Nehru College of Engineering and Research Centre

NAAC ACCREDITED

(AN ISO 9001 : 2015 CERTIFIED INSTITUTION)
Approved by AICTE, New Delhi
& Affiliated to APJ AbdulKalam Technological University (KTU)

DE	Criterion	Description
	6.2.1	The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

PRINCIPAL
Nehru College of
Engineering and Research Centre
Pampady, Thiruvilwamala, Thrissur Dt
Pin 680 597 Kerala

(Sponsors : Nehru College of Educational and Charitable Trust)

College Campus : Nila Gardens, Pampady, Near Lakkidi Rly. Station, Thiruvilwamala, Thrissur (Dist), Kerala - 680 588
Tel / Fax : +91 4884 - 282070, 284000. E-mail : office@ncerc.ac.in, admissions@ncerc.ac.in, web : www.ncerc.ac.in

Invoice No ELZ/QUO/18-19/0760
Ref No

Dated 18-Dec-2018

Elementz Engineers Guild Pvt Ltd (18-19)

TC 25/1655/5, Rema Plaza, SS Kovil Road
Thampanoor, Thiruvananthapuram-695001
GSTIN/UIN 32AADCE1652L1ZT
State Name Kerala, Code 32
CIN U29299KL2012PTC032069
E-Mail sales@elementzonline.com

QUOTATION/PROFORMA INVOICE

Party Principal, Nehru college of Engineering and Research Centre
Pambady, Thrissur
State Name : Kerala, Code : 32
Place of Supply : Kerala

Payment Terms
100% in Advance

Sl No.	Description of Goods	HSN/SAC	GST Rate	Quantity	Rate	per	Amount
1	RASPBERRY PI 3 MODEL B	84719000	18 %	5 Nos	2,350.00	Nos	11,750.00
2	RASPBERRY PI3 OFFICIAL CASE	84719000	18 %	5 Nos	200.00	Nos	1,000.00
3	ERD 5V2A TO USB PORT ADAPTER FOR PI	85045090	18 %	5 Nos	140.00	Nos	700.00
4	16GB CLASS 10 MICRO SD CARD WITH NOOBS	85235100	18 %	5 Nos	400.00	Nos	2,000.00
5	HDMI TO VGA ADAPTOR& 3.5mm AUDIO OUTPUT CABLE	85444999	18 %	5 Nos	270.00	Nos	1,350.00
6	LAN CABLE	85444930	18 %	5 Nos	40.00	Nos	200.00
7	TM4C123GXL Tiva C Series Evaluation Kit	85389000	18 %	4 Nos	1,350.00	Nos	5,400.00
8	UNO R3 ARDUINO COMPATIBLE BOARD	84719000	18 %	10 Nos	450.00	Nos	4,500.00
9	NODE MCU WITH CABLE	85423900	18 %	2 Nos	370.00	Nos	740.00
10	CP2102 USB TO TTL CONVERTER MODULE	84719000	18 %	5 Nos	140.00	Nos	700.00
11	BREAD BOARD-840 PIN(GL-12)	83119000	18 %	10 Nos	80.00	Nos	800.00
12	JUMPER CABLE	85442090	18 %	15 Nos	70.00	Nos	1,050.00
13	HC-SR04 ULTRASONIC SENSOR MODULE	85159000	18 %	5 Nos	80.00	Nos	400.00
14	HC-SR501 PYROELECTRIC INFRARED SENSOR MODULE	85159000	18 %	5 Nos	85.00	Nos	425.00
15	IR OBSTACLE SENSOR MODULE	85340000	18 %	5 Nos	50.00	Nos	250.00
16	HC-05 5V TTL BLUETOOTH MODULE	85340000	18 %	5 Nos	260.00	Nos	1,300.00
17	DHT 11 Temperature & Humidity Sensor	84719000	18 %	5 Nos	140.00	Nos	700.00

This is a Computer Generated Invoice

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Nehru College of
Engineering and Research Centre
Pambady, Thiruvananthapuram, Thrissur

Invoice No. ELZ/QUO/18-19/0760
Ref. No.

Dated 18-Dec-2018

Elementz Engineers Guild Pvt Ltd (18-19)

TC 25/1655/5, Rema Plaza, SS Kovil Road
Thampanoor, Thiruvananthapuram-695001
GSTIN/UIN: 32AADCE1652L1ZT
State Name : Kerala, Code : 32
CIN: U29299KL2012PTC032069
E-Mail : sales@elementzonline.com

QUOTATION/PROFORMA INVOICE(Page 2)

Party : Principal, Nehru college of Engineering and Research Centre
Pambady, Thrissur
State Name : Kerala, Code : 32
Place of Supply : Kerala

SI No.	Description of Goods	HSN/SAC	GST Rate	Quantity	Rate	per	Amount
18	LM35 TEMPERATURE SENSOR	85423900	18 %	5 Nos	50.00	Nos	250.00
19	MPU6050 3-AXIS GYROSCOPE & ACC.METER SENSOR MODULE	85423100	18 %	5 Nos	240.00	Nos	1,200.00
20	SOIL MOISTURE SENSOR	90156090	18 %	5 Nos	130.00	Nos	650.00
21	ADXL335 3-AXIS ANALOG ACC.METER SENSOR MODULE GY-61	85412900	18 %	5 Nos	225.00	Nos	1,125.00
22	FLAME SENSOR	84719000	18 %	5 Nos	130.00	Nos	650.00
							37,140.00
	Shipping Charges						360.00
	Output CGST@9%				9 %		3,375.02
	Output SGST@9%				9 %		3,375.02
	Less : Round Off						(-)0.04
	Total			**126 Nos**			**44,250.00**

E & O E

Amount Chargeable (in words)
INR Forty Four Thousand Two Hundred Fifty Only

Company's PAN : AADCE1652L

Date & Time 18-Dec-2018 at 17:53

for Elementz Engineers Guild Pvt Ltd (18-19)

Declaration
We declare that this invoice shows the actual price of
the goods described and that all particulars are true and
correct.

Authorised Signatory

This is a Computer Generated Invoice

PRINCIPAL
Nehru College of
Engineering and Research Cent,

QUOTATION/PROFORMA INVOICE
(Tax Analysis)

Dated: 18 Dec 2018

Invoice No. ELZ/QUO/18-19/0760

Elementz Engineers Guild Pvt Ltd (18-19)
TC 25/1655/5, Rema Plaza, 55 Kovil Road
Thampanoor, Thiruvananthapuram 695001
GSTIN/URN: 32AADCI1052J1Z1
State Name: Kerala, Code: 32
CIN: U29200KL2012PTC032069
E-Mail: sales@elementzonline.com

Party : **Principal, Nehru college of Engineering and Research Centre**
Pambady, Thrissur
State Name : Kerala, Code : 32
Place of Supply : Kerala

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
84719000	19,487.08	9%	1,753.84	9%	1,753.84	3,507.68
85045090	706.79	9%	63.61	9%	63.61	127.22
85235100	2,019.39	9%	181.75	9%	181.75	363.50
85444999	1,363.09	9%	122.68	9%	122.68	245.36
85444930	201.94	9%	18.17	9%	18.17	36.34
85389000	5,452.34	9%	490.71	9%	490.71	981.42
85423900	999.59	9%	89.97	9%	89.97	179.94
83119000	807.75	9%	72.70	9%	72.70	145.40
85442090	1,060.18	9%	95.42	9%	95.42	190.84
85159000	833.00	9%	74.97	9%	74.97	149.94
85340000	1,565.02	9%	140.85	9%	140.85	281.70
85423100	1,211.63	9%	109.05	9%	109.05	218.10
90158090	656.30	9%	59.07	9%	59.07	118.14
85412900	1,135.90	9%	102.23	9%	102.23	204.46
Total	37,500.00		3,375.02		3,375.02	6,750.04

Tax Amount (in words) : INR Six Thousand Seven Hundred Fifty and Four paise Only

for Elementz Engineers Guild Pvt Ltd (18-19)

Authorised Signatory

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SESSION WISE REPORT

Research and Development Cell, Nehru Group of Institutions, organized the **Technology Based Entrepreneurship Development Program (TEDP) on Internet of Things** for the year 2019-2020 at Nehru College of Engineering and Research centre **(NCERC)**,Pompady, Thrissur during 25th March to 3nd May 2019. It was sponsored by National Science & Technology Entrepreneurship Development Board(NSTEDB), Department of Science and Technology (DST), New Delhi and Entrepreneurship Development Institute of India, (EDII) under Department of Science and Technology- National Implementing and Monitoring Agency for Training (DST-NIMAT)Projects.

Day 1 (25/03/19) - Forenoon session

Inauguration & Programme Objectives: Expectations from trainees, Final Goal, Programme Strategy
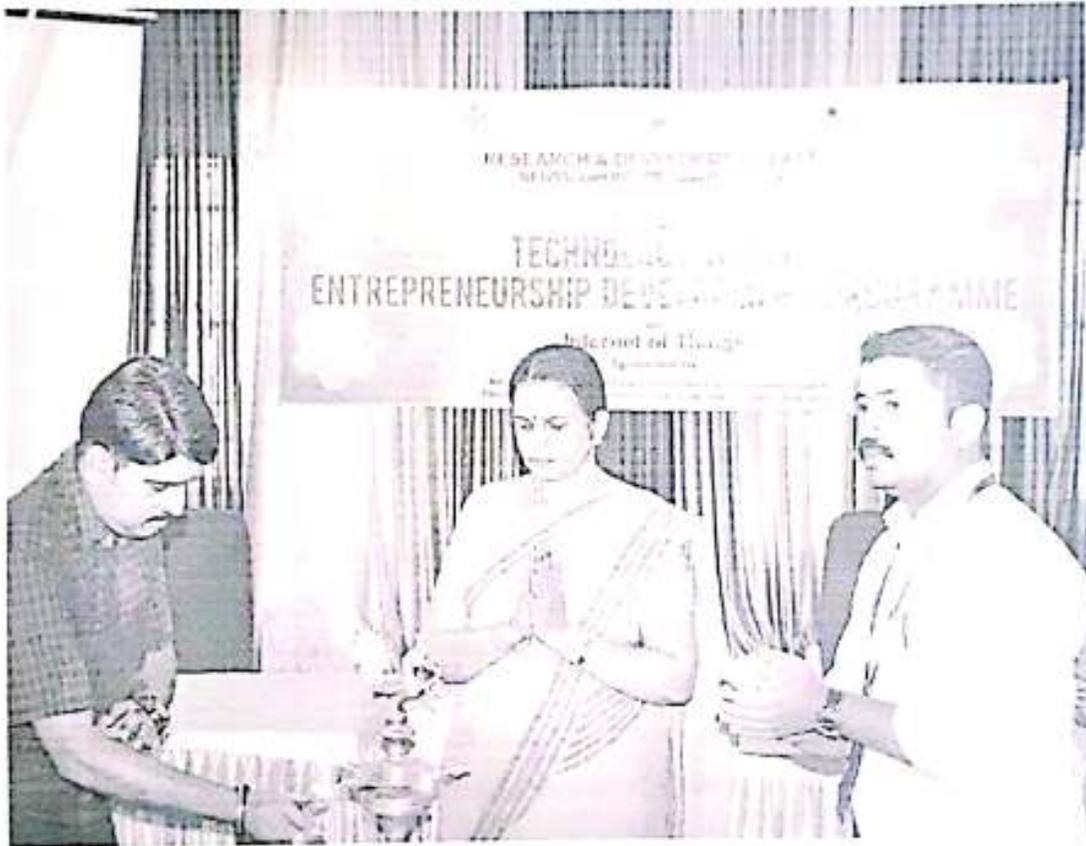
Lighting of the Lamp by dignitaries

- **Dr.Ambikadevi Amma T**, The Principal, Nehru College of Engineering and Research centre, inaugurated the function and delivered the welcome address followed by presidential address to the gathering.

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4

- **Dr. Sudheer S Marar,** HoD MCA department delivered the speech on importance of organizing EAC and felicitated the gathering.
- **Shri. Unni M R** delivered the vote of thanks and the function was concluded with the National Anthem.

Forenoon session by Dr.Sudheer S Marar Historical Background- Entrepreneurship and present scenario

Dr.Sudheer S Marar addressing the participants

Dr.Sudheer S Marar started the session with a very positive motivation to encouraging the young minds to become entrepreneurs as an alternative career option, and the possibilities it brings in future. He gave the importance of being Forward-looking, Hard working Passionate, Confident, Resourceful, and being Positive nature with live examples. The session enlightens the mind set of students regarding in the field of entrepreneurship. He also shared some tips like enjoy what you do, plan out things, manage your resources widely, how to become a self-promoter and much more. Towards the end he shared with students about the three types of people, such as, the one who makes things happen, the one who watch things happen, the one who wonders what's happening.

5

The sessions then concluded by sharing testimony of different CEO's. He spokes on how to convert the idea into an Enterprise and showed many innovative videos on how startup has a very huge impact on our society and how useful it is to our society .He encouraged the students to brainstorm in and throughout the sessions and made us aware about how small things can make big impact in our society .He taught us how a simple and logical idea could convert in potentially bigger business. He had spoken a few words for building self-confidence. Business mans are not doing anything wrong by making money. Then he discussed about how entrepreneurship becomes a social service them.

Day 1 (25/03/19) - Afternoon session

Importance of Technology and knowledge-based entrepreneurship
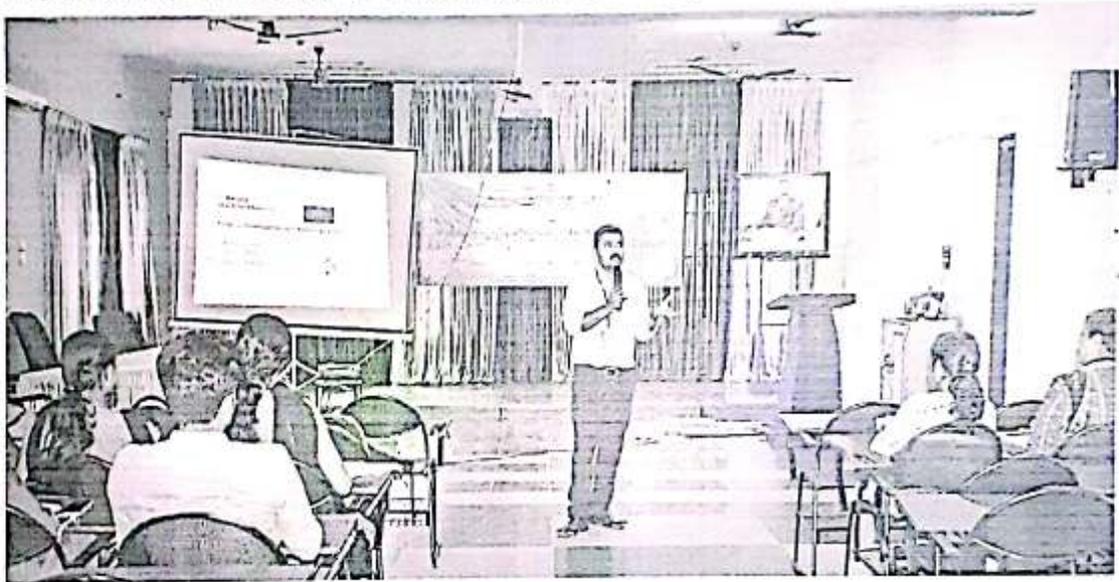
Asst Prof. Mr Unni M R addressing the participants

Unni M R, IEDC Nodal officer ,NCERC taking place the session witha clear picture about the **Role of Technology Entrepreneurship** Education in Encouraging to Launch New Ventures. It is evident that the impact of technology on our day to day lives has grown exponentially over the past decade. Whether it be laptops or cell phones, technology helps us connected with the world around us and acts as a portal to vast amounts of knowledge which can be accessed with ease. However, many new entrepreneurs do not

6

utilize technology to its full extent to propel themselves to new heights.

He then focused on Technology entrepreneurship and it is a concept of transforming research and potential of scientific institutions into new products and services, which significantly increases benefits to consumers and results in a faster economy growth in the future. He highlighted on the fact that the most important element of technology entrepreneurial system is the entrepreneur itself because entrepreneur is the key substance in the development of businesses and startups progression. He stated that the Technology based entrepreneurs have more technical and practical expertise and capabilities than non-technical ones. One significant factor in the new business accomplishment is the conversion of the entrepreneurial attitude into the managerial approach and he gave clear picture on how to attain it with many remarkable examples.

He concluded by saying entrepreneurs should incorporate technology in their businesses they are Communication, Research and Development and Web Based Advertising.

Day 2 (26/03/19) - Forenoon session
Identification of opportunities

Shri.Muruganantham.C addressing the Participants

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7

Shri.Muruganantham.C, Asst. Prof. Department of ECE., NCERC took a session on Identification of opportunities. He discussed about Entrepreneurship is a Process through which entrepreneurs create and grow enterprises. With regards to technology entrepreneurship, he analysed the various areas such as how to create an organizational culture based on knowledge, creating an attitude of openness to knowledge and new solutions among employees. Entrepreneurial community is where significant economic and social entrepreneurial activity exists within an effective system of public and private support. He clearly explained various methods for generating new business ideas. Understand the difference between a business idea and a business opportunity. He gave a complete picture about how to identify various entrepreneurial opportunities. He made the students to understand the nature of the occupational and geographical mobility of entrepreneurs and discuss business opportunities in India. He also explained the Ramp Model and Mullins's Seven-domain Framework for evaluating entrepreneurial opportunities with solid proofs.Next he to identify the opportunity was given with the illustration diagram and with the important terminology: 1) Observing Market Trends. 2) Solving the Problem 3) Finding gaps in the marketplace.

Entrepreneurship development, Policies and practices (public and private) that foster entrepreneurship . Difference between entrepreneur and businessman was taught. Also identifying entrepreneur was given with chart.

He discussed about The windows of Opportunity was explained with the diagram and real time examples:

Definition: Describes the time period in which a new firm can really enter into the market. New entrants will enter into the market once the window is opened. Examples given: Google is not the first in the search business nor Facebook in the social network business. How to identify the opportunity was given with the illustration diagram and with the important terminology: 1)

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8

Scanned with CamScanner

Observing Market Trends. 2) Solving the Problem 3) Finding gaps in the marketplace.

Day 2 (26/03/19) - Afternoon session
Creativity and business

Smt Biji.K.P addressing the Participants

Smt.Biji.K.P Assistant Professor, CSE department, NCERC handled session on Creativity and business. Creativity is the ability to develop new ideas and to discover new ways of looking at problems and opportunities. Innovation is the ability to apply creative solutions to those problems and opportunities in order to enhance people's lives or to enrich society. Every business wants take up with its industry's latest trends and stay ahead of its competitors. Creative thinking — that is, dreaming up new and unique ways of doing things — is obviously a part of that process.

She told method of generating new ideas, even with such a wide variety of sources available, coming up with an idea to serve as the basis for a new venture can still be problematic. The entrepreneur can use several methods to help generate & test new ideas such as, focus groups, brainstorming, brain writing and problem inventory & analysis.

Day 3 (27/03/19) Forenoon session

The technical training and hands on experience on Internet of Things was given by the team Mr.Mohamed Younus, Assistant Embedded Trainee and
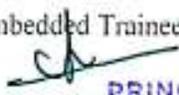
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Pampady, Thiruvilwamala, Thris...

9

Mr.R.Vinoj , Assistant Embedded Trainee of Beta Technologies India Pvt. Ltd., Coimbatore. The team addressed the participants with both theoretical knowledge and made them to handle small projects on IoT by themselves. They gave emphasis on the following Technical Training concepts

1. PCB Design and Fabrication through IoT

2. **The basics of programming languages used in** Raspberry Pi

3. **Cloud Computing based Projects on IoT**

4. Embedded Systems Design based on IoT

5. ARDUINO

Introduction about IoT and Hand on session

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10

PCB Design and Fabrication through IoT

- Knowledge in step-by-step approach for the development and manufacturing of a printed circuit board.

- Identifying the correct components to use in the design.

- Able to find specific issues and skill to solve it in the areas of manufacturing and assembly.

- The students can come to know the potential pollution and safety impacts of PCB manufacturing, as well as applicable standards.

Introduction about PCB Design and Fabrication

Day 3Afternoon Session (27/03/19)

- the basics of programming languages used in **Raspberry Pi**
- Boot the R-Pi with SD card and other peripherals.

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11

- Create user accounts and to write various programs using Python and C languages.

- Network the R-pi and managing directories, files.

- Create and debug programs in an integrated development environment.

- Design and develop their own projects using various sensors.

Hands on session **Raspberry Pi**

Day 4Forenoon Session (28/03/19)

Cloud Computing based Projects on IoT

- To learn how to use Cloud Services.

- To implement Virtualization

- . To build Private Cloud.

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12

Cloud Computing based Projects on IoT

Day 4Afternoon Session (28/03/19)

Embedded Systems Design based on IoT

• To study the different ways of communicating with I/O devices and standard I/O interfaces.

• To study the programming concepts of Embedded Systems

• To study design examples relating Software Implementation. system-on chip., Testing, and debugging

Hands on session concerning Embedded Systems Design based on IoT

Day 5Forenoon Session (29/03/19)

ARDUINO

- Understand the basic principle of how to communicate with the ARDUINO.

- Able Understand the conditions for ARDUINO & Processing.

- Design and develop their own projects using various sensors.

- Able to use microcontrollers with practical applications.

- To develop programs on ARDUINO and to create own projects

with practical applications in Programming, Embedded Systems, Electronics Development: Custom based Embedded Systems Design, Testing and Production

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14

Hands on session on ARDUINO based IoT Projects

Trainer Name :

1. Mohamed Younus, Assistant Embedded Trainee

2. R.Vinoj, Assistant Embedded Trainee

Day 5Afternoon Session (29/03/19)

Discussion with participants for their reactions about the training

The afternoon section was taken by Shri Unni M R, Assistant Professor Department of EEE, NCERC. He discussed about the essential qualities like positive attitude, reacting positivity in adverse situation, self- confidence, do not to give up, ignoring the negative comments etc were discussed. Each quality had a story to motivate students. Students were asked to give feedback. Students were informed about the objectives of this awareness camp and give feedback objectively based on the 1 week learning.
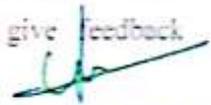
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ED CLUB ACTIVITIES
ACADEMIC YEAR: 2018-2019
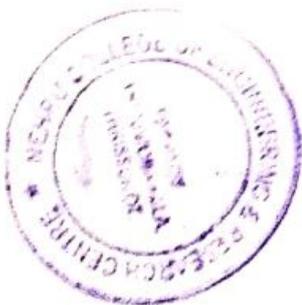
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17

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Innovation Entrepreneurship Development Club Activities

Objectives

- To guide the young entrepreneurs.
- Students having innovative ideas are brought under IEDC.
- To coordinate the activities of entrepreneurship in the college.

Registration of the Club

ED Club of NCERC has been registered with the Directorate of Industries & Commerce under the ED club programme of the Dept.of Industries & Commerce, Govt.of Kerala in 2016.

We got sanction for starting TBI at NGI on 01st January 2019 from NSTEDP, Govt. of India.

Programs Conducted:

(1) Three days Entrepreneurship Awareness Camp 1 was held at Nehru college of Engineering and Research centre on 26th,27th, and 29th September 2018.A total of 89 second year students from various department in the program.

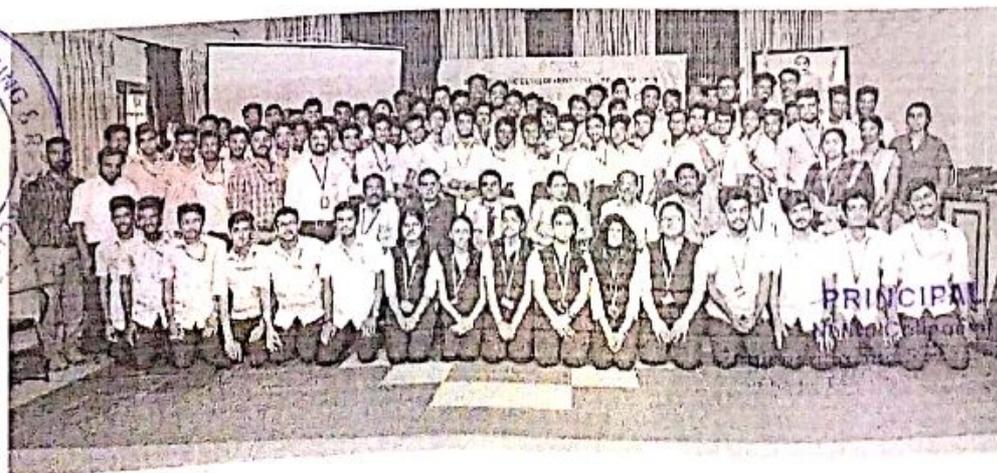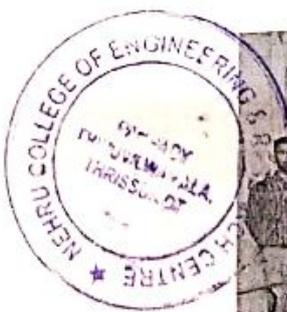
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(2) Three days Entrepreneurship Awareness Camp 2 was held at Nehru college of Engineering and Research centre on 10th, 11th, and 12th October 2018. A total of 75 Third year students from various department in the program.
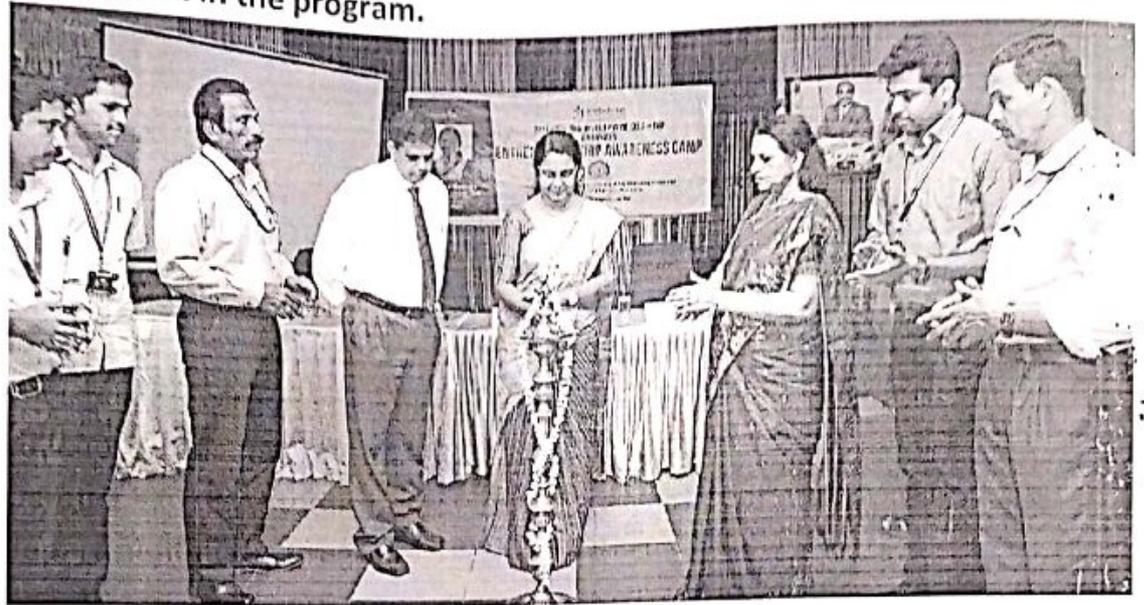
Lighting of Lamp by Smt.LinoGeorge, Assistant District Industries Officer, Government of Kerala

(3) A one day workshop on "INTELLECTUAL PROPERTY RIGHTS-CREATIVE THINKING AND INNOVATION-AN INSIGHT", conducted by Dr.Vinod .V, Professor, Mechanical Department, NSS college of Engineering, Palakkad on 10th January 2019.

(4) Three days Entrepreneurship Awareness Camp 3 was held at Nehru college of Engineering and Research centre on 29th, 30th, and 31stJanuary 2019. A total of 80 First year students from various department in the program.
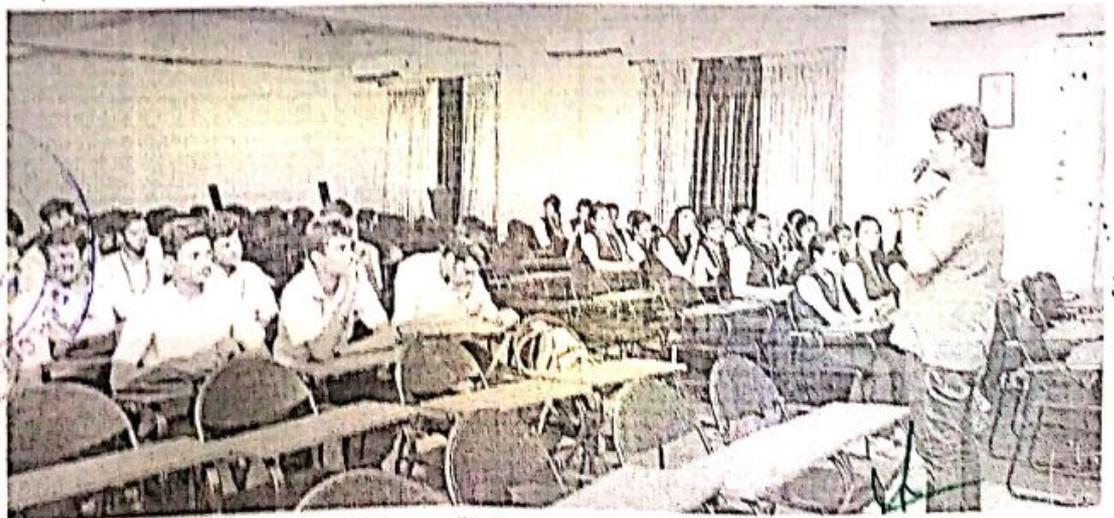
(5) Three days Entrepreneurship Awareness Camp4 was held at Nehru college of Engineering and Research centre on 14th,15th, and 18th March 2019.A total of 80 First year students from various department in the program.

Lighting of Lamp by Shri.Sreejith S L, Founder, Impulz Healthcare

(6) Three days Entrepreneurship Awareness Camp 5 was held at Nehru college of Engineering and Research centre on 28th,29th, and 30th March 2019.A total of 80 First year students from various department in the program.

Shri.Edwin Andrews,CEO,Spartez Technology addressing the students

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20

(7) Six weeks Technological Based Entrepreneurship Development programme(TEDP) on Internet of Things(IoT) was held at Nehru college of Engineering and Research centre on 25th March 2019 to 3rd May 2019. A total of 29 PG(M.Tech) students from various department in the program.


Group photo of TEDP based IoT Program

(8) Four weeks Entrepreneurship Development programme(EDP) was held at Nehru college of Engineering and Research centre on 6th May 2019 to 31st May 2019. A total of 25 students from MCA department in the program.

(9) One day Internet of Things(IoT) workshop was held at Nehru college of Engineering and Research centre on 27th May 2019. A total of 20 Students and Staffs from various department in the program.
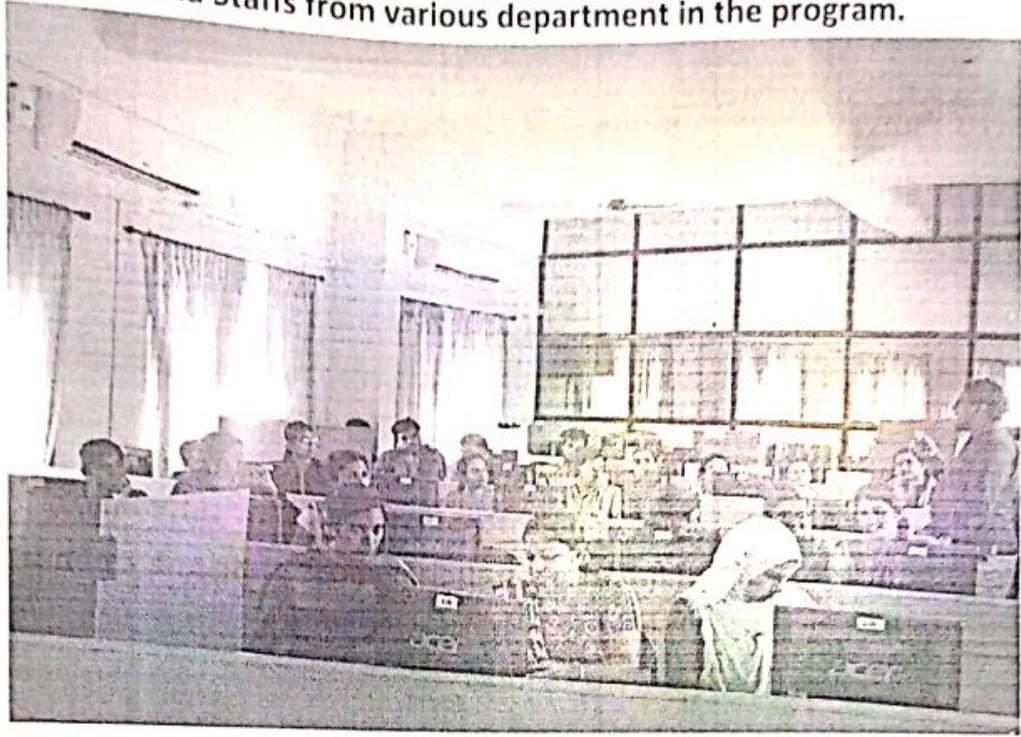
Internet of Things(IoT) workshop

Lab installed

- An IoT based lab is installed for developing projects based on Arduino and Raspberry pie on 27th May 2019 at NCERC campus Pampady.

- Students can work and develop their own projects within the campus using IoT lab.

Student Achievements

- Mr.Sreejith S and Mr.Sudharsan of S7 Mechatronics got selected for Yuva Mastermind and got a grant of Rs.10000 to complete the prototype.

- Mr.Vishnu,Alumni,CSEDept,NCERC,Pampady has started a company named "QUARD PROSO" and got 12 lakhs fund from KSUM.

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22

- Students team from Nehru college of Engineering and Research centre attended the IEDC submit on 3rd November 2018 held at AmalJyothicollege,Kanjirapally,Kottayam.

- Mr.Govind,Mr.JithinT.J,Mr.MelvinJohnson,andMr.Sreerag of final year mechatronics,got incubation in Central Institute of Fisheries Technology(ICAR-CIFT) Kochi.

- Few students from NCERC attended a project innovation competition,"CONCLAVE-2019", CONDUCTED BY THE District Industries Center, Thrissur from 25th to 26th February 2019.

- A group of students across various disciplines attended a project innovation and startupcompetition,"UDYAM SAMAAGAM-2019" conducted by MSME Thrissur from 19th to 20th March 2019.

- Mr.Prasanth K.R and Mr.Sarath Krishna E, First year mechanical engineering students of NCERC, attended the idea presentation camp "SAMRAMBHAK MITHRA", conducted by Mar Ivanios college, Thiruvananthapuram on 16th March 2019.

- Students of Final year mechatronics engineering bagged first prize of Rs.20,000/- in the event " IDEA PITCHING-2019" conducted by Rajagiri college of Engineering, Ernakulam on 15th March 2019.

- Students of Final year mechatronics engineering bagged first prize of Rs.25,000/- in the event " IDEA PITCHING-2019" conducted by Albertian Institute of Science and Technology,Ernakulam.

- Mr. Cyril Joseph and Mr.Sreejith S of EEE department participated in a 2-day workshop, "PRESENTATION SKILL AND Idea Pitching-2019" organized by ICT academy of Kerala in association with Kerala Startup Mission.
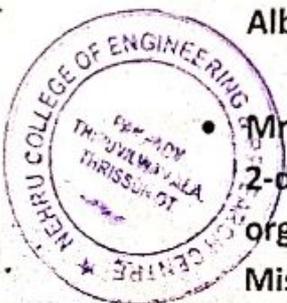
- Seven Students of CSE department participated in a 2-day workshop, "Python Programming" organized by ICT academy of Kerala in association with Kerala Startup Mission from 25th to 26th April 2019.

PATENTS:

Two Student Projects of EEE department filed under INTELLECTUAL PROPERTY INDIA. Project titles are mentioned below:
(1) Weather Based Automatic Roof Top Control
(2) Lightning Arrester For Domestic Appliances(LADA)

STAFF COORDINATOR:

Sl. No.	STAFF NAME	DESIGNATION	DEPARTMENT
1	Mr. UNNI M R	Assistant Professor&IEDC Nodal Officer	Electrical & Electronics Engineering
2	Mr.SITHU DAS	Assistant Professor	Automobile Engineering
3	Mrs.BIJI K P	Assistant Professor	Computer Science Engineering
4	Mrs.REMYA RAMACHANDRAN	Assistant Professor	Electronics & Communication Engineering
5	Mr.DEEPAK V K	Assistant Professor	Mechanical Engineering
6	Mrs.NEETHU P	Assistant Professor	Mechatronics Engineering

STUDENTS COORDINATOR:

Sl.No.	Name	Semester	Department
1.	Mr.AJAY E K	S6	Computer Science Engineering
	Mr.ATHUL B	S6	Electrical & Electronics Engineering

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Pampady, Thiruvilwamala, Thrissur Dt
Pin - 680 597 Kerala
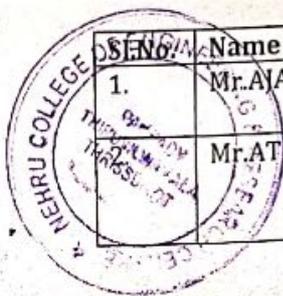
EXECUTIVE COMMITTEE :

Sl.No.	Name	Semester	Department
1	Mr.N SHAFFVAN	S6	Electronics & Communication Engineering
2.	Mr.VINEETH N V	S6	Mechanical Engineering
3	Miss.AFSEENA	S4	Computer Science Engineering
4.	Mr.AKSHAY M S	S4	Electronics & Communication Engineering
5.	Mr.ANAS MUHAMMED	S4	Mechatronics Engineering

FUTURE WORKS:

- We Plan to set up a FAB lab for fabrication and 3D Printer related works.
- We want to tie-up with ASAP for conducting training programs in AI and IoT.
- To save as a hub for technology start ups.
- To contribute to the growth and success of emerging technology business.
- To organize entrepreneur based workshop & seminars.

PRINCIPAL
Nehru College of
Engineering and Research Centre
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25