



# NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE (AUTONOMOUS)



PAMPADY, THIRUVILWAMALA, THRISSUR DT., KERALA - 680588  
NBA ACCREDITED PROGRAMMES - B.TECH CSE, B.TECH MTR | NAAC RE-ACCREDITED WITH 'A' GRADE  
RECOGNIZED BY UGC UNDER SECTION(2F) OF THE UGC ACT, 1956 | ISO 9001:2015 CERTIFIED  
APPROVED BY AICTE | AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY



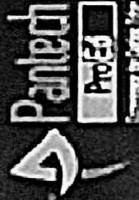
3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

S.No	Academic Year	Description	Page Number
1.	2022-2023	IoT Applications in Renewable Energy	2
2.	2022-2023	Role and Reach of NEP-2020 in Technical Education	18

**ONE DAY NATIONAL LEVEL HANDS ON WORKSHOP :-**

# IOT APPLICATION IN RENEWABLE ENERGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
IN ASSOCIATION WITH



PANTECH E-LEARNING RESEARCH SOLUTIONS,PVT.LTD



**G MOHAN SHANKAR**  
Project Engineer  
Pantech E-Learning

REGISTRATION LINK:-



<https://forms.gle/yu2moiBVg93JUhcP8>

**9TH DEC 2022**

**20 KTU ACTIVITY POINTS  
AWARDED**

**REGISTRATION FEE :- 300/- INR  
GPAY : 9544869231**



**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE**

Contact Us : 6282344490 , 9061245359



**श्रीथरुथम**

## SUMMARY OF REPORT

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
organizing  
NATIONAL LEVEL HANDS ON WORKSHOP "IoT APPLICATIONS IN RENEWABLE ENERGY"

DATE: 09<sup>TH</sup> DECEMBER - 2022

Day 1: 09<sup>th</sup> December 2022

Session 1: 09/12/2022 (FN)

Resource Person: Er. Mohan Sankar

Project Engineer

Pantech E-Learning

Topic: IoT in Renewable Energy Applications

Venue: MAT Lab Aryabhata Block, NCERC, Pampady

Time: 9.30am to 12.30pm



*Sankar Sankar*  
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Nila Gardens, Pampady  
Thiruvilwamala, Thrissur - 680588

Er. Mohan Shankar, explained how the IoT can be used in controlling and monitoring the smart grid, also explained how energy management is performed. He also gave a detailed lecture on different types of clouds and discussed problems in smart grid without cloud, its features, IoT information management systems etc. Also, he discussed introducing cloud data warehouse applications in smart grid, research challenges in control algorithms and flowchart approach.

He conducted a hands on training in Matlab with arduino package which has to be configured in arduino hardware communicated via USB by splitting the participants into batches. The participants understood learning of programming using arduino package using Matlab. He also discussed few case studies related to simulink model for arduino hardware

**Day 1: 09<sup>th</sup> December 2022**

**Session II: 09/12/2022 (AN)**

**Resource Person: Er. Mohan Shankar**

**Project Engineer**

**Pantech E-Learning**

**Topic: Hands on Training ESP32, Arduino node MCU cloud platform interfacing**

**Venue: MAT Lab Aryabhata Block, NCERC, Pampady**

**Time: 1.30pm to 4.0pm**

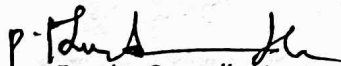
Er. Mohan Shankar, started the after-noon session with the basic concept of IoT using firebase and node-red. He explained interfacing of Arduino NodeMCU device with Google Firebase database and by using Android applications. The participants learned how to send data to Firebase to control an LED. He shared more information about Google Firebase database in real-time applications.



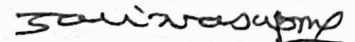
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**NHa Gardens, Pampady**  
**Thruvilwamala, Thrissur - 680508**




Also, he discussed about IIoT(industrial internet of things) concept for data management connectivity, data security and secure cloud platform applications in industrial sector. Participants enthusiastically developed the model and verified with Arduino cloud platform.

  
Faculty Co-ordinator

  
HoD/EEE

  
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Thiruvilwamala, Thrissur - 680588



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**INAUGURAL FUNCTION OF NATIONAL LEVEL HANDS ON WORKSHOP "IoT APPLICATIONS IN RENEWABLE ENERGY"**

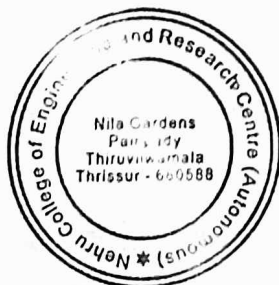
**DATE: 09.12.2022,**

**TIME: 9.0AM- 4.30PM (Off-Line Mode)**

**PROGRAM SCHEDULE**

- Welcome Address : Dr. Ambika Devi Amma .T  
Principal, NCERC, Kerala.
- Presidential Address : Adv.Dr.P. Krishnadas  
Chairman and Management Trustee,  
NGI Kerala &Tamilnadu
- Special Address : Dr.P. Krishnakumar  
CEO & Secretary,  
NGI Kerala &Tamilnadu
- Introductory Address : Dr.Sobha Manakkal  
HoD/EEE
- Inaugural Address : Er. Mohan Shankar  
Project Engineer  
Pantech E-Learning, Coimbatore
- Talk on : IoT Applications in Renewable Energy
- Felicitation Address : Prof. P. Sundaramoorthi  
Faculty Co-ordinator
- Vote of thanks : Akash V  
Student Co-ordinator

Technical Session Continue:



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## G MOHAN SHANKAR

### Project Engineer, Pantech E Learning

Experience of 4+ years in Embedded Design, ROS and the IoT Applications. Work with different embedded applications, Converter designs, robotic applications and the cloud interface for IoT Applications. Having a Good Technical Strength in Implementation of Projects & Conducting Work Shops in Universities.

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### EDUCATION:

B.E ,CSE, ANDHRA UNIVERSITY . AP

### TECHNICAL SKILLS

**Programming Languages:** MATLAB, Embedded C, Python, and PCB Design.

**Hardware:** ARM7, dsPIC, Arduino, Raspberry Pi and Robotics Making

### WORK EXPERIENCE:

**Firmware Developer** • Working on research and development of Embedded Application.

**Power Electronics Design** • Worked on research and development of Converter design for power electronics applications.

### IoT Application Developer

- Developed real time IoT modules for the Irrigation and the health care systems and have sound knowledge on Sensor interface and the application development. **Robotics Design**
- Developed an algorithm based robot and had a strong experience on model making, motor interface and 3D printing for Robotic application.

**CURRENT FIELD OF WORK:** IoT for Electrical Applications, AI on Robotics, Machine Learning for Energy saving.



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**NATIONAL LEVEL HANDS ON WORKSHOP IoT APPLICATIONS IN RENEWABLE ENERGY**

**Participant List**

Timestamp	Email Address	NAME	DESIGNATION	INSTITUTE	MOBILE NUMBER
12-2-2022 20:16:20	aravindkk7025@gmail.com	Aravind. S	Student	NCERC PAMPADY	9568453228
12-2-2022 20:42:58	Krishnakumar.odu@gmail.com	Krishnakumar. OB	Student	NCERC PAMPADY	94959 49702
12-4-2022 8:53:10	muhammedfazilkmf@gmail.com	K MUHAMMED FAZ	Student	NCERC PAMPADY	9746784530
12-4-2022 10:02:38	sanjaysubramanian004@gmail.com	Sanjay ts	SI EEE	NCERC	9072967664
12-4-2022 12:23:14	keerthanasureh.00001@gmail.com	Keerthana suresh	Btech first year cse	Ncerc	6238434029
12-4-2022 12:36:38	niban679@gmail.com	Niba Naufal	Btech first year cse	ncerc	9037260716
12-4-2022 12:40:01	Pmmohsin949@gmail.com	Inara basheer	Btech first year cse	Ncerc	81579 14768
12-4-2022 13:42:11	jissjohny984@gmail.com	Jiss Johny	Btech CSE 1st year	NCERC pampadi	9048271697
12-4-2022 13:45:24	josephsiby24@gmail.com	Joseph	Btech cse 1st year	Nehru college of engineering and research center	8590642905
12-4-2022 17:31:47	anushakannan742@gmail.com	ANUSHA K K	EEE 1st Year	NCERC, PAMPADY.	9995123499
12-4-2022 17:32:49	adhi11062004@gmail.com	Adithya Krishna T K	SI CSE AIML	NCERC Pampady	62828881818
12-4-2022 17:46:09	fahadh27082004@gmail.com	Abdul Fahadh. M	SI CSE AIML	NCERC PAMPADY THRIVILIMALA	7736736759
12-4-2022 19:13:33	anittavalsan333@gmail.com	Anitta Valsan	Student	Ncerc	8606016127
12-4-2022 19:38:44	nandhanaunnikrishnan58@gmail.com	Nandhana ku	Student of SI EEE	NCERC	7592996277
12-4-2022 19:52:42	sreegouri.nair@gmail.com	Sreegouri.A	Student of SI EEE	NCERC	9778598305
12-5-2022 12:41:28	ameyaanthomas@gmail.com	Ameya Ann Thomas	Student of SI EEE	NCERC	8921855913
12-5-2022 13:53:06	alokhajith007@gmail.com	Alokh K	Student	NCERC	9633880517
12-5-2022 14:27:46	mohdhisamp123@gmail.com	Mohammed Hisham	Student	NCERC	8075262694
12-5-2022 14:30:13	arunraj89490@gmail.com	Arunraj J	SI EEE	NCERC PAMPADY	6238211685
12-5-2022 14:30:13	musharafkmsushuru7@gmail.com	Musharaf k s	EEE First year	NCERC,PAMPADY	9656807209
12-5-2022 14:31:17	aparnasuresh3112@gmail.com	Aparna S	Student of EEE	Nehru college of engineering and research center	9048132004
12-5-2022 16:40:35	anupamaavinod22@gmail.com	Anupama Vinod	College Student	NCERC	96897832366
12-5-2022 18:30:28	dechuranjith@gmail.com	Dekshin Ranjith	Student	Nehru College of Engineering and Research Centre	9133683330
12-6-2022 20:34:29	fahsemails@gmail.com	Ramachandran G	Faculty	MVMHSS	9843396844
12-6-2022 20:34:47	2244shahinssm@gmail.com	Shahin. S. M	I st year b tech cse	NCERC	9400786883
12-8-2022 18:31:27	aneesashameer461@gmail.com	ANEESA K S	B tech	Malabar college of engineering and technology	9544416970
12-8-2022 19:03:01	fathimathshaiha1920@gmail.com	Fathimath shaiha t v	B tech	Malabar college of engineering and technology	7356916318
12-8-2022 21:52:18	basilmprasad1tw@gmail.com	Basil M Prasad	B Tech 1st year MTR	NCERC pampady	7510280650



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**Participant feedback**

**One day National Level Hands on Workshop 'IoT Applications in Renewable Energy'**

Name of Student: SHAHN S-M

Year/Sem: I/I

Name of Institute/University: NCERC

1. How useful was this event for you?

(Please circle the appropriate number where 1 = not at all useful and 5 = extremely useful)

1    2    3    4    (5)

2. How will you rate the practical sessions?

(Please circle the appropriate number where 1 = not at all efficient and 5 = extremely efficient)

1    2    3    4    (5)

3. How will you rate the arrangements of the event? (if you have attended physically)

(Please circle the appropriate number where 1 = bad and 5 = excellent)

1    2    3    (4)    5

4. How much confidence and knowledge you have gained from this event

(Please circle the appropriate number where 1 = nil and 5 = excellent)

1    2    3    4    (5)

5. Your comments or suggestions, if any

2 Informative Sessions



Principal  
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Thiruvilwamala, Thrissur - 680588

Signature of Student



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Participant feedback

One day National Level Hands on Workshop 'IoT Applications in Renewable Energy'

Name of Student: *Basil M. Prasad*

Year/Sem: *I / I<sup>st</sup>*

Name of Institute/University: *NCERC*

1. How useful was this event for you?

(Please circle the appropriate number where 1 = not at all useful and 5 = extremely useful)

1    2    3    4    **5**

2. How will you rate the practical sessions?

(Please circle the appropriate number where 1 = not at all efficient and 5 = extremely efficient)

1    2    3    4    **5**

3. How will you rate the arrangements of the event? (if you have attended physically)

(Please circle the appropriate number where 1 = bad and 5 = excellent)

1    2    3    **4**    5

4. How much confidence and knowledge you have gained from this event

(Please circle the appropriate number where 1 = nil and 5 = excellent)

1    2    3    4    **5**

5. Your comments or suggestions, if any

*Need more such informative workshops in future.  
It was a very good experience.*

*Basil*  
Signature of Student



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Thiruvilwamala, Thrissur - 680588



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Participant feedback**

**One day National Level Hands on Workshop 'IoT Applications in Renewable Energy'**

Name of Student: **ANEESHA KS**

Year/Sem: **II/S3**

Name of Institute/University: **Kalabar College of Engineering & Technology**

1. How useful was this event for you?

(Please circle the appropriate number where 1 = not at all useful and 5 = extremely useful)

1    2    3    4    **5**

2. How will you rate the practical sessions?

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1    2    3    4    **5**

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(Please circle the appropriate number where 1 = bad and 5 = excellent)

1    2    3    4    **5**

4. How much confidence and knowledge you have gained from this event

(Please circle the appropriate number where 1 = nil and 5 = excellent)

1    2    3    4    **5**

5. Your comments or suggestions, if any

**Excellent workshop**



**Signature of Student**

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**Thiruvilwamala, Thrissur - 680588**



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Participant feedback**

**One day National Level Hands on Workshop 'IoT Applications in Renewable Energy'**

Name of Student: *Fathima Shaiha . V*

Year/Sem: *3<sup>rd</sup> / 55*

Name of Institute/University: *malabar college of Engineering & Technology*

1. How useful was this event for you?

(Please circle the appropriate number where 1 = not at all useful and 5 = extremely useful)

1    2    3    4    5 ✓

2. How will you rate the practical sessions?

(Please circle the appropriate number where 1 = not at all efficient and 5 = extremely efficient)

1    2    3    4    5 ✓

3. How will you rate the arrangements of the event? (if you have attended physically)

(Please circle the appropriate number where 1 = bad and 5 = excellent)

1    2    3    4    5 ✓

4. How much confidence and knowledge you have gained from this event

(Please circle the appropriate number where 1 = nil and 5 = excellent)

1    2    3    4 ✓    5

5. Your comments or suggestions, if any

*Excellent, good Program.*



*Fathima Shaiha . V*  
Signature of Student

*B*

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Thiruvilwamala, Thrissur - 680588**



# CERTIFICATE

OF PARTICIPATION



MEHRU GROUP  
OF INSTITUTIONS  
PAMPADY



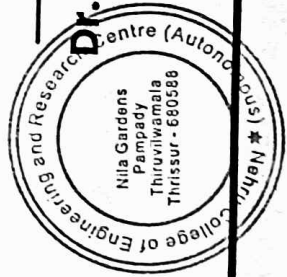
THIS CERTIFICATE IS AWARDED TO

# BASIL M PRASAD

To provide valuable participation during the  
one day National Level Hands on workshop " IoT Applications in Renewable Energy -  
Organized by Department of Electrical and Electronics Engineering ,  
Nehru College of Engineering and Research Centre , Thrissur  
Jointly organized by Pantech E-Learning Research Solutions  
on 09-12-2022

**Prof. P. Sundaramoorthi**  
Faculty Co-ordinator  
NCERC

**Dr. Sobha Manakkal**  
HOD, EEE DEPT  
NCERC



**Dr. Ambika Devi Amma T**  
Principal  
NCERC

PRINCIPAL

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Research Centre (Autonomous)  
NHa Gardens, Pampady  
Thruvilwamala, Thrissur - 680588



# CERTIFICATE OF PARTICIPATION



THIS CERTIFICATE IS AWARDED TO

# FATHIMATH SHAIHA TV

To provide valuable participation during the  
one day National Level Hands on workshop " IoT Applications in Renewable Energy "  
Organized by Department of Electrical and Electronics Engineering ,  
Nehru College of Engineering and Research Centre , Thrissur  
Jointly organized by Pantech E-Learning Research Solutions  
on 09-12-2022

*P. Sundaramoorthi*

**Prof. P. Sundaramoorthi**  
Faculty Co-ordinator  
NCERC

*Sobha*

**Dr. Sobha Manakkal**  
HOD, EEE DEPT  
NCERC

*Ambika*

**Dr. Ambika Devi Amma T**  
Principal  
Nehru College of Engineering and Research Centre (Autonomous)  
Thiruvilwamala  
Thrissur - 680588



# CERTIFICATE OF PARTICIPATION



THIS CERTIFICATE IS AWARDED TO

## ANEESAKS

To provide valuable participation during the  
one day National Level Hands on workshop " IoT Applications In Renewable Energy "  
Organized by Department of Electrical and Electronics Engineering .  
Nehru College of Engineering and Research Centre , Thrissur  
Jointly organized by Pantech E-Learning Research Solutions  
on 09-12-2022



**Prof. P. Sundaramoorthi**  
Faculty Co-ordinator  
NCERC



**Dr. Sobha Manakkal**  
HOD, EEE DEPT  
NCERC



**Dr. Ambika Devi Amma T**  
Principal



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Nehru College of Engineering and  
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Nhe Gardens, Pampady  
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# CERTIFICATE OF PARTICIPATION



NEHRU GROUP  
OF INSTITUTIONS  
PAMPADY, THIRUVILWAMALA  
THIRUVILWAMALA, TRISSUR - 680568

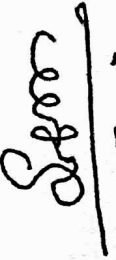


THIS CERTIFICATE IS AWARDED TO  
**SHAHIN S. M**


To provide valuable participation during the  
one day National Level Hands on workshop " IoT Applications in Renewable Energy "  
Organized by Department of Electrical and Electronics Engineering ,  
Nehru College of Engineering and Research Centre , Thrissur  
Jointly organized by Pantech E-Learning Research Solutions  
on 09-12-2022

  
\_\_\_\_\_

**Prof. P. Sundaramoorthi**  
Faculty Co-ordinator  
NCERC

  
\_\_\_\_\_

**Dr. Sobha Manakkal**  
HOD, EEE DEPT  
NCERC

  
\_\_\_\_\_

**Dr. Ambika Devi Ammat**

  
PRINCIPAL



Nehru College of Engineering and  
Research Centre (Autonomous)  
Nha Gardens, Pampady  
Thiruvilwamala, Thrissur - 680568



NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE  
(NAAC Accredited)  
(Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University, Kerala)



SEMINAR REPORT  
“ROLE AND REACH OF NATIONAL  
EDUCATION POLICY(NEP)-2020 IN  
TECHNICAL EDUCATION”

ORGANISED BY:  
INTERNAL QUALITY ASSURANCE  
CELL(IQAC)-NCERC

DATE:14-12-2022

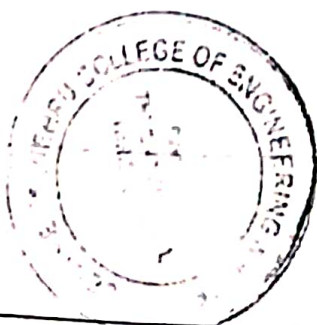
VENUE:ARYABHATTA SEMINAR HALL


  
COORDINATOR

  
CONVENOR

  
PRINCIPAL

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Nehru College of  
Engineering and Research Centre  
Thiruvilwamala, Thrissur - 680588



  
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Nila Gardens, Pampady  
Thiruvilwamala, Thrissur - 680588

ಶ್ರೀ ಎನ್.ಸಿ. ಶರ್ಮಾ

ರ್ದೇಶಕರು

ಪ್ರೊ. ಎಸ್.ಸಿ. ಶರ್ಮಾ

ರ್ದೇಶಕ

ಪ್ರೊ. S.C. Sharma

ರ್ದೇಶಕರು



ರಾಷ್ಟ್ರೀಯ ಮೌಲ್ಯಾಂಕನ ಮತ್ತು ಮಾನ್ಯತೆ ಪರಿಷತ್

ವಿಶ್ವವಿದ್ಯಾಲಯ ಅನುದಾನ ಆಯೋಗದ ಸ್ವಾಯತ್ತ ಸಂಸ್ಥೆ

ರಾಷ್ಟ್ರೀಯ ಮೌಲ್ಯಾಂಕನ एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

NAAC/Seminar/LG /2022/55

27<sup>th</sup> June 2022

The Principal  
Nehru College of Engineering and Research Centre  
Nila Gardens , Pampady Post  
Thiruvilwamala – 680588, Kerala

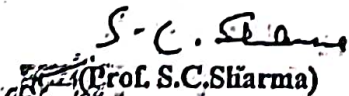
Respected Sir/Madam,

Greetings from NAAC.

This is with reference to your proposal seeking NAAC financial assistance/academic support for organizing state/national level workshop/seminar/conference in your institution on the topic Role and Reach of National Educational Policy (NEP) –2020 in Technical Education. After due consideration your proposal has been accepted for financial assistance of Rs.30,000/- (Rupees Thirty-Thousand only). Due to new Corona Virus Disease 2019 (COVID 19), NAAC encourages the HEIs organising seminars through online mode. Therefore, NAAC sponsorship for financial assistance under different heads has been revised. The balance amount required to organize this activity may kindly be mobilized at your end. The financial assistance is subject to the adherence to the enclosed procedures for release of sanctioned grants and settlement of the same. NAAC appreciates the initiative taken by your institution and hope that the institution will continue to strive for quality and excellence in Higher Education.

The seminar/workshop has to be conducted on the scheduled date(s) as mentioned in the seminar proposals sent to NAAC. In case of any change in scheduled date due to COVID 19 the institution should inform NAAC the exact date of the seminar. The claims have to be received by NAAC on or before a month after seminar/workshop. In case of any delay in submission of the claims the reimbursement will not be made and NAAC will not be liable for the expenditure incurred.

Yours sincerely,

  
(Prof. S.C. Sharma)

Encl: a/a

Cc: Southern Region Coordinator

(Dr.M.S. Shyamasundar, Adviser, NAAC; [msnnaac@gmail.com](mailto:msnnaac@gmail.com))

Member Convener, Seminar Committee, NAAC.

Dr. Leena Gahane, Deputy Adviser, NAAC; [leenagahane.naac@gmail.com](mailto:leenagahane.naac@gmail.com)



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Thiruvilwamala, Thrissur - 680588



# NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE

RE-ACCREDITED BY NAAC "A" GRADE  
Pampady, Thiruvilwamala, Thrissur, Kerala. Pin: 680588  
(ISO 9001-2015 Certified)

(Approved by AICTE Affiliated to APJ Abdul Kalam Technological University, Kerala)



ONE DAY NATIONAL SEMINAR ON :-

## " ROLE AND REACH OF NATIONAL EDUCATION POLICY(NEP)-2020 IN TECHNICAL EDUCATION "

Sponsored by National Assessment and Accreditation Council  
(NAAC) - Organized by  
Internal Quality Assurance Cell (IQAC)-NCERC



ON DECEMBER 14, 2022

MODE: HYBRID

TIME:- 10:00 AM - 05:00 PM



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Thiruvilwamala, Thrissur - 680588

**SPEAKER:**

**Dr. KUNCHERIA P. ISAAC**

Founder - Vice Chancellor  
Kerala Technological University (KTU)  
Former AICTE- Member Secretary

Topic: " Role and Reach of  
National Education Policy(NEP)-2020  
In Technical Education "

**SPEAKER:**

**Dr. A. GOVARDHAN**

Pro - Vice Chancellor  
Jawaharlal Nehru Technological University  
Hyderabad (JNTUH)

Topic: " Quality Assurance in  
Higher Education "



INSTITUTION'S  
INNOVATION  
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SB/NCERC





**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE**  
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**INTERNAL QUALITY ASSURANCE CELL(IQAC)**

**INAUGURAL CEREMONY & VALEDICTORY FUNCTION OF**

**ONE DAY NATIONAL SEMINAR ON:**

**“ROLE AND REACH OF NATIONAL EDUCATION POLICY(NEP)-2020 IN  
 TECHNICAL EDUCATION”**

**Sponsored by National Assessment and Accreditation Council (NAAC)**

**Organized by**

**Internal Quality Assurance Cell (IQAC) – NCERC**

**DATE: 14.12. 2022, TIME: 10.0AM – 4.0PM**

**VENUE: ARYABHATTA SEMINAR HALL**

**PROGRAM AGENDA**

10.0AM - 10.05AM	Prayer	
10.05AM - 10.10AM	Welcome Address	Dr. Ambika Devi Amma T Principal, NCERC
10.10AM – 10.15AM	Lightning the Lamp	
10.15AM – 10.20AM	Presidential Address	Adv. Dr. P. Krishnadas Chairman & Managing Trustee, NGI
10.20AM – 10.25AM	Chief Guest Address	Chief Guest Address. Dr. Kuncheria P. Isaac Founder – Vice Chancellor Kerala Technological University (KTU) Former AICTE – Member Secretary
10.25AM – 10.30AM	Key Note Address	Dr. P. Krishnakuniar CEO & Secretary, NGI
10.30AM – 10.35AM	Felicitation Address	Dr. Radhakrishnan



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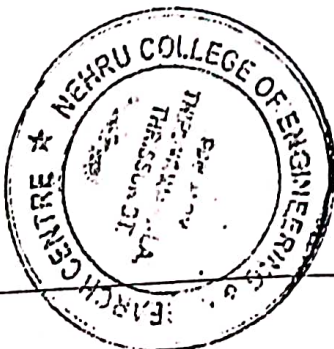
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## INTERNAL QUALITY ASSURANCE CELL(IQAC)

		Academic - Advisor, NGI
10.35AM - 10.45AM	Vote of Thanks	Dr. Sobha Manakkal Director - IQAC, NCERC
10.45AM - 11.0AM	Tea Break	
11.0AM - 12.45PM	Session on: "Role and Reach of National Education Policy (NEP)-2020 in Technical Education"	Dr. Kuncheria P. Isaac Founder - Vice Chancellor Kerala Technological University (KTU) Former AICTE - Member Secretary
12.45PM - 1.45PM	Lunch Break	
1.45PM - 2.45PM	Session on: "Quality Assurance in Higher Education" (online mode)	Dr. A. Govardhan Pro - Vice Chancellor Jawaharlal Nehru Technological University (JNTU)-Hyderabad
VALEDICTORY FUNCTION (3.0PM - 4.0PM)		
2.45PM - 3.0PM	Report on the Program	Dr. Sobha Manakkal Director - IQAC, NCERC
3.0PM - 3.25PM	Feedback From Participants	
3.25PM - 3.45PM	Certificate Distribution	
3.45PM - 4.0PM	Vote of Thanks	Prof.P. Sundaramoorthi NEP-2020 Institution Co-ordinator



*Sobha Manakkal*  
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Nehru College of  
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Pampady, Thiruvilwamala, Thrissur Dist.  
Pin - 680 587, Kerala

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11-24-2022 21:23:50	bhosyrose2000@gmail.com	Dhasey Ropohal M	Assistant Professor	Rafaeland Institute of Science and Technology	7739732793
12-13-2022 15:48:14	senkarsingh.srm@velsuniv.ac.in	Senkar Singh K	Assistant professor	Vels Institute of Science, Technology and Advanced Studies (VSTAS)	9894104068
11-24-2022 23:35:19	Kranpanday29@gmail.com	Kran Panday	Student	VKUSU Shreehash Law college, Sasaram, Bihar	7879707893
11-25-2022 19:41:46	viktorose@gmail.com	Victor Jose	Asst Prof	Amal Jyoti College of Engineering Koorappally PO Karthappally Kottayam	+919174223616
11-26-2022 7:28:05	divelmamr@jan@gmail.com	K VELMANNIRAJAN	Professor	Vann polytechnic College	
11-26-2022 10:54:03	babuk1@smist.edu.in	K BABU	Assistant Professor	SRM Institute of Science & Technology	9080918101
11-26-2022 12:08:42	asha.s@mbrel.ac.in	ASHA S	ASSOCIATE PROFESSOR	MAAR BASELIOS COLLEGE OF ENGINEERING & TECHNOLOGY	994087843
11-26-2022 20:46:28	muvelimur@jan@gmail.com	Murali M	Assistant Professor	Sona College of Technology, Salem	9447741068
11-26-2022 21:10:16	ravikassiy74@gmail.com	RAVI S	Ph.D Research scholar	Government Arts and Science College Salem-7	7639916789
12-12-2022 19:59:51	s.sivaneeddy453@gmail.com	SHIVANI SANUGALI	STUDENT	VIGNANA BHARATHI INSTITUTE OF TECHNOLOGY, AFFILIATED TO JNTU	8300051786
11-27-2022 1:44:14	jasmine@awheng.org	Jasmine P	Assistant professor	AWH Eng. College	8912031105
11-27-2022 6:59:54	m.reetha@predeep@mesce.ac.in	MREDHULA L	PROFESSOR	MES COLLEGE OF ENGINEERING, KUTTIIPPURAM	9947713739
11-27-2022 9:41:13	pmscharia@gmail.com	Shafila p m	Asstist professor	MES college of engineering and technology, kururkara	9947210179
11-27-2022 15:22:34	gloryselvam@gmail.com	DR.T.GLOREY SELVAM	Associate professor of	Sri Meenakshi Govt Arts college for women sylvish woman	9658085145
11-27-2022 16:03:14	pransu10182@gmail.com	Dr.G.Pranesh	Assistant Professor (S/	M.A.E.T Engineering College	9043418071
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12-4-2022 18:46:54	c.sathya@pmu.edu	C SATHYA	Assistant Professor	Pmstl-Thranlavur	09496234801
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12-12-2022 18:25:00	villilnchid@gmail.com	Dr.Viljayalakshmi ch	Assistant professor	Sil.peter & engineering college Hyderabad	8582767311
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12-12-2022 18:52:32	visruthpranpryan10@gmail.com	Visruthpryan PT	Second year diploma in	Government polytechnic college in maitanur	9362486949
12-12-2022 18:58:29	amalmamj2030@gmail.com	Amal Manoj	Civil Engineering	Government Polytechnic College, Maitanur	7034354189
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12-12-2022 20:01:03	viswalthk1@gmail.com	VISWALITH K	CIVIL ENGINEERING	GOVERNMENT POLYTECHNIC COLLEGE MATTANNUR KANNUR	9072071629
12-12-2022 20:03:41	es8469653@gmail.com	Sanjay Krishna k m	Second year diploma in	Gov. Maitanur poly	9207888768
12-12-2022 20:04:40	preludt@gmail.com	Preld T	Student	GPTC MATTANNUR	6235093303
12-12-2022 20:17:22	shvadh@shbmr@gmail.com	Shvadh SB	Student	Government Polytechnic College Maitanur	7308128190
12-12-2022 20:17:23	abhinandanilkumar0@gmail.com	Abhinand Anilkumar	Second year Civil enginr	Govt Poly technic college Maitanur	9188391030
12-12-2022 20:18:18	Advailin P	Advailin P	Student	Government Polytechnic College, Maitanur	753891421
12-12-2022 20:21:47	akshayvesale@gmail.com	AKSHAY P	STUDENT	GOVERNMENT POLYTECHNIC COLLEGE MATTANNUR	6282113887
12-12-2022 20:28:23	vyshnavm@jan@gmail.com	Vyshnav E	STUDENT	Government polytechnic college Maitanur	8350773628
12-12-2022 21:31:18	ajayraj7724@gmail.com	Ajayraj M	Student	Gov. Polytechnic college maitanur	7034917606
12-12-2022 23:20:45	padgowlam38@gmail.com	GOVTHAMAN P.S	ASSOCIATE PROFESSOR	S.B.M COLLEGE OF ENGINEERING AND TECHNOLOGY, DINDIGUL	9878083334
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12-13-2022 12:54:18	elare@2201@gmail.com	ELAVARASI K	Assistant Professor	Karngam academy of higher education	9940789464
12-13-2022 12:57:37	shekharvel@baach.edu.in	Dr.S Shekharvel	Assistant Professor (B	And Annand College (Autonomous)	9488401129



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Nehru College of Engineering and Research Centre



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12-13-2022 13 34:48	hran.ece@nec.ac.in	Ms. KIRAN M	ASSISTANT PROFESSOR	NEHRU COLLEGE OF ENGINEERING & RESEARCH CHETTRE	8129149448
12-13-2022 13 40:20	ireeshahreddy@gmail.com	Shreelekha	Assistant professor	Nehru college of engineering and research centre	9493183904
12-13-2022 14 11:53	sharushethp999@gmail.com	Shana Sherin K P	M.Tech Student	Nehru college of engineering and research centre	7994099235
12-13-2022 15 43:13	rkulkarni_ece@nec.ac.in	Rajkumar P	Senior Assistant Professor	Nehru College of Engineering and Research Centre	9743066196
12-13-2022 16 13:02	sayanam@jawaharcolleges.com	Sayana M	Asst. Prof.	JCET	9833372869
12-13-2022 16 14:21	principal@jawaharcolleges.com	Dr. Gunasekaran N	Professor and Principal	Jawahar College of Engineering and Technology	9834379192
12-13-2022 17 32:35	anuj@jawaharcolleges.com	ANUJ P	Assistant Professor	Jawahar College of Engineering and Technology	9844683498
12-13-2022 18 33:17	harishreddy@gmail.com	Dr. R. Kannan	Professor	Nehru Institute of Engineering and Technology	9894770785
12-13-2022 20 05:22	swayajaramesh15@gmail.com	AISWARAYA RAMESH	ASSISTANT PROFESSOR	NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE	92343894249
12-13-2022 20 15:05	surya.edept@gmail.com	Dr.V Surya Sathagiri Annuja	Associate Professor	Aditya Engineering College	9440840517
12-13-2022 20 25:08	premliala1617@gmail.com	Premliala	Assistant Professor	Caraar Point University, Hamirpur Himachal Pradesh	9230089388
12-13-2022 20 42:10	rahk627@gmail.com	LAKSHUJANA KUMAR G	LECTURER	WERTI POLYTECHNIC COLLEGE, TIRUNELVELU, TAMILNADU	9923679927
12-13-2022 20 44:03	vishag@jawaharcolleges.com	Vishva G	Asst Professor	JCET	8891132670
12-13-2022 20 44:07	hechitra@jawaharcolleges.com	Chitra K G	Assistant Professor	JCET	8907359212
12-13-2022 22 36:32	neenuydr@gmail.com	Neenu Daroch	Research scholar (Zoo)	Caraar Point University, Hamirpur	8824576209
12-13-2022 21 28:03	muthukumar.muthu25102002@gmail.com	MUTHUKUMAR G	Student	Mathayammal Engineering College	830873782
12-13-2022 22 11:09	saddamkhr@gmail.com	Saddam Khan	Research Scholar	Caraar Point University Hamirpur HP	8839782803
12-13-2022 22 12:59	profkomasekhar@gmail.com	Dr. G. SOMASEKHAR	Associate Professor	SRI INSTITUTE OF SCIENCE AND TECHNOLOGY	9845509786
12-13-2022 22 17:59	kujharshukme@gmail.com	K.R.Sujashini	Assistant professor	Eastward Engineering college	9962368444
12-14-2022 7:34:22	neelumarangasitu@gmail.com	Neelujai Joy	Asst Professor	Jawahar Business School, JCET, Lakshid, Ottapalam, Palakkad	08239880399



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### INTERNAL QUALITY ASSURANCE CELL

**Nehru College of Engineering and Research Centre – IQAC organized One day National Seminar on “ ROLE AND REACH OF NATIONAL EDUCATION POLICY(NEP)-2020 IN TECHNICAL EDUCATION” on December 14, 2022 in Hybrid Mode.**

Nehru Group of Institutions (NGI) with its humble beginning in 1968 at Kuniamuthur, Coimbatore, Tamil Nadu was established by the Founder Chairman Late Shri P.K.Das with the objective of providing higher education in the field of Aeronautical Engineering. NGI progressively flourished and started offering undergraduate (UG), postgraduate (PG) and doctoral(PhD) programs in all major Engineering branches, Management, Medical Sciences, Architecture, Law, Arts and Science, Paramedical Sciences and Hospitality management. NGI also started offering pre-school education to kids, with the establishment of International Schools. Currently, the Nehru Group of Institutions operates through its 20+ state-of-the-art institutions in the states of Kerala and Tamil Nadu.

Nehru College of Engineering and Research Centre (NCERC), a temple of knowledge well known for its dedicated and committed service to the realm of technical education in Kerala, is an ISO 9001:2015 certified institution, approved by the All India Council for Technical Education (AICTE) and is re-accredited by National Assessment and Accreditation Council (NAAC) with "A" grade and NBA accreditation for two undergraduate programs. It is also an approved research center that caters to the needs of higher education and research. The Institution offers six undergraduate programs in engineering and post graduate programs in Cyber Security, VLSI, Computer Science and Engineering and Energy systems apart from Master of Computer Applications and Master of Business Administration. All the departments are headed by well qualified, experienced and committed faculty who are highly professional. International seminars, lectures, workshops, technical exhibitions, co-curricular and extra-curricular activities are organized by the college on a regular basis to enlighten the minds of the student fraternity. With a perfectly designed and absolutely fabulous infrastructure NCERC is a cut above the rest. It is equipped with well-furnished classrooms, modern laboratories, auditoriums, hostels, subsidized canteens, transportation facilities, Wi-Fi connectivity and a modern library with a rich collection of books. With all the modern facilities and a conducive environment for peaceful intellectual activity, NCERC is a sought after place for healthy life, lucid thinking and pleasant learning pursuits. NCERC is now holding yearlong celebration of 20 year of successful completion.

**Nehru College of Engineering and Research Centre – IQAC organized One day National Seminar on “ ROLE AND REACH OF NATIONAL EDUCATION POLICY(NEP)-2020 IN TECHNICAL EDUCATION” on December 14, 2022 in Hybrid Mode.**



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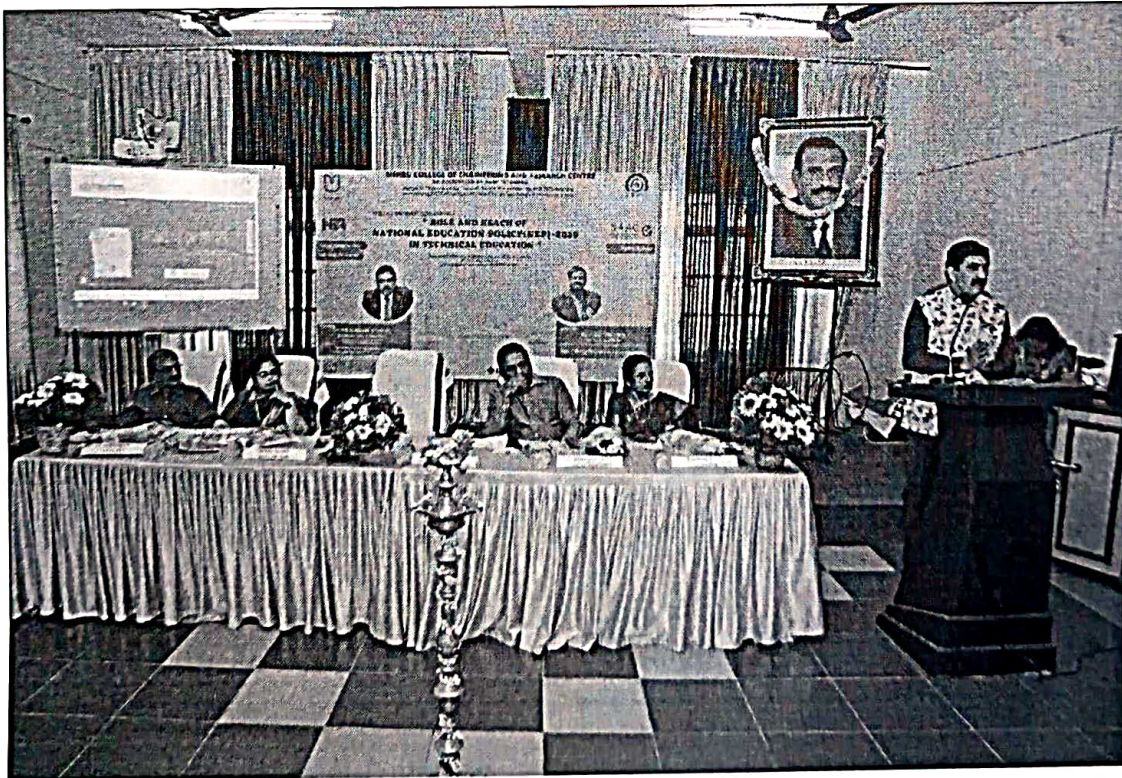
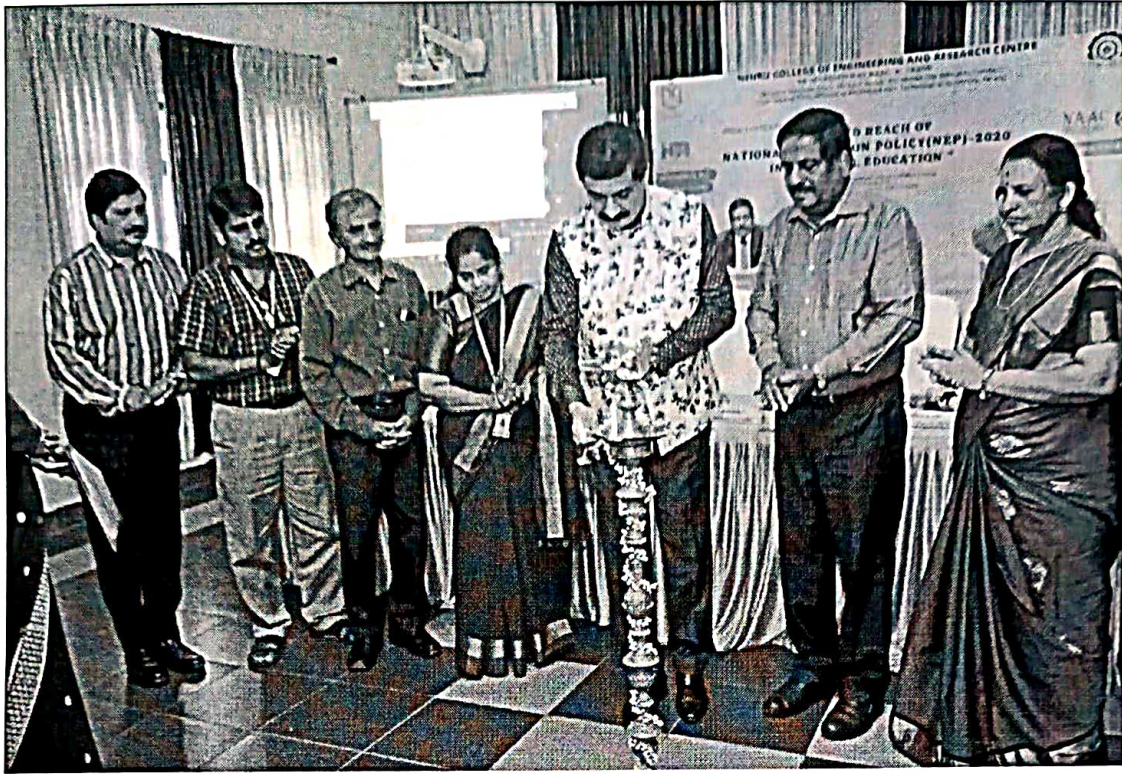
The inaugural session was organized in the presence of Dr.Kuncheria P Isaac , Founder Vice Chancellor, Kerala Technological University (KTU) , Former Member Secretary of AICTE , Adv.Dr.P.Krishnadas, Chairman and Managing Trustee , Nehru Group of Institutions, Dr.Ambikadevi Amma T, Principal of Nehru College of Engineering and Research Centre, Dr. Radha Krishnan K, Emeritus Professor, NIGI, Dr.Sobha Manakkal , Director IQAC, Prof. P. Sundaramoorthi , Coordinator of the seminar , participants from various institutions and faculty members.



The seminar was officially inaugurated by Dr.Kuncheria P Isaac, Founder Vice Chancellor, Kerala Technological University (KTU), Former Member Secretary of AICTE in the seminar hall of Aryabhata Block of the Institution. The dignitaries showered their blessings and wishes for the seminar.



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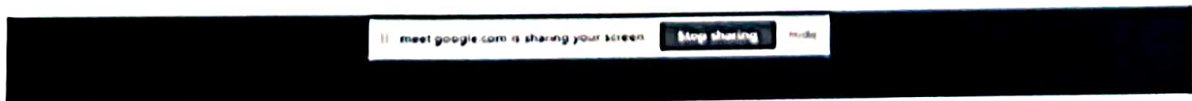
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Dr.Kuncheria P Isaac delivered a session on “Role and Reach of National Educational Policy (NEP) 2020 in Technical Education. The session focused in imparting knowledge on the evolution, value, importance and role of NEP in various levels of education starting from school to Higher Education. The session highlighted the skills to be developed by students in various levels of education. Information regarding the Academic Bank of Credits and awarding of degrees based on credits was clearly explained by the resource person.

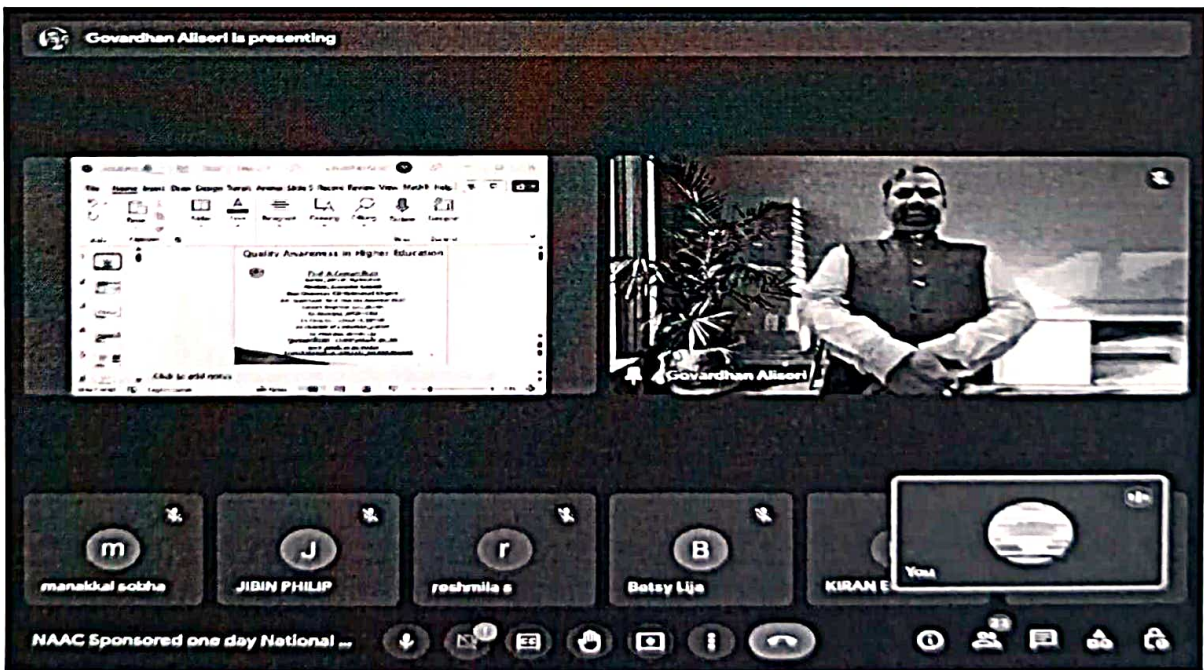
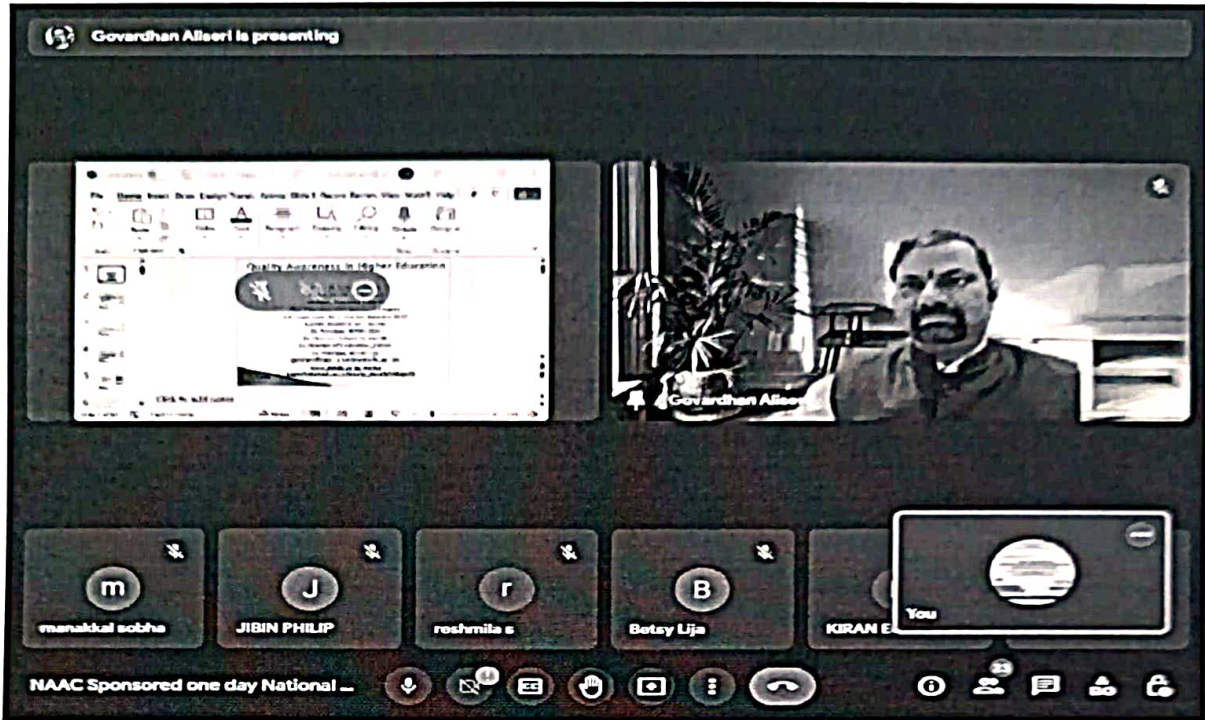


Dr KUNCHERIA P ISAAC

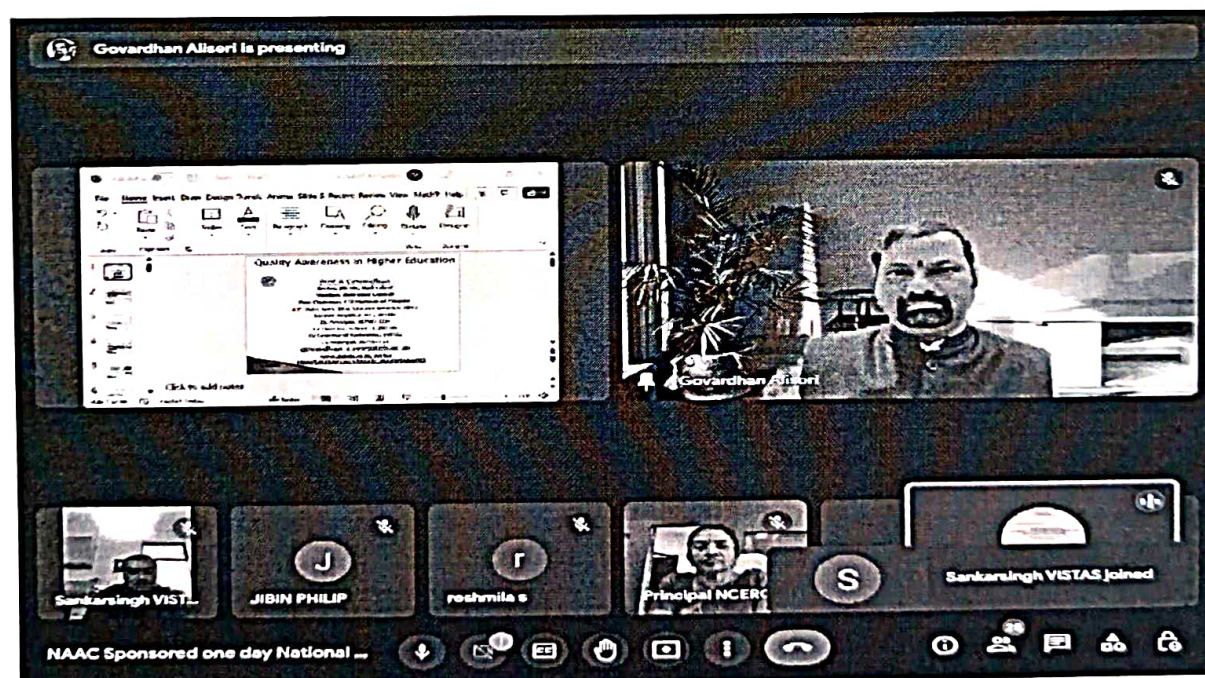
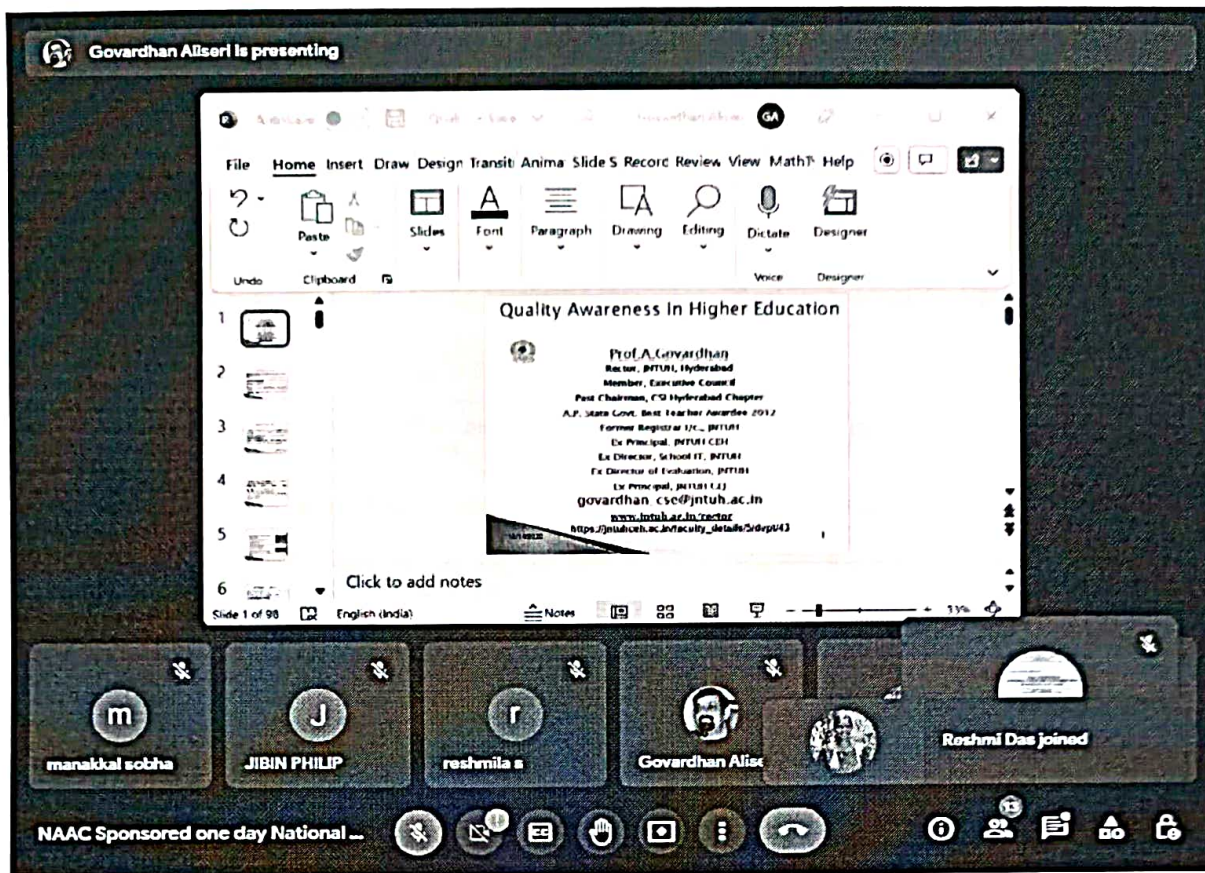


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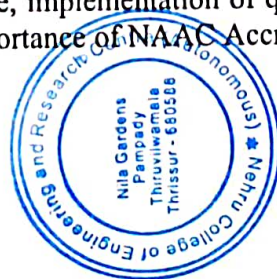
Dr. A. Govardhan , Pro-Vice Chancellor , Jawaharlal Nehru Technological University , Hyderabad (JNTUH) delivered a session on “ Quality Assurance in Higher Education”



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The session delivered by Dr.A.Govardhan imparted knowledge on Quality policy in education sector, quality awareness , qauality assurance, implementation of quality practices in educational institution. The session emphasized the importance of NAAC Accreditation, NBA Accreditation,



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NIRF, Autonomous Status, Deemed University Status. The speaker explained the quality practices to be implemented by the Higher Educational Institution to upgrade the status and bring in innovations in the educational sector. The speaker insisted on the importance of research activities by the students and faculty members to improve the quality of education.

The screenshot shows a Zoom meeting interface. At the top, it says "Govardhan Aliseri is presenting". The main content is a slide titled "Quality Assurance". The slide text reads: "Quality Assurance refers to the process of maintaining standards reliably and consistently by applying criteria of success in a course, programme or institution." followed by a bulleted list of four components. A small video thumbnail labeled "You" is visible in the bottom right corner of the slide area. The Zoom control bar at the bottom includes icons for mute, video, chat, hand raise, share screen, and other meeting functions. The text "NAAC Sponsored one day National ..." is partially visible on the left side of the control bar.

Govardhan Aliseri is presenting

## Quality Assurance

Quality Assurance refers to the process of maintaining standards reliably and consistently by applying criteria of success in a course, programme or institution.

- › Quality Assurance can be defined in terms of its four components:
- › Everyone in the enterprise has a responsibility for enhancing the quality of the product or service
- › Everyone in the enterprise has a responsibility for maintaining the quality of the product or service
- › Everyone in the enterprise understands, uses and feels ownership of the systems which are in place for maintaining and enhancing quality and
- › Management regularly checks the validity of the system for checking quality (Frazer, 1992).

You

NAAC Sponsored one day National ...

Around 120 faculty members across the country participated in the seminar both in offline and online mode. The response from the participants was extremely encouraging and the participants requested to organize further more programs on National Educational Policy.

The Seminar concluded with vote of thanks delivered by the coordinator and national anthem.



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**NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE**

RE-ACCREDITED BY NAAC "A" GRADE  
Pampady, Thiruvilwamala, Thrissur, Kerala, Pin: 680588  
(ISO 9001-2015 Certified)

(Approved by AICTE Affiliated to APJ Abdul Kalam Technological University, Kerala)



NAAC SPONSORED



**ONE DAY NATIONAL LEVEL SEMINAR ON  
" ROLE AND REACH OF NATIONAL EDUCATION  
POLICY (NEP)-2020 IN TECHNICAL EDUCATION "**

**DECEMBER-14 2022**

ORGANISED BY  
Internal Quality Assurance Cell (IQAC)-NCERC

**CERTIFICATE**

This is to certify that Mr/Ms R. RAMYA, ASSISTANT PROFESSOR  
PERIYAR MANIAMMAL INSTITUTE OF SCIENCE & TECHNOLOGY

has participated in the One Day National Level Seminar on  
"Role and Reach of National Education Policy (NEP)-2020 In Technical Education"  
Organized by  
Internal Quality Assurance Cell (IQAC)-NCERC



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Prof. P. Sundaramoorthi  
NEP-2020 Institution Co-ordinator  
NCERC

Dr. Sobha Manakkal  
IQAC DIRECTOR  
NCERC

Dr. Ambika Devi Amma T  
Principal  
NCERC



A.

ANNEXURE:II

Formnt for Statement of Expenditure

(to be sent along with claim)

Name & Address of the Institution: NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE, THRISSUR, KERALA-680588

Dates of Seminar / Workshop / Conference: DECEMBER 14, 2022

Head	: Expenditure
A. CHIEF GUEST HONORARIUM & MOMENTO	: Rs.5,795.00
B. RESOURCE PERSON REMUNERATION, TA	: Rs.4,000.00
C. STAGE AND FLORAL	: Rs.3,690.00
D. PRINTING	: Rs.4,680.00
E. REGISTRATION KIT	: Rs.6,500.00
F. FOOD AND SNACKS	: Rs.11,000.00
G. PHOTO AND VIDEO GRAPHY	: Rs.1,500.00
H. AUDITOR FEE	: Rs.1,200.00
TOTAL	: Rs. 38,365.00

Certified that an amount of Rs-38,365/- is incurred Under incidental expenses towards Seminar / Workshop / Conference to our Institution.

Name and Signature of the Head of the Institution with seal

11/01/2023  
PRINCIPAL  
Nehru College of  
Engineering and Research Centre  
Pampady, Thiruvilwamala, Thrissur DL,  
Pin - 680588, Kerala

Name and Signature of Finance Officer/Accounts Officer/ Bursar with seal



Certified

Name, Address and Signature of the practicing Chartered Accountants with seal & Membership No.

UDIN: 23237759BGWCQW5079

10.01.2023

For VYSHAKH & RAJESH  
Chartered Accountants  
(Reg No: 0182035)

RAJESH. V, ACA  
Partner

(Membership No. 237759)



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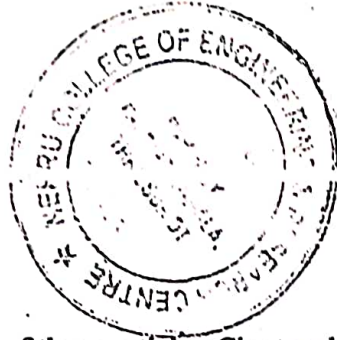
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Thiruvilwamala, Thrissur - 680588

B.

### Utilization Certificate

It is certified that an amount of Rs. 38, 365/- (Rupees thirty eight thousand three hundred and sixty five only) incurred towards the expenditure for organizing seminar/workshop/conference has been utilized for the purpose for which it is allocated and in accordance with the terms and conditions as laid down by the National Assessment and Accreditation Council (NAAC), Bangalore.

If any excess payment is noticed as a result of check or audit objection at a later stage, we have no objection for refund, adjust or regularization of the objected amount.



Name, Address and Signature of the practicing Chartered Accountants with seal & Membership No.


UDIN: 23237759BGWCQW5079

10.01.2023

For VYSHAKH & RAJESH  
Chartered Accountants  
(Reg No. 015/2075)

RAJESH. V, ACA  
Partner  
(Membership No: 237759)



  
11/01/2023

Name and Signature  
of Head of the Institution

with Seal

PRINCIPAL

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Pampady, Thiruvilwamala, Thrissur  
Pin - 680 557, Kerala

  
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