00 PM	5.30PM - 6.30 PM
Monday 05-10-2020	Inauguration with keynote address	Introduction to Quantum computation and Quantum information science, Applications
Tuesday 06-10-2020	Single/Multiple Qubit gates	Various computing methods, Where to use quantum computing?, Quantum Optimization
Wednesday 07-10-2020	The Quantum Hamiltonian Simulation Problem and Algorithm	Introduction to quantum algorithms
Thursday 08-10-2020	Quantum Cryptography	Modern Cryptography and Shor's Algorithm
Friday 09-10-2020	Quantum Development Techniques with Q#	Valedictory



National Education Society (R)
Jawaharlal Nehru National College of Engineering
Department of Computer Science and Engineering



Proceedings of Faculty development program
on
"Foundations of quantum computing"

Date:
05-10-2020 to 09-10-2020


Resource Person:

Dr. Nitin Verma
Founder Professor 360DegreesAnalytics.com

Participants:


Internal and External Teaching Faculty and PG students

The FDP began with a formal inauguration. The chief guest Dr. Maddali Surendra Prasad Babu addressed the gathering and wished for the smooth ongoing of the faculty development program. The gathering was then addressed by the keynote speaker, Mr. Sumanth Parimal who enlightened the gathering with the introduction of the topic "Quantum computing". Then the program was addressed by Shri.S N Nagaraja, Secretary, NES Shivamogga. Then the Presidential addresses was given by Dr. H R Mahadevaswamy, Principal, JNNCE, Shivamogga. The second session was started with introduction for Quantum computing and also different applications where quantum computing is applicable and feasible. The day concluded with a quick insight about quantum computing. The second day started with the introduction to Qbits and what is the major difference between Qbits and binary digits. It further processed with the introduction of multiple Qbits. Later in the day various computing methods were introduced. Quantum optimization was also introduced. The third day started with The Quantum Hamiltonian Simulation Problem and Algorithm, later in the day various other algorithms are also discussed. The fourth day was an insight on the Quantum Cryptography techniques, Modern Cryptography and Shor's Algorithm. The fifth day was about Quantum Development Techniques with Q# followed by the valedictory program. The FD was overall very helpful and informative with many real time videos.


Mrs. Sushma R B
Namitha M V
Mrs. Namitha M V

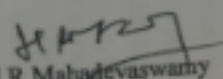
Coordinators

Dept of CSE, JNNCE


Dr. K M Poomima

Prof and Head

Dept of CSE, JNNCE


Dr. H R Mahadevaswamy

Principal

JNNCE

Registration Form

Faculty Development Program
on

"Foundations of Quantum Computing"
05th - 09th October -2020.

1. Name. _____
2. Designation. _____
3. Department. _____
4. Email-ID _____
5. Mobile No _____

The information provided by me is true to the best of my knowledge. I agree to abide by the rules and regulations governing the FDP on "Foundations of Quantum Computing" Program. If selected, I shall attend the program for the entire duration.

Date: _____
Place: _____

Signature of the Applicant

Mr. /Ms. /Dr. _____ is an
Employee of our Institute and is hereby permitted
for the above One Week AICTE sponsored FDP

Date: _____ Head of the Institution
Place: _____
Payment through Google Pay to 7760994882.

Chief Patrons

Sri A S Vishwanatha, President, NES
Sri T R Ashwathnarayana Setty, Vice President, NES
Sri S N Nagaraja, Secretary, NES
Sri Anarendra Kireeti, Joint Secretary, NES
Sri C R Nagaraj, Treasurer, NES

Patrons

Dr. H R Mahadeva Swamy, Prindpal, JINNCE, Shivamogga
Program Chair

Dr. P. Manjunath, Dean Academician, JINNCE,
Shivamogga

Organizing Chair

Dr. Poorima K M, HOD, Dept. of CS&E, JINNCE
Coordinators

Mrs. Sushma R B.

Asst. Prof., Dept. of CS&E, JINNCE

Mrs. Namitha M V

Asst. Prof., Dept. of CS&E, JINNCE

Organizing Committee

All Teaching and Non-Teaching staff of Computer
Science and Engineering Department

Inaugural Message By

Prof Maddali Surendra Prasad Babu
VP, Region 5, CSI

Resource Persons

From eminent Institutions like IISc, IIT's, NIT's and
Industries, who are interested in research fields.

Address for Communication:

Mrs. Sushma R B
Ph: 9008023838
E-mail: sushmarb@jinncce.ac.in
Mrs. Namitha M V
Ph: 7760994882
E-mail: namithamv@jinncce.ac.in

National Education Society

Jawaharal Nehru National College of
Engineering, Shimoga - 577 204

[Affiliated to VTU Belagavi, Recognized by Govt. of
Karnataka, Accredited by NBA (All 7 UG Branches),
Accredited by NAAC and Approved by AICTE, New
Delhi.]

Faculty Development Program
On

"Foundations of Quantum
Computing"
05th - 09th October 2020
Organized by

In Association with



Department of
Computer Science and Engineering,
Jawaharal Nehru National College of
Engineering,
Shimoga - 577 204

About The JINCE

JINCE was established in the year 1980 by the National Education Society. The college is affiliated to Visvesvaraya Technological University (VTU), Belgaol and recognized by AICTE, New Delhi and Government of Karnataka. JINCE offers B.E., M.Tech., MBA and MCA programmes, as well as M.Sc. (Engg. by Research) and Ph.D. programmes. JINCE has emerged as one of the most sought-after education destinations for technical and management education by students and parents from all over India. JINCE is accredited with NAAC - B grade also All 7 UG programmes are Accredited by NEBA and is now declared fit to receive central asistance In terms of rules Framed under section 2(f) and 12(B) of the UGC act, 1956 under the head "Non-Government Self-Financed colleges up to Master's degree. JINCE has emerged as one of the institutions espoused to the cause of professional education, training and research. A New Initiative "Transformation for Excellence 2.0" has been launched for making JINCE as one of the top engineering, research, innovation and enterprising institutes in next few years.

About the Department

The Computer Science and Engineering department was established in the year 1991. Since then, the department has held a position of pride in JINCE. The department offers B.E., and two PG courses M.Tech.(CSE) and M.Tech.(NIE). The department has well qualified, experienced and dedicated faculty to provide quality industry tuned education to the students. The Department Infrastructure fulfills the requirements of academics, supports research and learning skills on the latest technology in the industry. Special care is taken for each student by awarding mentor scheme. CS & E has a Research

awarded by Visvesvaraya Technological University in 2003. Many

research related activities such as conferences, workshops and training programs are organized by the department for both faculty and students. COSMOS-CSE Students forum in the department conducts lot of competitions for students to showcase the extra-curricular talents hidden in students. Every year on an average 70% of students gets recruited in many reputed companies through campus placement cell

Department Vision

To be one of the pre-eminent departments to provide technical and knowledge based education, utilizing the potential of computer science & engineering to meet the ever changing needs of industry and Society.

Department Mission

Moulding the students to meet the emerging challenges of industry and society, emphasizing on research and effective industry interaction to the development of state of the art technological infrastructure and faculty component.

About the FDP

Faculty development programme is devoted to recent developments and research outcomes related theoretical and practical aspects of Quantum Computing. Quantum computers could spur the development of new breakthroughs in science, medications to save lives, machine learning methods to diagnose illnesses sooner, materials to make more efficient devices and structures, financial strategies to live well in retirement, and algorithms to quickly direct resources such as ambulances. The industry needs resources qualified in quantum programming to create new markets.

Tentative Topics to be Covered (but not limited):

- Familiarize with various computing methods
- Introduction to Quantum Computing and Applications
- Qubit Modalities
- Quantum Information Quantum Cryptography and Quantum Optimization
- Make the researchers to move into the field of Quantum Computing

Who can attend?

Faculty members/ research scholars/ PG scholar from academic Institutes approved by the AICTE/UGC/ MHRD working in Private/ Public/ Government organizations can attend the course.

Registration

Registration fees: Rs. 200
For registration you can use the following QR code or link <https://forms.gle/Umjdc5E488081YQ5R15>. Payment through: Google Pay to 7760984882.



Important Dates

Last Date for Registration on or before: 03/10/2020
Notification of Selection (e-mail only): 04/10/2020

Note:

- Certificate shall be issued to those who maintain 80% attendance.
- Mode of FDP- online/google meet

FDP on "Foundations of Quantum Computing" 5th -9th October 2020, Dept. of CSE, JNNCE, Shimoga

24 responses

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FDP on "Foundations of Quantum Computing" 5th -9th October 2020, Dept. of CSE, JINCE, Shimoga

Name as to be printed on certificate

24 responses

Nuzath Khanum

Sandeep B

MOHAN H G

Hithesh GS

GANAVI M

Monika k s

PUSHPA R.N

NARENDRA KUMAR S

Arunkumar K L

Sunilkumar H R

Sowmya D

Suman S

S Sathyanarayana

Certain K R

Hiriyanna G S

Dr RAVINDRA S

Suchethana H C

CE, Shimoga

Mrs. THASEEN BHASHITH'

Madhu Manjunath N M

haseen194@jnnce.ac.in

madhumanjunath10@gmail.com

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FDP on "Foundations of Quantum Computing" 5th -9th October 2020, Dept. of CSE, JNNICE, Shimoga

Contact Number

24 responses

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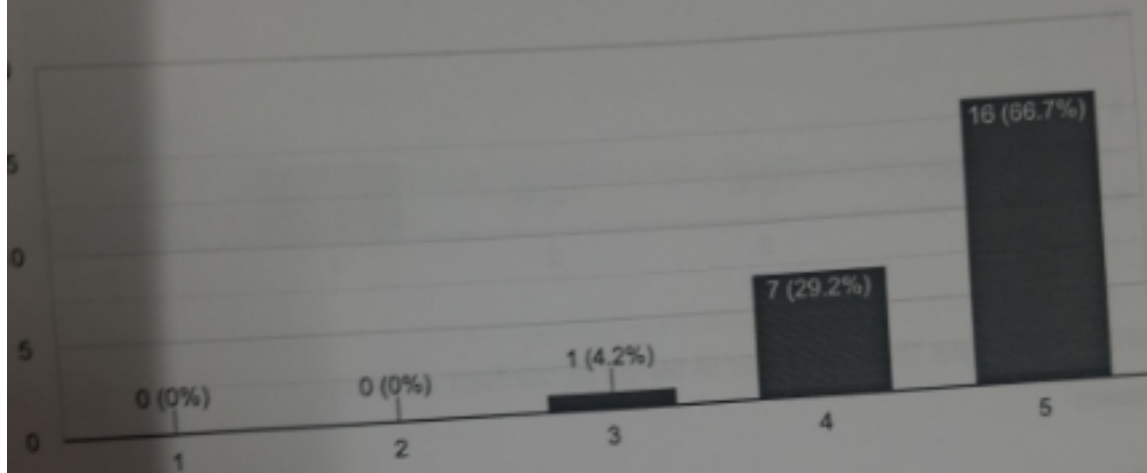
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How would you rate the overall session experience

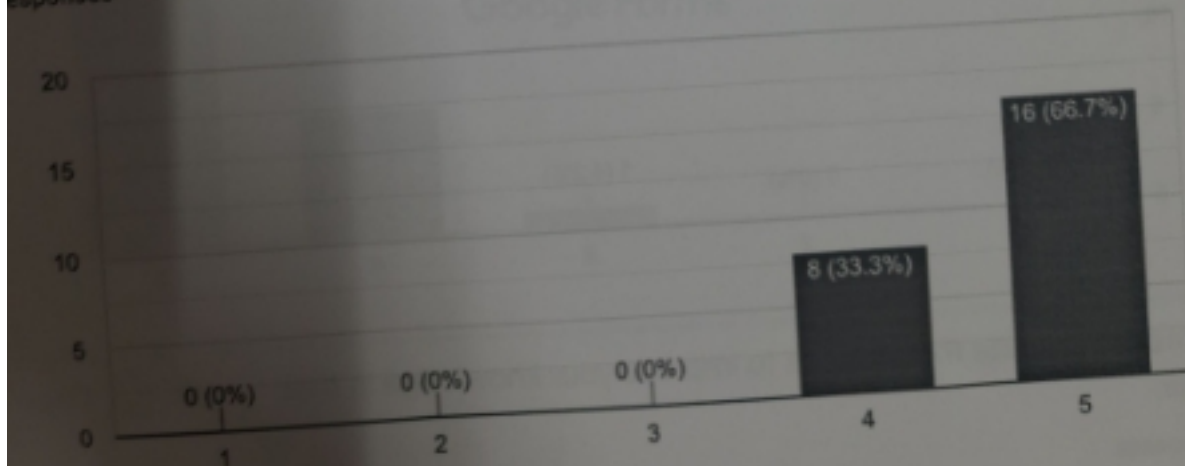
Responses



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How would you rate the topics of the sessions

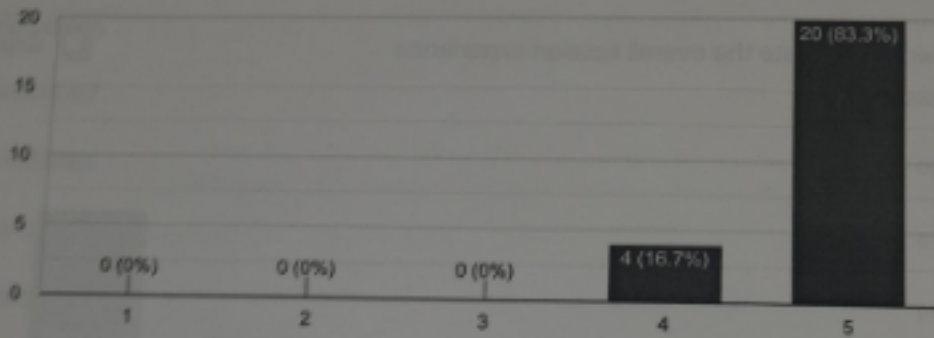
Responses



How would you rate the knowledge of the presenter

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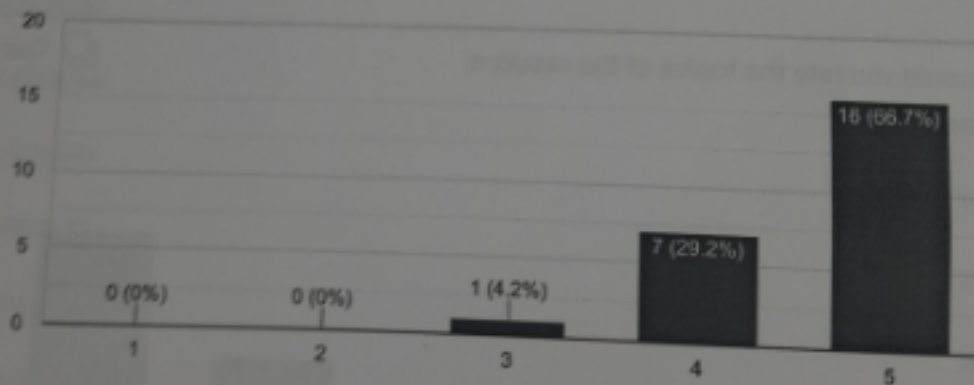
24 responses



How would you rate the presenter in terms of content delivery

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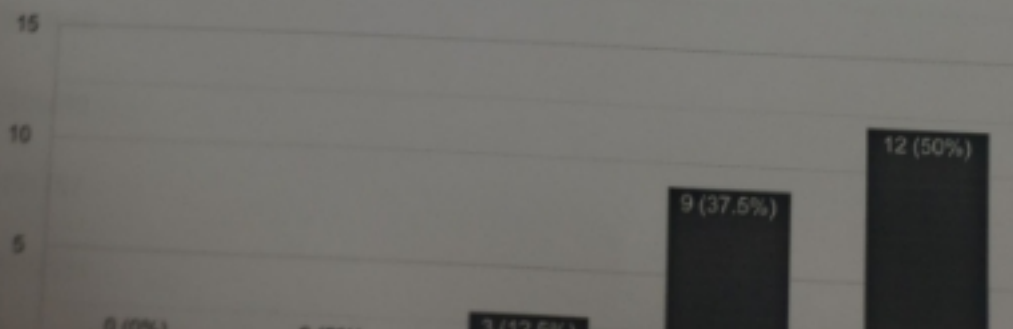
24 responses



How would you rate the sessions to improve your knowledge in that domain

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24 responses



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Any other suggestions

9 responses

No

Good

Nothing

Very good insight on Quantum computing. Could it be more flexible on timings. 12PM to 1.30PM and from 2PM to 3.30 PM.

Nothing

nil

good

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